

Building better batteries

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Efficacy of new microprocessed phototherapy system with five high intensity light emitting diodes (Super LED). <i>Jornal De Pediatria</i> , 2007, 83, 253-258.	0.9	22
2	Composite effect in superionically conducting lithium aluminium germanium phosphate based glass-ceramic. <i>Journal of Power Sources</i> , 2008, 185, 480-485.	4.0	89
3	From cell level to system level: efficient design for optimised energy storage systems. <i>Elektrotechnik Und Informationstechnik</i> , 2008, 125, 372-376.	0.7	0
4	Towards Sustainable and Renewable Systems for Electrochemical Energy Storage. <i>ChemSusChem</i> , 2008, 1, 777-779.	3.6	73
5	Novel technique to form electrode-electrolyte nanointerface in all-solid-state rechargeable lithium batteries. <i>Electrochemistry Communications</i> , 2008, 10, 1860-1863.	2.3	62
6	Lithium Battery Materials $\text{Li}_x\text{M}_{1-x}\text{PO}_4$ ($\text{M} = \text{Mn, Fe, Co, and Ni}$): Insights into Defect Association, Transport Mechanisms, and Doping Behavior. <i>Chemistry of Materials</i> , 2008, 20, 5907-5915.	3.2	483
7	Materials for electrochemical capacitors. <i>Nature Materials</i> , 2008, 7, 845-854.	13.3	14,090
8	Editorial for Biointerphases in focus: research on biointerfaces with neutrons and synchrotron radiation. <i>Biointerphases</i> , 2008, 3, FB1-FB2.	0.6	1
9	Li^+ -Polymer Electrolyte-Water Stable Lithium-Conducting Glass Ceramics Composite for Lithium-Air Secondary Batteries with an Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 2008, 155, A965.	1.3	195
10	Superionic Conductivity in a Lithium Aluminum Germanium Phosphate Glass-Ceramic. <i>Journal of the Electrochemical Society</i> , 2008, 155, A915.	1.3	133
11	High-Rate Lithium-Ion Battery Cathodes Using Nanostructured Polyaniline/Carbon Nanotube Array Composites. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A223.	2.2	17
12	Deposition of TiN and TaN by Remote Plasma ALD for Cu and Li Diffusion Barrier Applications. <i>Journal of the Electrochemical Society</i> , 2008, 155, G287.	1.3	86
13	Enhanced Rate Capabilities of Nanobrookite with Electronically Conducting MWCNT Networks. <i>Crystal Growth and Design</i> , 2008, 8, 4506-4510.	1.4	32
14	Solubility of Hydrogen in the Cyclic Alkylene Ester 1,2-Butylene Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2844-2850.	1.0	9
15	Carbon-Coated Macroporous $\text{Sn}_2\text{P}_2\text{O}_7$ as Anode Materials for Li-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14216-14219.	1.5	62
16	Evidence of Transition-Metal Accumulation on Aged Graphite Anodes by SIMS. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A226.	2.2	79
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1075	Novel positive electrode architecture for rechargeable lithium/sulfur batteries. <i>Journal of Power Sources</i> , 2012, 211, 19-26.	4.0	113
1076	Applying functionalized carbon nanotubes to enhance electrochemical performances of tin oxide composite electrodes for Li-ion battery. <i>Journal of Power Sources</i> , 2012, 212, 66-72.	4.0	67
1077	Fabrication and characterization of Li-Mn-Ni-O sputtered thin film high voltage cathodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 211, 108-118.	4.0	71
1078	Structural study of LiFePO ₄ -LiNiPO ₄ solid solutions. <i>Journal of Power Sources</i> , 2012, 213, 287-295.	4.0	17
1079	Lithium storage performance in ordered mesoporous MoS ₂ electrode material. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 418-423.	2.2	173
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1084	Zero-dimensional, one-dimensional, two-dimensional and three-dimensional nanostructured materials for advanced electrochemical energy devices. <i>Progress in Materials Science</i> , 2012, 57, 724-803.	16.0	892
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1089	High-Capacity Silicon-Air Battery in Alkaline Solution. <i>ChemSusChem</i> , 2012, 5, 177-180.	3.6	50
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1096	Reversible Lithium-Ion Storage in Silver-Treated Nanoscale Hollow Porous Silicon Particles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2409-2413.	7.2	299
1097	A new high-energy density hydrogen carrier-carbohydrate-might be better than methanol. <i>International Journal of Energy Research</i> , 2013, 37, 769-779.	2.2	16
1098	Making Li-Air Batteries Rechargeable: Material Challenges. <i>Advanced Functional Materials</i> , 2013, 23, 987-1004.	7.8	477
1099	Graphene-based surface modification on layered Li-rich cathode for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9954.	5.2	163
1100	Co ₃ O ₄ -carbon nanotube heterostructures with bead-on-string architecture for enhanced lithium storage performance. <i>Nanoscale</i> , 2013, 5, 8067.	2.8	78
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1105	Microwave-Induced In-Situ Synthesis of Zn ₂ GeO ₄ /N-Doped Graphene Nanocomposites and Their Lithium-Storage Properties. <i>Chemistry - A European Journal</i> , 2013, 19, 6027-6033.	1.7	83
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1107	Preparation of hollow Zn ₂ SnO ₄ boxes for advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 14480.	1.7	62
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1176	Sulfide Solid Electrolyte with Favorable Mechanical Property for All-Solid-State Lithium Battery. <i>Scientific Reports</i> , 2013, 3, 2261.	1.6	702
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1179	Ti- and Zr-based metal-air batteries. <i>Journal of Power Sources</i> , 2013, 242, 400-404.	4.0	12
1180	Nanosized MnO ₂ spines on Au stems for high-performance flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13301.	5.2	36
1181	Phosphorus-doped porous carbons as efficient electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9889.	5.2	223

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1207	Self-supported multi-walled carbon nanotube-embedded silicon nanoparticle films for anodes of Li-ion batteries. <i>Materials Research Bulletin</i> , 2013, 48, 1732-1736.	2.7	21
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1209	A facile strategy to prepare nano-crystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ anode material via polyvinyl alcohol as carbon source for high-rate rechargeable Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 93, 173-178.	2.6	53
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1221	Carbon nanotube and graphene nanosheet co-modified LiFePO ₄ nanoplate composite cathode material by a facile polyol process. <i>Applied Surface Science</i> , 2013, 283, 999-1005.	3.1	47
1222	Integrated Solid/Nanoporous Copper/Oxide Hybrid Bulk Electrodes for High-performance Lithium-Ion Batteries. <i>Scientific Reports</i> , 2013, 3, 2878.	1.6	53
1223	Hoop-Strong Nanotubes for Battery Electrodes. <i>ACS Nano</i> , 2013, 7, 8295-8302.	7.3	52
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1239	Porous CoO/C polyhedra as anode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 108, 506-511.	2.6	51
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1251	A new, high performance CuO/LiNi _{0.5} Mn _{1.5} O ₄ lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15329.	5.2	45
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1354	Interweaving of multilevel carbon networks with mesoporous TiO_2 for lithium-ion battery anodes. RSC Advances, 2013, 3, 24882.	1.7	1
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1356	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. Journal of Materials Chemistry A, 2013, 1, 6183.	5.2	20
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1358	High-voltage aqueous battery approaching 3 V using an acidic-alkaline double electrolyte. Chemical Communications, 2013, 49, 2204.	2.2	67
1359	Facile synthesis of novel Si nanoparticles-graphene composites as high-performance anode materials for Li-ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 11394.	1.3	54
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1362	Hierarchical porous carbon spheres as an anode material for lithium ion batteries. RSC Advances, 2013, 3, 10823.	1.7	36
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1366	Novel processing of lithium manganese silicate nanomaterials for Li-ion battery applications. <i>RSC Advances</i> , 2013, 3, 608-615.	1.7	41
1367	Morphology-controlled synthesis of SnO ₂ /C hollow core-shell nanoparticle aggregates with improved lithium storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3652.	5.2	65
1368	Significantly improved high-rate Li-ion batteries anode by encapsulating tin dioxide nanocrystals into mesotunnels. <i>CrystEngComm</i> , 2013, 15, 8537.	1.3	21
1369	N-doped carbon encapsulation of ultrafine silicon nanocrystallites for high performance lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13625.	5.2	30
1370	Initial stages of thermal decomposition of LiPF ₆ -based lithium ion battery electrolytes by detailed Raman and NMR spectroscopy. <i>RSC Advances</i> , 2013, 3, 16359.	1.7	117
1371	Fabrication and Characterization of an Effective Polymer Nanocomposite Electrolyte Membrane for High Performance Lithium/Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1052-A1060.	1.3	37
1372	Highly improved rechargeable stability for lithium/silver vanadium oxide battery induced via electrospinning technique. <i>Journal of Materials Chemistry A</i> , 2013, 1, 852-859.	5.2	62
1373	Highly reversible Li/dissolved polysulfide batteries with binder-free carbon nanofiber electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10362.	5.2	135
1374	Lithium intercalation behaviors in Ge and Sn crystalline surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13586.	1.3	13
1375	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. <i>Chemical Communications</i> , 2013, 49, 11370.	2.2	89
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1378	Li _{0.3} V ₂ O ₅ with high lithium diffusion rate: a promising anode material for aqueous lithium-ion batteries with superior rate performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5423.	5.2	45
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1381	Direct synthesis of carbon-coated Li ₄ Ti ₅ O ₁₂ mesoporous nanoparticles for high-rate lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 3088.	1.7	19

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1389	High capacity carbon anode for dry polymer lithium-ion batteries. Journal of Power Sources, 2013, 225, 187-191.	4.0	7
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1391	Imprintable, Bendable, and Shape-Conformable Polymer Electrolytes for Versatile Shaped Lithium-Ion Batteries. Advanced Materials, 2013, 25, 1395-1400.	11.1	183
1392	Composite of a nonwoven fabric with poly(vinylidene fluoride) as a gel membrane of high safety for lithium ion battery. Energy and Environmental Science, 2013, 6, 618-624.	15.6	326
1393	Reversible chemical delithiation/lithiation of LiFePO ₄ : towards a redox flow lithium-ion battery. Physical Chemistry Chemical Physics, 2013, 15, 1793-1797.	1.3	169
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1395	Improvement of the electrochemical performance of carbon-coated LiFePO ₄ modified with reduced graphene oxide. Journal of Materials Chemistry A, 2013, 1, 135-144.	5.2	104
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1398	Suppression of aluminum corrosion by using high concentration LiTFSI electrolyte. Journal of Power Sources, 2013, 231, 234-238.	4.0	208
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1403	Dual core-shell structured sulfur cathode composite synthesized by a one-pot route for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1716-1723.	5.2	197
1404	Li ion diffusivity and electrochemical properties of FePO ₄ nanoparticles acted directly as cathode materials in lithium ion rechargeable batteries. <i>Electrochimica Acta</i> , 2013, 88, 287-293.	2.6	67
1405	Network structures of fullerene-like carbon core/nano-crystalline silicon shell nanofibers as anode material for lithium-ion batteries. <i>Carbon</i> , 2013, 54, 29-35.	5.4	53
1406	Ternary sulfur/polyacrylonitrile/Mg _{0.6} Ni _{0.4} O composite cathodes for high performance lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 295-301.	5.2	213
1407	TiO ₂ nanotube arrays grafted with Fe ₂ O ₃ hollow nanorods as integrated electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 122-127.	5.2	130
1408	Power management for sub-mW energy harvester with adaptive hybrid energy storage. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1365-1379.	1.4	6
1409	The development and challenges of rechargeable non-aqueous lithium-air batteries. <i>International Journal of Smart and Nano Materials</i> , 2013, 4, 27-46.	2.0	30
1410	Enhanced electrochemical performance of FeS coated by Ag as anode for lithium-ion batteries. <i>Applied Surface Science</i> , 2013, 265, 114-119.	3.1	39
1411	Synthesis of Co ₃ O ₄ nano-octahedra enclosed by {111} facets and their excellent lithium storage properties as anode material of lithium ion batteries. <i>Nano Energy</i> , 2013, 2, 394-402.	8.2	131
1412	Novel multiphase electrode/electrolyte composites for next generation of flexible polymeric Li-ion cells. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 137-145.	1.5	16
1413	Different types of MnO ₂ recovered from spent LiMn ₂ O ₄ batteries and their application in electrochemical capacitors. <i>Journal of Materials Science</i> , 2013, 48, 2512-2519.	1.7	16
1414	Porous nanocrystalline TiO ₂ with high lithium-ion insertion performance. <i>Journal of Materials Science</i> , 2013, 48, 2733-2742.	1.7	17
1416	A Novel On-Line Mass Spectrometer Design for the Study of Multiple Charging Cycles of a Li-O ₂ Battery. <i>Journal of the Electrochemical Society</i> , 2013, 160, A471-A477.	1.3	148
1417	The Influence of the Cation on the Oxygen Reduction and Evolution Activities of Oxide Surfaces in Alkaline Electrolyte. <i>Electrocatalysis</i> , 2013, 4, 49-55.	1.5	113
1418	Progress and prospective of solid-state lithium batteries. <i>Acta Materialia</i> , 2013, 61, 759-770.	3.8	895

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1421	Li ₃ V ₂ (PO ₄) ₃ @C/graphene composite with improved cycling performance as cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 91, 108-113.	2.6	49
1422	Hierarchical MoS ₂ /Polyaniline Nanowires with Excellent Electrochemical Performance for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 1180-1184.	11.1	569
1423	Graphene nanosheet supported bifunctional catalyst for high cycle life Li-air batteries. <i>Journal of Power Sources</i> , 2013, 234, 8-15.	4.0	73
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1425	TiO ₂ (B) nanofiber bundles as a high performance anode for a Li-ion battery. <i>RSC Advances</i> , 2013, 3, 3352.	1.7	40
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1427	One-dimensional/two-dimensional hybridization for self-supported binder-free silicon-based lithium ion battery anodes. <i>Nanoscale</i> , 2013, 5, 1470.	2.8	80
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1431	On the importance of reducing the energetic and material demands of electrical energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 1083.	15.6	212
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1433	Influence of hierarchical architecture of layered titanate on electrochemical properties and Li-insertion performance. <i>Journal of Electroanalytical Chemistry</i> , 2013, 711, 53-59.	1.9	0
1434	Non-graphitic PPy-based carbon nanotubes anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 105, 462-467.	2.6	36
1435	Na ₂ V ₆ O ₁₆ ·0.14H ₂ O nanowires as a novel anode material for aqueous rechargeable lithium battery with good cycling performance. <i>Journal of Power Sources</i> , 2013, 227, 111-117.	4.0	83
1436	Electrochemical behavior of aluminum in Grignard reagents/THF electrolytic solutions for rechargeable magnesium batteries. <i>Electrochimica Acta</i> , 2013, 88, 790-797.	2.6	9
1437	Facile synthesis of hierarchical mesoporous Li ₄ Ti ₅ O ₁₂ microspheres in supercritical methanol. <i>Journal of Power Sources</i> , 2013, 244, 164-169.	4.0	42

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1439	Li ₄ Ti ₅ O ₁₂ /Reduced Graphene Oxide composite as a high rate capability material for lithium ion batteries. <i>Solid State Ionics</i> , 2013, 236, 30-36.	1.3	37
1440	Recent development of sulfide solid electrolytes and interfacial modification for all-solid-state rechargeable lithium batteries. <i>Journal of Asian Ceramic Societies</i> , 2013, 1, 17-25.	1.0	375
1441	Nano-sized Li ₄ Ti ₅ O ₁₂ anode material with excellent performance prepared by solid state reaction: The effect of precursor size and morphology. <i>Electrochimica Acta</i> , 2013, 112, 356-363.	2.6	41
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1443	Enhanced electrochemical performances of LiFePO ₄ /C by co-doping with magnesium and fluorine. <i>Electrochimica Acta</i> , 2013, 113, 156-163.	2.6	41
1444	Sulfur in hierarchically pore-structured carbon pillars as cathode material for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2013, 97, 238-243.	2.6	59
1445	Water-stable lithium anode with Li _{1.4} Al _{0.4} Ge _{1.6} (PO ₄) ₃ ·TiO ₂ sheet prepared by tape casting method for lithium-air batteries. <i>Journal of Power Sources</i> , 2013, 235, 117-121.	4.0	56
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1447	Hydrothermal fabrication of lead hydroxide chloride as a novel anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 102, 381-387.	2.6	21
1448	Li-doped mixtures of alkoxy-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)-imide and organic carbonates as safe liquid electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2013, 237, 204-209.	4.0	48
1449	Superior lithium storage properties of γ -Fe ₂ O ₃ nano-assembled spindles. <i>Nano Energy</i> , 2013, 2, 890-896.	8.2	133
1450	Hydrothermal self-assembly of hierarchical flower-like ZnO nanospheres with nanosheets and their application in Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 577, 663-668.	2.8	86
1451	Enhanced cycling stability and thermal stability of YPO ₄ -coated LiMn ₂ O ₄ cathode materials for lithium ion batteries. <i>Solid State Ionics</i> , 2013, 247-248, 22-29.	1.3	37
1452	Synthesis and performance of Li[(Ni _{1/3} Co _{1/3} Mn _{1/3}) _{1-x} Mg _x]O ₂ prepared from spent lithium ion batteries. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 163-172.	6.5	171
1453	Time resolved current spectra (TRCS) and dielectric properties of 50Li ₂ O·50B ₂ O ₃ ·xCu ₂ O glass system. <i>Journal of Non-Crystalline Solids</i> , 2013, 379, 60-66.	1.5	2
1454	The electrochemical properties of high-capacity sulfur/reduced graphene oxide with different electrolyte systems. <i>Journal of Power Sources</i> , 2013, 244, 240-245.	4.0	32
1455	Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. <i>Journal of Power Sources</i> , 2013, 241, 249-254.	4.0	25

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1457	Structure control and performance improvement of carbon nanofibers containing a dispersion of silicon nanoparticles for energy storage. <i>Carbon</i> , 2013, 51, 185-194.	5.4	88
1458	On the use of lithium vanadium phosphate in high power devices. <i>Journal of Power Sources</i> , 2013, 235, 265-273.	4.0	45
1459	Influence of morphologies and pseudocapacitive contributions for charge storage in V ₂ O ₅ micro/nano-structures. <i>Electrochimica Acta</i> , 2013, 111, 762-770.	2.6	96
1460	The electrochemical performance of pitch coke anodes containing hollow carbon nanostructures and nickel nanoparticles for high-power lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 112, 394-402.	2.6	13
1461	Facile synthesis of high surface area hedgehog-like CuO microspheres with improved lithium storage properties. <i>Materials Chemistry and Physics</i> , 2013, 138, 593-600.	2.0	30
1462	Scalable Functionalized Graphene Nano-platelets as Tunable Cathodes for High-performance Lithium Rechargeable Batteries. <i>Scientific Reports</i> , 2013, 3, 1506.	1.6	84
1463	Muon-spin relaxation study on Li- and Na-diffusion in solids. <i>Physica Scripta</i> , 2013, 88, 068509.	1.2	69
1464	Electrochemical properties of ultrasonically prepared Ni(OH) ₂ nanosheets in lithium cells. <i>Journal of Power Sources</i> , 2013, 238, 366-371.	4.0	21
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1466	Anode behavior of Sn/WC/graphene triple layered composite for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 108, 674-679.	2.6	24
1467	On-board state of health monitoring of lithium-ion batteries using incremental capacity analysis with support vector regression. <i>Journal of Power Sources</i> , 2013, 235, 36-44.	4.0	405
1468	In-situ observation of one silicon particle during the first charging. <i>Journal of Power Sources</i> , 2013, 243, 630-634.	4.0	36
1469	Facile preparation of Li ₄ Ti ₅ O ₁₂ /AB/MWCNTs composite with high-rate performance for lithium ion battery. <i>Electrochimica Acta</i> , 2013, 94, 294-299.	2.6	25
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1471	Decorated carbon nanotubes by silicon deposition in fluidized bed for Li-ion battery anodes. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2491-2496.	2.7	9
1472	Three-dimensional network current collectors supported Si nanowires for lithium-ion battery applications. <i>Electrochimica Acta</i> , 2013, 88, 766-771.	2.6	44
1473	Carbon meringues derived from flavonoid tannins. <i>Carbon</i> , 2013, 65, 214-227.	5.4	38

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1475	Diamond foam electrodes for electrochemical applications. <i>Electrochemistry Communications</i> , 2013, 33, 88-91.	2.3	57
1476	Mesoporous, Si/C composite anode for Li battery obtained by Mg -thermal reduction process. <i>Solid State Ionics</i> , 2013, 232, 24-28.	1.3	34
1477	Fast screening of solid electrolytes: A high throughput solid state NMR probe. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 49-50, 23-25.	1.5	5
1478	Ultrathin atomic layer deposited ZrO_2 coating to enhance the electrochemical performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ as an anode material. <i>Electrochimica Acta</i> , 2013, 93, 195-201.	2.6	99
1479	Continuous synthesis of lithium iron phosphate (LiFePO_4) nanoparticles in supercritical water: Effect of mixing tee. <i>Journal of Supercritical Fluids</i> , 2013, 73, 70-79.	1.6	43
1480	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. <i>Electrochimica Acta</i> , 2013, 102, 246-251.	2.6	60
1481	Tween40 surfactant effect on the formation of nano-sized LiFePO_4/C powder via a solid state reaction and their cathode properties. <i>Solid State Ionics</i> , 2013, 249-250, 158-164.	1.3	13
1482	Lithium conducting solid electrolyte $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ obtained via solution chemistry. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1145-1153.	2.8	135
1483	Effects of precursor treatment on the structure and electrochemical properties of spinel LiMn_2O_4 cathode. <i>Journal of Alloys and Compounds</i> , 2013, 566, 16-21.	2.8	20
1484	One step sol-gel synthesis of $\text{Li}_2\text{ZnTi}_3\text{O}_8/\text{C}$ nanocomposite with enhanced lithium-ion storage properties. <i>Electrochimica Acta</i> , 2013, 88, 74-78.	2.6	87
1485	Effects of fluorine substitution on the electrochemical performance of layered Li-excess nickel manganese oxides cathode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 113, 407-411.	2.6	27
1486	Nanocomposites of silicon and carbon derived from coal tar pitch: Cheap anode materials for lithium-ion batteries with long cycle life and enhanced capacity. <i>Electrochimica Acta</i> , 2013, 93, 213-221.	2.6	93
1487	Synthesis and electrochemical performance of high-rate dual-phase $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{TiO}_2$ nanocrystallines for Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 87, 218-223.	2.6	57
1488	Lithium-ion battery performance of layered $0.3\text{Li}_2\text{MnO}_3/0.7\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ composite cathode prepared by co-precipitation and sol-gel methods. <i>Materials Letters</i> , 2013, 104, 57-60.	1.3	27
1489	Holographically patterned soft matter: light directed mesoscale phase separation. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 63-70.	3.8	6
1490	Synthesis and electrochemical performance of layered lithium-sodium manganese oxide as a cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 238, 372-375.	4.0	5
1491	Electro-optical properties of the DNA- Eu^{3+} bio-membranes. <i>Journal of Electroanalytical Chemistry</i> , 2013, 708, 116-123.	1.9	15

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1493	Fe_2O_3 and Fe_3O_4 hollow nanospheres as high-capacity anode materials for rechargeable Li-ion batteries. <i>Ionics</i> , 2013, 19, 25-31.	1.2	19
1494	A carbothermal reduction method for enhancing the electrochemical performance of LiFePO_4/C composite cathode materials. <i>Ionics</i> , 2013, 19, 235-243.	1.2	8
1495	Organic polymer material with a multi-electron process redox reaction: towards ultra-high reversible lithium storage capacity. <i>RSC Advances</i> , 2013, 3, 3227.	1.7	35
1496	Phase stability, electrochemical stability and ionic conductivity of the $\text{Li}_{10\pm 1}\text{MP}_2\text{X}_{12}$ (M = Ge, Si, Sn, Al or P, and X = O, S or Se) family of superionic conductors. <i>Energy and Environmental Science</i> , 2013, 6, 148-156.	15.6	545
1497	A new class of Solvent-in-Salt electrolyte for high-energy rechargeable metallic lithium batteries. <i>Nature Communications</i> , 2013, 4, 1481.	5.8	1,917
1498	Coralline Glassy Lithium Phosphate-Coated LiFePO_4 Cathodes with Improved Power Capability for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6013-6021.	1.5	66
1499	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ prepared by a modified citric acid sol-gel method for lithium-ion battery. <i>Journal of Power Sources</i> , 2013, 236, 118-125.	4.0	77
1500	Self-assembly of hybrid $\text{Fe}_2\text{Mo}_3\text{O}_8$ -reduced graphene oxide nanosheets with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4468.	5.2	40
1501	Manganese-Based Layered Coordination Polymer: Synthesis, Structural Characterization, Magnetic Property, and Electrochemical Performance in Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2013, 52, 2817-2822.	1.9	188
1502	Cycling profile of innovative nanochitin-incorporated poly (ethylene oxide) based electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2013, 228, 294-299.	4.0	49
1503	Lactam derivatives as solid electrolyte interphase forming additives for a graphite anode of lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 244, 711-715.	4.0	16
1504	Preparation of 3D flower-like NiO hierarchical architectures and their electrochemical properties in lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 90, 80-89.	2.6	90
1505	Electrochemical performance of carbide-derived carbon anodes for lithium-ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1045-1055.	1.9	22
1506	A Fe_2O_3 nanoparticle/carbon aerogel composite for use as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 97, 271-277.	2.6	68
1507	Binder-free Fe_2O_3 nanobelt electrode for lithium-ion batteries utilizing van der Waals forces for film formation and connection with current collector. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4736.	5.2	142
1508	A hybrid electrolyte energy storage device with high energy and long life using lithium anode and MnO_2 nanoflake cathode. <i>Electrochemistry Communications</i> , 2013, 31, 35-38.	2.3	24
1509	Critical aspects in the development of lithium-air batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1793-1807.	1.2	71

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1511	The preparation of uniform SnO ₂ nanotubes with a mesoporous shell for lithium storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2995.	5.2	67
1512	Defect effects on the physical and electrochemical properties of nanoscale LiFe _{0.92} PO ₄ and LiFe _{0.92} PO ₄ /C/graphene composites. <i>Nanoscale</i> , 2013, 5, 3704.	2.8	22
1513	A sodium manganese ferrocyanide thin film for Na-ion batteries. <i>Chemical Communications</i> , 2013, 49, 2750.	2.2	162
1514	Strongly Coupled Inorganic/Nanocarbon Hybrid Materials for Advanced Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 2013-2036.	6.6	856
1515	Cyclic plasticity and shakedown in high-capacity electrodes of lithium-ion batteries. <i>International Journal of Solids and Structures</i> , 2013, 50, 1120-1129.	1.3	73
1516	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. <i>Electrochemistry Communications</i> , 2013, 27, 26-28.	2.3	39
1518	Conformal Fe ₃ O ₄ Sheath on Aligned Carbon Nanotube Scaffolds as High-Performance Anodes for Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 818-823.	4.5	289
1519	Synthesis and electrochemical properties of MoO ₃ /C nanocomposite. <i>Electrochimica Acta</i> , 2013, 93, 101-106.	2.6	42
1520	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. <i>Nanoscale</i> , 2013, 5, 3457.	2.8	154
1521	Synergistic Catalysis over Bimetallic Alloy Nanoparticles. <i>ChemCatChem</i> , 2013, 5, 652-676.	1.8	560
1522	In Situ Synthesis of Porous Fe ₃ O ₄ /C Microbelts and Their Enhanced Electrochemical Performance for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1698-1703.	4.0	72
1523	A facile PVP-assisted hydrothermal fabrication of Fe ₂ O ₃ /Graphene composite as high performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 560, 208-214.	2.8	70
1524	Nanowormlike Li ₂ FeSiO ₄ Composites as Lithium-Ion Battery Cathodes with Superior High-Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2510-2516.	4.0	34
1525	Solid solution studies of layered honeycomb-ordered phases O ₃ Na ₃ M ₂ SbO ₆ (M=Cu, Mg, Ni, Zn). <i>Journal of Solid State Chemistry</i> , 2013, 201, 178-185.	1.4	57
1526	Electrochemical investigation of carbonate-based electrolytes for high voltage lithium-ion cells. <i>Journal of Power Sources</i> , 2013, 236, 175-180.	4.0	68
1527	Strongly coupled inorganic nano-carbon hybrid materials for energy storage. <i>Chemical Society Reviews</i> , 2013, 42, 3088.	18.7	795
1528	LiFePO ₄ graphene as a superior cathode material for rechargeable lithium batteries: impact of stacked graphene and unfolded graphene. <i>Energy and Environmental Science</i> , 2013, 6, 1521.	15.6	199

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1530	Effective enhancement of electrochemical properties for LiFePO ₄ /C cathode materials by Na and Ti co-doping. <i>Electrochimica Acta</i> , 2013, 89, 479-487.	2.6	90
1531	Lithium/sulfur batteries with high specific energy: old challenges and new opportunities. <i>Nanoscale</i> , 2013, 5, 2186.	2.8	480
1532	SnO ₂ -Based Nanomaterials: Synthesis and Application in Lithium Ion Batteries. <i>Small</i> , 2013, 9, 1877-1893.	5.2	729
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1534	A novel method to recycle mixed cathode materials for lithium ion batteries. <i>Green Chemistry</i> , 2013, 15, 1183.	4.6	321
1535	Bi-Functional Water/Oxygen Electrocatalyst Based on PdO-RuO ₂ Composites. <i>Journal of the Electrochemical Society</i> , 2013, 160, H74-H79.	1.3	19
1536	A facile route to synthesize multiporous MnCo ₂ O ₄ and CoMn ₂ O ₄ spinel quasi-hollow spheres with improved lithium storage properties. <i>Nanoscale</i> , 2013, 5, 2045.	2.8	445
1537	Carbon-coated LiFePO ₄ porous carbon composites as cathode materials for lithium ion batteries. <i>Nanoscale</i> , 2013, 5, 2164.	2.8	70
1538	Nanoporous silicon networks as anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 440-443.	1.3	65
1539	Electrical power generation by mechanically modulating electrical double layers. <i>Nature Communications</i> , 2013, 4, 1487.	5.8	176
1540	Exploring polymeric lithium tartaric acid borate for thermally resistant polymer electrolyte of lithium batteries. <i>Electrochimica Acta</i> , 2013, 92, 132-138.	2.6	81
1541	Pt-Al ₂ O ₃ dual layer atomic layer deposition coating in high aspect ratio nanopores. <i>Nanotechnology</i> , 2013, 24, 015602.	1.3	42
1542	Graphene-Bonded and Encapsulated Si Nanoparticles for Lithium Ion Battery Anodes. <i>Small</i> , 2013, 9, 2810-2816.	5.2	183
1543	Functional mesoporous materials for energy applications: solar cells, fuel cells, and batteries. <i>Nanoscale</i> , 2013, 5, 4584.	2.8	114
1544	The Road for Nanomaterials Industry: A Review of Carbon Nanotube Production, Post-Treatment, and Bulk Applications for Composites and Energy Storage. <i>Small</i> , 2013, 9, 1237-1265.	5.2	617
1545	Mesoporous LiFePO ₄ microspheres for rechargeable lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 98, 288-293.	2.6	32
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1548	Microwave rapid preparation of LiNi _{0.5} Mn _{1.5} O ₄ and the improved high rate performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 100, 125-132.	2.6	55
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1552	Silicon nanowires for advanced energy conversion and storage. <i>Nano Today</i> , 2013, 8, 75-97.	6.2	266
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1554	CF _x Derived Carbon-Fe ₂ Nanocomposites for Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013, 3, 308-313.	10.2	76
1555	Nanotechnology for More Sustainable Manufacturing: Opportunities and Risks. <i>ACS Symposium Series</i> , 2013, , 91-105.	0.5	2
1556	Monodisperse Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ microspheres with enhanced lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5301.	5.2	66
1557	A layer-structured Na ₂ CoP ₂ O ₇ pyrophosphate cathode for sodium-ion batteries. <i>RSC Advances</i> , 2013, 3, 3857.	1.7	104
1558	Using waste Li ion batteries as cathodes in rechargeable Li-liquid batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7036.	1.3	9
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1560	Super-Aligned Carbon Nanotube Films as Current Collectors for Lightweight and Flexible Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 846-853.	7.8	258
1561	Mussel-Inspired Adhesive Binders for High-Performance Silicon Nanoparticle Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 1571-1576.	11.1	532
1562	Nanostructured sulfur cathodes. <i>Chemical Society Reviews</i> , 2013, 42, 3018.	18.7	1,778
1563	Efficiency Limit of Molecular Solar Thermal Energy Collecting Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 585-590.	3.2	90
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1567	Fuel Cell Comparison to Alternate Technologies. , 2013, , 77-95.		1
1568	Adsorption and Diffusion of Lithium on Layered Silicon for Li-Ion Storage. <i>Nano Letters</i> , 2013, 13, 2258-2263.	4.5	377
1569	Lithium Atom and A-Site Vacancy Distributions in Lanthanum Lithium Titanate. <i>Chemistry of Materials</i> , 2013, 25, 1607-1614.	3.2	97
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1574	Interface Chemistry Engineering for Stable Cycling of Reduced GO/SnO ₂ Nanocomposites for Lithium Ion Battery. <i>Nano Letters</i> , 2013, 13, 1711-1716.	4.5	278
1575	Influence of Al ³⁺ ions on the morphology and structure of layered LiMn _{1-x} Al _x O ₂ cathode materials for the lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2013, 569, 67-75.	2.8	9
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1577	Interface phenomena between Li anode and lithium phosphate electrolyte for Li-ion battery. <i>Journal of Power Sources</i> , 2013, 244, 136-142.	4.0	25
1578	Thermodynamics of Electrochemical Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4998-5026.	7.2	181
1579	Mesoporous CoFe ₂ O ₄ nanospheres cross-linked by carbon nanotubes as high-performance anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7444.	5.2	118
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1581	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4293-4305.	7.8	96
1582	Octahedral Co ₃ O ₄ particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5582.	1.3	49
1583	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. <i>Nanoscale</i> , 2013, 5, 6053.	2.8	271

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1585	Chelating ionic liquids for reversible zinc electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7191.	1.3	76
1586	High-performance energy-storage devices based on WO_3 nanowire arrays/carbon cloth integrated electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7167.	5.2	203
1587	Metal Oxides and Oxysalts as Anode Materials for Li Ion Batteries. <i>Chemical Reviews</i> , 2013, 113, 5364-5457.	23.0	2,670
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1590	Mild and cost-effective synthesis of iron fluoride-graphene nanocomposites for high-rate Li-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1969-1975.	5.2	87
1591	Pyrolyzed Bacterial Cellulose: A Versatile Support for Lithium Ion Battery Anode Materials. <i>Small</i> , 2013, 9, 2399-2404.	5.2	158
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1593	Screen-Printable Thin Film Supercapacitor Device Utilizing Graphene/Polyaniline Inks. <i>Advanced Energy Materials</i> , 2013, 3, 1035-1040.	10.2	228
1594	Surface phase composition of nanosized LiFePO_4 and their enhanced electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6635.	5.2	15
1595	Synthesis of Monoclinic $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ Nanoparticles by a Layered-Template Route for High-Performance Li-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2887-2892.	1.0	19
1596	Facile Synthesis of Free-Standing Silicon Membranes with Three-Dimensional Nanoarchitecture for Anodes of Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 3340-3346.	4.5	69
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1598	Contact-Engineered and Void-Involved Silicon/Carbon Nanohybrids as Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2013, 25, 3560-3565.	11.1	227
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1600	In Situ TEM of Two-Phase Lithiation of Amorphous Silicon Nanospheres. <i>Nano Letters</i> , 2013, 13, 758-764.	4.5	680
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1603	Highly robust silicon nanowire/graphene core-shell electrodes without polymeric binders. <i>Nanoscale</i> , 2013, 5, 8986.	2.8	33
1604	Synthesis and characterization of highly conductive plasticized double core organic-inorganic hybrid electrolytes for lithium polymer batteries. <i>Journal of Power Sources</i> , 2013, 238, 265-273.	4.0	8
1605	Hierarchical $\text{Fe}_2\text{O}_3@\text{Co}_3\text{O}_4$ nanowire array anode for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 240, 344-350.	4.0	91
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1607	Crab Shells as Sustainable Templates from Nature for Nanostructured Battery Electrodes. <i>Nano Letters</i> , 2013, 13, 3385-3390.	4.5	208
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1609	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6080.	1.3	167
1610	In-depth safety-focused analysis of solvents used in electrolytes for large scale lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9145.	1.3	173
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1612	A new single-ion polymer electrolyte based on polyvinyl alcohol for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 87, 113-118.	2.6	194
1613	A Self-Standing and Flexible Electrode of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanosheets with a N-Doped Carbon Coating for High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 5429-5435.	7.8	128
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1616	A hierarchical porous electrode using a micron-sized honeycomb-like carbon material for high capacity lithium-oxygen batteries. <i>Nanoscale</i> , 2013, 5, 4647.	2.8	63
1617	Sucrose-Assisted Loading of LiFePO_4 Nanoparticles on Graphene for High-Performance Lithium-Ion Battery Cathodes. <i>Chemistry - A European Journal</i> , 2013, 19, 5631-5636.	1.7	45
1618	Carbon Nanostructures in Lithium Ion Batteries: Past, Present, and Future. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2013, 38, 128-166.	6.8	66
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1621	Superior Electrochemical Performance and Storage Mechanism of Na ₃ V ₂ (PO ₄) ₃ Cathode for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 156-160.	10.2	817
1622	Synthesis and electrochemical properties of high performance yolk-structured LiMn ₂ O ₄ microspheres for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 860-867.	5.2	32
1623	A novel nano-sulfur/polypyrrole/graphene nanocomposite cathode with a dual-layered structure for lithium rechargeable batteries. <i>Journal of Power Sources</i> , 2013, 241, 517-521.	4.0	105
1624	Superior lithium storage performance in nanoscaled MnO promoted by N-doped carbon webs. <i>Nano Energy</i> , 2013, 2, 412-418.	8.2	145
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1626	Significantly Improved Long-Cycle Stability in High-Rate Li-S Batteries Enabled by Coaxial Graphene Wrapping over Sulfur-Coated Carbon Nanofibers. <i>Nano Letters</i> , 2013, 13, 2485-2489.	4.5	314
1627	A hierarchical hybrid design for high performance tin based Li-ion battery anodes. <i>Nanotechnology</i> , 2013, 24, 205401.	1.3	13
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1629	Organic Rechargeable Batteries with Tailored Voltage and Cycle Performance. <i>ChemSusChem</i> , 2013, 6, 794-797.	3.6	65
1630	Lithium Superionic Sulfide Cathode for All-Solid Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2013, 7, 2829-2833.	7.3	333
1631	A novel polyquinone cathode material for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2013, 233, 23-27.	4.0	84
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1633	Fluorinated electrolytes for 5 V lithium-ion battery chemistry. <i>Energy and Environmental Science</i> , 2013, 6, 1806.	15.6	462
1634	In Situ Electrochemical XAFS Studies on an Iron Fluoride High-Capacity Cathode Material for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11498-11505.	1.5	51
1635	Properties of solid electrolyte interphase formed by prop-1-ene-1,3-sultone on graphite anode of Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 105, 1-6.	2.6	95
1636	Carbon coated Fe ₃ O ₄ hybrid material prepared by chemical vapor deposition for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 106, 235-243.	2.6	49
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1639	Enhanced Photocatalytic Oxygen Evolution by Crystal Cutting. <i>Advanced Materials</i> , 2013, 25, 2035-2039.	11.1	49
1640	Synthesis of γ -Fe ₂ O ₃ nanoparticles from Fe(OH) ₃ sol and their composite with reduced graphene oxide for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7154.	5.2	55
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1652	3D Printing of Interdigitated Li-Ion Microbattery Architectures. <i>Advanced Materials</i> , 2013, 25, 4539-4543.	11.1	1,074
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1658	High Capacity Microporous Molybdenum Vanadium Oxide Electrodes for Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2013, 25, 2708-2715.	3.2	33
1659	Synthesis of hollow GeO ₂ nanostructures, transformation into Ge@C, and lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7666.	5.2	66
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1661	Ultra-small Fe ₃ O ₄ nanoparticle decorated graphene nanosheets with superior cyclic performance and rate capability. <i>Nanoscale</i> , 2013, 5, 6797.	2.8	73
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1670	Electrochemical properties of ether-based electrolytes for lithium/sulfur rechargeable batteries. <i>Electrochimica Acta</i> , 2013, 89, 737-743.	2.6	123
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1842	Direct Visualization of Solid Electrolyte Interphase Formation in Lithium-Ion Batteries with <i>In Situ</i> Electrochemical Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1029-1037.	0.2	83
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1857	Morphology and Electrical Conductivity of Carbon Nanocoatings Prepared from Pyrolysed Polymers. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	1.5	7
1858	Self-discharge Reactions in Energy Storage Devices Based on Polypyrrole-cellulose Composite Electrodes. <i>Green</i> , 2014, 4, .	0.4	9
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1860	Boric Ester-Type Molten Salt via Dehydrocoupling Reaction. <i>International Journal of Molecular Sciences</i> , 2014, 15, 21080-21089.	1.8	1
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1883	Carbon-coated rhombohedral Li ₃ V ₂ (PO ₄) ₃ as both cathode and anode materials for lithium-ion batteries: electrochemical performance and lithium storage mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20231-20236.	5.2	44

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1890	Activation Barriers Provide Insight into the Mechanism of Self-Discharge in Polypyrrole. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29643-29649.	1.5	17
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1893	Improving battery safety by early detection of internal shorting with a bifunctional separator. <i>Nature Communications</i> , 2014, 5, 5193.	5.8	301
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1898	Synthesis of amorphous ZnSnO ₃ -C hollow microcubes as advanced anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 141, 374-383.	2.6	76
1899	Insights into capacity loss mechanisms of all-solid-state Li-ion batteries with Al anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20552-20559.	5.2	39
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1909	General Scalable Strategy toward Heterogeneously Doped Hierarchical Porous Graphitic Carbon Bubbles for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2014, 6, 21661-21668.	4.0	48
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1932	Lithium and sodium diffusion in solid electrolyte materials of $\text{Li}_2\text{PO}_4\text{PO}_4\text{PO}_4$ ($\text{A} = \text{Li, Na}$), <i>Tj ETQq</i> 0.0 0 rgBT/D Overlock	0.0	0
1933	Li-rich layer-structured cathode materials for high energy Li-ion batteries. <i>Functional Materials Letters</i> , 2014, 07, 1430002.	0.7	30
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1937	Electrochemical, structural, and electronic properties of Mn-Co hexacyanoferrates against Li concentration. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 067101.	0.8	10
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1941	Electrochemical lithium storage performance of Si/C based anode materials prepared by mechanical alloying. <i>Materials Research Innovations</i> , 2014, 18, S4-10-S4-14.	1.0	2
1942	Integrated Product and Process Model for Production System Design and Quality Assurance for EV Battery Cells. <i>Advanced Materials Research</i> , 0, 907, 365-378.	0.3	7
1943	Preparation and Characterization of Al ₂ O ₃ /PVDF-HFP Based Polymer Electrolyte. <i>Advanced Materials Research</i> , 0, 950, 33-37.	0.3	2
1944	Synthesis of porous microspheres composed of graphitized carbon@amorphous silicon/carbon layers as high performance anode materials for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 55010-55015.	1.7	6
1945	Origin of Surface Coating Effect for MgO on LiCoO ₂ to Improve the Interfacial Reaction between Electrode and Electrolyte. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400195.	1.9	56
1946	Electrochemical Double Layer Capacitors and Hybrid Devices for Green Energy Applications. <i>Green</i> , 2014, 4, .	0.4	5
1947	Model-Based SEI Layer Growth and Capacity Fade Analysis for EV and PHEV Batteries and Drive Cycles. <i>Journal of the Electrochemical Society</i> , 2014, 161, A2099-A2108.	1.3	57
1948	Progress of Research on Li-Rich Cathode Materials xLi ₂ MnO ₃ ·(1-x)LiMO ₂ (M=Ni, Co, Mn...) for Li-Ion Battery. <i>Advanced Materials Research</i> , 2014, 1070-1072, 543-548.	0.3	0
1949	Li _{3.9} Cu _{0.1} Ti ₅ O ₁₂ /CNTs composite for the anode of high-power lithium-ion batteries: Intrinsic and extrinsic effects. <i>Electrochimica Acta</i> , 2014, 143, 29-35.	2.6	17
1950	Facile synthesis of scalable pore-containing silicon/nitrogen-rich carbon composites from waste contact mass of organosilane industry as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20213-20220.	5.2	38
1951	A coordinatively cross-linked polymeric network as a functional binder for high-performance silicon submicro-particle anodes in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19036-19045.	5.2	139
1952	Electrical Conductivity Properties of Nd ₂ O ₃ ; Doped LiCl-PbO-ZnO Glass Ceramics. <i>Advanced Materials Research</i> , 0, 938, 108-113.	0.3	0
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1955	Deterioration Analysis in Cycling Test at High Temperature of 60°C for Li-Ion Cells Using SiO Anode. <i>Journal of the Electrochemical Society</i> , 2014, 161, A708-A711.	1.3	6
1956	Novel lithium and sodium salts of sulfonamides and bis(sulfonyl)imides: synthesis and electrical conductivity. <i>New Journal of Chemistry</i> , 2014, 38, 6193-6197.	1.4	10
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1959	Realization of an Artificial Three-Phase Reaction Zone in a Li-Air Battery. <i>ChemElectroChem</i> , 2014, 1, 90-94.	1.7	60
1960	Silicon-Based Nanomaterials for Lithium-Ion Batteries: A Review. <i>Advanced Energy Materials</i> , 2014, 4, 1300882.	10.2	1,250
1961	Ionic shield for polysulfides towards highly-stable lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2014, 7, 347-353.	15.6	624
1962	Magnesium-air batteries: from principle to application. <i>Materials Horizons</i> , 2014, 1, 196-206.	6.4	371
1963	Towards more sustainable negative electrodes in Na-ion batteries via nanostructured iron oxide. <i>Journal of Power Sources</i> , 2014, 245, 967-978.	4.0	168
1964	Scalable synthesis of Fe ₃ O ₄ /C composites with enhanced electrochemical performance as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 582, 563-568.	2.8	31
1965	A comparative study of different binders and their effects on electrochemical properties of LiMn ₂ O ₄ cathode in lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 247, 1-8.	4.0	178
1966	The design of a Li-ion full cell battery using a nano silicon and nano multi-layer graphene composite anode. <i>Journal of Power Sources</i> , 2014, 249, 118-124.	4.0	110
1967	Composite protective layer for Li metal anode in high-performance lithium-oxygen batteries. <i>Electrochemistry Communications</i> , 2014, 40, 45-48.	2.3	120
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1969	Cathodes with intrinsic redox overcharge protection: A new strategy towards safer Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 264, 155-160.	4.0	12
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1971	Preparation and electrochemical performance of La ³⁺ and F ⁻ co-doped Li ₄ Ti ₅ O ₁₂ anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 263, 296-303.	4.0	78
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1973	Electrochemical Performance of GeO ₂ /C Core Shell based Electrodes for Li-ion Batteries. <i>Electrochimica Acta</i> , 2014, 116, 203-209.	2.6	26
1974	Electrospun silicon/carbon/titanium oxide composite nanofibers for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 258, 39-45.	4.0	47
1975	Hollow Zn ₂ SnO ₄ boxes wrapped with flexible graphene as anode materials for lithium batteries. <i>Electrochimica Acta</i> , 2014, 120, 128-132.	2.6	38

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1977	Ni/amorphous CuO core-shell nanocapsules with enhanced electrochemical performances. <i>Journal of Power Sources</i> , 2014, 245, 256-261.	4.0	25
1978	Si Nano-crystallites embedded in Cu-Al-Fe matrix as an anode for Li secondary batteries. <i>Electrochimica Acta</i> , 2014, 130, 583-586.	2.6	23
1979	Encapsulated within graphene shell silicon nanoparticles anchored on vertically aligned graphene trees as lithium ion battery anodes. <i>Nano Energy</i> , 2014, 5, 105-115.	8.2	109
1980	Hydrothermal synthesis and potential applicability of rhombohedral siderite as a high-capacity anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 253, 251-255.	4.0	49
1981	In-situ X-ray diffraction study on the structural evolutions of oxidized fluorophosphates as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 9107-9120.	2.3	5
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1983	Screening study of light-metal and transition-metal-doped NiTiH hydrides as Li-ion battery anode materials. <i>Solid State Ionics</i> , 2014, 258, 88-91.	1.3	9
1984	Fe ₃ O ₄ /PPy composite nanospheres as anode for lithium-ion batteries with superior cycling performance. <i>Electrochimica Acta</i> , 2014, 121, 428-433.	2.6	64
1985	Surface modification of LiV ₃ O ₈ nanosheets via layer-by-layer self-assembly for high-performance rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2014, 257, 319-324.	4.0	21
1986	Introduction of two lithiooxycarbonyl groups enhances cyclability of lithium batteries with organic cathode materials. <i>Journal of Power Sources</i> , 2014, 260, 211-217.	4.0	142
1987	Polythiophene Mesoporous Birnessite-MnO ₂ /Pd Cathode Air Electrode for Rechargeable Li-Air Battery. <i>Electrochimica Acta</i> , 2014, 127, 410-415.	2.6	27
1988	Hierarchically porous micro-rod lithium-rich cathode material Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 118, 67-74.	2.6	72
1989	Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. <i>Nano Energy</i> , 2014, 7, 104-113.	8.2	132
1990	Facile synthesis of graphene-silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. <i>Solid State Ionics</i> , 2014, 254, 65-71.	1.3	89
1991	A single-ion gel polymer electrolyte based on polymeric lithium tartaric acid borate and its superior battery performance. <i>Solid State Ionics</i> , 2014, 262, 747-753.	1.3	60
1992	Hierarchical assembly of graphene/polyaniline nanostructures to synthesize free-standing supercapacitor electrode. <i>Composites Science and Technology</i> , 2014, 98, 1-8.	3.8	346
1993	Spinel ZnCo ₂ O ₄ /N-doped carbon nanotube composite: A high active oxygen reduction reaction electrocatalyst. <i>Journal of Power Sources</i> , 2014, 257, 170-173.	4.0	69

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1995	SnO ₂ nanoparticles anchored on vertically aligned graphene with a high rate, high capacity, and long life for lithium storage. <i>Electrochimica Acta</i> , 2014, 130, 670-678.	2.6	37
1996	Facile Synthesis of Fe ₂ O ₃ Nanobelts/CNTs Composites as High-performance Anode for Lithium-ion Battery. <i>Electrochimica Acta</i> , 2014, 132, 533-537.	2.6	29
1997	Hybrid network CuS monolith cathode materials synthesized via facile in situ melt-diffusion for Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 257, 192-197.	4.0	76
1998	High rate Li ₄ Ti ₅ O ₁₂ •Fe ₂ O ₃ and Li ₄ Ti ₅ O ₁₂ •CuO composite anodes for advanced lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 603, 202-206.	2.8	30
1999	Effect of Ni doping on electrochemical performance of Li ₃ V ₂ (PO ₄) ₃ /C cathode material prepared by polyol process. <i>Ceramics International</i> , 2014, 40, 11251-11259.	2.3	28
2000	A closed loop process for recycling spent lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 262, 255-262.	4.0	350
2001	Coaxial electrospun Si/C•C core•shell composite nanofibers as binder-free anodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2014, 258, 67-73.	1.3	37
2002	Microstructural evolution induced by micro-cracking during fast lithiation of single-crystalline silicon. <i>Journal of Power Sources</i> , 2014, 265, 160-165.	4.0	38
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2004	Modeling of steady-state convective cooling of cylindrical Li-ion cells. <i>Journal of Power Sources</i> , 2014, 258, 374-381.	4.0	60
2005	Binder-free, self-standing films of iron oxide nanoparticles deposited on ionic liquid functionalized carbon nanotubes for lithium-ion battery anodes. <i>Materials Chemistry and Physics</i> , 2014, 144, 396-401.	2.0	19
2006	Ordered LiNi _{0.5} Mn _{1.5} O ₄ hollow microspheres as high-rate 5V cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 119, 206-213.	2.6	34
2007	A New Approach to Synthesis of Porous SiO _x Anode for Li-ion Batteries via Chemical Etching of Si Crystallites. <i>Electrochimica Acta</i> , 2014, 117, 426-430.	2.6	112
2008	Fe ₃ O ₄ Nanoparticles Embedded in Uniform Mesoporous Carbon Spheres for Superior High-Rate Battery Applications. <i>Advanced Functional Materials</i> , 2014, 24, 319-326.	7.8	165
2009	Three-dimensionally porous Fe ₃ O ₄ as high-performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 246, 198-203.	4.0	74
2010	Understanding the Degradation Mechanisms of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300787.	10.2	893
2011	Porous SiO ₂ as a separator to improve the electrochemical performance of spinel LiMn ₂ O ₄ cathode. <i>Journal of Membrane Science</i> , 2014, 449, 169-175.	4.1	52

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2014	Graphite Intercalation Compounds (GICs): A New Type of Promising Anode Material for Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300600.	10.2	78
2015	Hierarchical nanowires for high-performance electrochemical energy storage. <i>Frontiers of Physics</i> , 2014, 9, 303-322.	2.4	20
2016	A Composite Gel Polymer Electrolyte with High Performance Based on Poly(Vinylidene Fluoride) and Polyborate for Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300647.	10.2	243
2017	Conducting Polymer Nanowire Arrays for High Performance Supercapacitors. <i>Small</i> , 2014, 10, 14-31.	5.2	685
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2019	Graphene for advanced Li/S and Li/air batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 33-47.	5.2	166
2020	A novel design approach for lithium-sulphur batteries. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 317-326.	0.3	2
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2023	Effects of high-energy milling on the solid-state synthesis of pure nano-sized Li ₄ Ti ₅ O ₁₂ for high power lithium battery applications. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 925-930.	1.1	14
2024	Properties of Li ₄ Ti ₅ O ₁₂ as an anode material in non-flammable electrolytes. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 245-253.	1.5	7
2025	Stacked-cup-type MWCNTs as highly stable lithium-ion battery anodes. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 179-187.	1.5	15
2026	A review of high energy density lithium-air battery technology. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 5-22.	1.5	172
2027	Montmorillonite-based ceramic membranes as novel lithium-ion battery separators. <i>Ionics</i> , 2014, 20, 943-948.	1.2	25
2028	High performance three-dimensional Ge/cyclized-polyacrylonitrile thin film anodes prepared by RF magnetron sputtering for lithium ion batteries. <i>Journal of Materials Science</i> , 2014, 49, 2279-2285.	1.7	18
2029	Ethylene glycol stabilized NaBH ₄ reduction for preparation carbon-supported Pt-Co alloy nanoparticles used as oxygen reduction electrocatalysts for microbial fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1087-1097.	1.2	26

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2031	Nickel foam as interlayer to improve the performance of lithium-sulfur battery. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1025-1029.	1.2	111
2032	Ethylene sulfate as film formation additive to improve the compatibility of graphite electrode for lithium-ion battery. <i>Ionics</i> , 2014, 20, 795-801.	1.2	47
2033	MnO nanorods on graphene as an anode material for high capacity lithium ion batteries. <i>Journal of Materials Science</i> , 2014, 49, 1861-1867.	1.7	38
2034	A comparison of sulfur loading method on the electrochemical performance of porous carbon/sulfur cathode material for lithium-sulfur battery. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 935-940.	1.2	15
2035	Novel mesoporous silicon nanorod as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 127, 252-258.	2.6	95
2036	A Natural Carbonized Leaf as Polysulfide Diffusion Inhibitor for High-Performance Lithium-Sulfur Battery Cells. <i>ChemSusChem</i> , 2014, 7, 1655-1661.	3.6	129
2037	Nanoflakes-Assembled Three-Dimensional Hollow Porous V_2O_5 as Lithium Storage Cathodes with High-Rate Capacity. <i>Small</i> , 2014, 10, 3032-3037.	5.2	90
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2039	A Sandwich-Like Hierarchically Porous Carbon/Graphene Composite as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301584.	10.2	365
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2042	Influence of $Li_3V_2(PO_4)_3$ complexing on the performance of $LiMnPO_4$ based materials utilized in lithium ion battery. <i>Ceramics International</i> , 2014, 40, 7637-7641.	2.3	16
2043	Progress in flexible lithium batteries and future prospects. <i>Energy and Environmental Science</i> , 2014, 7, 1307-1338.	15.6	1,312
2044	Atomistic Origins of High Rate Capability and Capacity of N-Doped Graphene for Lithium Storage. <i>Nano Letters</i> , 2014, 14, 1164-1171.	4.5	304
2045	Graphene-Wrapped Mesoporous Cobalt Oxide Hollow Spheres Anode for High-Rate and Long-Life Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2263-2272.	1.5	119
2046	Graphene Networks Anchored with Sn@Graphene as Lithium Ion Battery Anode. <i>ACS Nano</i> , 2014, 8, 1728-1738.	7.3	615
2047	Characterization of the solid electrolyte interphase on lithium anode for preventing the shuttle mechanism in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014, 246, 840-845.	4.0	343

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2049	Biomass derived activated carbon with 3D connected architecture for rechargeable lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2014, 116, 146-151.	2.6	258
2050	Analysis of the solid electrolyte interphase formed with an ionic liquid electrolyte for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014, 252, 150-155.	4.0	109
2051	A facile approach using MgCl ₂ to formulate high performance Mg ²⁺ electrolytes for rechargeable Mg batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3430.	5.2	197
2052	Ultrasmall Sn Nanoparticles Embedded in Nitrogen-Doped Porous Carbon As High-Performance Anode for Lithium-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 153-157.	4.5	538
2053	Defective Graphene as a High-Capacity Anode Material for Na- and Ca-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1788-1795.	4.0	365
2054	New SiO ₂ /C composite film anode materials for LIB by electrodeposition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 883-896.	5.2	34
2055	Top-down fabrication of three-dimensional porous V ₂ O ₅ hierarchical microplates with tunable porosity for improved lithium battery performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3297-3302.	5.2	76
2056	Excellent cycling stability of spherical spinel LiMn ₂ O ₄ by Y ₂ O ₃ coating for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 115-123.	1.2	20
2057	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. <i>Nature Nanotechnology</i> , 2014, 9, 187-192.	15.6	2,109
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2060	Electrochemistry of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3558-3586.	7.2	333
2061	In situ one-step synthesis of CoFe ₂ O ₄ /graphene nanocomposites as high-performance anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 129, 33-39.	2.6	113
2062	Interface Chemistry Engineering of Protein-Directed SnO ₂ Nanocrystal-Based Anode for Lithium-Ion Batteries with Improved Performance. <i>Small</i> , 2014, 10, 998-1007.	5.2	35
2063	Modified graphite and graphene electrodes for high-performance lithium ion hybrid capacitors. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1.	1.5	37
2064	Tuning electrochemical potential of LiCoO ₂ with cation substitution: first-principles predictions and electronic origin. <i>Ionics</i> , 2014, 20, 315-321.	1.2	9
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2067	Influence of the pore structure parameters of mesoporous anatase microspheres on their performance in lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1673-1681.	1.2	14
2068	A New Spinel-Layered Li-Rich Microsphere as a High-Rate Cathode Material for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400062.	10.2	164
2069	Anatase TiO ₂ nanoparticles for high power sodium-ion anodes. <i>Journal of Power Sources</i> , 2014, 251, 379-385.	4.0	297
2070	Synthesis of nanosized cadmium oxide (CdO) as a novel high capacity anode material for Lithium-ion batteries: influence of carbon nanotubes decoration and binder choice. <i>Electrochimica Acta</i> , 2014, 129, 107-112.	2.6	34
2071	Cathode refunctionalization as a lithium ion battery recycling alternative. <i>Journal of Power Sources</i> , 2014, 256, 274-280.	4.0	83
2072	Mesoporous Prussian Blue Analogues: Template-Free Synthesis and Sodium-Ion Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3134-3137.	7.2	253
2073	Tuning silicon nanowires doping level and morphology for highly efficient micro-supercapacitors. <i>Nano Energy</i> , 2014, 5, 20-27.	8.2	41
2074	Nitrogen-doped carbon coated Li ₃ V ₂ (PO ₄) ₃ derived from a facile in situ fabrication strategy with ultrahigh-rate stable performance for lithium-ion storage. <i>New Journal of Chemistry</i> , 2014, 38, 430-436.	1.4	45
2075	A novel composite with highly dispersed Fe ₃ O ₄ nanocrystals on ordered mesoporous carbon as an anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 585, 783-789.	2.8	46
2076	Fabrication of MoS ₂ nanosheet@TiO ₂ nanotube hybrid nanostructures for lithium storage. <i>Nanoscale</i> , 2014, 6, 5245-5250.	2.8	158
2077	Anatase-TiO ₂ nanocoating of Li ₄ Ti ₅ O ₁₂ nanorod anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 601, 38-42.	2.8	30
2078	Review and recent advances in battery health monitoring and prognostics technologies for electric vehicle (EV) safety and mobility. <i>Journal of Power Sources</i> , 2014, 256, 110-124.	4.0	496
2079	Super Long-Life Supercapacitors Based on the Construction of Nanohoneycomb-Like Strongly Coupled CoMoO ₄ -3D Graphene Hybrid Electrodes. <i>Advanced Materials</i> , 2014, 26, 1044-1051.	11.1	630
2080	Hollow LiMn ₂ O ₄ Nanocones as Superior Cathode Materials for Lithium-Ion Batteries with Enhanced Power and Cycle Performances. <i>Small</i> , 2014, 10, 1096-1100.	5.2	63
2081	Carbon-coated V ₂ O ₅ nanoparticles with enhanced electrochemical performance as a cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 589, 322-329.	2.8	60
2082	Electrically Conductive Ultrananocrystalline Diamond-Coated Natural Graphite-Copper Anode for New Long Life Lithium-Ion Battery. <i>Advanced Materials</i> , 2014, 26, 3724-3729.	11.1	51
2083	Synthesis of ordered mesoporous NiCo ₂ O ₄ via hard template and its application as bifunctional electrocatalyst for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2014, 129, 14-20.	2.6	78

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2085	Ultrasmall Fe ₃ O ₄ Nanoparticle/MoS ₂ Nanosheet Composites with Superior Performances for Lithium Ion Batteries. <i>Small</i> , 2014, 10, 1536-1543.	5.2	257
2086	Durable Carbon-Coated Li ₂ S Core-Shell Spheres for High Performance Lithium/Sulfur Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 4659-4663.	6.6	248
2087	Understanding the Thermal and Mechanical Stabilities of Olivine-Type LiMPO ₄ (M = Fe, Mn) as Cathode Materials for Rechargeable Lithium Batteries from First Principles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4033-4042.	4.0	66
2088	A CoFe ₂ O ₄ /graphene nanohybrid as an efficient bi-functional electrocatalyst for oxygen reduction and oxygen evolution. <i>Journal of Power Sources</i> , 2014, 250, 196-203.	4.0	312
2089	Fe ₂ O ₃ nanorods/carbon nanofibers composite: Preparation and performance as anode of high rate lithium ion battery. <i>Journal of Power Sources</i> , 2014, 251, 85-91.	4.0	76
2090	Iron-Oxide-Based Advanced Anode Materials for Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300958.	10.2	498
2091	Fe ₃ O ₄ -CNTs nanocomposites: Inorganic dispersant assisted hydrothermal synthesis and application in lithium ion batteries. <i>Journal of Solid State Chemistry</i> , 2014, 213, 104-109.	1.4	25
2092	Complex Hydrides for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2014, 24, 2267-2279.	7.8	184
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2095	On the origin of the significant difference in lithiation behavior between silicon and germanium. <i>Journal of Power Sources</i> , 2014, 263, 252-258.	4.0	44
2096	Nanowire Na _{0.35} MnO ₂ from a hydrothermal method as a cathode material for aqueous asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2014, 253, 98-103.	4.0	77
2097	Review on recent progress of nanostructured anode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 257, 421-443.	4.0	1,794
2098	Facile Synthesis of Anatase TiO ₂ Quantum-Dot/Graphene-Nanosheet Composites with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 2084-2088.	11.1	281
2099	Silicon Decorated Cone Shaped Carbon Nanotube Clusters for Lithium Ion Battery Anodes. <i>Small</i> , 2014, 10, 3389-3396.	5.2	65
2100	The Lithium Air Battery. , 2014, , .		111
2101	Nanoarchitected LiMn ₂ O ₄ /Graphene/ZnO Composites as Electrodes for Lithium Ion Batteries. <i>Journal of Materials Science and Technology</i> , 2014, 30, 427-433.	5.6	42

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2103	Effect of additives on electrochemical performance of lithium nickel cobalt manganese oxide at high temperature. <i>Journal of Power Sources</i> , 2014, 253, 48-54.	4.0	82
2104	The synthesis, characterization and electrochemical properties of V ₃ O ₇ ·H ₂ O/CNT Nanocomposite. <i>Solid State Ionics</i> , 2014, 262, 30-34.	1.3	21
2105	Porous hollow LiCoMnO ₄ microspheres as cathode materials for 5V lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 247, 794-798.	4.0	31
2106	Stochastic Electronics: A Neuro-Inspired Design Paradigm for Integrated Circuits. <i>Proceedings of the IEEE</i> , 2014, 102, 843-859.	16.4	59
2107	Porous Li ₂ C ₈ H ₄ O ₄ coated with N-doped carbon by using CVD as an anode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5696-5702.	5.2	62
2108	Iron Oxide Nanoparticle and Graphene Nanoribbon Composite as an Anode Material for High-Performance Li-ion Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 2044-2048.	7.8	156
2109	On the challenge of developing advanced technologies for electrochemical energy storage and conversion. <i>Materials Today</i> , 2014, 17, 110-121.	8.3	501
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2111	Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. <i>Chemical Reviews</i> , 2014, 114, 9455-9486.	23.0	557
2112	Facile preparation of [Bi ₆ O ₄](OH) ₄ (NO ₃) ₆ ·4H ₂ O, [Bi ₆ O ₄](OH) ₄ (NO ₃) ₆ ·H ₂ O and [Bi ₆ O ₄](OH) ₄ (NO ₃) ₆ ·H ₂ O/C as novel high capacity anode materials for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 254, 88-97.	4.0	18
2114	Electrospun Trilayer Polymeric Membranes as Separator for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2014, 127, 167-172.	2.6	79
2115	Hierarchical MoS ₂ nanosheet/active carbon fiber cloth as a binder-free and free-standing anode for lithium-ion batteries. <i>Nanoscale</i> , 2014, 6, 5351-5358.	2.8	197
2116	The composite sphere of manganese oxide and carbon nanotubes as a prospective anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 255, 163-169.	4.0	44
2117	Morphology-controlled synthesis of Ti ³⁺ self-doped yolk-shell structure titanium oxide with superior photocatalytic activity under visible light. <i>Journal of Solid State Chemistry</i> , 2014, 213, 98-103.	1.4	14
2118	PEDOT coated Li ₄ Ti ₅ O ₁₂ nanorods: Soft chemistry approach synthesis and their lithium storage properties. <i>Electrochimica Acta</i> , 2014, 129, 283-289.	2.6	57
2119	The future of lithium availability for electric vehicle batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 183-193.	8.2	269
2120	A new route for synthesizing C/LiFePO ₄ /multi-walled carbon nanotube secondary particles for lithium ion batteries. <i>Solid State Ionics</i> , 2014, 257, 60-66.	1.3	27

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2122	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries. <i>Carbon</i> , 2014, 76, 148-154.	5.4	80
2123	Amorphous carbon-coated TiO ₂ nanocrystals for improved lithium-ion battery and photocatalytic performance. <i>Nano Energy</i> , 2014, 6, 109-118.	8.2	174
2124	Preparation of carbon-coated iron oxide nanoparticles dispersed on graphene sheets and applications as advanced anode materials for lithium-ion batteries. <i>Nano Research</i> , 2014, 7, 502-510.	5.8	102
2125	Temperature dependent ageing mechanisms in Lithium-ion batteries – A Post-Mortem study. <i>Journal of Power Sources</i> , 2014, 262, 129-135.	4.0	772
2126	Facile synthesis of nanocrystalline LiFePO ₄ /graphene composite as cathode material for high power lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 130, 594-599.	2.6	31
2127	Density functional theory calculations for ethylene carbonate-based binary electrolyte mixtures in lithium ion batteries. <i>Current Applied Physics</i> , 2014, 14, 349-354.	1.1	36
2128	Synthesis, evolution and hydrogen storage properties of ZnV ₂ O ₄ glomerulus nano/microspheres: A prospective material for energy storage. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7842-7851.	3.8	55
2129	Mesoporous MnCo ₂ O ₄ with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8676-8682.	5.2	227
2130	Microwave hydrothermal synthesis of urchin-like NiO nanospheres as electrode materials for lithium-ion batteries and supercapacitors with enhanced electrochemical performances. <i>Journal of Alloys and Compounds</i> , 2014, 582, 522-527.	2.8	48
2131	Preparation of MOF(Fe) and its catalytic activity for oxygen reduction reaction in an alkaline electrolyte. <i>Chinese Journal of Catalysis</i> , 2014, 35, 185-195.	6.9	100
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2133	Polymeric Schiff Bases as Low Voltage Redox Centers for Sodium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5341-5345.	7.2	170
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2136	Challenges of ‘Going Nano’ Enhanced Electrochemical Performance of Cobalt Oxide Nanoparticles by Carbothermal Reduction and In Situ Carbon Coating. <i>ChemPhysChem</i> , 2014, 15, 2177-2185.	1.0	38
2137	Wearable Solar Cells by Stacking Textile Electrodes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6110-6114.	7.2	126
2138	Nitrogen-Containing Polycyclic Quinones as Cathode Materials for Lithium Ion Batteries with Increased Voltage. <i>Energy Technology</i> , 2014, 2, 155-158.	1.8	71

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2140	Three-Dimensional Structural Engineering for Energy Storage Devices: From Microscope to Macroscopic. <i>ChemElectroChem</i> , 2014, 1, 975-1002.	1.7	53
2141	Three-Dimensional $\text{Co}_3\text{O}_4/\text{MnO}_2$ Hierarchical Nanoneedle Arrays: Morphology Control and Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2014, 24, 3815-3826.	7.8	378
2142	The influence of carrier density and doping type on lithium insertion and extraction processes at silicon surfaces. <i>Electrochimica Acta</i> , 2014, 135, 356-367.	2.6	26
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2146	Aprotic and Aqueous Li_2O Batteries. <i>Chemical Reviews</i> , 2014, 114, 5611-5640.	23.0	975
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2149	The Effects of Different Core-Shell Structures on the Electrochemical Performances of Si-Ge Nanorod Arrays as Anodes for Micro-Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5884-5890.	4.0	49
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2155	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6086-6091.	5.2	624
2156	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ -based anode materials with low working potentials, high rate capabilities and high cyclability for high-power lithium-ion batteries: a synergistic effect of doping, incorporating a conductive phase and reducing the particle size. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9982-9993.	5.2	97

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2158	Template-Free Fabrication of Mesoporous Hollow ZnMn ₂ O ₄ Submicrospheres with Enhanced Lithium Storage Capability towards High-Performance Li-ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 657-663.	1.2	68
2159	Ionic-Liquid Nanoparticle Hybrid Electrolytes: Applications in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 488-492.	7.2	295
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2162	Crystal structure and multicomponent effects in Tetrahedral Silicate Cathode Materials for Rechargeable Li-ion Batteries. <i>Electrochimica Acta</i> , 2014, 121, 434-442.	2.6	5
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2165	Agent-based model for electricity consumption and storage to evaluate economic viability of tariff arbitrage for residential sector demand response. <i>Applied Energy</i> , 2014, 126, 297-306.	5.1	100
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2169	Entrapping electrode materials within ultrathin carbon nanotube network for flexible thin film lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 20010-20016.	1.7	39
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2176	Chemistry, Impedance, and Morphology Evolution in Solid Electrolyte Interphase Films during Formation in Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 896-903.	1.5	261
2177	In Silico Based Rank-Order Determination and Experiments on Nonaqueous Electrolytes for Sodium Ion Battery Applications. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13406-13416.	1.5	74
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2189	Inorganic chemistry solutions to semiconductor nanocrystal problems. <i>Coordination Chemistry Reviews</i> , 2014, 263-264, 182-196.	9.5	35
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2207	Overwhelming microwave irradiation assisted synthesis of olivine-structured LiMPO ₄ (M=Fe, Mn, Co) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	8.2	56
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2496	Mesoporous zinc ferrite/graphene composites: Towards ultra-fast and stable anode for lithium-ion batteries. <i>Carbon</i> , 2014, 79, 493-499.	5.4	65
2497	High-Performance Hybrid Supercapacitor Enabled by a High-Rate Si-based Anode. <i>Advanced Functional Materials</i> , 2014, 24, 7433-7439.	7.8	208
2498	Reactive vapor deposition and electrochemical performance of nano-structured magnesium silicide on silicon and silicon carbide substrates. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 873-876.	1.9	11
2499	A dispersion-corrected DFT study on adsorption of battery active materials anthraquinone and its derivatives on monolayer graphene and h-BN. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8910-8917.	5.2	115
2500	Enhanced electrochemical performance of sodium lithium titanate by coating various carbons. <i>Journal of Power Sources</i> , 2014, 272, 283-290.	4.0	34

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2502	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15640.	5.2	75
2503	A novel coating onto LiMn_2O_4 cathode with increased lithium ion battery performance. <i>Applied Surface Science</i> , 2014, 317, 884-891.	3.1	38
2504	Facile synthesis of hierarchically porous hematite nanostructures composed of aligned nanorods for superior lithium storage capability. <i>Journal of Power Sources</i> , 2014, 272, 997-1002.	4.0	13
2505	Superfine $\text{TiO}_2/\text{SnO}_2/\text{Carbon}$ Hybrid Nanocomposite with Greatly Enhanced Electrochemical Properties. <i>Electrochimica Acta</i> , 2014, 147, 603-609.	2.6	12
2506	Facile synthesis of CuO nanoneedle electrodes for high-performance lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2014, 148, 411-415.	2.0	22
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2508	Effect of the length and surface area on electrochemical performance of cobalt oxide nanowires for alkaline secondary battery application. <i>Journal of Power Sources</i> , 2014, 272, 703-710.	4.0	15
2509	Microstructure Evolution in Lithium-Ion Battery Electrode Processing. <i>Journal of the Electrochemical Society</i> , 2014, 161, E3248-E3258.	1.3	56
2510	Spectroscopic X-ray Diffraction for Microfocus Inspection of Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20750-20755.	1.5	31
2511	Rational Design of Void-Involved $\text{Si}@\text{TiO}_2$ Nanospheres as High-Performance Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6497-6503.	4.0	117
2512	<i>In Situ</i> Transmission Electron Microscopy Observation of Electrochemical Sodiation of Individual Co_9S_8 -Filled Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 3620-3627.	7.3	76
2513	Flexible rechargeable lithium ion batteries: advances and challenges in materials and process technologies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10712-10738.	5.2	238
2514	A Facile Supercritical Alcohol Route for Synthesizing Carbon Coated Hierarchically Mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Microspheres. <i>Journal of Physical Chemistry C</i> , 2014, 118, 183-193.	1.5	57
2515	Hierarchical structure $\text{LiFePO}_4@\text{C}$ synthesized by oleylamine-mediated method for low temperature applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4870-4873.	5.2	33
2516	Lithium cobalt oxide coated lithium zinc titanate anode material with an enhanced high rate capability and long lifespan for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 144, 76-84.	2.6	41
2517	A Nanosheets-Channel Architecture Constructed from MoS_2 and CMK for High-Capacity and Long-Cycle-Life Lithium Storage. <i>Advanced Energy Materials</i> , 2014, 4, 1400902.	10.2	180
2518	A facile one-step hydrothermal synthesis of Fe_2O_3 nanoplates imbedded in graphene networks with high-rate lithium storage and long cycle life. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13942-13948.	5.2	39

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2529	High Performance Porous Anode Based on Template-Free Synthesis of Co ₃ O ₄ Nanowires for Lithium-Ion Batteries. Electrochimica Acta, 2014, 139, 145-151.	2.6	37
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2534	Sodiation via Heterogeneous Disproportionation in FeF ₂ Electrodes for Sodium-Ion Batteries. ACS Nano, 2014, 8, 7251-7259.	7.3	89
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2558	Crystalline red phosphorus incorporated with porous carbon nanofibers as flexible electrode for high performance lithium-ion batteries. <i>Carbon</i> , 2014, 78, 455-462.	5.4	146
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2566	Facile Synthesis of SnO ₂ /Fe ₂ O ₃ Hollow Spheres and their Application as Anode Materials in Lithium-ion Batteries. <i>ChemPlusChem</i> , 2014, 79, 1643-1648.	1.3	20
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2578	Influence of Solvating Plasticizer on Ion Conduction of Polysiloxane Single-Ion Conductors. <i>Macromolecules</i> , 2014, 47, 3145-3153.	2.2	63
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2580	Nanoporous polymer scaffold-embedded nonwoven composite separator membranes for high-rate lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 54312-54321.	1.7	15
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2625	Phase and Dimensionality of Tin Oxide at graphene nanosheet array and its Electrochemical performance as anode for Lithium Ion Battery. <i>Electrochimica Acta</i> , 2014, 125, 380-385.	2.6	17
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2763	Dual function of quaternary ammonium in Zn/Br redox flow battery: Capturing the bromine and lowering the charge transfer resistance. <i>Electrochimica Acta</i> , 2014, 127, 397-402.	2.6	99
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2771	Electrochemical properties of LiMn _x Fe _{1-x} PO ₄ (x=0, 0.2, 0.4, 0.6, 0.8 and 1.0)/vapor grown carbon fiber core-shell composite nanowire synthesized by electrospinning method. <i>Journal of Power Sources</i> , 2014, 248, 615-620.	4.0	27
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3067	Multifunctional semi-interpenetrating polymer network-nanoencapsulated cathode materials for high-performance lithium-ion batteries. <i>Scientific Reports</i> , 2014, 4, 4602.	1.6	21
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3069	Hydroxyl-functionalized poly(trimethylene carbonate) electrolytes for 3D-electrode configurations. <i>Polymer Chemistry</i> , 2015, 6, 4766-4774.	1.9	22
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3075	Carbon-coated MoO ₂ dispersed in three-dimensional graphene aerogel for lithium-ion battery. <i>Electrochimica Acta</i> , 2015, 174, 8-14.	2.6	57
3076	Synthesis of nanostructured Ni ₃ S ₂ with different morphologies as negative electrode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 293, 706-711.	4.0	51
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3112	Thermal behavior analyses of stacked prismatic LiCoO ₂ lithium-ion batteries during oven tests. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 411-423.	2.5	36
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3207	Importance of nanostructure for reversible Li-insertion into octahedral sites of LiNi _{0.5} Mn _{1.5} O ₄ and its application towards aqueous Li-ion chemistry. <i>Journal of Power Sources</i> , 2015, 280, 240-245.	4.0	15
3208	Hierarchical self-assembled structures based on nitrogen-doped carbon nanotubes as advanced negative electrodes for Li-ion batteries and 3D microbatteries. <i>Journal of Power Sources</i> , 2015, 279, 581-592.	4.0	41
3209	A novel NaA-type zeolite-embedded composite separator for lithium-ion battery. <i>Materials Letters</i> , 2015, 145, 177-179.	1.3	23
3210	Graphene/acid assisted facile synthesis of structure-tuned Fe ₃ O ₄ and graphene composites as anode materials for lithium ion batteries. <i>Carbon</i> , 2015, 86, 310-317.	5.4	61
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3212	An Efficient Bi-functional Electrocatalyst Based on Strongly Coupled CoFe ₂ O ₄ /Carbon Nanotubes Hybrid for Oxygen Reduction and Oxygen Evolution. <i>Electrochimica Acta</i> , 2015, 177, 65-72.	2.6	92
3213	Nitrogen-doped Carbon-coated Sn _x O _y (x = 1 and y = 0 and 2) Nanoparticles for Rechargeable Li-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 161, 269-278.	2.6	22
3214	Carbon-supported SnO ₂ nanowire arrays with enhanced lithium storage properties. <i>Electrochimica Acta</i> , 2015, 158, 321-326.	2.6	35
3215	Preparation of nanographite sheets supported Si nanoparticles by in situ reduction of fumed SiO ₂ with magnesium for lithium ion battery. <i>Journal of Power Sources</i> , 2015, 281, 425-431.	4.0	57
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3280	Synthesis of hierarchical worm-like SnO ₂ @C aggregates and their enhanced lithium storage properties. <i>Journal of Alloys and Compounds</i> , 2015, 620, 407-412.	2.8	14
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3321	MIL-101(Fe) as a lithium-ion battery electrode material: a relaxation and intercalation mechanism during lithium insertion. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4738-4744.	5.2	168
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3326	Hierarchical architected NiS@SiO ₂ nanoparticles enveloped in graphene sheets as anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 155, 85-92.	2.6	45
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3328	Stable lithium electrodeposition in salt-reinforced electrolytes. <i>Journal of Power Sources</i> , 2015, 279, 413-418.	4.0	106
3329	Improved stability of nano-Sn electrode with high-quality nano-SEI formation for lithium ion battery. <i>Nano Energy</i> , 2015, 12, 314-321.	8.2	108
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3336	Cylindrical nanostructured MoS_2 directly grown on CNT composites for lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3404-3409.	2.8	86
3337	Recent progress in theoretical and computational investigations of Li-ion battery materials and electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4799-4844.	1.3	237
3338	Electrochemical performance of rod-like Sb@C composite as anodes for Li-ion and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3276-3280.	5.2	94
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3488	Improved high voltage electrochemical performance of Li_2ZrO_3 -coated $\text{LiNi}_0.5\text{Co}_0.2\text{Mn}_0.3\text{O}_2$ cathode material. <i>Journal of Alloys and Compounds</i> , 2015, 647, 612-619.	2.8	120
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3491	Improving the Anode Performance of WS_2 through a Self-Assembled Double Carbon Coating. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15874-15881.	1.5	90
3492	Synthesis, characterization and observation of antisite defects in LiNiPO_4 nanomaterials. <i>Scientific Reports</i> , 2015, 5, 11041.	1.6	63
3493	Fabrication and properties of polybutadiene rubber-interpenetrating cross-linking poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52978-52984.	1.7	25
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3498	Porous Ni _{0.14} Mn _{0.86} O _{1.43} hollow microspheres as high-performing anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 291, 156-162.	4.0	30
3499	Ceramic separators based on Li ⁺ -conducting inorganic electrolyte for high-performance lithium-ion batteries with enhanced safety. <i>Journal of Power Sources</i> , 2015, 293, 675-683.	4.0	87
3500	Facile synthesis of tin dioxide-based high performance anodes for lithium ion batteries assisted by graphene gel. <i>Journal of Power Sources</i> , 2015, 295, 41-46.	4.0	21
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3505	Evolution of optogenetic microdevices. <i>Neurophotonics</i> , 2015, 2, 031206.	1.7	26
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3534	High capacity group-IV elements (Si, Ge, Sn) based anodes for lithium-ion batteries. <i>Journal of Materiomics</i> , 2015, 1, 153-169.	2.8	185
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3536	Electrochemical study of Si/C composites with particulate and fibrous morphology as negative electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 128-135.	4.0	18
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3582	Effect of Ni ²⁺ Content on Lithium/Nickel Disorder for Ni-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7702-7708.	4.0	287
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3585	Reduced graphene oxide encapsulated selenium nanoparticles for high-power lithium-selenium battery cathode. <i>Journal of Power Sources</i> , 2015, 288, 214-220.	4.0	88
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3600	Fabrication and lithium storage performance of sugar apple-shaped SiO _x @C nanocomposite spheres. <i>Journal of Power Sources</i> , 2015, 288, 53-61.	4.0	87
3601	Fabrication of Sandwich-structured Si Nanoparticles-Graphene Nanocomposites for High-performance Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 169, 409-415.	2.6	51
3602	Synthesis of Sodium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-co-ethylacrylate] Solid Polymer Electrolytes. <i>Electrochimica Acta</i> , 2015, 175, 232-239.	2.6	27
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3622	Improved Electrochemical Performance of Fe-Substituted NaNi _{0.5} Mn _{0.5} O ₂ Cathode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 8585-8591.	4.0	216

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3634	One-step synthesis of carbon-coated $\text{Li}_4\text{Ti}_4.95\text{Nd}_{0.05}\text{O}_{12}$ by modified citric acid sol-gel method for lithium-ion battery. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 38-44.	1.1	8
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3636	Soft template PEG-assisted synthesis of $\text{Fe}_3\text{O}_4@\text{C}$ nanocomposite as superior anode materials for lithium-ion batteries. <i>Science Bulletin</i> , 2015, 60, 884-891.	4.3	17
3637	Hierarchical porous carbons fabricated from silica via flame synthesis as anode materials for high-performance lithium-ion batteries. <i>Ionics</i> , 2015, 21, 1881-1891.	1.2	14
3638	Preparation and electrochemical performance of spinel $\text{LiNi}_{0.5-x}\text{Mn}_{1.5+x}\text{O}_4$ ($x=0, 0.05, 0.1$) hollow microspheres as cathode materials for lithium-ion batteries. <i>Ionics</i> , 2015, 21, 1843-1849.	1.2	7
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3712	Electrochemical Characterization of Electrospun Nanocomposite Polymer Blend Electrolyte Fibrous Membrane for Lithium Battery. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5299-5308.	1.2	26
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3716	Porous tremella-like MoS ₂ /polyaniline hybrid composite with enhanced performance for lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2015, 167, 132-138.	2.6	70
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3738	Si nanoparticles encapsulated in elastic hollow carbon fibres for Li-ion battery anodes with high structural stability. <i>Nanoscale</i> , 2015, 7, 7409-7414.	2.8	52
3739	Role of LiCoO ₂ Surface Terminations in Oxygen Reduction and Evolution Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1357-1362.	2.1	54
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3903	High-performance lithium storage of Co ₃ O ₄ achieved by constructing porous nanotube structure. <i>Electrochimica Acta</i> , 2015, 182, 507-515.	2.6	34
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3947	The transformation of graphite electrode materials in lithium-ion batteries after cycling. <i>Journal of Power Sources</i> , 2015, 298, 349-354.	4.0	36
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4154	Self-Sacrifice Template Fabrication of Hierarchical Mesoporous Bi-Component Active ZnO/ZnFe ₂ O ₄ Sub-Microcubes as Superior Anode Towards High-Performance Lithium-ion Battery. <i>Advanced Functional Materials</i> , 2015, 25, 238-246.	7.8	334
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4437	Synthesis and lithium storage performance of graphene/Co ₃ O ₄ microrods hybrids. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7657-7664.	1.1	7
4438	High electrochemical energy storage in self-assembled nest-like CoO nanofibers with long cycle life. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	25
4439	The state of understanding of the lithium-ion-battery graphite solid electrolyte interphase (SEI) and its relationship to formation cycling. <i>Carbon</i> , 2016, 105, 52-76.	5.4	1,335
4440	Porous Mn ₂ O ₃ microcubes with exposed {001} facets as electrode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2016, 40, 6030-6035.	1.4	9
4441	Chiral Redox-Active Isosceles Triangles. <i>Journal of the American Chemical Society</i> , 2016, 138, 5968-5977.	6.6	62
4442	A study of methyl phenyl carbonate and diphenyl carbonate as electrolyte additives for high voltage LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ /graphite pouch cells. <i>Journal of Power Sources</i> , 2016, 318, 228-234.	4.0	57
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4444	NiCo ₂ O ₄ @TiN Core-shell Electrodes through Conformal Atomic Layer Deposition for All-solid-state Supercapacitors. <i>Electrochimica Acta</i> , 2016, 196, 611-621.	2.6	41
4445	Capacity-increasing robust porous SiO ₂ /Si/graphene/C microspheres as an anode for Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 45077-45084.	1.7	18
4446	Fabrication of graphene-encapsulated Na ₃ V ₂ (PO ₄) ₃ as high-performance cathode materials for sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 43591-43597.	1.7	39
4447	Generation and detection of metal ions and volatile organic compounds (VOCs) emissions from the pretreatment processes for recycling spent lithium-ion batteries. <i>Waste Management</i> , 2016, 52, 221-227.	3.7	133
4448	The electrochemical performance of AB ₃ -type hydrogen storage alloy as anode material for the nickel metal hydride accumulators. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1949-1959.	1.2	17
4449	Cu ₂ O Hybridized Titanium Carbide with Open Conductive Frameworks for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2016, 202, 24-31.	2.6	57
4450	Embedding nano-Li ₄ Ti ₅ O ₁₂ in hierarchical porous carbon matrixes derived from water soluble polymers for ultra-fast lithium ion batteries anodic materials. <i>Journal of Alloys and Compounds</i> , 2016, 673, 336-348.	2.8	20
4451	High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10850-10857.	4.0	66
4452	Rational design of graphitic carbon based nanostructures for advanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8497-8511.	5.2	73
4453	High-Energy-Density Lithium-Sulfur Batteries Based on Blade-Cast Pure Sulfur Electrodes. <i>ACS Energy Letters</i> , 2016, 1, 46-51.	8.8	109

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4478	Binding TiO_2 -B nanosheets with N-doped carbon enables highly durable anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8172-8179.	5.2	47
4479	Large-scale synthesis of $LiNi_{0.75}Fe_{0.25}PO_4$ covalently anchored on graphene nanosheets for remarkable electrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8149-8154.	5.2	10
4480	Hierarchical rutile TiO_2 with mesocrystalline structure for Li-ion and Na-ion storage. <i>Electrochimica Acta</i> , 2016, 202, 203-208.	2.6	38
4481	Optimal hydrothermal synthesis of hierarchical porous $ZnMn_2O_4$ microspheres with more porous core for improved lithium storage performance. <i>Electrochimica Acta</i> , 2016, 207, 58-65.	2.6	24
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4487	Enhanced performance of organic materials for lithium-ion batteries using facile electrode calendaring techniques. <i>Electrochemistry Communications</i> , 2016, 68, 45-48.	2.3	13
4488	Layered P2-type $Na_{0.5}Ni_{0.25}Mn_{0.75}O_2$ as a high performance cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2016, 206, 199-206.	2.6	73
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4491	Depolarization effects of Li ₂ FeSiO ₄ nanocrystals wrapped in different conductive carbon networks as cathodes for high performance lithium-ion batteries. RSC Advances, 2016, 6, 47723-47729.	1.7	19
4492	Surface-modified carbon nanotube coating on high-voltage LiNi _{0.5} Mn _{1.5} O ₄ cathodes for lithium ion batteries. Journal of Power Sources, 2016, 322, 40-48.	4.0	65
4493	An equivalent circuit model for state of energy estimation of lithium-ion battery. , 2016, , .		20
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4509	Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600430.	1.9	17
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4511	Covalently functionalized carbon nanotubes as stable cathode materials of lithium/organic batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15036-15040.	5.2	19
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4516	Janus-Faced, Dual-Conductive/Chemically Active Battery Separator Membranes. <i>Advanced Functional Materials</i> , 2016, 26, 7074-7083.	7.8	67
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4520	Encapsulation of selenium sulfide in double-layered hollow carbon spheres as advanced electrode material for lithium storage. <i>Nano Research</i> , 2016, 9, 3725-3734.	5.8	45
4521	Facile synthesis of 3D silicon/carbon nanotube capsule composites as anodes for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 329, 422-427.	4.0	41
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4523	Ionic liquid and hybrid ionic liquid/organic electrolytes for high temperature lithium-ion battery application. <i>Electrochimica Acta</i> , 2016, 216, 24-34.	2.6	64
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4528	Polycyclic Quinone Fused by a Sulfur-containing Ring as an Organic Positive-electrode Material for Use in Rechargeable Lithium Batteries. <i>Energy Procedia</i> , 2016, 89, 222-230.	1.8	18
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4532	Graphite-Encapsulated Li-Metal Hybrid Anodes for High-Capacity Li Batteries. <i>CheM</i> , 2016, 1, 287-297.	5.8	247
4533	Preparation and performance of Li ₄ C ₁₀ H ₄ O ₈ with multi-carboxyl groups as anode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 202-206.	1.9	17
4534	Semi-interpenetrating solid polymer electrolyte based on thiol-ene cross-linker for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2016, 334, 154-161.	4.0	57
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4536	A designed core-shell structural composite of lithium terephthalate coating on Li ₄ Ti ₅ O ₁₂ as anode for lithium ion batteries. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 368-374.	1.8	5
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4538	One-pot preparation of new copolymer electrolytes with tunable network structure for all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2016, 331, 322-331.	4.0	65
4539	Improved Calculation of Li and Na Intercalation Properties in Anatase, Rutile, and TiO ₂ (B). <i>Journal of Physical Chemistry C</i> , 2016, 120, 22910-22917.	1.5	69
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4552	Free-standing CuO nanoflake arrays coated Cu foam for advanced lithium ion battery anodes. Journal of Power Sources, 2016, 333, 88-98.	4.0	92
4553	Rosin-Embedded Poly(acrylic acid) Binder for Silicon/Graphite Negative Electrode. ACS Sustainable Chemistry and Engineering, 2016, 4, 6362-6370.	3.2	22
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4565	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016, 30, 368-378.	8.2	229
4566	Novel Li[(CF ₃) ₂ SO] ₂ (n-C ₄ F ₉ SO ₂) _N -Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29705-29712.	4.0	87
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4576	Silicon-Reduced Graphene Oxide Self-Standing Composites Suitable as Binder-Free Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28800-28808.	4.0	50
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4581	Precise Perforation and Scalable Production of Si Particles from Low-Grade Sources for High-Performance Lithium Ion Battery Anodes. <i>Nano Letters</i> , 2016, 16, 7210-7215.	4.5	105
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4848	Synthesis and solvent-free polymerisation of vinyl terephthalate for application as an anode material in organic batteries. <i>RSC Advances</i> , 2016, 6, 111350-111357.	1.7	15
4849	Synthesis of $\sqrt{2}$ - Fe_2O_3 /carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18223-18239.	5.2	85
4850	Additive-free synthesis of $Li_4Ti_5O_{12}$ nanowire arrays on freestanding ultrathin graphite as a hybrid anode for flexible lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19197-19206.	5.2	26

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4853	Heteroaromatic organic compound with conjugated multi-carbonyl as cathode material for rechargeable lithium batteries. <i>Scientific Reports</i> , 2016, 6, 23515.	1.6	34
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4860	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. <i>ACS Energy Letters</i> , 2016, 1, 1247-1255.	8.8	281
4861	Preparation and Performance of Metal-Organic-Frameworks-Derived Activated Mesoporous Carbon Polyhedron with Sponge-Like Structure for Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2922-A2929.	1.3	17
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4863	Lithium-coated polymeric matrix as a minimum volume-change and dendrite-free lithium metal anode. <i>Nature Communications</i> , 2016, 7, 10992.	5.8	745
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4865	Effects of Li ₂ SO ₄ ·H ₂ O amounts on morphologies of hydrothermal synthesized LiMnPO ₄ cathodes. <i>RSC Advances</i> , 2016, 6, 103232-103237.	1.7	8
4866	In situ soft-chemistry synthesis of $\text{Na}_{0.33}\text{V}_2\text{O}_5$ nanorods as high-performance cathode for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 105833-105839.	1.7	9
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4876	Carbon-Coated Na ₃ V ₂ (PO ₄) ₃ Anchored on Freestanding Graphite Foam for High-Performance Sodium-Ion Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32360-32365.	4.0	50
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4882	Evaluation of graphene-wrapped LiFePO ₄ as novel cathode materials for Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 105081-105086.	1.7	16
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4978	Porous carbon-wrapped mesoporous Co ₉ S ₈ fibers as stable anode for Li-Ion Batteries. <i>Electrochimica Acta</i> , 2016, 211, 305-312.	2.6	53
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4984	Effect of Pore Size Distribution of Carbon Matrix on the Performance of Phosphorus@Carbon Material as Anode for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4217-4223.	3.2	34
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4986	Controlled synthesis of mesoporous nanostructured anatase TiO ₂ on a genetically modified <i>Escherichia coli</i> surface for high reversible capacity and long-life lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 59422-59428.	1.7	8
4987	A new composite solid electrolyte PEO/Li ₁₀ GeP ₂ S ₁₂ /SN for all-solid-state lithium battery. <i>Electrochimica Acta</i> , 2016, 210, 905-914.	2.6	185
4988	Micron-sized Spherical Si/C Hybrids Assembled via Water/Oil System for High-Performance Lithium Ion Battery. <i>Electrochimica Acta</i> , 2016, 211, 982-988.	2.6	30
4989	Do the bridging oxygen bonds between active Sn nanodots and graphene improve the Li-storage properties?. <i>Energy Storage Materials</i> , 2016, 5, 214-222.	9.5	41
4990	Highly Conductive, Sulfonated, UV-Cross-Linked Separators for Li-S Batteries. <i>Chemistry of Materials</i> , 2016, 28, 5147-5154.	3.2	82
4991	Novel and scalable solid-state synthesis of a nanocrystalline FeF ₃ /C composite and its excellent electrochemical performance. <i>Chemical Communications</i> , 2016, 52, 9414-9417.	2.2	20
4992	Solvothermal synthesis of Na ₂ Ti ₃ O ₇ nanowires embedded in 3D graphene networks as an anode for high-performance sodium-ion batteries. <i>Electrochimica Acta</i> , 2016, 211, 430-436.	2.6	63
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4994	Nitrogen-doped graphene-decorated LiVPO ₄ F nanocomposite as high-voltage cathode material for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 465-473.	4.0	42

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4996	Electrospun carbon-based nanostructured electrodes for advanced energy storage – A review. <i>Energy Storage Materials</i> , 2016, 5, 58-92.	9.5	178
4997	Stem-like nano-heterostructural MWCNTs/ \pm -Fe ₂ O ₃ @TiO ₂ composite with high lithium storage capability. <i>Journal of Alloys and Compounds</i> , 2016, 684, 419-427.	2.8	27
4998	Two-Dimensional Group IV Monochalcogenides: Anode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14522-14530.	1.5	120
4999	Enhancing the Thermal and Upper Voltage Performance of Ni-Rich Cathode Material by a Homogeneous and Facile Coating Method: Spray-Drying Coating with Nano-Al ₂ O ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17713-17720.	4.0	147
5000	A P ₂ -Na _{0.67} Co _{0.5} Mn _{0.5} O ₂ cathode material with excellent rate capability and cycling stability for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11103-11109.	5.2	147
5001	Silicon nanoparticles embedded in a porous carbon matrix as a high-performance anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11381-11387.	5.2	86
5002	Improvement of Cycling Performance of FeF ₃ -Based Lithium-Ion Battery by Boron-Based Additives. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1633-A1636.	1.3	16
5003	A facile cathode design combining Ni-rich layered oxides with Li-rich layered oxides for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 620-629.	4.0	46
5004	Structure of Surface Entrance Sites for Li Intercalation into TiO ₂ Nanoparticles, Nanosheets, and Mesoporous Architectures with Application for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14001-14008.	1.5	6
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5006	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. <i>NPG Asia Materials</i> , 2016, 8, e270-e270.	3.8	53
5007	Zinc Pyrovanadate Nanoplates Embedded in Graphene Networks with Enhanced Electrochemical Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2992-2999.	1.8	47
5008	Li-Ion Conduction and Stability of Perovskite Li _{3/8} Sr _{7/16} Hf _{1/4} Ta _{3/4} O ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14552-14557.	4.0	89
5009	Fabrication of rutile TiO ₂ nanorod arrays on a copper substrate for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 55671-55675.	1.7	11
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5011	Electrochemical performance of aluminum niobium oxide as anode for lithium-ion batteries. <i>Rare Metals</i> , 2016, 35, 256-261.	3.6	11
5012	Optimization of filler type within poly(vinylidene fluoride-co-trifluoroethylene) composite separator membranes for improved lithium-ion battery performance. <i>Composites Part B: Engineering</i> , 2016, 96, 94-102.	5.9	48

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5014	Semi-rechargeable Aluminum ⁺ Air Battery with a TiO ₂ Internal Layer with Plain Salt Water as an Electrolyte. <i>Journal of Electronic Materials</i> , 2016, 45, 3375-3382.	1.0	8
5015	Grid indentation analysis of mechanical properties of composite electrodes in Li-ion batteries. <i>Extreme Mechanics Letters</i> , 2016, 9, 495-502.	2.0	83
5016	First exploration of ultrafine Na ₇ V ₃ (P ₂ O ₇) ₄ as a high-potential cathode material for sodium-ion battery. <i>Energy Storage Materials</i> , 2016, 4, 71-78.	9.5	63
5017	SnO ₂ nanospheres among GO and SWNTs networks as anode for enhanced lithium storage performances. <i>Journal of Energy Chemistry</i> , 2016, 25, 445-449.	7.1	13
5018	A rechargeable Na-Zn hybrid aqueous battery fabricated with nickel hexacyanoferrate and nanostructured zinc. <i>Journal of Power Sources</i> , 2016, 321, 257-263.	4.0	127
5019	Comparison of electrospun and conventional LiFePO ₄ /C composite cathodes for Li-ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 213, 98-104.	1.7	7
5020	Effect of different MnO ₂ precursors on the electrochemical properties of spinel LiNi _{0.5} Mn _{1.5} O ₄ cathode active materials for high-voltage lithium ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 213, 157-162.	1.7	7
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5022	Electrostatic spray deposition of Li ₄ Ti ₅ O ₁₂ based anode with enhanced rate capability and energy density for lithium-ion batteries. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
5023	Nitrogen-doped graphene nanosheets decorated Li ₃ V ₂ (PO ₄) ₃ /C nanocrystals as high-rate and ultralong cycle-life cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 210, 45-52.	2.6	66
5024	Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na ₃ OBr and Na ₄ OI ₂ : An <i>in Situ</i> Neutron Diffraction Study. <i>Inorganic Chemistry</i> , 2016, 55, 5993-5998.	1.9	68
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5026	Controlled synthesis of concentration gradient LiNi _{0.84} Co _{0.10} Mn _{0.04} Al _{0.02} O _{1.90} F _{0.10} with improved electrochemical properties in Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 58173-58181.		17
5027	Hierarchical MnCo ₂ O ₄ constructed by mesoporous nanosheets@polypyrrole composites as anodes for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 209, 163-170.	2.6	59
5028	Influence of current collecting tab design on thermal and electrochemical performance of cylindrical Lithium-ion cells during high current discharge. <i>Journal of Energy Storage</i> , 2016, 5, 163-168.	3.9	23
5029	Controlling hydrogen evolution on iron electrodes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20807-20817.	3.8	32
5030	Pechini synthesis of high ionic conductivity Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ solid electrolytes: The effect of dispersant. <i>Journal of Alloys and Compounds</i> , 2016, 680, 646-653.	2.8	69

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5032	Nitrogen-doped Carbon Coated Porous Silicon as High Performance Anode Material for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2016, 209, 299-307.	2.6	52
5033	One-pot solvothermal synthesis of hierarchical WO ₃ hollow microspheres with superior lithium ion battery anode performance. <i>Electrochimica Acta</i> , 2016, 210, 147-154.	2.6	58
5034	Reduction of thermal conductivity by low energy multi-Einstein optic modes. <i>Journal of Materiomics</i> , 2016, 2, 187-195.	2.8	53
5035	Fabrication of TiNb ₂ O ₇ thin film electrodes for Li-ion micro-batteries by pulsed laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 213, 90-97.	1.7	27
5036	Electrochemical performance of an all-solid-state lithium-oxygen battery under humidified oxygen. <i>Solid State Ionics</i> , 2016, 289, 72-76.	1.3	19
5037	Double-Nanocarbon Synergistically Modified Na ₃ V ₂ (PO ₄) ₃ : An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15341-15351.	4.0	133
5038	In situ Electrochemical-AFM Study of LiFePO ₄ Thin Film in Aqueous Electrolyte. <i>Nanoscale Research Letters</i> , 2016, 11, 223.	3.1	12
5039	Lithium La _{0.57} Li _{0.33} TiO ₃ Perovskite and Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ Li-NASICON Supported Thick Films Electrolytes Prepared by Tape Casting Method. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1653-A1659.	1.3	30
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5041	Zinc pyrovanadate nanosheets of atomic thickness: excellent Li-storage properties and investigation of their electrochemical mechanism. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10974-10985.	5.2	30
5042	Design of an ultra-durable silicon-based battery anode material with exceptional high-temperature cycling stability. <i>Nano Energy</i> , 2016, 26, 192-199.	8.2	40
5043	High Capacity Rechargeable Magnesium-Ion Batteries Based on a Microporous Molybdenum Vanadium Oxide Cathode. <i>Chemistry of Materials</i> , 2016, 28, 4593-4601.	3.2	102
5044	Environmentally Friendly Synthesis of LiFePO ₄ Using Fe-P Waste Slag and Greenhouse Gas CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7069-7075.	1.8	7
5045	Novel Conjugated Ladder-Structured Oligomer Anode with High Lithium Storage and Long Cycling Capability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16932-16938.	4.0	64
5046	Design and synthesis of hollow NiCo ₂ O ₄ nanoboxes as anodes for lithium-ion and sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18949-18957.	1.3	74
5047	In-Depth Interfacial Chemistry and Reactivity Focused Investigation of Lithium Imide- and Lithium Imidazole-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16087-16100.	4.0	159
5048	Core-Shell Structured LiMnO ₂ @Li ₂ CO ₃ Nanosheet Array Cathode for High-Performance, Wide-Temperature-Tolerance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16116-16124.	4.0	31

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5050	Simple method for synthesizing few-layer graphene as cathodes in surface-enabled lithium ion-exchanging cells. <i>Ionics</i> , 2016, 22, 1575-1584.	1.2	4
5051	Magnesium Ion Rechargeable Batteries. <i>Macromolecular Research</i> , 2016, 24, 422-428.	1.0	27
5052	High Anodic Performance of Co 1,3,5-Benzenetricarboxylate Coordination Polymers for Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15352-15360.	4.0	181
5053	Synthesis of Vanadium Incorporated, Polyoxometalate Based Open Frameworks and Their Applications for Cathode Active Materials. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1242-1250.	1.0	17
5054	Theoretical Study of the Reductive Decomposition of Vinylethylene Sulfite as an Additive in Lithium Ion Battery. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 480-487.	0.8	5
5055	Hydrothermally Oxidized Single-Walled Carbon Nanotube Networks for High Volumetric Electrochemical Energy Storage. <i>Small</i> , 2016, 12, 3423-3431.	5.2	17
5056	MgO-template-assisted synthesis of worm-like carbon@MoS ₂ composite for lithium ion battery anodes. <i>Electrochimica Acta</i> , 2016, 211, 962-971.	2.6	14
5057	Reversible lithium storage in manganese and cobalt 1,2,4,5-benzenetetracarboxylate metal-organic framework with high capacity. <i>RSC Advances</i> , 2016, 6, 61319-61324.	1.7	45
5058	Recent progress in flexible energy storage materials for lithium-ion batteries and electrochemical capacitors: A review. <i>Journal of Materials Research</i> , 2016, 31, 1648-1664.	1.2	32
5059	Improved electrical properties of Fe nanofiller impregnated PEO+PVP:Li+ blended polymer electrolytes for lithium battery applications. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	21
5060	Synthesis of nano-sized silicon from natural halloysite clay and its high performance as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 33-40.	4.0	76
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5062	Poly(anthraquinonyl imide) as a high capacity organic cathode material for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11491-11497.	5.2	91
5063	Hydrogenated V ₂ O ₅ Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016, 26, 784-791.	7.8	149
5064	Highly Connected Silicon-Copper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 524-531.	7.8	110
5065	Ultraflexible In-Plane Micro-Supercapacitors by Direct Printing of Solution-Processable Electrochemically Exfoliated Graphene. <i>Advanced Materials</i> , 2016, 28, 2217-2222.	11.1	366
5066	Reagent-Free Synthesis and Plasmonic Antioxidation of Unique Nanostructured Metal-Metal Oxide Core-Shell Microfibers. <i>Advanced Materials</i> , 2016, 28, 4097-4104.	11.1	21

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5068	Insights into Ionic Transport and Structural Changes in Magnetite during Multiple-Electron Transfer Reactions. <i>Advanced Energy Materials</i> , 2016, 6, 1502471.	10.2	72
5069	Smarte elektronische Textilien. <i>Angewandte Chemie</i> , 2016, 128, 6248-6277.	1.6	11
5070	A Highly Ion-Selective Zeolite Flake Layer on Porous Membranes for Flow Battery Applications. <i>Angewandte Chemie</i> , 2016, 128, 3110-3114.	1.6	25
5071	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. <i>Angewandte Chemie</i> , 2016, 128, 8111-8114.	1.6	70
5072	Synthesis of Lithium Boracarbonate Ion Pairs by Copper-Catalyzed Multi-Component Coupling of Carbon Dioxide, Diboron, and Aldehydes. <i>Angewandte Chemie</i> , 2016, 128, 6365-6368.	1.6	11
5073	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7979-7982.	7.2	211
5074	Synthesis of Lithium Boracarbonate Ion Pairs by Copper-Catalyzed Multi-Component Coupling of Carbon Dioxide, Diboron, and Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6257-6260.	7.2	38
5075	Synthesis and characterization of LiFePO_4 -carbon nanofiber-carbon nanotube composites prepared by electrospinning and thermal treatment as a cathode material for lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	2
5076	Fabrication of High-Energy Li -Ion Cells with $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Microspheres as Anode and $0.5\% \text{Li}_2\text{MnO}_3 \cdot 0.5\% \text{LiNi}_{0.4}\text{Co}_{0.2}\text{Mn}_{0.4}\text{O}_2$ Microspheres as Cathode. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1273-1280.	1.7	14
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5079	High-Performance Low-Temperature Li^+ Intercalation in Disordered Rock-Salt LiCrVO_2 Oxyfluorides. <i>ChemElectroChem</i> , 2016, 3, 892-895.	1.7	32
5080	Hierarchical Ternary $\text{MoO}_2/\text{MoS}_2$ /Heteroatom-Doped Carbon Hybrid Materials for High-Performance Lithium-Ion Storage. <i>ChemElectroChem</i> , 2016, 3, 922-932.	1.7	51
5081	Controlled synthesis of porous spinel cobalt manganese oxides as efficient oxygen reduction reaction electrocatalysts. <i>Nano Research</i> , 2016, 9, 207-213.	5.8	56
5082	Bead-curtain shaped $\text{SiC}@\text{SiO}_2$ core-shell nanowires with superior electrochemical properties for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 190, 33-39.	2.6	37
5083	Controlled synthesis of spherical hierarchical $\text{LiNi}_{1-x} \text{Co}_x \text{Al}_y \text{O}_2$ ($0 \leq x, y \leq 0.2$) via a novel cation exchange process as cathode materials for High-Performance Lithium Batteries. <i>Electrochimica Acta</i> , 2016, 190, 932-938.	2.6	32
5084	One-Pot Solvothermal Synthesis of $\text{ZnO}@\text{Co}(\text{OH})_2$ Core-Shell Hierarchical Microspheres with Superior Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2984-2992.	1.5	16

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5086	Synthesis and Reaction Mechanism of Novel Fluorinated Carbon Fiber as a High-Voltage Cathode Material for Rechargeable Na Batteries. <i>Chemistry of Materials</i> , 2016, 28, 1026-1033.	3.2	53
5087	Shape-Controlled Synthesis of Co ₂ P Nanostructures and Their Application in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3892-3900.	4.0	319
5088	Uniform Incorporation of Flocculent Molybdenum Disulfide Nanostructure into Three-Dimensional Porous Graphene as an Anode for High-Performance Lithium Ion Batteries and Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4691-4699.	4.0	99
5089	Kinetic Study of Parasitic Reactions in Lithium-Ion Batteries: A Case Study on LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3446-3451.	4.0	88
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5091	Sea urchin-like cobalt-iron phosphide as an active catalyst for oxygen evolution reaction. <i>Nanoscale</i> , 2016, 8, 3244-3247.	2.8	135
5092	Effect of PMMA blend and ZnAl ₂ O ₄ fillers on ionic conductivity and electrochemical performance of electrospun nanocomposite polymer blend fibrous electrolyte membranes for lithium batteries. <i>RSC Advances</i> , 2016, 6, 6486-6495.	1.7	18
5093	Sisal-derived activated carbons for cost-effective lithium-sulfur batteries. <i>RSC Advances</i> , 2016, 6, 13772-13779.	1.7	45
5094	Impact of Nanoscale Lithium Nickel Manganese Cobalt Oxide (NMC) on the Bacterium <i>Shewanella oneidensis</i> MR-1. <i>Chemistry of Materials</i> , 2016, 28, 1092-1100.	3.2	70
5095	Chemical synthesis of germanium nanoparticles with uniform size as anode materials for lithium ion batteries. <i>Dalton Transactions</i> , 2016, 45, 2814-2817.	1.6	34
5096	Monoclinic Li ₃ V ₂ (PO ₄) ₃ /C nanocrystals co-modified with graphene nanosheets and carbon nanotubes as a three-dimensional-network cathode material for rechargeable lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 8431-8439.	1.7	16
5097	Gelatin assisted wet chemistry synthesis of high quality γ -FeOOH nanorods anchored on graphene nanosheets with superior lithium-ion battery application. <i>RSC Advances</i> , 2016, 6, 17504-17509.	1.7	23
5098	High thermal and electrochemical stability of a SiO ₂ nanoparticle hybrid polyether cross-linked membrane for safety reinforced lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 18089-18095.	1.7	17
5099	Constructing durable carbon layer on LiMn _{0.8} Fe _{0.2} PO ₄ with superior long-term cycling performance for lithium-ion battery. <i>Electrochimica Acta</i> , 2016, 191, 200-206.	2.6	39
5100	Nitrogen-doped carbon microspheres derived from oatmeal as high capacity and superior long life anode material for sodium ion battery. <i>Electrochimica Acta</i> , 2016, 191, 385-391.	2.6	99
5101	Study of lithiation mechanisms of high performance carbon-coated Si anodes by in-situ microscopy. <i>Energy Storage Materials</i> , 2016, 3, 45-54.	9.5	47
5102	Biomorphic combustion synthesis of hematite porous structure with enhanced Li storage properties. <i>Materials Letters</i> , 2016, 168, 107-110.	1.3	7

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5104	The Effects of Cross-Linking in a Supramolecular Binder on Cycle Life in Silicon Microparticle Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2318-2324.	4.0	90
5105	Carbon coated SnO ₂ nanoparticles anchored on CNT as a superior anode material for lithium-ion batteries. <i>Nanoscale</i> , 2016, 8, 4121-4126.	2.8	129
5106	Novel solvent-free direct coating process for battery electrodes and their electrochemical performance. <i>Journal of Power Sources</i> , 2016, 306, 758-763.	4.0	44
5107	Understanding glass fiber membrane used as a novel separator for lithium-sulfur batteries. <i>Journal of Membrane Science</i> , 2016, 504, 89-96.	4.1	152
5108	Lithium-ion battery structure that self-heats at low temperatures. <i>Nature</i> , 2016, 529, 515-518.	13.7	595
5109	A mixed iron-manganese based pyrophosphate cathode, Na ₂ Fe _{0.5} Mn _{0.5} P ₂ O ₇ , for rechargeable sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3929-3935.	1.3	45
5110	Novel peapod NiO nanoparticles encapsulated in carbon fibers for high-efficiency supercapacitors and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3267-3277.	5.2	69
5111	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithium-sulfur battery. <i>Nano Research</i> , 2016, 9, 240-248.	5.8	165
5112	Core-shell Si@TiO ₂ nanosphere anode by atomic layer deposition for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 308, 75-82.	4.0	93
5113	Three-dimensional graphene nanosheets loaded with Si nanoparticles by in situ reduction of SiO ₂ for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 190, 628-635.	2.6	47
5114	A high-rate and long cycling life cathode for rechargeable lithium-ion batteries: hollow LiNi _{0.5} Mn _{0.5} O ₂ nano/micro hierarchical microspheres. <i>Electrochimica Acta</i> , 2016, 191, 974-979.	2.6	28
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5117	Performance Enhancement and Side Reactions in Rechargeable Nickel-Iron Batteries with Nanostructured Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2088-2096.	4.0	62
5118	Salt-Templating Protocol To Realize Few-Layered Ultrasmall MoS ₂ Nanosheets Inlayed into Carbon Frameworks for Superior Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1148-1153.	3.2	39
5119	Measurements of stress and fracture in germanium electrodes of lithium-ion batteries during electrochemical lithiation and delithiation. <i>Journal of Power Sources</i> , 2016, 304, 164-169.	4.0	57
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5122	Chemically integrated hierarchical hybrid zinc cobaltate/reduced graphene oxide microspheres as an enhanced lithium-ion battery anode. RSC Advances, 2016, 6, 4914-4924.	1.7	11
5123	Synthesis of cobalt-based layered coordination polymer nanosheets and their application in lithium-ion batteries as anode materials. RSC Advances, 2016, 6, 4442-4447.	1.7	38
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5132	Two-step synthesis of nanocomposite LiFePO_4/C cathode materials for lithium ion batteries. New Journal of Chemistry, 2016, 40, 1742-1746.	1.4	8
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5144	Ion and gas chromatography mass spectrometry investigations of organophosphates in lithium ion battery electrolytes by electrochemical aging at elevated cathode potentials. <i>Journal of Power Sources</i> , 2016, 306, 193-199.	4.0	55
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5150	Rational synthesis of Cu-doped porous γ -MnO ₂ microsphere for high performance supercapacitor applications. <i>Electrochimica Acta</i> , 2016, 191, 716-723.	2.6	52
5151	Hierarchically porous and heteroatom doped carbon derived from tobacco rods for supercapacitors. <i>Journal of Power Sources</i> , 2016, 307, 391-400.	4.0	499
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5166	High power layered titanate nano-sheets as pseudocapacitive lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2016, 305, 115-121.	4.0	28
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5176	Bimetallic coordination polymer as a promising anode material for lithium-ion batteries. <i>Chemical Communications</i> , 2016, 52, 2035-2038.	2.2	65
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5180	High performance and bifunctional cobalt-embedded nitrogen doped carbon/nanodiamond electrocatalysts for oxygen reduction and oxygen evolution reactions in alkaline media. <i>Journal of Power Sources</i> , 2016, 305, 64-71.	4.0	54
5181	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. <i>Nano Energy</i> , 2016, 19, 373-381.	8.2	597
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5186	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. <i>Nano Energy</i> , 2016, 19, 187-197.	8.2	148
5187	Interactions Between Electrolytes and Carbon-Based Materials—NMR Studies on Electrical Double-Layer Capacitors, Lithium-Ion Batteries, and Fuel Cells. <i>Annual Reports on NMR Spectroscopy</i> , 2016, , 237-318.	0.7	17
5188	Synthesis of three dimensional extended conjugated polyimide and application as sodium-ion battery anode. <i>Chemical Engineering Journal</i> , 2016, 287, 516-522.	6.6	90
5189	Perspectives in in situ transmission electron microscopy studies on lithium battery electrodes. <i>Current Opinion in Chemical Engineering</i> , 2016, 12, 37-43.	3.8	26
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5194	Underlying mechanisms of the synergistic role of Li_2MnO_3 and $\text{Li}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ in high-Mn, Li-rich oxides. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11411-11421.	1.3	22
5195	Investigation of new manganese orthophosphate $\text{Mn}_3(\text{PO}_4)_2$ coating for nickel-rich $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ cathode and improvement of its thermal properties. <i>Electrochimica Acta</i> , 2016, 198, 77-83.	2.6	117
5196	A graphene- SnO_2 - TiO_2 ternary nanocomposite electrode as a high stability lithium-ion anode material. <i>Journal of Alloys and Compounds</i> , 2016, 673, 144-148.	2.8	12
5197	Synthesis and electrochemical performance of hole-rich $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode material for lithium-ion secondary batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 93, 52-58.	1.9	12
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5199	Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. <i>Nature Nanotechnology</i> , 2016, 11, 626-632.	15.6	1,557
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5204	A methodical approach for fabrication of binder-free Li_2S -C composite cathode with high loading of active material for Li-S battery. <i>Carbon</i> , 2016, 103, 163-171.	5.4	45
5205	Analytical Model on Stress-Regulated Lithiation Kinetics and Fracture of Si-C Yolk-Shell Anodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A940-A946.	1.3	10
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5207	Individually carbon-coated and electrostatic-force-derived graphene-oxide-wrapped lithium titanium oxide nanofibers as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 199, 35-44.	2.6	29
5208	Mesoporous Hybrids of Reduced Graphene Oxide and Vanadium Pentoxide for Enhanced Performance in Lithium-Ion Batteries and Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9200-9210.	4.0	70
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5212	Li ₂ S@C composite incorporated into 3D reduced graphene oxide as a cathode material for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 313, 233-239.	4.0	57
5213	Microwave synthesis of SnS ₂ nanoflakes anchored graphene foam for flexible lithium-ion battery anodes with long cycling life. <i>Materials Letters</i> , 2016, 174, 24-27.	1.3	31
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5216	Reversible anion intercalation in a layered aromatic amine: a high-voltage host structure for organic batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6131-6139.	5.2	97
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5218	Performance Enhancement of Silicon Alloy-Based Anodes Using Thermally Treated Poly(amide imide) as a Polymer Binder for High Performance Lithium-Ion Batteries. <i>Langmuir</i> , 2016, 32, 3300-3307.	1.6	46
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5220	Full graphitization of amorphous carbon by microwave heating. <i>RSC Advances</i> , 2016, 6, 24667-24674.	1.7	73
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5223	Comprehensive Understanding of High Polar Polyacrylonitrile as an Effective Binder for Li-Ion Battery Nano-Si Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8154-8161.	4.0	64
5224	Electrochemistry and structure of Li-rich cathode composites: Li _{1.26} Fe _{0.22} Mn _{0.52} O ₂ in situ integrated with conductive network-graphene oxide for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 31762-31768.	1.7	10
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5226	Carbon-coated mesoporous silicon microsphere anodes with greatly reduced volume expansion. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6098-6106.	5.2	81
5227	Electrochemical Performance of Amorphous GeO _x Powder Synthesized by Oxidation of NaGe Serving as an Anode for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A552-A556.	1.3	10
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5230	Single-crystal LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ as high performance cathode materials for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 674, 360-367.	2.8	106
5231	In operando X-ray absorption spectroscopy study of charge rate effects on the atomic environment in graphene-coated Li-rich mixed oxide cathode. <i>Materials and Design</i> , 2016, 98, 231-242.	3.3	20
5232	Lithium iron silicate sol-gel synthesis and electrochemical investigation. <i>Journal of Alloys and Compounds</i> , 2016, 672, 93-97.	2.8	21
5233	Rational Design of NiCoO ₂ @SnO ₂ Heterostructure Attached on Amorphous Carbon Nanotubes with Improved Lithium Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6004-6010.	4.0	44
5234	Excellent cycling stability with high SnO ₂ loading on a three-dimensional graphene network for lithium ion batteries. <i>Carbon</i> , 2016, 102, 32-38.	5.4	73
5235	Biomass derived fabrication of a novel sea cucumber-like LiMn ₂ O ₄ /C composite with a hierarchical porous structure as the cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 188, 645-652.	2.6	18
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5237	Ag enhanced electrochemical performance for Na ₂ Li ₂ Ti ₆ O ₁₄ anode in rechargeable lithium-ion batteries. <i>Ceramics International</i> , 2016, 42, 6874-6882.	2.3	16
5238	Uniform Ni-rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Porous Microspheres: Facile Designed Synthesis and Their Improved Electrochemical Performance. <i>Electrochimica Acta</i> , 2016, 191, 401-410.	2.6	75
5239	Latest development of nanostructured Si/C materials for lithium anode studies and applications. <i>Energy Storage Materials</i> , 2016, 4, 1-14.	9.5	101
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5241	MoS ₂ nanosheets grown on amorphous carbon nanotubes for enhanced sodium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4375-4379.	5.2	78
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5244	A polytriphenylamine derivative exhibiting a four-electron redox center as a high free radical density organic cathode. <i>RSC Advances</i> , 2016, 6, 22989-22995.	1.7	15
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5246	Enhanced ionic conductivity and electrochemical capacity of lithium ion battery based on PVDF-HFP/HDPE membrane. <i>Materials Letters</i> , 2016, 170, 126-129.	1.3	40

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5248	Understanding oxygen reactions in aprotic Li-O ₂ batteries. <i>Chinese Physics B</i> , 2016, 25, 018204.	0.7	9
5249	Enhanced Li- and Na-storage in Sb-Graphene nanocomposite anodes. <i>Materials Research Bulletin</i> , 2016, 76, 338-343.	2.7	26
5250	1H,1H,5H-Perfluoropentyl-1,1,2,2-tetrafluoroethylether as a co-solvent for high voltage LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ /graphite cells. <i>Journal of Power Sources</i> , 2016, 307, 772-781.	4.0	30
5251	Hierarchical Carbon with High Nitrogen Doping Level: A Versatile Anode and Cathode Host Material for Long-Life Lithium-Ion and Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10274-10282.	4.0	49
5252	Fast Ion Conduction in Nanodimensional Lithium Silicate Glasses. <i>Journal of Physical Chemistry C</i> , 2016, 120, 431-436.	1.5	12
5253	Core-Shell Coating Silicon Anode Interfaces with Coordination Complex for Stable Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5358-5365.	4.0	60
5254	Facile synthesis of MnO ₂ /polypyrrole nanorods and their enhanced lithium-storage properties. <i>RSC Advances</i> , 2016, 6, 19952-19956.	1.7	18
5255	Natural graphite enhanced the electrochemical performance of LiV ₂ (PO ₄) ₃ cathode material for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 311-318.	1.2	16
5256	Efficient Fabrication of Hierarchically Porous Graphene-Derived Aerogel and Its Application in Lithium Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6072-6081.	4.0	54
5257	Effect of electrode manufacturing defects on electrochemical performance of lithium-ion batteries: Cognizance of the battery failure sources. <i>Journal of Power Sources</i> , 2016, 312, 70-79.	4.0	132
5258	LiCuS, an intermediate phase in the electrochemical conversion reaction of CuS with Li: A potential environment-friendly battery and solar cell material. <i>Solid State Sciences</i> , 2016, 55, 83-87.	1.5	9
5259	Self-Assembly of Polyethylene Glycol-Grafted Carbon Nanotube/Sulfur Composite with Nest-like Structure for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6061-6071.	4.0	42
5260	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co ₃ O ₄ as anode materials. <i>RSC Advances</i> , 2016, 6, 24320-24330.	1.7	25
5261	Mesoporous transition metal dichalcogenide ME ₂ (M = Mo, W; E = S, Se) with 2-D layered crystallinity as anode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 14253-14260.	1.7	52
5262	Communication XAFS Analysis of Discharge/Charge Reactions on the Li/CuCl ₂ Battery Cathode with LiPF ₆ /Methyl Difluoroacetate Electrolyte. <i>Journal of the Electrochemical Society</i> , 2016, 163, A727-A729.	1.3	2
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5266	Solvent-directed sol-gel assembly of 3-dimensional graphene-tented metal oxides and strong synergistic disparities in lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4032-4043.	5.2	19
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5269	Improved coulombic efficiency and cycleability of SnO ₂ •Cu/graphite composite anode with dual scale embedding structure. <i>RSC Advances</i> , 2016, 6, 13384-13391.	1.7	17
5270	Origin of the Ni/Mn ordering in high-voltage spinel LiNi _{0.5} Mn _{1.5} O ₄ : The role of oxygen vacancies and cation doping. <i>Computational Materials Science</i> , 2016, 115, 109-116.	1.4	57
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5272	Effects of stoichiometric maximum concentration on lithium diffusion and stress within an insertion electrode particle. <i>Materials and Design</i> , 2016, 92, 438-444.	3.3	4
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5274	Bimodal highly ordered mesostructure carbon with high activity for Br ₂ /Br ⁻ redox couple in bromine based batteries. <i>Nano Energy</i> , 2016, 21, 217-227.	8.2	79
5275	Study of nano-TiO ₂ composite polymer electrolyte incorporating ionic liquid PP12O1TFSI for lithium battery. <i>Solid State Ionics</i> , 2016, 286, 111-116.	1.3	15
5276	Designed Functional Systems for High-Performance Lithium-Ion Batteries Anode: From Solid to Hollow, and to Core-Shell NiCo ₂ O ₄ Nanoparticles Encapsulated in Ultrathin Carbon Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4745-4753.	4.0	48
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5278	The electrochemical behaviors of Li ₂ C ₈ H ₄ O ₆ and its corresponding organic acid C ₈ H ₆ O ₆ as anodes for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 74-79.	1.9	29
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5280	Ellipsoid-like Li ₄ Ti ₅ O ₁₂ •Ti ₂ composites constructed by nanocrystals for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 13505-13513.	1.7	14
5281	Optimized structure stability and electrochemical performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ by sputtering nanoscale ZnO film. <i>Journal of Power Sources</i> , 2016, 309, 20-26.	4.0	109
5282	A Core-Shell Si@NiSi ₂ /Ni/C Nanocomposite as an Anode Material for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2016, 192, 303-309.	2.6	36

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5285	Li ₂ S Film Formation on Lithium Anode Surface of Li-S batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4700-4708.	4.0	70
5286	Direct growth of an economic green energy storage material: a monocrystalline jarosite-KFe ₃ (SO ₄) ₂ (OH) ₆ -nanoplates@rGO hybrid as a superior lithium-ion battery cathode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3735-3742.	5.2	28
5287	A route to synthesis molybdenum disulfide-reduced graphene oxide (MoS ₂ -RGO) composites using supercritical methanol and their enhanced electrochemical performance for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 309, 202-211.	4.0	89
5288	Nanostructured nitrogen-doped mesoporous carbon derived from polyacrylonitrile for advanced lithium sulfur batteries. <i>Applied Surface Science</i> , 2016, 380, 151-158.	3.1	45
5289	High Performance Supercapacitors from Novel Metal-Doped Ceria-Decorated Aminated Graphene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3107-3116.	1.5	83
5290	Potential-Dependent Generation of O ₂ and LiO ₂ and Their Critical Roles in O ₂ Reduction to Li ₂ O ₂ in Aprotic Li-O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3690-3698.	1.5	149
5291	In Situ Chemical Synthesis of Lithium Fluoride/Metal Nanocomposite for High Capacity Prelithiation of Cathodes. <i>Nano Letters</i> , 2016, 16, 1497-1501.	4.5	112
5292	Electrospun polycrystalline Li Fe _{0.2} Mn _{0.8} PO ₄ /carbon composite fibers for lithium-ion battery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 495, 54-61.	2.3	9
5293	Toward Uniformly Dispersed Battery Electrode Composite Materials: Characteristics and Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3452-3463.	4.0	47
5294	Caterpillar structured Ni(OH) ₂ @MnO ₂ core/shell nanocomposite arrays on nickel foam as high performance anode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 15541-15548.	1.7	15
5295	Improvement of electrochemical performance for AlF ₃ -coated Li _{1.3} Mn ₄ /6Ni ₁ /6Co ₁ /6O _{2.40} cathode materials for Li-ion batteries. <i>Ionics</i> , 2016, 22, 1353-1359.	1.2	13
5296	High rate capacity nanocomposite lanthanum oxide coated lithium zinc titanate anode for rechargeable lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2016, 667, 82-90.	2.8	33
5297	One-Dimensional RuO ₂ /Mn ₂ O ₃ Hollow Architectures as Efficient Bifunctional Catalysts for Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2016, 16, 2076-2083.	4.5	193
5298	Porous Silicon-Carbon Composite Materials Engineered by Simultaneous Alkaline Etching for High-Capacity Lithium Storage Anodes. <i>Electrochimica Acta</i> , 2016, 196, 197-205.	2.6	37
5299	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 312, 216-222.	4.0	31
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5303	Potential-Resolved In Situ X-ray Absorption Spectroscopy Study of Sn and SnO ₂ Nanomaterial Anodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5331-5339.	1.5	57
5304	Ab Initio Prediction and Characterization of Mo ₂ C Monolayer as Anodes for Lithium-Ion and Sodium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 937-943.	2.1	334
5305	Bio-inspired synthesis of N,F co-doped 3D graphitized carbon foams containing manganese fluoride nanocrystals for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2691-2698.	5.2	42
5306	Facile synthesis of Fe@Fe ₂ O ₃ core-shell nanowires as O ₂ electrode for high-energy Li-O ₂ batteries. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1831-1836.	1.2	18
5307	Biopolymer hybrid electrodes for scalable electricity storage. <i>Materials Horizons</i> , 2016, 3, 174-185.	6.4	58
5308	Study on compositions and changes of SEI film of Li ₂ MnO ₃ positive material during the cycles. <i>Catalysis Today</i> , 2016, 274, 116-122.	2.2	16
5309	In Situ Reactive Assembly of Scalable Core-Shell Sulfur-MnO ₂ Composite Cathodes. <i>ACS Nano</i> , 2016, 10, 4192-4198.	7.3	351
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5311	Bruggeman's Exponents for Effective Thermal Conductivity of Lithium-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A119-A130.	1.3	44
5312	From Lithium-Oxygen to Lithium-Air Batteries: Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2016, 6, 1502164.	10.2	296
5313	Life Cycle Assessment and resource analysis of all-solid-state batteries. <i>Applied Energy</i> , 2016, 169, 757-767.	5.1	87
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5315	TiNb ₂ O ₇ /graphene composites as high-rate anode materials for lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4242-4251.	5.2	134
5316	Ionic liquid decorated mesoporous silica nanoparticles: a new high-performance hybrid electrolyte for lithium batteries. <i>Chemical Communications</i> , 2016, 52, 4369-4372.	2.2	51
5317	Co-modification of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials with zirconium substitution and surface polypyrrole coating: towards superior high voltage electrochemical performances for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 196, 101-109.	2.6	83
5318	Silicon- and carbon-based anode materials: Quantum-chemical modeling. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 48-54.	0.3	11

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5320	Suppression of irreversible capacity loss in Li-rich layered oxide by fluorine doping. <i>Journal of Power Sources</i> , 2016, 313, 65-72.	4.0	91
5321	Solid polymer electrolyte membranes based on organic/inorganic nanocomposites with star-shaped structure for high performance lithium ion battery. <i>Journal of Membrane Science</i> , 2016, 509, 138-148.	4.1	100
5322	Superlithiation of Organic Electrode Materials: The Case of Dilithium Benzenedipropiolate. <i>Chemistry of Materials</i> , 2016, 28, 1920-1926.	3.2	109
5323	Silicon nanoparticles grown on a reduced graphene oxide surface as high-performance anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 25159-25166.	1.7	25
5324	Effect of surface fluorine substitution on high voltage electrochemical performances of layered LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials. <i>Applied Surface Science</i> , 2016, 371, 172-179.	3.1	37
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5327	Comparison of two energy storage options for optimum balancing of wind farm power outputs. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 832-839.	1.4	34
5328	Preparation of nanostructured Ge/GeO ₂ composite in carbon matrix as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 188, 120-125.	2.6	35
5329	Effects of Operating Temperature on the Electrical Performance of a Li-air Battery operated with Ionic Liquid Electrolyte. <i>Electrochimica Acta</i> , 2016, 194, 317-329.	2.6	28
5330	Synthesis and electrochemical characterization of nano-sized Ag ₄ Sn particles as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 196, 597-602.	2.6	17
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5332	Understanding the mechanism of hydrogenated NiCo ₂ O ₄ nanograss supported on Ni foam for enhanced-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5198-5204.	5.2	64
5333	Comparison of amorphous, pseudohexagonal and orthorhombic Nb ₂ O ₅ for high-rate lithium ion insertion. <i>CrystEngComm</i> , 2016, 18, 2532-2540.	1.3	146
5334	Ultrafine SnO ₂ nanoparticles as a high performance anode material for lithium ion battery. <i>Ceramics International</i> , 2016, 42, 9433-9437.	2.3	63
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5336	Carbonate-assisted hydrothermal synthesis of porous hierarchical Co ₃ O ₄ /CuO composites as high capacity anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 197, 23-31.	2.6	43

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5338	Hierarchical carbon-coated acanthosphere-like Li ₄ Ti ₅ O ₁₂ microspheres for high-power lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 314, 18-27.	4.0	59
5339	Insight into the Vibrational and Thermodynamic Properties of Layered Lithium Transition-Metal Oxides LiMO ₂ (M = Co, Ni, Mn): A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5876-5882.	1.5	28
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5341	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. <i>ACS Nano</i> , 2016, 10, 3702-3713.	7.3	394
5342	Controlled construction of 3D hierarchical manganese fluoride nanostructures via an oleylamine-assisted solvothermal route with high performance for rechargeable lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 27170-27176.	1.7	10
5343	Temperature and Pressure Dependent Phase Transitions of $\text{LiZr}_2(\text{PO}_4)_3$ Studied by Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1971-1977.	1.1	15
5344	High-capacity organic cathode active materials of 2,2-bis-p-benzoquinone derivatives for rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5457-5466.	5.2	69
5345	Preparation of few-layer reduced graphene oxide-wrapped mesoporous Li ₄ Ti ₅ O ₁₂ spheres and its application as an anode material for lithium-ion batteries. <i>Chinese Chemical Letters</i> , 2016, 27, 1559-1562.	4.8	9
5346	Geometry and fast diffusion of AlCl ₄ cluster intercalated in graphite. <i>Electrochimica Acta</i> , 2016, 195, 158-165.	2.6	84
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5348	Lithium diffusion in graphene and graphite: Effect of edge morphology. <i>Carbon</i> , 2016, 103, 209-216.	5.4	53
5349	Mesoporous Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ nanotubes for high-performance cathodes in Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 311, 35-41.	4.0	68
5350	Rate performance enhanced Li/S batteries with a Li ion conductive gel-binder. <i>Solid State Ionics</i> , 2016, 289, 23-27.	1.3	9
5351	Materials and membrane technologies for water and energy sustainability. <i>Sustainable Materials and Technologies</i> , 2016, 7, 1-28.	1.7	279
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5356	Sodium-Oxygen Battery: Steps Toward Reality. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1161-1166.	2.1	86
5357	In Operando Identification of Geometrical-Site-Dependent Water Oxidation Activity of Spinel Co_3O_4 . <i>Journal of the American Chemical Society</i> , 2016, 138, 36-39.	6.6	787
5358	Novel 3-D network SeS ₂ /NCPAN composites prepared by one-pot in-situ solid-state method and its electrochemical performance as cathode material for lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2016, 664, 92-98.	2.8	28
5359	Enhancement of the oxygen evolution reaction in Mn ³⁺ -based electrocatalysts: correlation between Jahn-Teller distortion and catalytic activity. <i>RSC Advances</i> , 2016, 6, 2019-2023.	1.7	95
5360	A polyimide derivative containing different carbonyl groups for flexible lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2115-2121.	5.2	92
5361	Synthesis and electrochemical performances of $\text{Mn}_x\text{Co}_y\text{Ni}_z\text{CO}_3$. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1700-1707.	1.1	5
5362	Self-Volatilization Approach to Mesoporous Carbon Nanotube/Silver Nanoparticle Hybrids: The Role of Silver in Boosting Li Ion Storage. <i>ACS Nano</i> , 2016, 10, 1648-1654.	7.3	56
5363	Mesoporous Li ₄ Ti ₅ O ₁₂ nanoparticles synthesized by a microwave-assisted hydrothermal method for high rate lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016, 763, 45-50.	1.9	18
5364	Hierarchical nano-branched c-Si/SnO ₂ nanowires for high areal capacity and stable lithium-ion battery. <i>Nano Energy</i> , 2016, 19, 511-521.	8.2	52
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5366	Designed synthesis of nitrogen-rich carbon wrapped Sn nanoparticles hybrid anode via in-situ growth of crystalline ZIF-8 on a binary metal oxide. <i>Nano Energy</i> , 2016, 19, 486-494.	8.2	83
5367	Reaction mechanism studies towards effective fabrication of lithium-rich anti-perovskites Li ₃ OX (X=) <i>Journal of Materials Chemistry A</i> , 2016, 4, 1060-1067.	5.2	17
5368	Hollow Nanobarrels of Fe_2O_3 on Reduced Graphene Oxide as High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2027-2034.	4.0	84
5369	Facile synthesis of well-shaped spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ nanoparticles as cathode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 2785-2792.	1.7	32
5370	Study of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Morphological Features for Reduced Electrolyte Decomposition at High Potential. <i>Journal of the Electrochemical Society</i> , 2016, 163, A470-A476.	1.3	16
5371	Stable high-areal-capacity nanoarchitected germanium anodes on three-dimensional current collectors for Li ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1060-1067.	5.2	17
5372	A NiCo ₂ O ₄ nanosheet-mesoporous carbon composite electrode for enhanced reversible lithium storage. <i>Carbon</i> , 2016, 99, 633-641.	5.4	77

#	ARTICLE	IF	CITATIONS
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5375	NiSi _x /a-Si Nanowires with Interfacial a-Ge as Anodes for High-Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 673-679.	4.0	11
5376	Controllable synthesis of carbon-coated Sn ₂ SnO ₂ carbon-nanofiber membrane as advanced binder-free anode for lithium-ion batteries. Electrochimica Acta, 2016, 188, 661-670.	2.6	50
5377	Engineered nanomembranes for smart energy storage devices. Chemical Society Reviews, 2016, 45, 1308-1330.	18.7	167
5378	Remarkable anodic performance of lead titanate 1D nanostructures via in-situ irreversible formation of abundant Ti ³⁺ as conduction pathways. Nano Research, 2016, 9, 353-362.	5.8	7
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5381	Electrochemical properties of LiCoPO ₄ -thin film electrodes in LiF-based electrolyte solution with anion receptors. Journal of Power Sources, 2016, 306, 753-757.	4.0	29
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5385	Sodium modified molybdenum sulfide via molten salt electrolysis as an anode material for high performance sodium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 3204-3213.	1.3	49
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5387	Quasi-thermodynamic model on hydride formation in palladium–hydrogen thin films: Impact of elastic and microstructural constraints. International Journal of Hydrogen Energy, 2016, 41, 2727-2738.	3.8	49
5388	Solid Suspension Flow Batteries Using Earth Abundant Materials. ACS Applied Materials & Interfaces, 2016, 8, 1759-1765.	4.0	16
5389	Segmental Dynamics and Dielectric Constant of Polysiloxane Polar Copolymers as Plasticizers for Polymer Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 3215-3225.	4.0	73
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5392	Composite gel polymer electrolyte with modified silica for LiMn ₂ O ₄ positive electrode in lithium-ion battery. <i>Electrochimica Acta</i> , 2016, 190, 780-789.	2.6	11
5393	Facile synthesis of nickel-foam-based nano-architectural composites as binder-free anodes for high capacity Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 304, 311-318.	4.0	16
5394	Self-Assembled N/S Codoped Flexible Graphene Paper for High Performance Energy Storage and Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2078-2087.	4.0	113
5395	Hydroquinone Resin Induced Carbon Nanotubes on Ni Foam As Binder-Free Cathode for Li ⁺ /O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3868-3873.	4.0	33
5396	Free-Standing Si/Graphene Paper Using Si Nanoparticles Synthesized by Acid-Etching Al-Si Alloy Powder for High-Stability Li-Ion Battery Anodes. <i>Electrochimica Acta</i> , 2016, 188, 777-784.	2.6	73
5397	Facile Synthesis of Mesoporous Co ₃ O ₄ @Carbon Nanowires Array Nanocomposite for the Enhanced Lithium Storage. <i>Electrochimica Acta</i> , 2016, 190, 126-133.	2.6	25
5398	Interaction of a Self-Assembled Ionic Liquid Layer with Graphite(0001): A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 226-233.	2.1	68
5399	NASICON-Structured NaTi ₂ (PO ₄) ₃ @C Nanocomposite as the Low Operation-Voltage Anode Material for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2238-2246.	4.0	159
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5402	Understanding conversion mechanism of NiO anodic materials for Li-ion battery using in situ X-ray absorption near edge structure spectroscopy. <i>Journal of Power Sources</i> , 2016, 304, 189-195.	4.0	10
5403	TiS ₂ nanoplates: A high-rate and stable electrode material for sodium ion batteries. <i>Nano Energy</i> , 2016, 20, 168-175.	8.2	137
5404	What Happens Structurally and Electronically during the Li Conversion Reaction of CoFe ₂ O ₄ Nanoparticles: An Operando XAS and XRD Investigation. <i>Chemistry of Materials</i> , 2016, 28, 434-444.	3.2	63
5405	Suppressing the Phase Transition of the Layered Ni-Rich Oxide Cathode during High-Voltage Cycling by Introducing Low-Content Li ₂ MnO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1297-1308.	4.0	273
5406	Rechargeable Mg battery cathode TiS ₃ with d ⁶ p orbital hybridized electronic structures. <i>Applied Physics Express</i> , 2016, 9, 011801.	1.1	48
5407	The effect of polymorphism on the lithium storage performance of Li ₂ MnSiO ₄ . <i>Journal of Power Sources</i> , 2016, 306, 552-558.	4.0	24
5408	Controlled Prelithiation of Silicon Monoxide for High Performance Lithium-Ion Rechargeable Full Cells. <i>Nano Letters</i> , 2016, 16, 282-288.	4.5	386

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5410	Template-directed metal oxides for electrochemical energy storage. <i>Energy Storage Materials</i> , 2016, 3, 1-17.	9.5	50
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5412	Nitrogen-doped carbon decorated LiFePO ₄ composite synthesized via a microwave heating route using polydopamine as carbon-nitrogen precursor. <i>Ceramics International</i> , 2016, 42, 2789-2797.	2.3	34
5413	The effect of AlF ₃ modification on the physicochemical and electrochemical properties of Li-rich layered oxide. <i>Ceramics International</i> , 2016, 42, 5397-5402.	2.3	46
5414	Tucked flower-like SnS ₂ /Co ₃ O ₄ composite for high-performance anode material in lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 190, 843-851.	2.6	33
5415	Multiwall carbon nanotube-nickel cobalt oxide hybrid structure as high performance electrodes for supercapacitors and lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 190, 346-353.	2.6	49
5416	Capacitance of two-dimensional titanium carbide (MXene) and MXene/carbon nanotube composites in organic electrolytes. <i>Journal of Power Sources</i> , 2016, 306, 510-515.	4.0	245
5417	Structural Transformation of MXene (V ₂ C, Cr ₂ C, and Ta ₂ C) with O Groups during Lithiation: A First-Principles Investigation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 74-81.	4.0	159
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5419	Flexible conductive nanocellulose combined with silicon nanoparticles and polyaniline. <i>Carbohydrate Polymers</i> , 2016, 140, 43-50.	5.1	36
5420	Inorganic Solid-State Electrolytes for Lithium Batteries: Mechanisms and Properties Governing Ion Conduction. <i>Chemical Reviews</i> , 2016, 116, 140-162.	23.0	1,777
5421	Improvement of thermal stability and safety of lithium ion battery using SiO anode material. <i>Journal of Power Sources</i> , 2016, 304, 9-14.	4.0	28
5422	Binder-free graphene as an advanced anode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6886-6895.	5.2	79
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5424	Toward ambient temperature operation with all-solid-state lithium metal batteries with a sp boron-based solid single ion conducting polymer electrolyte. <i>Journal of Power Sources</i> , 2016, 306, 152-161.	4.0	73
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5428	Flexible paper electrodes constructed from Zn ₂ GeO ₄ nanofibers anchored with amorphous carbon for advanced lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 2055-2059.	5.2	21
5429	A non-isothermal transient model for a metal-free quinone-bromide flow battery. Electrochimica Acta, 2016, 190, 434-445.	2.6	21
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5434	Improving the electrochemical performance of high voltage spinel cathode at elevated temperature by a novel electrolyte additive. Journal of Power Sources, 2016, 303, 41-48.	4.0	62
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5439	Synthesis of pyrite/carbon shells on cobalt nanowires forming core/branch arrays as high-performance cathode for lithium ion batteries. Journal of Power Sources, 2016, 303, 35-40.	4.0	20
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5441	Mechanical interactions regulated kinetics and morphology of composite electrodes in Li-ion batteries. Extreme Mechanics Letters, 2016, 8, 13-21.	2.0	56
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5443	Synthesis and characterization of porous maghemite as an anode for Li-ion batteries. Ceramics International, 2016, 42, 4370-4376.	2.3	12
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5447	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. <i>Nano Research</i> , 2016, 9, 128-138.	5.8	64
5448	Comparative study on experiments and simulation of blended cathode active materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 187, 422-432.	2.6	48
5449	Nitrogen-doped porous carbon spheres anchored with Co ₃ O ₄ nanoparticles as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 187, 234-242.	2.6	83
5450	Understanding the effects of a multi-functionalized additive on the cathode-electrolyte interfacial stability of Ni-rich materials. <i>Journal of Power Sources</i> , 2016, 302, 431-438.	4.0	82
5451	Strong contribution of pore morphology to the high-rate electrochemical performance of lithium-ion batteries. <i>Chemical Communications</i> , 2016, 52, 803-806.	2.2	20
5452	Nitrogen-doped activated carbon for a high energy hybrid supercapacitor. <i>Energy and Environmental Science</i> , 2016, 9, 102-106.	15.6	910
5453	A superior low-cost amorphous carbon anode made from pitch and lignin for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 96-104.	5.2	322
5454	Rational design of SnO ₂ @C nanocomposites for lithium ion batteries by utilizing adsorption properties of MOFs. <i>Chemical Communications</i> , 2016, 52, 717-720.	2.2	69
5455	Nano-Sn embedded in expanded graphite as anode for lithium ion batteries with improved low temperature electrochemical performance. <i>Electrochimica Acta</i> , 2016, 187, 186-192.	2.6	91
5456	Microwave synthesized self-standing electrode of MoS ₂ nanosheets assembled on graphene foam for high-performance Li-Ion and Na-Ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 660, 11-16.	2.8	64
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5458	Controlled synthesis of graphitic carbon-encapsulated ±-Fe ₂ O ₃ nanocomposite via low-temperature catalytic graphitization of biomass and its lithium storage property. <i>Electrochimica Acta</i> , 2016, 187, 508-516.	2.6	58
5459	High-Performance P2-Phase Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 106-116.	3.2	192
5460	One-dimensional metal oxide-carbon hybrid nanostructures for electrochemical energy storage. <i>Nanoscale Horizons</i> , 2016, 1, 27-40.	4.1	119
5461	MoV ₂ O ₈ nanostructures: controlled synthesis and lithium storage mechanism. <i>Nanoscale</i> , 2016, 8, 508-516.	2.8	33
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5466	Novel amperometric xanthine biosensor based on xanthine oxidase immobilized on electrochemically polymerized 10-[4H-dithieno(3,2-b:2',3'-d)pyrrole-4-yl]decane-1-amine film. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 181-187.	4.0	46
5467	High Ionic Conductivity of Composite Solid Polymer Electrolyte via In Situ Synthesis of Monodispersed SiO ₂ Nanospheres in Poly(ethylene oxide). <i>Nano Letters</i> , 2016, 16, 459-465.	4.5	791
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5469	Improved cycle performance of LiMn ₂ O ₄ cathode material for aqueous rechargeable lithium battery by LaF ₃ coating. <i>Journal of Alloys and Compounds</i> , 2016, 654, 384-391.	2.8	84
5470	Lithium Batteries. , 2016, , .		114
5471	The high electrochemical performance of Li ₃ V ₂ (PO ₄) ₃ supported by graphene and carbon-nanofibers for advanced Li-ion batteries. <i>Materials Research Bulletin</i> , 2016, 73, 211-218.	2.7	15
5472	Divergent technological strategies among leading electric vehicle firms in China: Multiplicity of institutional logics and responses of firms. <i>Science and Public Policy</i> , 2016, 43, 492-504.	1.2	6
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5474	Composite electrolyte membranes incorporating viscous copolymers with cellulose for high performance lithium-ion batteries. <i>Journal of Membrane Science</i> , 2016, 497, 259-269.	4.1	66
5475	Pitch-derived amorphous carbon as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2016, 2, 139-145.	9.5	274
5476	Diffusion-induced stresses in an imperfect bilayer electrode of coin-shaped lithium-ion batteries. <i>European Journal of Mechanics, A/Solids</i> , 2016, 55, 167-180.	2.1	4
5477	Synthesis and lithium storage properties of MoS ₂ nanoparticles prepared using supercritical ethanol. <i>Chemical Engineering Journal</i> , 2016, 285, 517-527.	6.6	33
5478	Graphene oxide wrapped Na ₃ V ₂ (PO ₄) ₃ /C nanocomposite as superior cathode material for sodium-ion batteries. <i>Ceramics International</i> , 2016, 42, 820-827.	2.3	32
5479	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016, 8, 2613-2619.	2.8	33
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5483	The Na ₂ FeP ₂ O ₇ -carbon nanotubes composite as high rate cathode material for sodium ion batteries. <i>Journal of Power Sources</i> , 2016, 302, 61-69.	4.0	78
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5486	Corn stalk-derived activated carbon with a stacking sheet-like structure as sulfur cathode supporter for lithium/sulfur batteries. <i>Ionics</i> , 2016, 22, 63-69.	1.2	25
5487	Preparation and structural evolution of well aligned-carbon nanotube arrays onto conductive carbon-black layer/carbon paper substrate with enhanced discharge capacity for Li-air batteries. <i>Chemical Engineering Journal</i> , 2016, 283, 911-921.	6.6	17
5488	Lithium Iron Phosphate Powders and Coatings Obtained by Means of Inductively Coupled Thermal Plasma. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 357-364.	1.6	8
5489	Li ₄ Ti ₅ O ₁₂ and LiMn ₂ O ₄ thin-film electrodes on transparent conducting oxides for all-solid-state and electrochromic applications. <i>Journal of Power Sources</i> , 2016, 301, 35-40.	4.0	44
5490	Targeted synthesis of novel hierarchical sandwiched NiO/C arrays as high-efficiency lithium ion batteries anode. <i>Journal of Power Sources</i> , 2016, 301, 78-86.	4.0	77
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5492	Lithium cobalt oxide crystallization on flexible polyimide substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 631-636.	1.1	3
5493	Self-supported hierarchical hollow-branch cobalt oxide nanorod arrays as binder-free electrodes for high-performance lithium ion batteries. <i>Materials Letters</i> , 2016, 162, 101-104.	1.3	10
5494	Coordination environments and π -conjugation in dense lithium coordination polymers. <i>CrystEngComm</i> , 2016, 18, 398-406.	1.3	11
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5497	Advanced porous membranes with ultra-high selectivity and stability for vanadium flow batteries. <i>Energy and Environmental Science</i> , 2016, 9, 441-447.	15.6	265
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5500	Reactions at the electrode/electrolyte interface of all-solid-state lithium batteries incorporating Li ⁺ M (M = Sn, Si) alloy electrodes and sulfide-based solid electrolytes. <i>Solid State Ionics</i> , 2016, 285, 101-105.	1.3	94
5501	Methods of synthesis and performance improvement of lithium iron phosphate for high rate Li-ion batteries: A review. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 178-188.	2.0	86
5502	Second life of electric vehicle batteries: relation between materials degradation and environmental impact. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 82-93.	2.2	115
5503	Study on the impact of Fe ₂ P phase on the electrochemical performance of LiFePO ₄ . <i>Science and Engineering of Composite Materials</i> , 2017, 24, 23-27.	0.6	4
5504	Nanocarbon-intercalated and Fe ⁺ N-codoped graphene as a highly active noble-metal-free bifunctional electrocatalyst for oxygen reduction and evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1930-1934.	5.2	88
5505	A mixed-pH dual-electrolyte microfluidic aluminum ⁺ air cell with high performance. <i>Applied Energy</i> , 2017, 185, 1303-1308.	5.1	60
5506	Studies on cyclic voltammogram properties of SnO ₂ nanoflower. <i>Materials Research Innovations</i> , 2017, 21, 195-197.	1.0	1
5507	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. <i>Nano Research</i> , 2017, 10, 1268-1281.	5.8	43
5508	Controllable Synthesis of TiO ₂ @Fe ₂ O ₃ Core-Shell Nanotube Arrays with Double-Wall Coating as Superb Lithium-Ion Battery Anodes. <i>Scientific Reports</i> , 2017, 7, 40927.	1.6	55
5509	Single lithium-ion conducting solid polymer electrolytes: advances and perspectives. <i>Chemical Society Reviews</i> , 2017, 46, 797-815.	18.7	862
5510	Crystallographic-plane tuned Prussian-blue wrapped with RGO: a high-capacity, long-life cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3569-3577.	5.2	75
5511	Redox ⁺ Flow ⁺ Batterien: von metallbasierten zu organischen Aktivmaterialien. <i>Angewandte Chemie</i> , 2017, 129, 702-729.	1.6	89
5512	Synthesis of Three-Dimensional Nanoporous Li-Rich Layered Cathode Oxides for High Volumetric and Power Energy Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3661-3666.	4.0	50
5513	Amino group enhanced phenazine derivatives as electrode materials for lithium storage. <i>Chemical Communications</i> , 2017, 53, 2914-2917.	2.2	81
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5516	Sodium ⁺ Ion Batteries: Improving the Rate Capability of 3D Interconnected Carbon Nanofibers Thin Film by Boron, Nitrogen Dual ⁺ Doping. <i>Advanced Science</i> , 2017, 4, 1600468.	5.6	164

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5529	A bipolar nitronyl nitroxide small molecule for an all-organic symmetric redox-flow battery. <i>NPG Asia Materials</i> , 2017, 9, e340-e340.	3.8	66
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5609	Activated hard carbon from orange peel for lithium/sodium ion battery anode with long cycle life. <i>Journal of Alloys and Compounds</i> , 2017, 701, 870-874.	2.8	131
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5789	Hierarchically branched TiO ₂ @SnO ₂ nanofibers as high performance anodes for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2017, 96, 405-412.	2.7	24
5790	Toward ultrafast lithium ion capacitors: A novel atomic layer deposition seeded preparation of Li ₄ Ti ₅ O ₁₂ /graphene anode. <i>Nano Energy</i> , 2017, 36, 46-57.	8.2	138
5791	High Ion Conducting Nanohybrid Solid Polymer Electrolytes <i>via</i> Single-Ion Conducting Mesoporous Organosilica in Poly(ethylene oxide). <i>Chemistry of Materials</i> , 2017, 29, 4401-4410.	3.2	67
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5797	Functional metal-organic framework boosting lithium metal anode performance via chemical interactions. <i>Chemical Science</i> , 2017, 8, 4285-4291.	3.7	164
5798	Enhanced storage of sodium ions in Prussian blue cathode material through nickel doping. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9604-9610.	5.2	95
5799	Atomic-Scale Structure-Property Relationships in Lithium Ion Battery Electrode Materials. <i>Annual Review of Materials Research</i> , 2017, 47, 175-198.	4.3	23
5800	Electrochemical behavior of interconnected Ti ₂ Nb ₁₀ O ₂₉ nanoparticles for high-power Li-ion battery anodes. <i>Electrochimica Acta</i> , 2017, 236, 451-459.	2.6	42
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5802	A phenyl disulfide@CNT composite cathode for rechargeable lithium batteries. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1007-1012.	2.5	34
5803	Silicon Composite Electrodes with Dynamic Ionic Bonding. <i>Advanced Energy Materials</i> , 2017, 7, 1700045.	10.2	41
5804	Porous Si/C/reduced graphene oxide microspheres by spray drying as anode for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 16-22.	1.9	47
5805	Electron/Ion Sponge-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. <i>ACS Nano</i> , 2017, 11, 6911-6920.	7.3	95

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5936	Highly active and durable nitrogen doped-reduced graphene oxide/double perovskite bifunctional hybrid catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13019-13031.	5.2	45
5937	Strategies of constructing stable and high sulfur loading cathodes based on the blade-casting technique. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12879-12888.	5.2	38
5938	Hierarchical CuO octahedra inherited from copper metal-organic frameworks: high-rate and high-capacity lithium-ion storage materials stimulated by pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12828-12837.	5.2	80
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5946	Complete Prevention of Dendrite Formation in Zn Metal Anodes by Means of Pulsed Charging Protocols. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18691-18698.	4.0	130
5947	Stannate Increases Hydrogen Evolution Overpotential on Rechargeable Alkaline Iron Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1251-A1257.	1.3	14
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5949	Amorphous MnO ₂ as Cathode Material for Sodium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2017, 35, 1294-1298.	2.6	29

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5965	Exploration of $Cr_{0.2}Fe_{0.8}Nb_{11}O_{29}$ as an advanced anode material for lithium-ion batteries of electric vehicles. <i>Electrochimica Acta</i> , 2017, 245, 482-488.	2.6	35
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5967	Elaborate strategy for preparing $Li_4Ti_5O_{12}$ -based anode materials with significantly improved lithium storage: TiO_2 nanodots in-situ decoration and hierarchical structure construction. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 110, 49-57.	1.9	8

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5983	Facile preparation of quasi-coral-like SnO _x @C for improved lithium storage. <i>Materials Letters</i> , 2017, 202, 107-110.	1.3	16
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5992	Ionic conductivity promotion of polymer electrolyte with ionic liquid grafted oxides for all-solid-state lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12934-12942.	5.2	126
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5999	Electrochemical performance and interfacial investigation on Si composite anode for lithium ion batteries in full cell. <i>Journal of Power Sources</i> , 2017, 359, 173-181.	4.0	69
6000	Construct hierarchical electrode with $\text{Ni}_x\text{Co}_{3-x}\text{S}_4$ nanosheet coated on NiCo_2O_4 nanowire arrays grown on carbon fiber paper for high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2017, 359, 262-269.	4.0	117
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6005	High-performance reduced graphene oxide rGO red phosphorous composites anodes for lithium batteries and soft X-ray near-edge structure studies. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1178-1182.	0.6	2
6006	Morphological and Chemical Tuning of High-Energy-Density Metal Oxides for Lithium Ion Battery Electrode Applications. <i>ACS Energy Letters</i> , 2017, 2, 1465-1478.	8.8	56
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6010	Improved electrochemical performance of $\text{Li}_2\text{Fe}_{1-x}\text{Ce}_x\text{SiO}_4/\text{C}$ cathode material via cerium ions doping for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2017, 198, 83-89.	2.0	1
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6015	KCl-Modified Graphite as High Performance Anode Material for Lithium-Ion Batteries with Excellent Rate Performance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13052-13058.	1.5	22
6016	Anchoring Iodine to N-Doped Hollow Carbon Fold-Hemisphere: Toward a Fast and Stable Cathode for Rechargeable Lithium-Iodine Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20508-20518.	4.0	85
6017	Prussian Blue Analogue with Fast Kinetics Through Electronic Coupling for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20306-20312.	4.0	96
6018	Quantifying lithium in the solid electrolyte interphase layer and beyond using Lithium- Nuclear Reaction Analysis technique. <i>Journal of Power Sources</i> , 2017, 360, 129-135.	4.0	12
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6020	A novel porous reduced microcrystalline graphene oxide supported $\text{Fe}_3\text{O}_4/\text{C}$ nanoparticle composite as anode material with excellent lithium storage performances. <i>Chemical Engineering Journal</i> , 2017, 326, 507-517.	6.6	34
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6023	Network type sp ³ boron-based single-ion conducting polymer electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2017, 360, 98-105.	4.0	59
6024	Recycled tetrahedron-like CuCl from waste Cu scraps for lithium ion battery anode. <i>Waste Management</i> , 2017, 65, 147-152.	3.7	20
6025	Robust Benzimidazole-Based Electrolyte Overcomes High-Voltage and High-Temperature Applications in 5 V Class Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 5537-5549.	3.2	31
6026	Two-dimensional heterostructures for energy storage. <i>Nature Energy</i> , 2017, 2, .	19.8	747
6027	A Toolbox for Lithium-Sulfur Battery Research: Methods and Protocols. <i>Small Methods</i> , 2017, 1, 1700134.	4.6	230
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6035	Negative Electrode Comprised of Nanostructured CuO for Advanced Lithium Ion Batteries. <i>Journal of Cluster Science</i> , 2017, 28, 1595-1604.	1.7	14
6036	NbSe ₃ nanobelts wrapped by reduced graphene oxide for lithium ion battery with enhanced electrochemical performance. <i>Applied Surface Science</i> , 2017, 412, 113-120.	3.1	11
6037	Novel gel polymer electrolyte based on matrix of PMMA modified with polyhedral oligomeric silsesquioxane. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2291-2299.	1.2	14
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6041	A new $\text{Na}[(\text{FSO})_2(\text{n-C}_4\text{F}_9\text{SO}_2)\text{N}]$ -based polymer electrolyte for solid-state sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7738-7743.	5.2	76
6042	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramic nanowires. <i>Nature Energy</i> , 2017, 2, .	19.8	763
6043	Fabrication of new conductive gels by tuning the macromolecular architectures using fluorinated acrylates. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017, 54, 249-254.	1.2	1
6044	Hierarchical Porous Carbon Spheres for High-Performance NaO_2 Batteries. <i>Advanced Materials</i> , 2017, 29, 1606816.	11.1	81
6045	Novel Methods for Sodium-Ion Battery Materials. <i>Small Methods</i> , 2017, 1, 1600063.	4.6	84
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6048	Highly Crumpled Hybrids of Nitrogen/Sulfur Dual-Doped Graphene and Co_9S_8 Nanoplates as Efficient Bifunctional Oxygen Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12340-12347.	4.0	105
6049	More Reliable Lithium-Sulfur Batteries: Status, Solutions and Prospects. <i>Advanced Materials</i> , 2017, 29, 1606823.	11.1	1,414
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6051	Facile Synthesis of Rod-like Cu_2Se and Insight into its Improved Lithium-Storage Property. <i>ChemSusChem</i> , 2017, 10, 2235-2241.	3.6	43
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6053	A facile synthetic strategy to three-dimensional porous ZnCo_2O_4 thin films on Ni foams for high-performance lithium-ion battery anodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 787, 158-162.	1.9	19
6054	A 3-D binder-free nanoporous anode for a safe and stable charging of lithium ion batteries. <i>Materials Research Bulletin</i> , 2017, 93, 1-8.	2.7	21
6055	Core-shell MoO_2/C nanospheres embedded in bubble sheet-like carbon film as lithium ion Battery anodes. <i>Materials Letters</i> , 2017, 199, 139-142.	1.3	7
6056	Core-shell Si/Cu nanocomposites synthesized by self-limiting surface reaction as anodes for lithium ion batteries. <i>Functional Materials Letters</i> , 2017, 10, 1750025.	0.7	10
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6061	A bifunctional ion-electron conducting interlayer for high energy density all-solid-state lithium-sulfur battery. <i>Journal of Power Sources</i> , 2017, 351, 17-25.	4.0	45
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6064	Evaporation induced nanoparticle binder interaction in electrode film formation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10051-10061.	1.3	13
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6069	Tunneled Mesoporous Carbon Nanofibers with Embedded ZnO Nanoparticles for Ultrafast Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12478-12485.	4.0	95
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6072	Research Update: Fast and tunable nanoionics in vertically aligned nanostructured films. <i>APL Materials</i> , 2017, 5, .	2.2	35
6073	High-capacity sodium ion battery anodes based on CuO nanosheets and carboxymethyl cellulose binder. <i>Materials Technology</i> , 2017, 32, 598-605.	1.5	26
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6082	Nitrogen-Doped Hollow Carbon Nanospheres for High-Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14180-14186.	4.0	97
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6198	Long-Lasting Nb ₂ O ₅ -Based Nanocomposite Materials for Li-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2267-2274.	4.0	75
6199	Thin flexible lithium-ion battery featuring graphite paper based current collectors with enhanced conductivity. <i>Canadian Journal of Chemistry</i> , 2017, 95, 169-173.	0.6	17
6200	Challenges and potential advantages of membranes in lithium air batteries: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1114-1129.	8.2	51
6201	Electrochemical properties of Sn/C nanoparticles fabricated by redox treatment and pulsed wire evaporation method. <i>Applied Surface Science</i> , 2017, 415, 14-18.	3.1	6

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6203	Effects of binders on electrochemical properties of the SnS ₂ nanostructured anode of the lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 698, 828-834.	2.8	38
6204	A novel strategy to prepare Ge@C/rGO hybrids as high-rate anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2017, 342, 521-528.	4.0	50
6205	Ammonium Additives to Dissolve Lithium Sulfide through Hydrogen Binding for High-Energy Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4290-4295.	4.0	74
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6210	Synthesis and electrochemical properties of FeCO ₃ with different morphology for lithium-ion battery application. <i>Journal of Alloys and Compounds</i> , 2017, 698, 87-93.	2.8	23
6211	Carbon-coated vanadium selenide as anode for lithium-ion batteries and sodium-ion batteries with enhanced electrochemical performance. <i>Materials Letters</i> , 2017, 189, 152-155.	1.3	38
6212	Interconnected Ni(HCO ₃) ₂ Hollow Spheres Enabled by Self-Sacrificial Templating with Enhanced Lithium Storage Properties. <i>ACS Energy Letters</i> , 2017, 2, 111-116.	8.8	108
6213	Freestanding hollow double-shell Se@CN _x nanobelts as large-capacity and high-rate cathodes for Li-Se batteries. <i>Nano Energy</i> , 2017, 32, 1-9.	8.2	108
6214	CoO-Co nanocomposite anode with enhanced electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 224, 90-95.	2.6	56
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6221	Rechargeable Sodium All-Solid-State Battery. <i>ACS Central Science</i> , 2017, 3, 52-57.	5.3	332
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6235	Low-cost and high-performance electrode materials based on BiCoO ₃ microspheres. <i>Ceramics International</i> , 2017, 43, 2956-2961.	2.3	4
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6252	Coir Pith Derived Bio-carbon: Demonstration of Potential Anode Behavior in Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2017, 225, 143-150.	2.6	50
6253	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017, 17, 544-550.	4.5	356
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6258	Amorphous ZnO Quantum Dot/Mesoporous Carbon Bubble Composites for a High-Performance Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 439-446.	4.0	77
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6271	Preparation of 3D Architecture Graphdiyne Nanosheets for High-Performance Sodium-Ion Batteries and Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40604-40613.	4.0	91
6272	Formation of Stable Solid-Electrolyte Interphase Layer on Few-Layer Graphene-Coated Silicon Nanoparticles for High-Capacity Li-Ion Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26155-26162.	1.5	20
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6275	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2017, 42, 205-214.	8.2	183
6276	Rapidly Synthesized, Few-Layered Pseudocapacitive SnS ₂ Anode for High-Power Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40187-40196.	4.0	102
6277	Design and Comparative Study of O3/P2 Hybrid Structures for Room Temperature Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40215-40223.	4.0	95
6278	Hydrogen substituted graphdiyne as carbon-rich flexible electrode for lithium and sodium ion batteries. <i>Nature Communications</i> , 2017, 8, 1172.	5.8	357
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6284	Hydrothermal synthesis of antimony oxychlorides submicron rods as anode materials for lithium-ion batteries and sodium-ion batteries. <i>Electrochimica Acta</i> , 2017, 254, 246-254.	2.6	47
6285	Redox-Active Polymers for Energy Storage Nanoarchitectonics. <i>Joule</i> , 2017, 1, 739-768.	11.7	400
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6287	Self-assembled three-dimensional graphene/polyaniline/polyoxometalate hybrid as cathode for improved rechargeable lithium ion batteries. <i>Materials Today Energy</i> , 2017, 6, 53-64.	2.5	38
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6291	Synthesis and electrochemical property of amorphous carbon nanotubes wrapped sulfur particles as cathode material for lithium-sulfur batteries. <i>Chemical Physics Letters</i> , 2017, 688, 59-65.	1.2	7
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6295	Beryllium doped graphene as an efficient anode material for lithium-ion batteries with significantly huge capacity: A DFT study. <i>Applied Materials Today</i> , 2017, 9, 333-340.	2.3	84
6296	Insight into the effects of conductive PANI layer on $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanofibers anode for lithium-ion batteries. <i>Solid State Ionics</i> , 2017, 311, 52-57.	1.3	9
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6298	Internal short circuit mitigation of high-voltage lithium-ion batteries with functional current collectors. <i>RSC Advances</i> , 2017, 7, 45662-45667.	1.7	11
6299	Surface/Interfacial Structure and Chemistry of High-Energy Nickel-Rich Layered Oxide Cathodes: Advances and Perspectives. <i>Small</i> , 2017, 13, 1701802.	5.2	228
6300	Hybrid LiMn_2O_4 radical polymer cathodes for pulse power delivery applications. <i>Electrochimica Acta</i> , 2017, 255, 442-448.	2.6	16
6301	Material and Structural Design of Novel Binder Systems for High-Energy, High-Power Lithium-Ion Batteries. <i>Accounts of Chemical Research</i> , 2017, 50, 2642-2652.	7.6	261
6302	Mesoporous $\text{Mn}_3\text{O}_4/\text{C}$ Microspheres Fabricated from MOF Template as Advanced Lithium-Ion Battery Anode. <i>Crystal Growth and Design</i> , 2017, 17, 5881-5886.	1.4	60
6303	$\text{VS}_2/\text{Graphene}$ Heterostructures as Promising Anode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24179-24184.	1.5	73
6304	Local Structures and Li Ion Dynamics in a $\text{Li}_{10}\text{SnP}_2\text{S}_{12}$ -Based Composite Observed by Multinuclear Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23370-23376.	1.5	30
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6308	A strategy of selective and dendrite-free lithium deposition for lithium batteries. <i>Nano Energy</i> , 2017, 42, 262-268.	8.2	90
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6314	Rapidly annealed nanoporous graphene materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23720-23726.	5.2	13
6315	Redox-active cathode interphases in solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22750-22760.	5.2	206
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6319	Size effect in nanocrystalline lithium-ion conducting perovskite: Li _{0.30} La _{0.57} TiO ₃ . <i>Solid State Ionics</i> , 2017, 310, 38-43.	1.3	31
6320	Lithium Azide as an Electrolyte Additive for All-Solid-State Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15368-15372.	7.2	213
6321	Enhanced electrochemical performance of lithium rich layered cathode materials by Ca ²⁺ substitution. <i>Electrochimica Acta</i> , 2017, 256, 10-18.	2.6	39
6322	Hierarchically structural TiO ₂ nanorods composed of rutile core and anatase shell as a durable anode material for lithium-ion intercalation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 804, 87-91.	1.9	12
6323	Polytriphenylamine derivative with enhanced electrochemical performance as the organic cathode material for rechargeable batteries. <i>Polymer</i> , 2017, 130, 135-142.	1.8	21
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6327	Chemical Intercalation of Topological Insulator Grid Nanostructures for High-Performance Transparent Electrodes. <i>Advanced Materials</i> , 2017, 29, 1703424.	11.1	21
6328	Lithium Azide as an Electrolyte Additive for All-Solid-State Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017, 129, 15570-15574.	1.6	12
6329	Group IVA Element (Si, Ge, Sn)-Based Alloying/Dealloying Anodes as Negative Electrodes for Full-Cell Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1702000.	5.2	163

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6330	Carbon-Encapsulated Sn@N-Doped Carbon Nanotubes as Anode Materials for Application in SIBs. ACS Applied Materials & Interfaces, 2017, 9, 37682-37693.	4.0	52
6331	Highly stable lithium ion capacitor enabled by hierarchical polyimide derived carbon microspheres combined with 3D current collectors. Journal of Materials Chemistry A, 2017, 5, 23283-23291.	5.2	94
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6745	Polymer-Rich Composite Electrolytes for All-Solid-State Li ⁺ S Cells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3473-3477.	2.1	106
6746	Transportation Safety of Lithium Iron Phosphate Batteries - A Feasibility Study of Storing at Very Low States of Charge. <i>Scientific Reports</i> , 2017, 7, 5128.	1.6	19
6747	Facile synthesis of Co ₉ S ₈ nanosheets for lithium ion batteries with enhanced rate capability and cycling stability. <i>New Journal of Chemistry</i> , 2017, 41, 9184-9191.	1.4	24
6748	A Safe Electrolyte Based on Propylene Carbonate and Non-Flammable Hydrofluoroether for High-Performance Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1991-A1999.	1.3	33
6749	The Role of Solvating 12-Crown-4 Plasticizer on Dielectric Constant and Ion Conduction of Poly(ethylene oxide) Single-Ion Conductors. <i>Macromolecules</i> , 2017, 50, 5582-5591.	2.2	32
6750	Improvement of the Cathode Electrolyte Interphase on P ₂ -Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26518-26530.	4.0	154
6751	Hollow and microporous triphenylamine networks post-modified with TCNE for enhanced organocathode performance. <i>Chemical Communications</i> , 2017, 53, 8778-8781.	2.2	37
6752	3D graphene-encapsulated Li ₃ V ₂ (PO ₄) ₃ microspheres as a high-performance cathode material for energy storage. <i>Journal of Alloys and Compounds</i> , 2017, 723, 873-879.	2.8	26
6753	Achieving high capacity and rate capability in layered lithium transition metal oxide cathodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 360, 575-584.	4.0	20
6754	Enhanced electrochemical performance of MoO ₃ -coated LiMn ₂ O ₄ cathode for rechargeable lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2017, 199, 203-208.	2.0	17
6755	Probing Lithium Storage Mechanism of MoO ₂ Nanoflowers with Rich Oxygen-Vacancy Grown on Graphene Sheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15589-15596.	1.5	41
6756	Graphene enhanced anchoring of nanosized Co ₃ O ₄ particles on carbon fiber cloth as free-standing anode for lithium-ion batteries with superior cycling stability. <i>Electrochimica Acta</i> , 2017, 247, 125-131.	2.6	44
6757	In-situ self-polymerization restriction to form core-shell LiFePO ₄ /C nanocomposite with ultrafast rate capability for high-power Li-ion batteries. <i>Nano Energy</i> , 2017, 39, 346-354.	8.2	58
6758	Solid polymer electrolyte based on thermoplastic polyurethane and its application in all-solid-state lithium ion batteries. <i>Solid State Ionics</i> , 2017, 309, 15-21.	1.3	37
6759	Metal-organic chemical vapor deposition enabling all-solid-state Li-ion microbatteries: A short review. <i>Journal of Electroceramics</i> , 2017, 38, 230-247.	0.8	24
6760	Facile synthesis of Cu ₂ O nanorod arrays on Cu foam as a self-supporting anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 723, 172-178.	2.8	33
6761	Phase Transformations During Li-Insertion into V ₂ O ₅ at Elevated Temperature. <i>Jom</i> , 2017, 69, 1509-1512.	0.9	3

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6764	The formation and electrochemical property of lithium-excess cathode material $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54}\text{O}_2$ with petal-like nanoplate microstructure. Ionics, 2017, 23, 2285-2291.	1.2	2
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6784	Preparation and electrochemical properties of nanocable-like Nb ₂ O ₅ /surface-modified carbon nanotubes composites for anode materials in lithium ion batteries. <i>Electrochimica Acta</i> , 2017, 246, 1088-1096.	2.6	99
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6786	Thermal analysis of nickel cobalt lithium manganese with varying nickel content used for lithium ion batteries. <i>Thermochimica Acta</i> , 2017, 655, 176-180.	1.2	53
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6802	Synthesis and Electrochemical Properties of Molybdenum Disulfide/Carbon Microsphere Composite. <i>Journal of Electronic Materials</i> , 2017, 46, 1079-1087.	1.0	9
6803	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. <i>Nano Research</i> , 2017, 10, 426-436.	5.8	42
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6806	Hierarchically porous nitrogen-doped graphene aerogels as efficient metal-free oxygen reduction catalysts. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 317-321.	5.0	27
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6810	Free-standing electrodes composed of carbon-coated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanosheets and reduced graphene oxide for advanced sodium ion batteries. <i>Journal of Power Sources</i> , 2017, 337, 180-188.	4.0	61
6811	Orderly integration of porous $\text{TiO}_2(\text{B})$ nanosheets into bunchy hierarchical structure for high-rate and ultralong-lifespan lithium-ion batteries. <i>Nano Energy</i> , 2017, 31, 1-8.	8.2	109
6812	Designing Sandwiched and Crystallized $\text{NiMn}_2\text{O}_4/\text{C}$ Arrays for Enhanced Sustainable Electrochemical Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 196-205.	3.2	31
6813	Enhancing Electrochemical Performance of LiMn_2O_4 Cathode Material at Elevated Temperature by Uniform Nanosized TiO_2 Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 640-647.	3.2	54
6814	Nitrogen-Doped Mesoporous Carbon-Encapsulated MoO_2 Nanobelts as a High-Capacity and Stable Host for Lithium-Ion Storage. <i>Chemistry - an Asian Journal</i> , 2017, 12, 36-40.	1.7	20
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6818	Substrate dependent morphological and electrochemical properties of V ₂ O ₅ thin films prepared by spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2385-2391.	1.1	7
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6823	Electrochemical studies on composite gel polymer electrolytes for lithium sulfur batteries. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	43
6824	A sliced orange-shaped ZnCo ₂ O ₄ material as anode for high-performance lithium ion battery. <i>Energy Storage Materials</i> , 2017, 6, 61-69.	9.5	71
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6830	Flexible Bismuth Selenide /Graphene composite paper for lithium-ion batteries. <i>Ceramics International</i> , 2017, 43, 1437-1442.	2.3	41
6831	Evolution of Useless Iron Rust into Uniform Fe ₂ O ₃ Nanospheres: A Smart Way to Make Sustainable Anodes for Hybrid Ni-Fe Cell Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 269-276.	3.2	38
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6833	Materials™ Methods: NMR in Battery Research. <i>Chemistry of Materials</i> , 2017, 29, 213-242.	3.2	279

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6836	VS 4 nanoparticles rooted by a-C coated MWCNTs as an advanced anode material in lithium ion batteries. <i>Energy Storage Materials</i> , 2017, 6, 149-156.	9.5	126
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6841	In situ electron holography of electric potentials inside a solid-state electrolyte: Effect of electric-field leakage. <i>Ultramicroscopy</i> , 2017, 178, 20-26.	0.8	36
6842	Manganese Cobalt Oxide (MnCo ₂ O ₄) Hollow Spheres as High Capacity Anode Materials for Lithium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 293-299.	1.8	41
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6853	Exceptional energy and new insight with a sodium-selenium battery based on a carbon nanosheet cathode and a pseudographite anode. <i>Energy and Environmental Science</i> , 2017, 10, 153-165.	15.6	184
6854	Hollow mesoporous hetero-NiCo ₂ S ₄ /Co ₉ S ₈ submicro-spindles: unusual formation and excellent pseudocapacitance towards hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 133-144.	5.2	249
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6856	Potassium Secondary Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4404-4419.	4.0	721
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6860	Synthesis and modification of FeVO ₄ as novel anode for lithium-ion batteries. <i>Applied Surface Science</i> , 2017, 394, 183-189.	3.1	54
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6864	Nanoscale structural oscillations in perovskite oxides induced by oxygen evolution. <i>Nature Materials</i> , 2017, 16, 121-126.	13.3	149
6865	Materials for Electrodes of Li-Ion Batteries: Issues Related to Stress Development. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2017, 42, 218-238.	6.8	17
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6869	Carbon fiber-incorporated sulfur/carbon ternary cathode for lithium-sulfur batteries with enhanced performance. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1203-1210.	1.2	22
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6874	An enhanced poly(vinylidene fluoride) matrix separator with high density polyethylene for good performance lithium ion batteries. Journal of Solid State Electrochemistry, 2017, 21, 919-925.	1.2	19
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7026	A bifunctional electrolyte additive for $\text{H}_2\text{O}/\text{HF}$ scavenging and enhanced graphite/ $\text{LiNi}_0.5\text{Co}_0.2\text{Mn}_0.3\text{O}_2$ cell performance at a high voltage. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1481-1490.	2.5	36
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7028	Effect of LiFSI Concentrations To Form Thickness- and Modulus-Controlled SEI Layers on Lithium Metal Anodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9825-9834.	1.5	131
7029	New P2-Type Honeycomb-Layered Sodium-Ion Conductor: $\text{Na}_2\text{Mg}_2\text{TeO}_6$. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15760-15766.	4.0	44
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7031	Performance of EMIMFSI ionic liquid based gel polymer electrolyte in rechargeable lithium metal batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 137-145.	2.9	38
7032	Dual Carbon-Confined SnO_2 Hollow Nanospheres Enabling High Performance for the Reversible Storage of Alkali Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15642-15651.	4.0	87

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7034	Aqueous rechargeable zinc/sodium vanadate batteries with enhanced performance from simultaneous insertion of dual carriers. <i>Nature Communications</i> , 2018, 9, 1656.	5.8	1,162
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7038	Lithium diffusion in Li_5FeO_4 . <i>Scientific Reports</i> , 2018, 8, 5832.	1.6	36
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7048	The structure-electrochemical property relationship of quinone electrodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13478-13484.	1.3	59
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7052	A Novel High-Capacity Anode Material Derived from Aromatic Imides for Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1704094.	5.2	26
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7126	Correlating electrocatalytic oxygen reduction activity with d-band centers of metallic nanoparticles. <i>Energy Storage Materials</i> , 2018, 13, 189-198.	9.5	40
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7176	Microstructure Evolution and Conversion Mechanism of Mn ₃ O ₄ under Electrochemical Cyclings. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2475-2480.	1.5	11
7177	Carbon Nanotube Web with Carboxylated Polythiophene Assist for High-Performance Battery Electrodes. <i>ACS Nano</i> , 2018, 12, 3126-3139.	7.3	51
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7239	Binder-free anode with porous Si/Cu architecture for lithium-ion batteries. <i>Scripta Materialia</i> , 2018, 146, 304-307.	2.6	15
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7257	Novel scalable synthesis of porous silicon/carbon composite as anode material for superior lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 739, 510-517.	2.8	31
7258	Recent advances in direct ink writing of electronic components and functional devices. <i>Progress in Additive Manufacturing</i> , 2018, 3, 65-86.	2.5	67
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7262	Power supplies and equipment for military field research: lessons from the British Service Dhaulagiri Research Expedition 2016. <i>Journal of the Royal Army Medical Corps</i> , 2018, 164, 41-45.	0.8	1
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7265	Electrochemically tuned cobalt hydroxide carbonate with abundant grain boundaries for highly efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 369-375.	3.2	10
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7271	Supercapacitors based on AC/MnO ₂ deposited onto dip-coated carbon nanofiber cotton fabric electrodes. <i>Energy Storage Materials</i> , 2018, 12, 204-215.	9.5	72
7272	Influence of the manganese and cobalt content on the electrochemical performance of P2-Na _{0.67} Mn _x Co _{1-x} O ₂ cathodes for sodium-ion batteries. <i>Dalton Transactions</i> , 2018, 47, 1223-1232.	1.6	36
7273	Facile Synthesis of Blocky SiO _x /C with Graphite-Like Structure for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705235.	7.8	260
7274	Redox-Active Separators for Lithium-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1700663.	5.6	48
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7276	Electrochemical behavior of Bi ₄ B ₂ O ₉ towards lithium-reversible conversion reactions without nanosizing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2330-2338.	1.3	9
7277	Synthesis of open helmet-like carbon skeletons for application in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3877-3883.	5.2	28
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7279	Recent Progress in Porous Graphene and Reduced Graphene Oxide-Based Nanomaterials for Electrochemical Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701212.	1.9	95
7280	Tuning Redox Transitions via Inductive Effect in Metal Oxides and Complexes, and Implications in Oxygen Electrocatalysis. <i>Joule</i> , 2018, 2, 225-244.	11.7	283
7281	A Conductive Binder for High-Performance Sn Electrodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1672-1677.	4.0	40
7282	Embedding MnO@Mn ₃ O ₄ Nanoparticles in an N-Doped Carbon Framework Derived from Mn-Organic Clusters for Efficient Lithium Storage. <i>Advanced Materials</i> , 2018, 30, 1704244.	11.1	374
7283	Spray-Drying-Induced Assembly of Skeleton-Structured SnO ₂ /Graphene Composite Spheres as Superior Anode Materials for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2515-2525.	4.0	85
7284	Design of structural and functional nanomaterials for lithium-sulfur batteries. <i>Nano Today</i> , 2018, 18, 35-64.	6.2	110
7285	Microwave-assisted synthesis of palladium nanoparticles intercalated nitrogen doped reduced graphene oxide and their electrocatalytic activity for direct-ethanol fuel cells. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 160-171.	5.0	91
7286	Secondary-Phase Stochastics in Lithium-Ion Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6317-6326.	4.0	120
7287	Do imaging techniques add real value to the development of better post-Li-ion batteries?. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3304-3327.	5.2	36

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7289	Synthesis of Si nanosheets by using Sodium Chloride as template for high-performance lithium-ion battery anode material. <i>Journal of Power Sources</i> , 2018, 379, 20-25.	4.0	51
7290	High-Capacity Cathode Material with High Voltage for Li-ion Batteries. <i>Advanced Materials</i> , 2018, 30, 1705575.	11.1	333
7291	Ion Conduction and Viscoelastic Response of Epoxy-Based Solid Polymer Electrolytes Containing Solvating Plastic Crystal Plasticizer. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700514.	1.1	23
7292	Nickel-foam-supported ruthenium oxide/graphene sandwich composite constructed via one-step electrodeposition route for high-performance aqueous supercapacitors. <i>Applied Surface Science</i> , 2018, 439, 612-622.	3.1	24
7293	A yolk-shell V_2O_5 structure assembled from ultrathin nanosheets and coralline-shaped carbon as advanced electrodes for a high-performance asymmetric supercapacitor. <i>Dalton Transactions</i> , 2018, 47, 2256-2265.	1.6	44
7294	Structural evolution and stability of $Sc_2(WO_4)_3$ after discharge in a sodium-based electrochemical cell. <i>Dalton Transactions</i> , 2018, 47, 1251-1260.	1.6	12
7295	Mixed Ionic and Electronic Conductor for Li-Metal Anode Protection. <i>Advanced Materials</i> , 2018, 30, 1705105.	11.1	92
7296	Battery electric vehicles: Looking behind to move forward. <i>Energy Policy</i> , 2018, 115, 54-65.	4.2	74
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7298	Carbon embedded SnSb composite tailored by carbothermal reduction process as high performance anode for sodium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 451-457.	2.9	18
7299	Electricity production and phosphorous recovery as struvite from synthetic wastewater using magnesium-air fuel cell electrocoagulation. <i>Water Research</i> , 2018, 132, 200-210.	5.3	71
7300	Cobalt Nanoparticles Chemically Bonded to Porous Carbon Nanosheets: A Stable High-Capacity Anode for Fast-Charging Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4652-4661.	4.0	40
7301	High-Purity Lithium Metal Films from Aqueous Mineral Solutions. <i>ACS Omega</i> , 2018, 3, 181-187.	1.6	24
7302	Surface Chemistry in Cobalt Phosphide-Stabilized Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 1455-1459.	6.6	393
7303	Monodisperse and homogeneous SiO ₂ /C microspheres: A promising high-capacity and durable anode material for lithium-ion batteries. <i>Energy Storage Materials</i> , 2018, 13, 112-118.	9.5	222
7304	An aqueous all-organic redox-flow battery employing a (2,2,6,6-tetramethylpiperidin-1-yl)oxyl-containing polymer as catholyte and dimethyl viologen dichloride as anolyte. <i>Journal of Power Sources</i> , 2018, 378, 546-554.	4.0	65
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7335	A review: Conventional and supercritical hydro/solvothermal synthesis of ultrafine particles as cathode in lithium battery. <i>Ceramics International</i> , 2018, 44, 4521-4537.	2.3	54
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7373	Improved electrochemical performance of LiMn ₂ O ₄ cathode material by Ce doping. <i>Electrochimica Acta</i> , 2018, 276, 37-46.	2.6	53
7374	Investigation of electrochemical calcium-ion energy storage mechanism in potassium birnessite. <i>Journal of Power Sources</i> , 2018, 390, 127-133.	4.0	45
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7399	Construction of NiCo ₂ O ₄ @MnO ₂ nanosheet arrays for high-performance supercapacitor: Highly cross-linked porous heterostructure and worthy electrochemical double-layer capacitance contribution. <i>Journal of Alloys and Compounds</i> , 2018, 749, 900-908.	2.8	50
7400	Prussian blue nanocubes supported on graphene foam as superior binder-free anode of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 749, 811-817.	2.8	60
7401	F-Doped carbon nano-onion films as scaffold for highly efficient and stable Li metal anodes: a novel laser direct-write process. <i>Nanoscale</i> , 2018, 10, 7630-7638.	2.8	20
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7403	Capitalization of interfacial AlON interactions to achieve stable binder-free porous silicon/carbon anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7449-7456.	5.2	15
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7409	Synthesis, electrochemical investigation and structural analysis of doped Li[Ni _{0.6} Mn _{0.2} Co _{0.2} -M]O ₂ (x) Tj ETQq1 1,0,784314,rgBT /O	4.0	88
7410	Metal-Organic Framework Derived Core-Shell Co/Co ₃ O ₄ @N-C Nanocomposites as High Performance Anode Materials for Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2018, 57, 4620-4628.	1.9	86
7411	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 1703-1707.	2.5	90
7412	Free-Standing Mn ₃ O ₄ @CNF/S Paper Cathodes with High Sulfur Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13406-13412.	4.0	68
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7416	Hollow porous bowl-shaped lithium-rich cathode material for lithium-ion batteries with exceptional rate capability and stability. <i>Journal of Power Sources</i> , 2018, 380, 164-173.	4.0	35
7417	Silicon-Based Composite Negative Electrode Prepared from Recycled Silicon-Slicing Slurries and Lignin/Lignocellulose for Li-Ion Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4759-4766.	3.2	49
7418	Dynamics of associative polymers. <i>Soft Matter</i> , 2018, 14, 2961-2977.	1.2	184
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7422	A study on blend polymer electrolyte based on poly(vinyl alcohol)-poly (acrylonitrile) with magnesium nitrate for magnesium battery. <i>Ionics</i> , 2018, 24, 3493-3506.	1.2	42
7423	Aerosol-assisted chemical vapor deposition of V ₂ O ₅ cathodes with high rate capabilities for magnesium-ion batteries. <i>Journal of Power Sources</i> , 2018, 384, 355-359.	4.0	48
7424	Dual-crosslinked network binder of alginate with polyacrylamide for silicon/graphite anodes of lithium ion battery. <i>Journal of Power Sources</i> , 2018, 384, 379-386.	4.0	87
7425	Portfolio Optimization of Nanomaterial Use in Clean Energy Technologies. <i>Environmental Science & Technology</i> , 2018, 52, 4440-4448.	4.6	14
7426	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1218-1225.	15.6	212
7427	Nanostructured Bi ₂ S ₃ encapsulated within three-dimensional N-doped graphene as active and flexible anodes for sodium-ion batteries. <i>Nano Research</i> , 2018, 11, 4614-4626.	5.8	92
7428	All nanocarbon Li-Ion capacitor with high energy and high power density. <i>Materials Today Energy</i> , 2018, 8, 109-117.	2.5	52
7429	Failure mechanisms of 2D silicon film anodes: <i>in situ</i> observations and simulations on crack evolution. <i>Chemical Communications</i> , 2018, 54, 3997-4000.	2.2	47
7430	Triphenylphosphine Oxide as Highly Effective Electrolyte Additive for Graphite/NMC811 Lithium Ion Cells. <i>Chemistry of Materials</i> , 2018, 30, 2726-2741.	3.2	110
7431	Thermal Lithiated-TiO ₂ : A Robust and Electron-Conducting Protection Layer for Li-Si Alloy Anode. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12750-12758.	4.0	45

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7433	In-situ preparation of poly(ethylene oxide)/Li3PS4 hybrid polymer electrolyte with good nanofiller distribution for rechargeable solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018, 387, 72-80.	4.0	95
7434	Implanted neural network potentials: Application to Li-Si alloys. <i>Physical Review B</i> , 2018, 97, .	1.1	60
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7436	Demonstration of in Situ Formed Li ₂ NaV ₂ (PO ₄) ₃ as a Strain-Free Lithium Battery Anode. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7061-7066.	1.5	6
7437	Facile Synthesis of Nitrogen-Doped Double-Shelled Hollow Mesoporous Carbon Nanospheres as High-Performance Anode Materials for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5999-6007.	3.2	61
7438	Multiroom-structured multicomponent metal selenide-graphitic carbon-carbon nanotube hybrid microspheres as efficient anode materials for sodium-ion batteries. <i>Nanoscale</i> , 2018, 10, 8125-8132.	2.8	35
7439	A scalable ternary SnO ₂ -Co-C composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7206-7220.	5.2	74
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7441	Flower-shaped TiO ₂ /C microspheres embedded with fish-scale-like MoS ₂ as anodes for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 8550-8555.	2.3	21
7442	Epitaxial growth of NiCo ₂ S ₄ /Co ₉ S ₈ @Graphene heterogenous nanocomposites with high-rate lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2018, 747, 926-933.	2.8	14
7443	Three-dimensional iron sulfide-carbon interlocked graphene composites for high-performance sodium-ion storage. <i>Nanoscale</i> , 2018, 10, 7851-7859.	2.8	56
7444	High-temperature solvent-free sulfidation of MoO ₃ confined in a polypyrrole shell: MoS ₂ nanosheets encapsulated in a nitrogen, sulfur dual-doped carbon nanoprism for efficient lithium storage. <i>Nanoscale</i> , 2018, 10, 7536-7543.	2.8	35
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7446	Uniform core-shell nanobiscuits of Fe ₇ S ₈ @C for lithium-ion and sodium-ion batteries with excellent performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7967-7976.	5.2	104
7447	State-of-the-Art and Energy Management System of Lithium-Ion Batteries in Electric Vehicle Applications: Issues and Recommendations. <i>IEEE Access</i> , 2018, 6, 19362-19378.	2.6	576
7448	Crystal Structures, Local Atomic Environments, and Ion Diffusion Mechanisms of Scandium-Substituted Sodium Superionic Conductor (NASICON) Solid Electrolytes. <i>Chemistry of Materials</i> , 2018, 30, 2618-2630.	3.2	109
7449	In Situ Plating of Porous Mg Network Layer to Reinforce Anode Dendrite Suppression in Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12678-12689.	4.0	88

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7451	A high-performance ternary Si composite anode material with crystal graphite core and amorphous carbon shell. <i>Journal of Power Sources</i> , 2018, 384, 328-333.	4.0	51
7452	Role of polymeric binders on mechanical behavior and cracking resistance of silicon composite electrodes during electrochemical cycling. <i>Journal of Power Sources</i> , 2018, 387, 9-15.	4.0	55
7453	Microstructure of high battery-performance Li ₂ FeSiO ₄ /C composite powder synthesized by combining different carbon sources in spray-freezing/freeze-drying process. <i>Ceramics International</i> , 2018, 44, 11211-11217.	2.3	13
7454	The origin of cycling enhanced capacity of Ni/NiO species confined on nitrogen doped carbon nanotubes for lithium-ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2018, 750, 17-22.	2.8	12
7455	High-Performance All-Solid-State Na-S Battery Enabled by Casting Annealing Technology. <i>ACS Nano</i> , 2018, 12, 3360-3368.	7.3	102
7456	Encapsulating SnS ₂ nanosheets into hollow carbon sphere: A yolk-shell SnS ₂ @C composite with enhanced sodium storage performance. <i>Electrochimica Acta</i> , 2018, 270, 1-8.	2.6	37
7457	Coupling Effect of State-of-Health and State-of-Charge on the Mechanical Integrity of Lithium-Ion Batteries. <i>Experimental Mechanics</i> , 2018, 58, 633-643.	1.1	66
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7459	Metal-organic framework-derived hollow CoS nanobox for high performance electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2018, 341, 618-627.	6.6	94
7460	Exploring pristine and Li-doped Mg ₂ NiH ₄ compounds with potential lithium-storage properties: Ab initio insight. <i>Journal of Alloys and Compounds</i> , 2018, 746, 140-146.	2.8	8
7461	Vacuum distillation derived 3D porous current collector for stable lithium-metal batteries. <i>Nano Energy</i> , 2018, 47, 503-511.	8.2	221
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7463	Nanoscale surface modification of Li-rich layered oxides for high-capacity cathodes in Li-ion batteries. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	12
7464	Interfacial lithiation induced leapfrog phase transformation in carbon coated Se cathode observed by in-situ TEM. <i>Nano Energy</i> , 2018, 48, 441-447.	8.2	23
7465	Innovative Application of Acid Leaching to Regenerate Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ Cathodes from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5959-5968.	3.2	140
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7469	A New Anode for Lithium-Ion Batteries Based on Single-Walled Carbon Nanotubes and Graphene: Improved Performance through a Binary Network Design. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1223-1227.	1.7	13
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7474	Healable Structure Triggered by Thermal/Electrochemical Force in Layered GeSe ₂ for High Performance Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703635.	10.2	59
7475	Sulfur/Oxygen Codoped Porous Hard Carbon Microspheres for High-Performance Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800171.	10.2	363
7476	Importance of mixing protocol for enhanced performance of composite cathodes in all-solid-state batteries using sulfide solid electrolyte. <i>Journal of Electroceramics</i> , 2018, 40, 293-299.	0.8	22
7477	Titanium nitride hollow nanospheres with strong lithium polysulfide chemisorption as sulfur hosts for advanced lithium-sulfur batteries. <i>Nano Research</i> , 2018, 11, 4302-4312.	5.8	81
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7479	Polymer-chelation synthesis of compositionally homogeneous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ crystals for lithium-ion cathode. <i>Electrochimica Acta</i> , 2018, 269, 724-732.	2.6	18
7480	Dendrite-free Li metal anode by lowering deposition interface energy with Cu ₉₉ Zn alloy coating. <i>Energy Storage Materials</i> , 2018, 14, 143-148.	9.5	99
7481	Crumpled Graphene Balls Stabilized Dendrite-free Lithium Metal Anodes. <i>Joule</i> , 2018, 2, 184-193.	11.7	300
7482	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. <i>Joule</i> , 2018, 2, 927-937.	11.7	303
7483	Silicon Microparticle Anodes with Self-Healing Multiple Network Binder. <i>Joule</i> , 2018, 2, 950-961.	11.7	316
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7487	A cost and resource analysis of sodium-ion batteries. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	1,463
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7490	Synthesis of lithium superionic conductor by growth of a nanoglass within mesoporous silica SBA-15 template. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 135301.	1.3	9
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7492	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. <i>Nano Research</i> , 2018, 11, 449-463.	5.8	108
7493	Improvement of cycling and thermal stability of $\text{LiNi}_0.8\text{Mn}_0.1\text{Co}_0.1\text{O}_2$ cathode material by secondly treating process. <i>Ionics</i> , 2018, 24, 61-71.	1.2	8
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7497	A spray-freezing approach to reduced graphene oxide/ MoS_2 hybrids for superior energy storage. <i>Energy Storage Materials</i> , 2018, 10, 282-290.	9.5	52
7498	Preparation and electrochemical properties of $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{Ti}_4\text{O}_7$ composite for lithium-ion batteries. <i>Ionics</i> , 2018, 24, 379-384.	1.2	10
7499	Three-dimensional spongy nanographene-functionalized silicon anodes for lithium ion batteries with superior cycling stability. <i>Nano Research</i> , 2018, 11, 233-245.	5.8	40
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7506	Binder-Free Hybrid Titanium-Niobium Oxide/Carbon Nanofiber Mats for Lithium-Ion Battery Electrodes. <i>ChemSusChem</i> , 2018, 11, 159-170.	3.6	30
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7510	Two-dimensional siligraphenes as cathode catalysts for nonaqueous lithium-oxygen batteries. <i>Carbon</i> , 2018, 126, 580-587.	5.4	40
7511	TiCr _{0.5} Nb _{10.5} O ₂₉ /CNTs nanocomposite as an advanced anode material for high-performance Li ⁺ -ion storage. <i>Journal of Alloys and Compounds</i> , 2018, 732, 116-123.	2.8	17
7512	Synthesis of Na _{0.5} Mn _{0.54} Ni _{0.13} Fe _{0.13} O ₂ with P2-type hexagonal phase as high-performance cathode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 732, 88-94.	2.8	11
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7514	Three-dimensional graphene network supported ultrathin CeO ₂ nanoflakes for oxygen reduction reaction and rechargeable metal-air batteries. <i>Electrochimica Acta</i> , 2018, 263, 561-569.	2.6	26
7515	Acetylene black coated V ₂ O ₅ nanocomposite with stable cyclability for lithium-ion batteries cathode. <i>Journal of Alloys and Compounds</i> , 2018, 732, 518-523.	2.8	13
7516	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259.	9.5	221
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7519	Electrochemically induced spinel-layered phase transition of Mn ₃ O ₄ in high performance neutral aqueous rechargeable zinc battery. <i>Electrochimica Acta</i> , 2018, 259, 170-178.	2.6	269
7520	A supercritical ethanol route for one-pot synthesis of tin sulfide-reduced graphene oxides and their anode performance for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 160-168.	2.9	28
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7527	Toward a Four-Electron Redox Quinone Polymer for High Capacity Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1700960.	10.2	60
7528	New Insight into Ni-Rich Layered Structure for Next-Generation Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701788.	10.2	169
7529	Graphite modified AlNbO ₄ with enhanced lithium ion storage behaviors and its electrochemical mechanism. <i>Materials Research Bulletin</i> , 2018, 97, 405-410.	2.7	14
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7534	Experimental examination of large capacity LiFePO ₄ battery pack at high temperature and rapid discharge using novel liquid cooling strategy. <i>International Journal of Energy Research</i> , 2018, 42, 1172-1182.	2.2	63
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7541	Hybrid Lithium Iron Phosphate Battery and Lithium Titanate Battery Systems for Electric Buses. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 956-965.	3.9	42
7542	Intrinsic Nanodomains in Triplite LiFeSO_4F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018, 8, 1701408.	10.2	16
7543	Porous layer assembled hierarchical Co_3O_4 as anode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 1356-1364.	1.7	18
7544	Rechargeable Solid-State Li-Air and Li-S Batteries: Materials, Construction, and Challenges. <i>Advanced Energy Materials</i> , 2018, 8, 1701602.	10.2	229
7545	Fe_7Se_8 nanoparticles encapsulated by nitrogen-doped carbon with high sodium storage performance and evolving redox reactions. <i>Energy Storage Materials</i> , 2018, 10, 114-121.	9.5	106
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7547	Effect of sodium salts on the cycling performance of tin anode in sodium ion batteries. <i>Ionics</i> , 2018, 24, 753-761.	1.2	21
7548	Optimal concentration of electrolyte additive for cyclic stability improvement of high-voltage cathode of lithium-ion battery. <i>Ionics</i> , 2018, 24, 661-670.	1.2	10
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7550	SnSe_2 Quantum Dot/rGO composite as high performing lithium anode. <i>Energy Storage Materials</i> , 2018, 10, 92-101.	9.5	72
7551	Mussel-Inspired Coating and Adhesion for Rechargeable Batteries: A Review. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7562-7573.	4.0	84
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7556	Formation of multiporous MnO/N -doped carbon configuration via carbonthermal reduction for superior electrochemical properties. <i>Chemical Engineering Journal</i> , 2018, 331, 570-577.	6.6	51
7557	Improved Thermal Stability of Lithium-Rich Layered Oxide by Fluorine Doping. <i>ChemPhysChem</i> , 2018, 19, 116-122.	1.0	14

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7559	Surface-functionalized graphene-based quasi-solid-state Na-ion hybrid capacitors with excellent performance. <i>Energy Storage Materials</i> , 2018, 11, 8-15.	9.5	60
7560	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 518-532.	10.8	83
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7562	Utilizing a graphene matrix to overcome the intrinsic limitations of red phosphorus as an anode material in lithium-ion batteries. <i>Carbon</i> , 2018, 127, 588-595.	5.4	50
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7566	Extremely Small Pyrrhotite Fe_7S_8 Nanocrystals with Simultaneous Carbon-Encapsulation for High-Performance Na-Ion Batteries. <i>Small</i> , 2018, 14, 1702816.	5.2	62
7567	Mechanical and electrochemical properties of cubic and tetragonal $\text{LiLa}_{0.557}\text{TiO}_3$ perovskite oxide electrolytes. <i>Ceramics International</i> , 2018, 44, 1902-1908.	2.3	40
7568	Bismuth oxyfluoride @ CMK-3 nanocomposite as cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 374, 166-174.	4.0	23
7569	Nanoconfined Oxidation Synthesis of N-Doped Carbon Hollow Spheres and MnO_2 Encapsulated Sulfur Cathode for Superior Li-S Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 4573-4582.	1.7	34
7570	A novel thin solid electrolyte film and its application in all-solid-state battery at room temperature. <i>Ionics</i> , 2018, 24, 1545-1551.	1.2	18
7571	A comparative study of the structures and electronic properties of graphene fragments: A DFT and MP2 survey. <i>Chemical Physics Letters</i> , 2018, 691, 291-297.	1.2	5
7572	Ultra-low cost and highly stable hydrated FePO_4 anodes for aqueous sodium-ion battery. <i>Journal of Power Sources</i> , 2018, 374, 211-216.	4.0	44
7573	Ultra-long life of TiO_2 nanotube array microelectrode for Li-ion microbatteries. <i>Ionics</i> , 2018, 24, 2227-2232.	1.2	1
7574	Improving the structure stability and electrochemical performance of $\text{Li}_2\text{MnSiO}_4/\text{C}$ cathode materials by Ti-doping and porous microstructure. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1158-1166.	2.8	15
7575	Electrospun $\text{Ti}_2\text{Nb}_{10}\text{O}_{29}$ hollow nanofibers as high-performance anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2018, 214, 60-63.	1.3	38

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7577	Design and synthesis of macroporous (Mn _{1/3} Co _{2/3})O-carbon nanotubes composite microspheres as efficient catalysts for rechargeable Li-O ₂ batteries. <i>Carbon</i> , 2018, 128, 125-133.	5.4	24
7578	Mixed ether-based solvents provide a long cycle life with high rate capability to graphite anodes for Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2188-2195.	1.3	16
7579	Brush-Like Cobalt Nitride Anchored Carbon Nanofiber Membrane: Current Collector-Catalyst Integrated Cathode for Long Cycle Li-O ₂ Batteries. <i>ACS Nano</i> , 2018, 12, 128-139.	7.3	230
7580	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1702093.	10.2	385
7581	Porous Media Applications: Electrochemical Systems. <i>Mechanical Engineering Series</i> , 2018, , 93-122.	0.1	1
7582	A P ₂ -Type Layered Superionic Conductor Ga-Doped Na ₂ Zn ₂ TeO ₆ for All-Solid-State Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 1057-1061.	1.7	42
7583	High-Capacity and High-Rate Discharging of a Coenzyme Q ₁₀ -Catalyzed Li-O ₂ Battery. <i>Advanced Materials</i> , 2018, 30, 1705571.	11.1	100
7584	Rechargeable Aqueous Zinc-Ion Battery Based on Porous Framework Zinc Pyrovanadate Intercalation Cathode. <i>Advanced Materials</i> , 2018, 30, 1705580.	11.1	738
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7586	A Single-Step Hydrothermal Route to 3D Hierarchical Cu ₂ O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries. <i>Small</i> , 2018, 14, 1702667.	5.2	84
7587	NS codoped carbon nanorods as anode materials for high-performance lithium and sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 203-208.	7.1	36
7588	High-performance Si Mn/C composite anodes with integrating inactive Mn ₄ Si ₇ alloy for lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 260, 830-837.	2.6	26
7589	Molecular insights into ether-based electrolytes for Li-FeS ₂ batteries. <i>Energy Storage Materials</i> , 2018, 12, 85-93.	9.5	12
7590	In-situ deposition of sodium titanate thin film as anode for sodium-ion micro-batteries developed by pulsed laser deposition. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 117-121.	5.0	13
7591	FUNDAMENTALS OF RECHARGEABLE BATTERIES AND ELECTROCHEMICAL POTENTIALS OF ELECTRODE MATERIALS. , 2018, , 397-451.		3
7592	Probing Solid-Solid Interfacial Reactions in All-Solid-State Sodium-Ion Batteries with First-Principles Calculations. <i>Chemistry of Materials</i> , 2018, 30, 163-173.	3.2	150
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7595	Multiple redox couples cathode material for Li-ion battery: Lithium chromium phosphate. <i>Journal of Energy Storage</i> , 2018, 15, 266-273.	3.9	2
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7597	Expanded biomass-derived hard carbon with ultra-stable performance in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1513-1522.	5.2	198
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7601	Effect of surface coating on the electrochemical performance of cathode made of sulfur-loaded TiO_2 nanotube arrays. <i>Journal of Alloys and Compounds</i> , 2018, 737, 248-254.	2.8	6
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7603	Novel silicon-tungsten oxide-carbon composite as advanced negative electrode for lithium-ion batteries. <i>Solid State Ionics</i> , 2018, 314, 41-45.	1.3	8
7604	Hierarchical NiCo_2O_4 nanosheets grown on hollow carbon microspheres composites for advanced lithium-ion half and full batteries. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 797-808.	5.0	19
7605	Recent achievements on sulfide-type solid electrolytes: crystal structures and electrochemical performance. <i>Journal of Materials Science</i> , 2018, 53, 3927-3938.	1.7	58
7606	NiFe LDH-CoPc/CNTs as novel bifunctional electrocatalyst complex for zinc-air battery. <i>Ionics</i> , 2018, 24, 1709-1714.	1.2	25
7607	From spent graphite to amorphous sp^2 carbon-coated sp^2 graphite for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 376, 91-99.	4.0	137
7608	High-performance oxygen evolution catalyst using two-dimensional ultrathin metal-organic frameworks nanosheets. <i>Nano Energy</i> , 2018, 44, 345-352.	8.2	264
7609	2D Dual-Metal Zeolitic-Imidazolate Framework (ZIF)-Derived Bifunctional Air Electrodes with Ultrahigh Electrochemical Properties for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705048.	7.8	361
7610	Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018, 30, 1703453.	11.1	359
7611	Different synthesis of $\text{Mn}_x\text{Co}_y\text{Ni}_z\text{CO}_3$ microspheres as new anode material for lithium ion battery. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3992-3998.	1.1	0

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7613	Alkaline Benzoquinone Aqueous Flow Battery for Large-Scale Storage of Electrical Energy. <i>Advanced Energy Materials</i> , 2018, 8, 1702056.	10.2	161
7614	An Asymmetric Electrolyte Zn ²⁺ /Air Battery with Ultrahigh Power Density and Energy Density. <i>ChemElectroChem</i> , 2018, 5, 589-592.	1.7	50
7615	VS ₄ Nanoparticles Anchored on Graphene Sheets as a High-Rate and Stable Electrode Material for Sodium Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 735-742.	3.6	93
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7618	From zeolite-type metal organic framework to porous nano-sheet carbon: High activity positive electrode material for bromine-based flow batteries. <i>Nano Energy</i> , 2018, 44, 240-247.	8.2	44
7619	Robust Pinhole-free Li ₃ N Solid Electrolyte Grown from Molten Lithium. <i>ACS Central Science</i> , 2018, 4, 97-104.	5.3	197
7620	Auto-generated iron chalcogenide microcapsules ensure high-rate and high-capacity sodium-ion storage. <i>Nanoscale</i> , 2018, 10, 800-806.	2.8	25
7621	CuGaS ₂ nanoplates: a robust and self-healing anode for Li/Na ion batteries in a wide temperature range of 268–318 K. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1086-1093.	5.2	44
7622	Commercial activated carbon as a novel precursor of the amorphous carbon for high-performance sodium-ion batteries anode. <i>Carbon</i> , 2018, 129, 85-94.	5.4	84
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7624	Optimizing solid electrolyte interphase on graphite anode by adjusting the electrolyte solution structure with ionic liquid. <i>Electrochimica Acta</i> , 2018, 260, 640-647.	2.6	6
7625	Importance of the constant voltage charging step during lithium-ion cell formation. <i>Journal of Energy Storage</i> , 2018, 15, 256-265.	3.9	16
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7628	Effect of differentiated textural properties of tin oxide aerogels on anode performance in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 732, 511-517.	2.8	9
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7631	Triphase electrode performance adjustment for rechargeable ion batteries. <i>Nano Energy</i> , 2018, 43, 1-10.	8.2	34
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7634	Prospect and Reality of Ni-Rich Cathode for Commercialization. <i>Advanced Energy Materials</i> , 2018, 8, 1702028.	10.2	574
7635	Sol-gel synthesized carbon-coated vanadium borate as anode material for rechargeable Li and Na batteries. <i>Journal of Alloys and Compounds</i> , 2018, 732, 506-510.	2.8	18
7636	Charge and Discharge Processes and Sodium Storage in Disodium Pyridine-2,5-dicarboxylate Anode—Insights from Experiments and Theory. <i>Advanced Energy Materials</i> , 2018, 8, 1701572.	10.2	40
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7638	Amorphous red phosphorus anchored on carbon nanotubes as high performance electrodes for lithium ion batteries. <i>Nano Research</i> , 2018, 11, 2733-2745.	5.8	46
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7641	Electrochemical performance of plasticized PEO-LiTf complex-based composite gel polymer electrolytes with the addition of barium titanate. <i>Ionics</i> , 2018, 24, 1407-1414.	1.2	15
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7643	Thioindigo: A novel cathode material of sodium ion battery predicted through dispersion-corrected density functional theory. <i>Computational Materials Science</i> , 2018, 143, 255-261.	1.4	3
7644	Nano-TiNb ₂ O ₇ /carbon nanotubes composite anode for enhanced lithium-ion storage. <i>Electrochimica Acta</i> , 2018, 260, 65-72.	2.6	257
7645	Two-dimensional organic cathode materials for alkali-metal-ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 86-98.	7.1	56
7646	Modeling Transport Phenomena in Porous Media with Applications. <i>Mechanical Engineering Series</i> , 2018, , .	0.1	28
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7649	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4649-4657.	5.2	98
7650	Mesoporous LaMnO ₃ + δ perovskite from spray-pyrolysis with superior performance for oxygen reduction reaction and Zn-air battery. <i>Nano Energy</i> , 2018, 43, 81-90.	8.2	71
7651	From anti-perovskite to double anti-perovskite: tuning lattice chemistry to achieve super-fast Li ⁺ transport in cubic solid lithium halogen chalcogenides. <i>Journal of Materials Chemistry A</i> , 2018, 6, 73-83.	5.2	77
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7654	In situ growth of ZnO nanodots on carbon hierarchical hollow spheres as high-performance electrodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1079-1087.	2.8	34
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7660	Anode-originated SEI migration contributes to formation of cathode-electrolyte interphase layer. <i>Journal of Power Sources</i> , 2018, 373, 184-192.	4.0	69
7661	A Double Core-shell Structure Silicon Carbon Composite Anode Material for a Lithium Ion Battery. <i>Silicon</i> , 2018, 10, 1443-1450.	1.8	12
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7663	Fast solution combustion synthesis of porous NaFeTi ₃ O ₈ with superior sodium storage properties. <i>Electronic Materials Letters</i> , 2018, 14, 23-29.	1.0	3
7664	Lead acid battery recycling and material flow analysis of lead in Korea. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 1348-1354.	1.6	12
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7668	Self-template synthesis of yolk-shelled NiCo ₂ O ₄ spheres for enhanced hybrid supercapacitors. <i>Applied Surface Science</i> , 2018, 427, 174-181.	3.1	125
7669	Welding characteristics of Cu and Al plates using planar vibration by a dumbbell-shaped ultrasonic complex vibration source. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LE12.	0.8	11
7670	Prediction of the Heat Transfer Coefficient in Direct Oil Cooling of Lithium-Ion Batteries. , 2018, , .		1
7671	Geo ₂ -Coated MCMB Composite as Anode Material for Lithium Ion Battery in PC-Based Electrolyte. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 452, 022142.	0.3	1
7672	Development of Electroorganic Reactions Utilizing Stabilized Reactive Species and Its Application to Organic Energy Storage Materials. <i>Electrochemistry</i> , 2018, 86, 298-302.	0.6	1
7673	A Comprehensive Review on Controlling Surface Composition of Pt-Based Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1703597.	10.2	123
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7680	A convenient route to internally phosphane-stabilized aryltriborane(7) compounds. <i>Chemical Communications</i> , 2018, 54, 12606-12609.	2.2	6
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7682	A critical review of cathodes for rechargeable Mg batteries. <i>Chemical Society Reviews</i> , 2018, 47, 8804-8841.	18.7	420
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7685	Porous Si@C ball-in-ball hollow spheres for lithium-ion capacitors with improved energy and power densities. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21098-21103.	5.2	52
7686	General and facile synthesis of hollow metal oxide nanoparticles coupled with graphene nanomesh architectures for highly efficient lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23856-23864.	5.2	17
7687	A high-rate aqueous rechargeable zinc ion battery based on the VS ₄ @rGO nanocomposite. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23757-23765.	5.2	196
7688	Synthesis of porous carbon-coated NaTi ₂ (PO ₄) ₃ nanocubes with a high-yield and superior rate properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24503-24508.	5.2	15
7689	A rechargeable aqueous Zn ²⁺ -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , 2018, 11, 3168-3175.	15.6	258
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7693	Mesoporous single-crystalline MnO _x nanofibers@graphene for ultra-high rate and long-life lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24756-24766.	5.2	24
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7699	Polymer Electrode Materials for Sodium-ion Batteries. <i>Materials</i> , 2018, 11, 2567.	1.3	45
7700	Modification of nanosized LiFePO ₄ via nickel doping and graphene coating. <i>International Journal of Nanotechnology</i> , 2018, 15, 914.	0.1	0
7701	Optimal Design and Operation Management of Battery-Based Energy Storage Systems (BESS) in Microgrids. , 2018, , .		2

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7703	Layer-structured Ti doped O ₃ -Na _{1-x} Cr _{1-x} Ti _x O ₂ (x=0, 0.03, 0.05) with excellent electrochemical performance as cathode materials for sodium ion batteries. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 673-676.	0.6	7
7704	Innovative electrochromic devices: Energy savings and visual comfort effects. <i>Energy Procedia</i> , 2018, 148, 900-907.	1.8	13
7705	Investigation of particulate emissions during handling of electrodes in lithium-ion battery assembly. <i>Procedia CIRP</i> , 2018, 78, 341-346.	1.0	8
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7709	Construction of yolk-shell Fe ₃ O ₄ @C nanocubes for highly stable and efficient lithium-ion storage. <i>Frontiers of Materials Science</i> , 2018, 12, 361-367.	1.1	3
7710	Toward Mechanically Stable Silicon-Based Anodes Using Si/SiO _x @C Hierarchical Structures with Well-Controlled Internal Buffer Voids. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41422-41430.	4.0	25
7711	Thin Film RuO ₂ Lithiation: Fast Lithium Ion Diffusion along the Interface. <i>Advanced Functional Materials</i> , 2018, 28, 1805723.	7.8	11
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8037	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives. <i>Scientific Reports</i> , 2018, 8, 7578.	1.6	45
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8123	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-ion Battery Anodes. <i>ChemSusChem</i> , 2018, 11, 3276-3285.	3.6	49
8124	The Application of Graphite in the Preparation of Cathode Material Li ₃ V ₂ (PO ₄) ₃ /C. <i>ChemistrySelect</i> , 2018, 3, 6328-6333.	0.7	1
8125	Lithium-ion conducting solid electrolytes of Li _{1.4} Al _{0.4} Ge _{0.2} Ti _{1.4} (PO ₄) ₃ and MO _x (M ⁻ =Al, Ti, and Zr) composites. <i>Solid State Ionics</i> , 2018, 324, 114-127.	1.3	23
8126	Lithium-ion conducting oxide single crystal as solid electrolyte for advanced lithium battery application. <i>Scientific Reports</i> , 2018, 8, 9965.	1.6	93
8127	In situ/operando synchrotron-based X-ray techniques for lithium-ion battery research. <i>NPG Asia Materials</i> , 2018, 10, 563-580.	3.8	261
8128	Derivatives of coordination compounds for rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13999-14024.	5.2	58
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8130	Hierarchical Cobalt-Based Metal-Organic Framework for High-Performance Lithium-ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 13362-13367.	1.7	60
8131	Highly efficient hierarchical multiroom-structured molybdenum carbide/carbon composite microspheres grafted with nickel-nanoparticle-embedded nitrogen-doped carbon nanotubes as air electrode for lithium-oxygen batteries. <i>Chemical Engineering Journal</i> , 2018, 351, 886-896.	6.6	28
8132	Nano-structured GeNb ₁₈ O ₄₇ as novel anode host with superior lithium storage performance. <i>Electrochimica Acta</i> , 2018, 282, 634-641.	2.6	19
8133	Molybdenum disulfide nanosheets embedded in hollow nitrogen-doped carbon spheres for efficient lithium/sodium storage with enhanced electrochemical kinetics. <i>Electrochimica Acta</i> , 2018, 283, 646-654.	2.6	24
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8135	Construction of Uniform Cobalt-Based Nanoshells and Its Potential for Improving Li-Ion Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22896-22901.	4.0	16
8136	An effectively inhibiting lithium dendrite growth in-situ-polymerized gel polymer electrolyte. <i>Electrochimica Acta</i> , 2018, 283, 349-356.	2.6	26
8137	Wetting behavior of four polar organic solvents containing one of three lithium salts on a lithium-ion-battery separator. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 582-587.	5.0	25

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8139	Catalyst Support in Oxygen Electrocatalysis: A Case Study with CoFe Alloy Electrocatalyst. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15843-15852.	1.5	43
8140	Hierarchical porous Li ₄ Ti ₅ O ₁₂ –TiO ₂ composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14339-14351.	5.2	60
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8142	Facile electrostatic self-assembly of silicon/reduced graphene oxide porous composite by silica assist as high performance anode for Li-ion battery. <i>Applied Surface Science</i> , 2018, 456, 379-389.	3.1	58
8143	Polyoxometalate-based materials for advanced electrochemical energy conversion and storage. <i>Chemical Engineering Journal</i> , 2018, 351, 441-461.	6.6	93
8144	Substituent effect on redox potential of terephthalate-based electrode materials for lithium batteries. <i>Electrochemistry Communications</i> , 2018, 93, 71-75.	2.3	21
8145	Rechargeability of aqueous sulfate Zn/MnO ₂ batteries enhanced by accessible Mn ²⁺ ions. <i>Energy Storage Materials</i> , 2018, 15, 351-360.	9.5	211
8146	Influence of precursor phase on the structure and electrochemical properties of Li(Ni _{0.6} Mn _{0.2} Co _{0.2})O ₂ cathode materials. <i>Solid State Ionics</i> , 2018, 324, 49-58.	1.3	16
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8148	Materials for lithium-ion battery safety. <i>Science Advances</i> , 2018, 4, eaas9820.	4.7	958
8149	Stable Bifunctional Perylene Imide Radicals for High-Performance Organic-Lithium Redox-Flow Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 13188-13196.	1.7	22
8150	Inverse Capacity Growth and Pocket Effect in SnS ₂ Semifilled Carbon Nanotube Anode. <i>ACS Nano</i> , 2018, 12, 8037-8047.	7.3	90
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8153	Novel Non-Carbon Sulfur Hosts Based on Strong Chemisorption for Lithium-Sulfur Batteries. <i>Small</i> , 2018, 14, e1801987.	5.2	68
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8155	One-pot synthesis of g-C ₃ N ₄ /MnO ₂ and g-C ₃ N ₄ /SnO ₂ hybrid nanocomposites for supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2244-2251.	2.5	88

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8157	Self-Standing Highly Conductive Solid Electrolytes Based on Block Copolymers for Rechargeable All-Solid-State Lithium–Metal Batteries. <i>Batteries and Supercaps</i> , 2018, 1, 149-159.	2.4	41
8158	Nanocellulose Structured Paper-Based Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 4341-4350.	2.5	45
8159	Ultrathin HfO ₂ -modified carbon nanotube films as efficient polysulfide barriers for Li-S batteries. <i>Carbon</i> , 2018, 139, 896-905.	5.4	33
8160	Electrochemistry Coupled Mesoscale Complexations in Electrodes Lead to Thermo-Electrochemical Extremes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28644-28655.	4.0	49
8161	Aliphatic Polycarbonate-Based Solid-State Polymer Electrolytes for Advanced Lithium Batteries: Advances and Perspective. <i>Small</i> , 2018, 14, e1800821.	5.2	131
8162	Pseudocapacitive Ni–Co–Fe Hydroxides/N-Doped Carbon Nanoplates-Based Electrocatalyst for Efficient Oxygen Evolution. <i>Small</i> , 2018, 14, e1801878.	5.2	55
8163	Template-free synthesis of biomass-derived carbon coated Li ₄ Ti ₅ O ₁₂ microspheres as high performance anodes for lithium-ion batteries. <i>Applied Surface Science</i> , 2018, 459, 572-582.	3.1	28
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8167	Selective doping of Li-rich layered oxide cathode materials for high-stability rechargeable Li-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 68, 180-186.	2.9	14
8168	Zero-strain K _{0.6} Mn ₁ F _{2.7} hollow nanocubes for ultrastable potassium ion storage. <i>Energy and Environmental Science</i> , 2018, 11, 3033-3042.	15.6	87
8169	Controlled scalable synthesis of yolk-shell structured large-size industrial silicon with interconnected carbon network for lithium storage. <i>Electrochimica Acta</i> , 2018, 283, 1702-1711.	2.6	18
8170	A novel lithium-ion hybrid capacitor based on an aerogel-like MXene wrapped Fe ₂ O ₃ nanosphere anode and a 3D nitrogen sulphur dual-doped porous carbon cathode. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1811-1821.	3.2	65
8171	Porous carbon adsorption layer enabling highly reversible redox-reaction of a high potential organic electrode material for sodium ion batteries. <i>RSC Advances</i> , 2018, 8, 24900-24905.	1.7	11
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8175	Fabrication of Lithiophilic Copper Foam with Interfacial Modulation toward High-Rate Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27764-27770.	4.0	78
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8177	Nitrogen doped carbon coating of PbLi ₂ Ti ₆ O ₁₄ as high electrochemical performance anode towards long-life lithium storage. <i>Electrochimica Acta</i> , 2018, 283, 1460-1467.	2.6	4
8178	Three-dimensional hierarchical NiCo ₂ S ₄ @MoS ₂ heterostructure arrays for high performance sodium ion battery. <i>FlatChem</i> , 2018, 10, 14-21.	2.8	15
8179	Porous polymer electrolyte based on poly(vinylidene fluoride)/comb-like polystyrene via ionic band functionalization. <i>Journal of Membrane Science</i> , 2018, 564, 663-671.	4.1	32
8180	Olivine LiFePO ₄ nanocrystals grown on nitrogen-doped graphene sheets as high-rate cathode for lithium-ion batteries. <i>Solid State Ionics</i> , 2018, 325, 12-16.	1.3	23
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8182	In-situ Growth of Zeolitic Imidazolate Framework-derived Nanoporous Carbon@K _{0.5} Mn ₂ O ₄ for High-Performance 2.4V Aqueous Asymmetric Supercapacitors. <i>ChemSusChem</i> , 2018, 11, 3167-3174.	3.6	52
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8189	Synthesis of 2-[[1-Indol-2-yl(1-Indol-3-yl)methyl]phenol and Its Application in Aqueous Rechargeable Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 8363-8372.	0.7	5
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8193	Identifying the Structural Evolution of the Sodium Ion Battery Na ₂ FePO ₄ F Cathode. <i>Angewandte Chemie</i> , 2018, 130, 12094-12099.	1.6	22
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8197	Metal-organic framework/carbon nanotube-coated polyethylene separator for improving the cycling performance of lithium-sulfur cells. <i>Electrochimica Acta</i> , 2018, 283, 1291-1299.	2.6	60
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8200	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018, 30, 5655-5662.	3.2	49
8201	Designing High-Performance Nanostructured P2-type Cathode Based on a Template-free Modified Pechini Method for Sodium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 8309-8316.	1.6	15
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8205	Controlling Nucleation in Lithium Metal Anodes. <i>Small</i> , 2018, 14, e1801423.	5.2	159
8206	Layered LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ as cathode material for hybrid Li ⁺ /Na ⁺ batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3431-3442.	1.2	10
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8208	Separator Modification and Functionalization for Inhibiting the Shuttle Effect in Lithium-Sulfur Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800249.	1.2	32
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8211	The Relationship between the Relative Solvating Power of Electrolytes and Shuttling Effect of Lithium Polysulfides in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018, 130, 12209-12212.	1.6	17
8212	Au-Doped Stable L ₁ Structured Platinum Cobalt Ordered Intermetallic Nanoparticle Catalysts for Enhanced Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2018, 1, 3771-3777.	2.5	16
8213	Review of electrical energy storage technologies, materials and systems: challenges and prospects for large-scale grid storage. <i>Energy and Environmental Science</i> , 2018, 11, 2696-2767.	15.6	1,467
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8216	Coin-Cell-Based In Situ Characterization Techniques for Li-Ion Batteries. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	10
8217	A Dual-Salt Gel Polymer Electrolyte with 3D Cross-Linked Polymer Network for Dendrite-Free Lithium Metal Batteries. <i>Advanced Science</i> , 2018, 5, 1800559.	5.6	204
8218	Enhanced lithium-storage performance of Li ₄ Ti ₅ O ₁₂ coated with boron-doped carbon layer for rechargeable Li-ion batteries. <i>Solid State Ionics</i> , 2018, 324, 191-195.	1.3	9
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8225	Direct observation of pseudocapacitive sodium storage behavior in molybdenum dioxide anodes. <i>Journal of Power Sources</i> , 2018, 397, 113-123.	4.0	10
8226	Superior long-term cyclability of a nanocrystalline NiO anode enabled by a mechanochemical reaction-induced amorphous protective layer for Li-ion batteries. <i>Journal of Power Sources</i> , 2018, 397, 134-142.	4.0	44
8228	Disordered Bilayered V ₂ O ₅ Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable High-Capacity Sodium Ion Battery Cathodes. <i>Energy Technology</i> , 2018, 6, 2438-2449.	1.8	10

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8230	Synergistic effect of Co ₃ O ₄ @C/MnO ₂ nanowire heterostructures for high-performance asymmetry supercapacitor with long cycle life. <i>Electrochimica Acta</i> , 2018, 283, 1087-1094.	2.6	41
8231	MgH ₂ @CoO: a conversion-type composite electrode for LiBH ₄ -based all-solid-state lithium ion batteries. <i>RSC Advances</i> , 2018, 8, 23468-23474.	1.7	24
8232	2.20 Batteries. , 2018, , 629-662.		9
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8234	Lithium sulfonate-grafted poly(vinylidene fluoride-hexafluoro propylene) ionomer as binder for lithium-ion batteries. <i>RSC Advances</i> , 2018, 8, 20025-20031.	1.7	18
8235	Enhanced electrochemical performance of over-lithiated oxide via liquid nitrogen quenching technique for lithium ion battery. <i>Ceramics International</i> , 2018, 44, 19033-19037.	2.3	4
8236	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. <i>Nano Energy</i> , 2018, 51, 579-587.	8.2	425
8237	Cross-Linking Hollow Carbon Sheet Encapsulated CuP ₂ Nanocomposites for High Energy Density Sodium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 7018-7027.	7.3	99
8238	Tuning anisotropic ion transport in mesocrystalline lithium orthosilicate nanostructures with preferentially exposed facets. <i>NPG Asia Materials</i> , 2018, 10, 606-617.	3.8	18
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8241	Environmental Screening of Electrode Materials for a Rechargeable Aluminum Battery with an AlCl ₃ /EMIMCl Electrolyte. <i>Materials</i> , 2018, 11, 936.	1.3	19
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8244	Facile Synthesis of Porous ZnCo ₂ O ₄ Nanosheets and the Superior Electrochemical Properties for Sodium Ion Batteries. <i>Nanomaterials</i> , 2018, 8, 377.	1.9	18
8245	Organic Carbonyl Compounds for Sodium-Ion Batteries: Recent Progress and Future Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, 18235-18245.	1.7	65
8246	Flexible Graphene-Wrapped Carbon Nanotube/Graphene@MnO ₂ 3D Multilevel Porous Film for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801007.	5.2	63

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8248	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. <i>Nature Nanotechnology</i> , 2018, 13, 715-722.	15.6	964
8249	Composite Structure Material Design for High Energy Lithium Storage. <i>Small</i> , 2018, 14, e1800887.	5.2	32
8250	Biogenic and Bio-inspired Syntheses of Hierarchically Structured Iron Compounds for Lithium-Ion Batteries. , 2018, , 157-173.		0
8251	Confining selenium disulfide in 3D sulfur-doped mesoporous carbon for rechargeable lithium batteries. <i>Applied Surface Science</i> , 2018, 457, 705-711.	3.1	24
8252	Electrospun nitrogen-doped carbon nanofibers with tuned microstructure and enhanced lithium storage properties. <i>Carbon</i> , 2018, 139, 716-724.	5.4	40
8253	High-performance phosphorus-modified SiO/C anode material for lithium ion batteries. <i>Ceramics International</i> , 2018, 44, 18509-18515.	2.3	34
8254	Thermodynamic and Kinetic Limitations for Peroxide and Superoxide Formation in Na ₂ O ₂ Batteries. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4413-4419.	2.1	16
8255	Carbon Nanotubes Derived from Yeast-Fermented Wheat Flour and Their Energy Storage Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11386-11396.	3.2	67
8256	Molecular self-assembly of a nanorod N-Li ₄ Ti ₅ O ₁₂ /TiO ₂ /C anode for superior lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15755-15761.	5.2	46
8257	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie</i> , 2018, 130, 11911-11915.	1.6	151
8258	CoP nanoparticles enwrapped in N-doped carbon nanotubes for high performance lithium-ion battery anodes. <i>Frontiers of Materials Science</i> , 2018, 12, 214-224.	1.1	12
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8260	Preparation and application of energy materials from biomass. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840081.	1.0	3
8261	Structural and Electrochemical Characterization of Zn _{1-x} FexO Effect of Aliovalent Doping on the Li ⁺ Storage Mechanism. <i>Materials</i> , 2018, 11, 49.	1.3	25
8262	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11737-11741.	7.2	425
8263	Calcination Temperature Effect on Citrate-Capped Iron Oxide Nanoparticles as Lithium Storage Anode Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1701004.	0.8	5
8264	Extreme fast charging characteristics of zirconia modified LiNi _{0.5} Mn _{1.5} O ₄ cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 396, 774-781.	4.0	63

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8266	Enhanced electrochemical performance of Na ₃ V ₂ (PO ₄) ₃ with Ni ²⁺ doping by a spray drying-assisted process for sodium ion batteries. <i>Solid State Ionics</i> , 2018, 324, 183-190.	1.3	31
8267	Efficient Photocatalytic Reduction Approach for Synthesizing Chemically Bonded N-Doped TiO ₂ /Reduced Graphene Oxide Hybrid as a Freestanding Electrode for High-Performance Lithium Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 4186-4195.	2.5	11
8268	The morphology-dependent electrocatalytic activities of spinel-cobalt oxide nanomaterials for direct hydrazine fuel cell application. <i>New Journal of Chemistry</i> , 2018, 42, 13087-13095.	1.4	9
8269	Three dimensional network Si-C composite coating constructed by porous skeletons as an integrated anode for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15042-15051.	1.1	5
8270	Facile solid-state synthesis of eco-friendly sodium iron silicate with exceptional sodium storage behaviour. <i>Electrochimica Acta</i> , 2018, 283, 1384-1389.	2.6	28
8271	Enhancement of the interfacial reaction on mesoporous RuO ₂ for next generation Li batteries. <i>Journal of Power Sources</i> , 2018, 396, 749-753.	4.0	18
8272	In vitro synthetic enzymatic biosystems at the interface of the food-energy-water nexus: A conceptual framework and recent advances. <i>Process Biochemistry</i> , 2018, 74, 43-49.	1.8	2
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8274	A core-shell structured polyacrylonitrile@poly(vinylidene fluoride-hexafluoro propylene) microfiber complex membrane as a separator by co-axial electrospinning. <i>RSC Advances</i> , 2018, 8, 23390-23396.	1.7	30
8275	A comparative study on nanocrystalline layered and crystalline cubic TiP ₂ O ₇ for rechargeable Li/Na/K alkali metal batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15230-15236.	5.2	16
8276	Citric Acid Based Pre-SEI for Improvement of Silicon Electrodes in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1991-A1996.	1.3	23
8277	Hierarchical NiCoO ₂ single-crystalline nanoflake arrays on Ni foam for supercapacitors and Li-ion batteries application. <i>Journal of Alloys and Compounds</i> , 2018, 766, 952-958.	2.8	17
8278	Electrodes-electrolyte interfacial engineering for realizing room temperature lithium metal battery based on garnet structured solid fast Li ⁺ conductors. <i>Journal of Power Sources</i> , 2018, 396, 764-773.	4.0	80
8279	One-Step Construction of N,P-Codoped Porous Carbon Sheets/CoP Hybrids with Enhanced Lithium and Potassium Storage. <i>Advanced Materials</i> , 2018, 30, e1802310.	11.1	376
8280	Molecular-level anchoring of polymer cathodes on carbon nanotubes towards rapid-rate and long-cycle sodium-ion storage. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1805-1810.	3.2	24
8281	Na-ion battery cathode materials prepared by electrochemical ion exchange from alumina-coated Li _{1+x} Mn _{0.54} Co _{0.13} Ni _{0.1+y} O ₂ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 14816-14827.	5.2	19
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8284	Na-Doped $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ with Excellent Stability of Both Capacity and Potential as Cathode Materials for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 3881-3889.	2.5	112
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8286	Solid electrolytes and interfaces in all-solid-state sodium batteries: Progress and perspective. <i>Nano Energy</i> , 2018, 52, 279-291.	8.2	211
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8290	A low-cost $\text{Mg}^{2+}/\text{Na}^{+}$ hybrid aqueous battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15762-15770.	5.2	23
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8292	Conductivity spectra of lithium ion conducting glassy ceramics. <i>Physica B: Condensed Matter</i> , 2018, 546, 10-14.	1.3	12
8293	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium-Sulfur Batteries: Progress and Prospects. <i>Advanced Functional Materials</i> , 2018, 28, 1707536.	7.8	251
8294	Advanced Lithium-Ion Batteries for Practical Applications: Technology, Development, and Future Perspectives. <i>Advanced Materials Technologies</i> , 2018, 3, 1700376.	3.0	112
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8298	Insight into the capacity fading of layered lithium-rich oxides and its suppression via a film-forming electrolyte additive. <i>RSC Advances</i> , 2018, 8, 25794-25801.	1.7	23
8299	Screening Oxide Support Materials for OER Catalysts in Acid. <i>Journal of the Electrochemical Society</i> , 2018, 165, F813-F820.	1.3	40
8300	Aqueous Binder Enhanced High-Performance GeP_5 Anode for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018, 6, 21.	1.8	13

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8302	High-Level Heteroatom Doped Two-Dimensional Carbon Architectures for Highly Efficient Lithium-Ion Storage. <i>Frontiers in Chemistry</i> , 2018, 6, 97.	1.8	8
8303	Comparative Investigation of $0.5\text{Li}_2\text{MnO}_3\text{-}0.5\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ Cathode Materials Synthesized by Using Different Lithium Sources. <i>Frontiers in Chemistry</i> , 2018, 6, 159.	1.8	12
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8305	Mo-doped V_2O_5 hierarchical nanorod/nanoparticle core/shell porous microspheres with improved performance for cathode of lithium-ion battery. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	16
8306	Low-Temperature-Annealed Reduced Graphene Oxide/Polyaniline Nanocomposites for Supercapacitor Applications. <i>Journal of Electronic Materials</i> , 2018, 47, 3861-3868.	1.0	13
8307	A facile N doping strategy to prepare mass-produced pyrrolic N-enriched carbon fibers with enhanced lithium storage properties. <i>Electrochimica Acta</i> , 2018, 278, 106-113.	2.6	31
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8312	Unraveling the capacity fading mechanisms of $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ at elevated temperatures. <i>Journal of Power Sources</i> , 2018, 393, 92-98.	4.0	62
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8314	The In Situ Synthesis of $\text{Fe}(\text{OH})_3$ Film on Fe Foam as Efficient Anode of Alkaline Supercapacitor Based on a Promising $\text{Fe}^{3+}/\text{Fe}^0$ Energy Storage Mechanism. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700484.	1.2	18
8315	Scallop-Inspired Shell Engineering of Microparticles for Stable and High Volumetric Capacity Battery Anodes. <i>Small</i> , 2018, 14, e1800752.	5.2	27
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8317	Bimetallic zeolite imidazolate framework for enhanced lithium storage boosted by the redox participation of nitrogen atoms. <i>Science China Materials</i> , 2018, 61, 1040-1048.	3.5	39
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8320	Effect of Ni content in Ni Mn _{1-x} CO ₃ (x = 0, 0.20, 0.25, 0.33) submicrospheres on the performances of rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 276, 333-342.	2.6	28
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8322	Ni-Sn-based hybrid composite anodes for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 278, 25-32.	2.6	45
8323	Synthesis of an aliphatic hyper-branched polycarbonate and determination of its physical properties for solid polymer electrolyte use. <i>Polymer</i> , 2018, 145, 194-201.	1.8	13
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8325	Hierarchically Porous Carbon Nanofibers Encapsulating Carbon-Coated Mini Hollow FeP Nanoparticles for High Performance Lithium and Sodium Ion Batteries. <i>ChemNanoMat</i> , 2018, 4, 924-935.	1.5	21
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8331	Ionic conductivity of sodium silicate glasses grown within confined volume of mesoporous silica template. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
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8333	Mesocarbon microbead based dual-carbon batteries towards low cost energy storage devices. <i>Journal of Power Sources</i> , 2018, 393, 145-151.	4.0	44
8334	3D Wettable Framework for Dendrite-Free Alkali Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800635.	10.2	196
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8338	A novel hybrid positive electrode with liquid-solid redox couples having high-capacity for lithium battery. <i>Journal of Power Sources</i> , 2018, 390, 54-60.	4.0	1
8339	Polytriphenylamine Derivative and Carbon Nanotubes as Cathode Materials for High-Performance Polymer-Based Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20057-20063.	1.5	14
8340	Effect of sulfur doping on structural reversibility and cycling stability of a Li ₂ MnSiO ₄ cathode material. <i>Dalton Transactions</i> , 2018, 47, 12337-12344.	1.6	10
8341	Unexpectedly high electrochemical performances of a monoclinic Na _{2.4} V ₂ (PO ₄) ₃ /conductive polymer composite for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17571-17578.	5.2	19
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8349	Toward sustainable and systematic recycling of spent rechargeable batteries. <i>Chemical Society Reviews</i> , 2018, 47, 7239-7302.	18.7	624
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8351	2D Nanospace Confined Synthesis of Pseudocapacitance-Dominated MoS ₂ @Mn ₃ C ₂ Superstructure for Ultrafast and Stable Li/Na-ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804306.	7.8	194
8352	Suppressed ionic contamination of LiNi _{0.5} Mn _{1.5} O ₄ with a Pt/ITO/stainless steel multilayer current collector. <i>Ceramics International</i> , 2018, 44, 20093-20104.	2.3	5
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8357	An Adaptive Rapid Charging Method for Lithium-Ion Batteries with Compensating Cell Degradation Behavior. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1251.	1.3	12
8358	Elevated-Temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800615.	11.1	159
8359	Electrochemical studies of $\text{MgFe}_2\text{O}_4@ \text{TiO}_2$ core-shell nanospheres as anode material for lithium battery applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 17872-17880.	1.1	6
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8370	Polyoxometalate-Based Metal-Organic Framework on Carbon Cloth with a Hot-Pressing Method for High-Performance Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2018, 57, 11726-11731.	1.9	48
8371	Controlling electric potential to inhibit solid-electrolyte interphase formation on nanowire anodes for ultrafast lithium-ion batteries. <i>Nature Communications</i> , 2018, 9, 3461.	5.8	27
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8392	The effects of Fe@C nanoparticles on the lithium storage performance of VS ₄ anode. <i>Journal of Alloys and Compounds</i> , 2018, 768, 938-943.	2.8	11
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8397	Fabrication of Hierarchical Potassium Titanium Phosphate Spheroids: A Host Material for Sodium-Ion and Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801102.	10.2	104
8398	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13608-13612.	7.2	138
8399	Excavated carbon with embedded Si nanoparticles for ultrafast lithium storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 68, 146-152.	2.9	13
8400	Exotic solid state ion conductor from fluorinated titanium oxide and molten metallic lithium. <i>Journal of Power Sources</i> , 2018, 400, 16-22.	4.0	11
8401	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. <i>ACS Energy Letters</i> , 2018, 3, 2094-2100.	8.8	145
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8404	Fast Diffusion of Multivalent Ions Facilitated by Concerted Interactions in Dual-Ion Battery Systems. <i>Advanced Energy Materials</i> , 2018, 8, 1801475.	10.2	59
8405	Mechanistic Insights of Zn ²⁺ Storage in Sodium Vanadates. <i>Advanced Energy Materials</i> , 2018, 8, 1801819.	10.2	225
8406	High-Capacity All-Solid-State Sodium Metal Battery with Hybrid Polymer Electrolytes. <i>Advanced Energy Materials</i> , 2018, 8, 1801885.	10.2	87
8407	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2018, 130, 14251-14255.	1.6	117
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8410	Fabrication of nanoplate Li-rich cathode material via surfactant-assisted hydrothermal method for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 20514-20523.	2.3	15
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8416	Low Cost Aqueous Magnesium-Ion Battery Capacitor with Commercial Mn ₃ O ₄ and Activated Carbon. <i>ChemElectroChem</i> , 2018, 5, 2789-2794.	1.7	32
8417	Two-dimensional porous (Co, Ni)-based monometallic hydroxides and bimetallic layered double hydroxides thin sheets with honeycomb-like nanostructure as positive electrode for high-performance hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 630-640.	5.0	108
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8422	Enhanced polysulfide redox kinetics electro-catalyzed by cobalt phthalocyanine for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17132-17141.	5.2	50
8423	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. <i>Angewandte Chemie</i> , 2018, 130, 13796-13800.	1.6	5
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8434	SWNT Networks with Polythiophene Carboxylate Links for High-Performance Silicon Monoxide Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 2417-2423.	2.5	12
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8439	Multifunctional nanostructured electrocatalysts for energy conversion and storage: current status and perspectives. <i>Nanoscale</i> , 2018, 10, 11241-11280.	2.8	258
8440	Phenyl Selenosulfides as Cathode Materials for Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801791.	7.8	66
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8443	Fabrication of Hollow Co ₃ O ₄ Nanospheres and Their Nanocomposites of CNT and rGO as High-Performance Anodes for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 5502-5511.	0.7	7
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8447	Designing pinecone-like and hierarchical manganese cobalt sulfides for advanced supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12782-12793.	5.2	93
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8456	Stable Metal Anode enabled by Porous Lithium Foam with Superior Ion Accessibility. <i>Advanced Materials</i> , 2018, 30, e1802156.	11.1	115
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8460	Carbon coated mixed-metal selenide microrod: Bimetal-organic-framework derivation approach and applications for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 351, 169-176.	6.6	71
8461	The development in aqueous lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 1521-1535.	7.1	114
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8464	Nitrogen-doped hierarchically porous carbonaceous nanotubes for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 352, 964-971.	6.6	25
8465	Mono and bi-layer germanene as prospective anode material for Li-ion batteries: A first-principles study. <i>Computational Condensed Matter</i> , 2018, 16, e00314.	0.9	25
8466	Gelatin-polyethylenimine composite as a functional binder for highly stable lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 282, 758-766.	2.6	51
8467	Activation and degradation of electrospun LiFePO ₄ battery cathodes. <i>Journal of Power Sources</i> , 2018, 396, 386-394.	4.0	21
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8469	Electrochemistry and Solid-State Chemistry of NaMeO ₂ (Me = 3d Transition Metals). <i>Advanced Energy Materials</i> , 2018, 8, 1703415.	10.2	255
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8472	A stable hybrid anode of graphene/silicon nanowires array for high performance lithium-ion battery. <i>Materials Letters</i> , 2018, 228, 262-265.	1.3	16
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8479	Vitamin K as a high-performance organic anode material for rechargeable potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12559-12564.	5.2	83
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8482	Hierarchical MoO ₃ /SnS core-shell nanowires with enhanced electrochemical performance for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17171-17179.	1.3	32
8483	Superior performance of Na ₇ V ₄ (P ₂ O ₇) ₄ PO ₄ in sodium ion batteries. <i>RSC Advances</i> , 2018, 8, 21224-21228.	1.7	26
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8485	Estimating the cost of organic battery active materials: a case study on anthraquinone disulfonic acid. <i>Translational Materials Research</i> , 2018, 5, 034001.	1.2	52
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8488	Efficient lithium storage of concave graphitic anode embedded with nanoconfined silicon. <i>Chemical Physics Letters</i> , 2018, 706, 189-195.	1.2	5
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8491	A Polyanion Host as a Prospective High Voltage Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1822-A1828.	1.3	11
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8504	A first-principles study on Si₂ as an anode material for rechargeable batteries. <i>RSC Advances</i> , 2018, 8, 20228-20233.	1.7	8
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8514	Yolk-shell Si/C composites with multiple Si nanoparticles encapsulated into double carbon shells as lithium-ion battery anodes. <i>Journal of Energy Chemistry</i> , 2019, 32, 124-130.	7.1	102
8515	A textile-based SnO ₂ ultra-flexible electrode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 16, 597-606.	9.5	150
8516	Synthesis of dual-phase Li ₄ Ti ₅ O ₁₂ -TiO ₂ nanowires as anode for lithium-ion battery. <i>Ionics</i> , 2019, 25, 1505-1511.	1.2	16

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8518	Layered germanium phosphide-based anodes for high-performance lithium- and sodium-ion batteries. <i>Energy Storage Materials</i> , 2019, 17, 78-87.	9.5	72
8519	Oxide perovskites, double perovskites and derivatives for electrocatalysis, photocatalysis, and photovoltaics. <i>Energy and Environmental Science</i> , 2019, 12, 442-462.	15.6	433
8520	Constructing radially oriented macroporous spheres with central cavities as ultrastable lithium-ion battery anodes. <i>Energy Storage Materials</i> , 2019, 17, 242-252.	9.5	23
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8524	Review and prospect of NiCo ₂ O ₄ -based composite materials for supercapacitor electrodes. <i>Journal of Energy Chemistry</i> , 2019, 31, 54-78.	7.1	275
8525	Combining theory and experiment in lithium-sulfur batteries: Current progress and future perspectives. <i>Materials Today</i> , 2019, 22, 142-158.	8.3	301
8526	Bimetallic metal-organic frameworks derived Ni-Co-Se@C hierarchical bundle-like nanostructures with high-rate pseudocapacitive lithium ion storage. <i>Energy Storage Materials</i> , 2019, 17, 374-384.	9.5	117
8527	BaNb ₃ O ₁₀ nanowires with superior electrochemical performance towards ultrafast and highly stable lithium storage. <i>Energy Storage Materials</i> , 2019, 16, 400-410.	9.5	43
8528	Rational design of graphitic-inorganic Bi-layer artificial SEI for stable lithium metal anode. <i>Energy Storage Materials</i> , 2019, 16, 426-433.	9.5	85
8529	Regulating Li deposition by constructing LiF-rich host for dendrite-free lithium metal anode. <i>Energy Storage Materials</i> , 2019, 16, 411-418.	9.5	247
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8536	An Integrated Heater Equalizer for Lithium-Ion Batteries of Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 4398-4405.	5.2	58
8537	Enabling room-temperature solid-state lithium-metal batteries with fluoroethylene carbonate-modified plastic crystal interlayers. <i>Energy Storage Materials</i> , 2019, 18, 311-319.	9.5	94
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8549	An advanced zinc air battery with nanostructured superwetting electrodes. <i>Energy Storage Materials</i> , 2019, 17, 358-365.	9.5	25
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8551	Solid polymer electrolyte soft interface layer with 3D lithium anode for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 17, 309-316.	9.5	279
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8554	Morphological evolution of spinel disordered LiNi _{0.5} Mn _{1.5} O ₄ cathode materials for lithium-ion batteries by modified solid-state method. <i>Ionics</i> , 2019, 25, 1999-2006.	1.2	9
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8570	Image Segmentation for FIB-SEM Serial Sectioning of a Si/C-Graphite Composite Anode Microstructure Based on Preprocessing and Global Thresholding. <i>Microscopy and Microanalysis</i> , 2019, 25, 1139-1154.	0.2	17

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8671	Preparation of MOF-derived NiCoP nanocages as anodes for lithium ion batteries. <i>Powder Technology</i> , 2019, 354, 834-841.	2.1	31
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8674	Cationic shield mediated electrodeposition stability in metal electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18442-18450.	5.2	7
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8677	Hierarchical cobalt oxide@Nickel-vanadium layer double hydroxide core/shell nanowire arrays with enhanced areal specific capacity for nickel-zinc batteries. <i>Journal of Power Sources</i> , 2019, 436, 226867.	4.0	48
8678	Structural and vibrational properties of carbonophosphates: Na ₃ MCO ₃ PO ₄ (M = Mn, Fe, Co and Ni). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117298.	2.0	9

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8680	Bio-derived N-doped porous carbon as sulfur hosts for high performance lithium sulfur batteries. <i>Journal of Central South University</i> , 2019, 26, 1426-1434.	1.2	6
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8792	Developments and Perspectives on Emerging High-Energy-Density Sodium-Metal Batteries. <i>CheM</i> , 2019, 5, 2547-2570.	5.8	110
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8801	Evolution mechanism of phase transformation of Li-rich cathode materials in cycling. <i>Electrochimica Acta</i> , 2019, 328, 135109.	2.6	43
8802	Alkali-Metal Anodes: From Lab to Market. <i>Joule</i> , 2019, 3, 2334-2363.	11.7	247
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8804	Preparation of Highly Porous Carbonous Electrodes by Selective Laser Sintering. <i>ACS Applied Energy Materials</i> , 2019, 2, 1314-1318.	2.5	19
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8820	A general strategy for in-situ fabrication of uniform carbon nanotubes on three-dimensional carbon architectures for electrochemical application. <i>Applied Surface Science</i> , 2019, 496, 143704.	3.1	13
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8863	A Novel Least-Mean Kurtosis Adaptive Filtering Algorithm Based on Geometric Algebra. <i>IEEE Access</i> , 2019, 7, 78298-78310.	2.6	23
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8934	<i>In Situ</i> Self-Assembly of Core-Shell Multimetal Prussian Blue Analogues for High-Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 4786-4790.	3.6	45

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8936	Multimodal mesopore hierarchy in Li ₃ VO ₄ boosts electrochemical anode performance of lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2019, 290, 109669.	2.2	4
8937	Rechargeable Mg ^M (M = Li, Na and K) dual-metal ^{ion} batteries based on a Berlin green cathode and a metallic Mg anode. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20269-20275.	1.3	10
8938	Spherical graphite produced from waste semi-coke with enhanced properties as an anode material for Li-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3116-3127.	2.5	16
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8940	In ^{situ} growing graphitic nanotubes on carbon nanofibres as a 3D hierarchical binder ^{free} anode for high ^{performance} Li ^{ion} battery. <i>Micro and Nano Letters</i> , 2019, 14, 698-700.	0.6	2
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8942	Growth behavior, work function, and band gap tuning of nanocrystalline LiMn ₂ O ₄ thin films. <i>Applied Physics Letters</i> , 2019, 115, 093901.	1.5	5
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8946	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24807-24813.	5.2	4
8947	In Situ Coupling of Colloidal Silica and Li Salt Anion toward Stable Li Anode for Long-Cycle-Life Li-O ₂ Batteries. <i>Matter</i> , 2019, 1, 881-892.	5.0	33
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8950	Nanoscale Technologies for Prevention and Treatment of Heart Failure: Challenges and Opportunities. <i>Chemical Reviews</i> , 2019, 119, 11352-11390.	23.0	46
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8966	Lithium storage properties of NiO/reduced graphene oxide composites derived from different oxidation degrees of graphite oxide. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151954.	2.8	31
8967	Aggregation-Morphology-Dependent Electrochemical Performance of Co ₃ O ₄ Anode Materials for Lithium-Ion Batteries. <i>Molecules</i> , 2019, 24, 3149.	1.7	14
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8986	A strategy to stabilize 4V-class cathode with ether-containing electrolytes in lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 440, 227101.	4.0	5
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8990	A safe and sustainable bacterial cellulose nanofiber separator for lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19288-19293.	3.3	57
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9003	Development of a compact all-solid-state lithium secondary battery using single-crystal electrolyte. <i>Synthesiology</i> , 2019, 12, 29-40.	0.2	4
9004	Solid-state polymer electrolytes for high-performance lithium metal batteries. <i>Nature Communications</i> , 2019, 10, 4398.	5.8	137
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9014	An advanced high energy-efficiency rechargeable aluminum-selenium battery. <i>Nano Energy</i> , 2019, 66, 104159.	8.2	39
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9026	Tuning Conjugated Polymers for Binder Applications in High-Capacity Magnetite Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 7584-7593.	2.5	18
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9028	â€œInduced Electron Transferâ€ in Silk Cocoon Derived N-Doped Reduced Graphene Oxide-Mo-Li-S Electrode. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	0
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9037	A general synthetic methodology to access magnesium aluminate electrolyte systems for Mg batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2677-2685.	5.2	18
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9041	Ultrahighâ€Capacity and Fireâ€Resistant LiFePO ₄ -Based Composite Cathodes for Advanced Lithiumâ€Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802930.	10.2	114
9042	Plasma Treatment for Nitrogenâ€Doped 3D Graphene Framework by a Conductive Matrix with Sulfur for Highâ€Performance Liâ€S Batteries. <i>Small</i> , 2019, 15, e1804347.	5.2	97

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9044	Probing spatial coupling of resistive modes in porous intercalation electrodes through impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3805-3813.	1.3	25
9045	Polymeric ionic liquids for lithium-based rechargeable batteries. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 294-309.	1.7	114
9046	Three-dimensional iron oxyfluoride/N-doped carbon hybrid nanocomposites as high-performance cathodes for rechargeable Li-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 465-472.	3.0	6
9047	N-doped porous hard-carbon derived from recycled separators for efficient lithium-ion and sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 717-722.	2.5	41
9048	Highly effective fabrication of two dimensional metal oxides as high performance lithium storage anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3924-3932.	5.2	19
9049	Novel Na ₂ TiSiO ₅ anode material for lithium ion batteries. <i>Chemical Communications</i> , 2019, 55, 2234-2237.	2.2	24
9050	Theoretical characterization of hexagonal 2D Be ₃ N ₂ monolayers. <i>New Journal of Chemistry</i> , 2019, 43, 2933-2941.	1.4	20
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9052	Ultrathin carbon-coated FeS ₂ nanooctahedra for sodium storage with long cycling stability. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 459-464.	3.0	21
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9054	Green electrode processing using a seaweed-derived mesoporous carbon additive and binder for LiMn ₂ O ₄ and LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ lithium ion battery electrodes. <i>Sustainable Energy and Fuels</i> , 2019, 3, 450-456.	2.5	11
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9060	First-principles molecular dynamics study on ultrafast potassium ion transport in silicon anode. <i>Journal of Power Sources</i> , 2019, 415, 119-125.	4.0	36

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9062	Diffusion-free Grotthuss topochemistry for high-rate and long-life proton batteries. Nature Energy, 2019, 4, 123-130.	19.8	446
9063	Porous Al/Al ₂ O ₃ two-phase nanonetwork to improve electrochemical properties of porous C/SiO ₂ as anode for Li-ion batteries. Electrochimica Acta, 2019, 300, 470-481.	2.6	19
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9065	<i>In situ</i> catalytic formation of graphene-like graphitic layer decoration on Na ₃ V ₂ VO ₄ ·xGa _x (PO ₄) ₃ (0 ≤ x ≤ 0.6) for ultrafast and high energy sodium storage. Journal of Materials Chemistry A, 2019, 7, 4660-4667.	5.2	43
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9130	New high-energy-density GeTe-based anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3278-3288.	5.2	50
9131	CuO-Coated and Cu ²⁺ -doped Co-modified P2-type Na _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 314-321.	1.3	56
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9135	Energy Density Assessment of Organic Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4008-4015.	2.5	26
9136	Electrochemical Impedance Spectroscopy and X-ray Photoelectron Spectroscopy Study of Lithium Metal Surface Aging in Imidazolium-Based Ionic Liquid Electrolytes Performed at Open-Circuit Voltage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21955-21964.	4.0	29
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9138	Expanded hydrated vanadate for high-performance aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2273-2285.	15.6	512
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9140	Nanosheet-assembled hierarchical Li ₄ Ti ₅ O ₁₂ microspheres for high-volumetric-density and high-rate Li-ion battery anode. <i>Energy Storage Materials</i> , 2019, 21, 361-371.	9.5	57
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9152	La _{1.5} Sr _{0.5} NiMn _{0.5} Ru _{0.5} O ₆ Double Perovskite with Enhanced ORR/OER Bifunctional Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21454-21464.	4.0	129
9153	Nano-spatially confined and interface-controlled lithiation–delithiation in an <i>in situ</i> formed (SnS ₂ /SnS ₂ –S)/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15320-15332.	5.2	32
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9163	In-situ fabrication of heterostructured SnO _x @C/rGO composite with durable cycling life for improved lithium storage. <i>Ceramics International</i> , 2019, 45, 18743-18750.	2.3	11
9164	The influence of Li ₂ O incorporation on the electrochemical properties of Li ₄ Ti ₅ O ₁₂ thin film electrodes. <i>Journal of Alloys and Compounds</i> , 2019, 801, 550-557.	2.8	9
9165	Toward a durable solid electrolyte film on the electrodes for Li-ion batteries with high performance. <i>Nano Energy</i> , 2019, 63, 103815.	8.2	60
9166	Wood cellulose-based thin gel electrolyte with enhanced ionic conductivity. <i>MRS Communications</i> , 2019, 9, 1015-1021.	0.8	11
9167	RuO ₂ -coated MoS ₂ Nanosheets as Cathode Catalysts for High Efficiency Li ₂ O ₂ Batteries. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 642-649.	1.0	11
9168	Simple solvent-free synthesis of rod-like Cu-doped V ₂ O ₅ for high storage capacity cathode materials of lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 802, 139-145.	2.8	20

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9171	Electrochemical Performance of Large-Grained NaCrO ₂ Cathode Materials for Na-Ion Batteries Synthesized by Decomposition of Na ₂ Cr ₂ O ₇ ·2H ₂ O. <i>Chemistry of Materials</i> , 2019, 31, 5214-5223.	3.2	34
9172	Gyroid structured aqua-sheets with sub-nanometer thickness enabling 3D fast proton relay conduction. <i>Chemical Science</i> , 2019, 10, 6245-6253.	3.7	32
9173	Carbon coated porous silicon flakes with high initial coulombic efficiency and long-term cycling stability for lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2361-2365.	2.5	7
9174	Biphasic silicon oxide nanocomposites as high-performance lithium storage materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15621-15626.	5.2	13
9175	Electrochemical properties of niobium and niobium compounds modified AISI430 stainless steel as bipolar plates for DFAFC. <i>Surface Engineering</i> , 2019, 35, 1003-1011.	1.1	10
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9181	Three-Dimensional Mesoporous Straw-Like Co ₃ O ₄ Anode with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 6879-6885.	0.7	7
9182	In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. <i>Electrochemical Energy Reviews</i> , 2019, 2, 467-491.	13.1	30
9183	Biomass derivative-based fibrous perovskite electrocatalysts with a hierarchical porous structure for oxygen reduction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18019-18027.	3.8	8
9184	Role of Superexchange Interactions on the Arrangement of Fe and Mn in LiMn _x Fe _{1-x} PO ₄ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 17002-17009.	1.5	6
9185	Facile <i>in situ</i> growth of ZnO nanosheets standing on Ni foam as binder-free anodes for lithium ion batteries. <i>RSC Advances</i> , 2019, 9, 19253-19260.	1.7	17
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9188	A General One-Pot Synthesis Strategy of 3D Porous Hierarchical Networks Crosslinked by Monolayered Nanoparticles Interconnected Nanoplates for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903003.	7.8	16
9189	Supramolecular self-assembly of compound 1 ² nucleating agent and effect on polypropylene microporous membrane. <i>Polymer Crystallization</i> , 2019, 2, e10080.	0.5	3
9190	Porous-hollow nanorods constructed from alternate intercalation of carbon and MoS ₂ monolayers for lithium and sodium storage. <i>Nano Research</i> , 2019, 12, 1912-1920.	5.8	39
9191	A 2D/2D graphitic carbon nitride/N-doped graphene hybrid as an effective polysulfide mediator in lithium-sulfur batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1807-1815.	3.2	19
9192	Microalgae-derived hollow carbon-MoS ₂ composite as anode for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 106-114.	2.9	25
9193	Modeling of separator failure in lithium-ion pouch cells under compression. <i>Journal of Power Sources</i> , 2019, 435, 226756.	4.0	21
9194	A bridge between battery and supercapacitor for power/energy gap by using dual redox-active ions electrolyte. <i>Chemical Engineering Journal</i> , 2019, 375, 122054.	6.6	28
9195	Imidazolium-functionalized carbon nanotubes crosslinked with imidazole poly(ether ether ketone) for fabricating anion exchange membranes with high hydroxide conductivity and dimension stability. <i>Electrochimica Acta</i> , 2019, 318, 572-580.	2.6	18
9196	Operando X-ray absorption spectroscopy applied to battery materials at ICGM: The challenging case of BiSb's sodiation. <i>Energy Storage Materials</i> , 2019, 21, 1-13.	9.5	12
9197	Structure and Electrical Performance of Na ₂ C ₆ O ₆ under High Pressure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17163-17169.	1.5	3
9198	Exploiting Lithium-Depleted Cathode Materials for Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901335.	10.2	14
9199	Yolk-shell Prussian blue analogues hierarchical microboxes: Controllably exposing active sites toward enhanced cathode performance for lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 319, 237-244.	2.6	21
9200	Preparation of Ge/N, S co-doped ordered mesoporous carbon composite and its long-term cycling performance of lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 318, 737-745.	2.6	26
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9482	A concentrated poly(ethylene carbonate)/poly(trimethylene carbonate) blend electrolyte for all-solid-state Li battery. <i>Polymer Journal</i> , 2019, 51, 753-760.	1.3	18
9483	The formation mechanism of Li ₄ Ti ₅ O ₁₂ solid solutions prepared by carbothermal reduction and the effect of Ti ³⁺ on electrochemical performance. <i>Scientific Reports</i> , 2019, 9, 4774.	1.6	15
9484	A facile strategy for the synthesis of three-dimensional heterostructure self-assembled MoSe ₂ nanosheets and their application as an anode for high-energy lithium-ion hybrid capacitors. <i>Nanoscale</i> , 2019, 11, 7263-7276.	2.8	57
9485	Construction of 3D carbon networks with well-dispersed SiO _x nanodomains from gelable building blocks for lithium-ion batteries. <i>RSC Advances</i> , 2019, 9, 9086-9092.	1.7	11
9486	Anisotropic expansion and size-dependent fracture of silicon nanotubes during lithiation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15113-15122.	5.2	41
9487	CO ₂ -sourced polycarbonates as solid electrolytes for room temperature operating lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9844-9853.	5.2	29
9488	Solvating power series of electrolyte solvents for lithium batteries. <i>Energy and Environmental Science</i> , 2019, 12, 1249-1254.	15.6	138
9489	Influence of excess lithium and sintering on the conductivity of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ . <i>Functional Materials Letters</i> , 2019, 12, 1950047.	0.7	20
9490	Simulation-driven Selection of Electrode Materials Based on Mechanical Performance for Lithium-Ion Battery. <i>Materials</i> , 2019, 12, 831.	1.3	11
9491	Wettable carbon felt framework for high loading Li-metal composite anode. <i>Nano Energy</i> , 2019, 60, 257-266.	8.2	118
9492	Role of Nickel Nanoparticles in High-Performance TiO ₂ /Ni/Carbon Nanohybrid Lithium/Sodium-Ion Battery Anodes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1557-1569.	1.7	13
9493	Rational Design of a Composite Electrode to Realize a High-Performance All-Solid-State Battery. <i>ChemSusChem</i> , 2019, 12, 2637-2643.	3.6	20

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9495	Bimetal-organic frameworks derived ternary metal sulphide nanoparticles embedded in porous carbon spheres/carbon nanotubes as high-performance lithium storage materials. <i>Chemical Engineering Journal</i> , 2019, 370, 89-97.	6.6	22
9496	Tuning the interface by a soldering method for high performance garnet-type solid-state Li metal battery. <i>Ceramics International</i> , 2019, 45, 11955-11962.	2.3	11
9497	<i>In-Situ</i> Construction of Iron Sulfide Nanoparticle Loaded Graphitic Carbon Capsules from Waste Biomass for Sustainable Lithium-Ion Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6870-6879.	3.2	16
9498	Editors' Choiceâ€”Reviewâ€”Innovative Polymeric Materials for Better Rechargeable Batteries: Strategies from CIC Energigune. <i>Journal of the Electrochemical Society</i> , 2019, 166, A679-A686.	1.3	36
9499	All-Solid-State On-Chip Supercapacitors Based on Free-Standing 4^H-SiC Nanowire Arrays. <i>Advanced Energy Materials</i> , 2019, 9, 1900073.	10.2	32
9500	Polygonal multi-polymorphed Li ₄ Ti ₅ O ₁₂ @rutile TiO ₂ as anodes in lithium-ion batteries. <i>Nano Research</i> , 2019, 12, 897-904.	5.8	26
9501	Development of conversion coatings on iron via corrosion in LiPF ₆ solution. <i>Electrochimica Acta</i> , 2019, 304, 428-436.	2.6	15
9502	Defects, dopants and Li-ion diffusion in Li ₂ SiO ₃ . <i>Solid State Ionics</i> , 2019, 335, 61-66.	1.3	28
9503	Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019, 2, 1457-1465.	2.4	40
9504	Nanocrystal Conversion-Assisted Design of Sn-Fe Alloy with a Core-Shell Structure as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Omega</i> , 2019, 4, 4888-4895.	1.6	25
9505	Rational synthesis and electrochemical performance of LiVOPO ₄ polymorphs. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8423-8432.	5.2	20
9506	MOF-derived nitrogen-doped core-shell hierarchical porous carbon confining selenium for advanced lithium-selenium batteries. <i>Nanoscale</i> , 2019, 11, 6970-6981.	2.8	83
9507	Rational Design of Hierarchical Ceramic-Polymer and Polymer-In-Ceramic Electrolytes for Dendrite-Free Solid-State Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1804004.	10.2	422
9508	Monolayer Zr ₂ B ₂ : A promising two-dimensional anode material for Li-ion batteries. <i>Applied Surface Science</i> , 2019, 480, 448-453.	3.1	63
9509	Biomass-derived ultrathin mesoporous graphitic carbon nanoflakes as stable electrode material for high-performance supercapacitors. <i>Materials and Design</i> , 2019, 169, 107688.	3.3	117
9510	Cobalt oxide-based nanoarchitectures for electrochemical energy applications. <i>Progress in Materials Science</i> , 2019, 103, 596-677.	16.0	166
9511	Recent Progress in Multivalent Metal (Mg, Zn, Ca, and Al) and Metal-Ion Rechargeable Batteries with Organic Materials as Promising Electrodes. <i>Small</i> , 2019, 15, e1805061.	5.2	320

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9513	Chemical and mechanical degradation and mitigation strategies for Si anodes. <i>Journal of Power Sources</i> , 2019, 419, 208-218.	4.0	32
9514	Manipulating kinetics of sulfurized polyacrylonitrile with tellurium as eutectic accelerator to prevent polysulfide dissolution in lithium-sulfur battery under dissolution-deposition mechanism. <i>Nano Energy</i> , 2019, 60, 153-161.	8.2	103
9515	Synthesis and characterization of vanadium-doped LiFePO ₄ @C electrode with excellent rate capability for lithium-ion batteries. <i>Solid State Ionics</i> , 2019, 335, 97-102.	1.3	25
9516	Effects of Dimethyl Disulfide Cosolvent on Li-S Battery Chemistry and Performance. <i>Chemistry of Materials</i> , 2019, 31, 2377-2389.	3.2	11
9517	ZnO quantum dots anchored in multilayered and flexible amorphous carbon sheets for high performance and stable lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8460-8471.	5.2	66
9518	Synthesis of nanostructured P ₂ -Na _{2/3} MnO ₂ for high performance sodium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 4757-4760.	2.2	12
9519	An architecture of dandelion-type Ni-Co ₃ O ₄ microspheres on carbon nanotube films toward an efficient catalyst for oxygen reduction in zinc-air batteries. <i>Applied Surface Science</i> , 2019, 481, 40-51.	3.1	20
9520	Investigation of the swelling failure of lithium-ion battery packs at low temperatures using 2D/3D X-ray computed tomography. <i>Electrochimica Acta</i> , 2019, 305, 65-71.	2.6	28
9521	Synthesis and Electrochemical Characterization of $\text{Li}_{1-x}\text{NaMnO}_i$ as a Cathode Material for Hybrid Na/Li-Ion Batteries. <i>International Journal of Electrochemical Science</i> , 2019, 14, 2422-2429.	0.5	2
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9523	Enhanced Silicon Diphosphide-Carbon Composite Anode for Long-Cycle, High-Efficient Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2223-2229.	2.5	22
9524	Carambola-shaped SnO ₂ wrapped in carbon nanotube network for high volumetric capacity and improved rate and cycle stability of lithium ion battery. <i>Chemical Engineering Journal</i> , 2019, 369, 422-431.	6.6	75
9525	Ether-compatible sulfurized polyacrylonitrile cathode with excellent performance enabled by fast kinetics via selenium doping. <i>Nature Communications</i> , 2019, 10, 1021.	5.8	211
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9533	Compositing SrLi ₂ Ti ₆ O ₁₄ with chemical deposited silver for enhancing lithium ion storage. <i>Ceramics International</i> , 2019, 45, 6885-6890.	2.3	3
9534	Novel GaNb ₄ O ₁₂ microspheres with intercalation pseudocapacitance for ultrastable lithium-ion storage. <i>Ceramics International</i> , 2019, 45, 12211-12217.	2.3	20
9535	Intercalation of Mg ²⁺ into electrodeposited Prussian Blue Analogue thin films from aqueous electrolytes. <i>Electrochimica Acta</i> , 2019, 307, 157-163.	2.6	17
9536	Lithiated Nanoparticles Doped with Ionic Liquids as Quasi-Solid Electrolytes for Lithium Batteries. <i>Electrochimica Acta</i> , 2019, 307, 51-63.	2.6	13
9537	Flowable polymer electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 423, 218-226.	4.0	50
9538	NH ₄ V ₄ O ₁₀ micro-flowers as cathode material for high performance hybrid magnesium-lithium-ion batteries. <i>Materials Letters</i> , 2019, 247, 178-181.	1.3	12
9539	Poly(p-phenylene terephthalamide) modified PE separators for lithium ion batteries. <i>Journal of Membrane Science</i> , 2019, 581, 355-361.	4.1	55
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9541	Atomic pair distribution function research on Li ₂ MnO ₃ electrode structure evolution. <i>Science Bulletin</i> , 2019, 64, 553-561.	4.3	20
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9543	Recent advances in high energy-density cathode materials for sodium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2019, 21, e00098.	1.7	43
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9545	Biotemplate-Based Engineering of High-Temperature Stable Anatase TiO ₂ Nanofiber Bundles with Impregnated CeO ₂ Nanocrystals for Enhanced Lithium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7823-7832.	3.2	22
9546	Reviving bulky MoS ₂ as an advanced anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10988-10997.	5.2	36
9547	Metal Electrode Surfaces Can Roughen Despite the Constraint of a Stiff Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019, 166, A984-A995.	1.3	23
9548	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , 2019, 131, 8418-8423.	1.6	1
9549	Metal-Organic Frameworks for High-Energy Lithium Batteries with Enhanced Safety: Recent Progress and Future Perspectives. <i>Batteries and Supercaps</i> , 2019, 2, 591-626.	2.4	45

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9551	In-situ growth of nitrogen-doped mesoporous carbon nanostructure supported nickel metal nanoparticles for oxygen evolution reaction in an alkaline electrolyte. <i>Electrochimica Acta</i> , 2019, 306, 617-626.	2.6	7
9552	Catalytic Synthesis of Hard/Soft Carbon Hybrids with Heteroatom Doping for Enhanced Sodium Storage. <i>ChemistrySelect</i> , 2019, 4, 3551-3558.	0.7	9
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9557	Sodium Storage and Electrode Dynamics of Tin@Carbon Composite Electrodes from Bulk Precursors for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900790.	7.8	107
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9560	Improving Ionic Conductivity with Bimodal-Sized Li ₇ La ₃ Zr ₂ O ₁₂ Fillers for Composite Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12467-12475.	4.0	100
9561	Solid-state polymer electrolytes with in-built fast interfacial transport for secondary lithium batteries. <i>Nature Energy</i> , 2019, 4, 365-373.	19.8	681
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9563	Insights into the Effects of Electrolyte Composition on the Performance and Stability of FeF ₂ Conversion-Type Cathodes. <i>Advanced Energy Materials</i> , 2019, 9, 1803323.	10.2	56
9564	Mesh-Like Carbon Nanosheets with High-Level Nitrogen Doping for High-Energy Dual-Carbon Lithium-Ion Capacitors. <i>Small</i> , 2019, 15, e1805173.	5.2	68
9565	Cu ₃ P as a novel cathode material for rechargeable aluminum-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8368-8375.	5.2	85
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9570	Roles of Ti in Electrode Materials for Sodium-Ion Batteries. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	20
9571	In Situ Wrapping SiO with Carbon Nanotubes as Anode Material for High-Performance Li-Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 2918-2925.	0.7	13
9572	V2O5 hollow spheres as high rate and long life cathode for aqueous rechargeable zinc ion batteries. <i>Electrochimica Acta</i> , 2019, 306, 307-316.	2.6	167
9573	Film-forming electrolyte additives for rechargeable lithium-ion batteries: progress and outlook. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8700-8722.	5.2	135
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9576	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. <i>Joule</i> , 2019, 3, 1080-1093.	11.7	168
9577	Improved fast charging capability of graphite anodes via amorphous Al2O3 coating for high power lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 422, 18-24.	4.0	115
9580	Polyimide capping layer on improving electrochemical stability of silicon thin-film for Li-ion batteries. <i>Materials Today Energy</i> , 2019, 12, 297-302.	2.5	20
9581	Rational design of few-layer MoSe ₂ confined within ZnSe/C hollow porous spheres for high-performance lithium-ion and sodium-ion batteries. <i>Nanoscale</i> , 2019, 11, 6766-6775.	2.8	143
9582	Mechanism of Gases Generation during Lithium-Ion Batteries Cycling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A897-A908.	1.3	86
9583	High-Energy Nickel-Rich Layered Cathode Stabilized by Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019, 166, A873-A879.	1.3	27
9585	Identification of Phase Control of Carbon-Confined Nb ₂ O ₅ Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1802695.	10.2	161
9586	Deciphering the Reaction Mechanism of Lithium-Sulfur Batteries by In Situ/Operando Synchrotron-Based Characterization Techniques. <i>Advanced Energy Materials</i> , 2019, 9, 1900148.	10.2	96
9587	Electrochemical Performance of 1-Ethyl-3-Methylimidazolium Bis(Trifluoromethylsulfonyl)Imide Ionic Liquid as Electrolyte for Primary Mg-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1103-A1106.	1.3	11
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9590	Recent progress on iron- and manganese-based anodes for sodium-ion and potassium-ion batteries. <i>Energy Storage Materials</i> , 2019, 19, 163-178.	9.5	90
9591	Theoretical tuning of Ruddlesden-Popper type anti-perovskite phases as superb ion conductors and cathodes for solid sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10483-10493.	5.2	27
9592	Cyroidal Niobium Sulfide/Carbon Hybrid Monoliths for Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 668-672.	2.4	8
9593	Cross-linked porous polymer separator using vinyl-modified aluminum oxide nanoparticles as cross-linker for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 307, 495-502.	2.6	42
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9600	Nitriding-Interface-Regulated Lithium Plating Enables Flame-Retardant Electrolytes for High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7802-7807.	7.2	161
9601	Carbonyl-Based Conjugated Materials: From Synthesis to Applications in Lithium-Ion Batteries. <i>ChemPlusChem</i> , 2019, 84, 1179-1214.	1.3	43
9602	Rice Husk Lignin-Derived Porous Carbon Anode Material for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 4178-4184.	0.7	14
9603	Enhanced electrochemical performance and mechanism study of AgLi _{1/3} Sn _{2/3} O ₂ for lithium storage. <i>Chinese Chemical Letters</i> , 2019, 30, 2017-2020.	4.8	1
9604	A novel NASICON-based glass-ceramic composite electrolyte with enhanced Na-ion conductivity. <i>Energy Storage Materials</i> , 2019, 23, 514-521.	9.5	97
9605	Facile preparation of MnO/nitrogen-doped porous carbon nanotubes composites and their application in energy storage. <i>Journal of Power Sources</i> , 2019, 426, 33-39.	4.0	28
9606	Safety optimization enabled by tris(2,2,2-trifluoroethyl)phosphite additive for advanced pouch lithium ion batteries. <i>Solid State Ionics</i> , 2019, 337, 7-11.	1.3	6

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9609	Superior thermal conductivity of poly (ethylene oxide) for solid-state electrolytes: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2019, 137, 1241-1246.	2.5	43
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9611	Failure mechanism of Au@Co ₉ S ₈ yolk-shell anode in Li-ion batteries unveiled by <i>in-situ</i> transmission electron microscopy. Applied Physics Letters, 2019, 114, .	1.5	30
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9617	Nano-scale hollow structure carbon-coated LiFePO ₄ as cathode material for lithium ion battery. Ionics, 2019, 25, 4075-4082.	1.2	12
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9622	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. Nature Communications, 2019, 10, 1447.	5.8	494
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9624	Tracking sodium migration in TiS ₂ using <i>in situ</i> TEM. Nanoscale, 2019, 11, 7474-7480.	2.8	26

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9626	Dual synergistic immobilization effect on lithium polysulfides for lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 125-133.	1.9	6
9627	Sandwich-type nanoporous CoO/N-doped carbon multi-layers with ultrahigh lithium storage and long-life stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10610-10618.	5.2	22
9628	Nitrogen-enriched carbon-coated flower-like bismuth sulfide architectures towards high-performance lithium-ion battery anodes. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1275-1281.	3.0	21
9629	Lightweight complex metal hydrides for Li-, Na-, and Mg-based batteries. <i>Journal of Materials Research</i> , 2019, 34, 877-904.	1.2	17
9630	Enhanced High-Rate and Low-Temperature Electrochemical Properties of LiFePO ₄ /Polypyrrole Cathode Materials for Lithium-ion Batteries. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3408-3417.	0.5	20
9631	Phosphorus and Boron Co-Doped Carbon Coating of LiNi _{0.5} Mn _{1.5} O ₄ Cathodes for Advanced Lithium-ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 2224-2230.	1.7	14
9632	A new design for Si wears double jackets used as a high-performance lithium-ion battery anode. <i>Chemical Engineering Journal</i> , 2019, 370, 565-572.	6.6	54
9633	Improving the electrochemical cycling performance of anode materials via facile in situ surface deposition of a solid electrolyte layer. <i>Journal of Power Sources</i> , 2019, 424, 150-157.	4.0	24
9634	Relieving the "Sudden Death" of Li ₂ O Batteries by Grafting an Antifouling Film on Cathode Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14753-14758.	4.0	15
9635	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. <i>Nature Communications</i> , 2019, 10, 1480.	5.8	260
9636	Hollow TiO ₂ submicrospheres assembled by tiny nanocrystals as superior anode for lithium ion battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23733-23738.	5.2	15
9637	One-pot synthesis of highly conductive nickel-rich phosphide/CNTs hybrid as a polar sulfur host for high-rate and long-cycle Li-S battery. <i>Nano Research</i> , 2019, 12, 1193-1197.	5.8	56
9638	Li ₃ VO ₄ nanoparticles in N-doped carbon with porous structure as an advanced anode material for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 370, 606-613.	6.6	54
9639	Investigating electron transport in a PEDOT/Quinone conducting redox polymer with in situ methods. <i>Electrochimica Acta</i> , 2019, 308, 277-284.	2.6	28
9640	High temperature and high rate lithium-ion batteries with boron nitride nanotubes coated polypropylene separators. <i>Energy Storage Materials</i> , 2019, 19, 352-359.	9.5	82
9641	Suppressed the High-Voltage Phase Transition of P2-Type Oxide Cathode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14848-14853.	4.0	60
9642	Hierarchical Ni(HCO ₃) ₂ Nanosheets Anchored on Carbon Nanofibers as Binder-Free Anodes for Lithium-ion Batteries. <i>Energy Technology</i> , 2019, 7, 1900094.	1.8	10

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9643	Effect of silver coating on electrochemical performance of 0.5Li ₂ MnO ₃ .0.5 LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂ cathode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1593-1604.	1.2	8
9644	The dendrite growth in 3D structured lithium metal anodes: Electron or ion transfer limitation?. <i>Energy Storage Materials</i> , 2019, 23, 556-565.	9.5	126
9645	Facile solvothermal preparation of nanostructured MnF ₂ as outstanding anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 237-241.	1.9	5
9646	Cobalt-doped carbon nitride supported on ordered mesoporous carbon as noble metal-free oxygen reduction electrocatalysts. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 131, 111-118.	1.9	11
9647	Using and recycling V ₂ O ₅ as high performance anode materials for sustainable lithium ion battery. <i>Journal of Power Sources</i> , 2019, 424, 158-164.	4.0	42
9648	Lithium redistribution around the crack tip of lithium-ion battery electrodes. <i>Scripta Materialia</i> , 2019, 167, 11-15.	2.6	21
9649	Capturing Reversible Cation Migration in Layered Structure Materials for Na ⁺ Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900189.	10.2	41
9650	Enhanced electrochemical performances of Li ₂ MnO ₃ cathode materials via adjusting oxygen vacancies content for lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 483, 270-277.	3.1	40
9651	Highly smooth, stable and reflective Ag-paper electrode enabled by silver mirror reaction for organic optoelectronics. <i>Chemical Engineering Journal</i> , 2019, 370, 1048-1056.	6.6	33
9652	Sodium Metal Anodes: Emerging Solutions to Dendrite Growth. <i>Chemical Reviews</i> , 2019, 119, 5416-5460.	23.0	572
9653	Tunable photophysical properties of thiophene based chromophores: a conjoined experimental and theoretical investigation. <i>New Journal of Chemistry</i> , 2019, 43, 6728-6736.	1.4	5
9654	The role of substituents in determining the redox potential of organic electrode materials in Li and Na rechargeable batteries: electronic effects <i>vs.</i> substituent-Li/Na ionic interaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11438-11443.	5.2	33
9655	Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1901047.	7.8	266
9656	In Situ Focused Ion Beam-Scanning Electron Microscope Study of Crack and Nanopore Formation in Germanium Particle During (De)lithiation. <i>ACS Applied Energy Materials</i> , 2019, 2, 2441-2446.	2.5	16
9657	A safe and fast-charging lithium-ion battery anode using MXene supported Li ₃ VO ₄ . <i>Journal of Materials Chemistry A</i> , 2019, 7, 11250-11256.	5.2	106
9658	Dehydration of Alginate Cryogel by TiCl ₄ vapor: Direct Access to Mesoporous TiO ₂ @C Nanocomposites and Their Performance in Lithium Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2660-2670.	3.6	6
9659	Lithium sulfide-based cathode for lithium-ion/sulfur battery: Recent progress and challenges. <i>Energy Storage Materials</i> , 2019, 19, 1-15.	9.5	64
9660	A study of novel hydrophobic P(TFE) particles dispersed electrospun gel polymer electrolyte fibrous membranes. <i>Ionics</i> , 2019, 25, 3683-3693.	1.2	2

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9661	Highly porous MnO/C@rGO nanocomposite derived from Mn-BDC@rGO as high-performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 792, 487-495.	2.8	23
9662	V2O5 nanopaper as a cathode material with high capacity and long cycle life for rechargeable aqueous zinc-ion battery. <i>Nano Energy</i> , 2019, 60, 752-759.	8.2	272
9663	Chemical reduction-induced oxygen deficiency in Co3O4 nanocubes as advanced anodes for lithium ion batteries. <i>Solid State Ionics</i> , 2019, 334, 117-124.	1.3	25
9664	Phase structure and electrical and mechanical properties of PLLA/ionic conductive polyether blends prepared by melt mixing. <i>Polymer Journal</i> , 2019, 51, 649-656.	1.3	2
9665	Stable and ultrafast lithium storage for LiFePO4/C nanocomposites enabled by instantaneously carbonized acetylenic carbon-rich polymer. <i>Carbon</i> , 2019, 147, 19-26.	5.4	31
9666	Stabilizing the reversible capacity of SnO2/graphene composites by Cu nanoparticles. <i>Chemical Engineering Journal</i> , 2019, 367, 45-54.	6.6	49
9667	Ni0.5TiOPO4 phosphate: Sodium insertion mechanism and electrochemical performance in sodium-ion batteries. <i>Journal of Power Sources</i> , 2019, 418, 211-217.	4.0	12
9668	Electrophoretic deposition of LiFePO4 onto 3-D current collectors for high areal loading battery cathodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 241, 42-47.	1.7	21
9669	Unveiling the Origin of Superior Electrochemical Performance in Polycrystalline Dense SnO ₂ Nanospheres as Anodes for Lithium-ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2004-2012.	2.5	14
9670	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807847.	7.8	152
9671	Nip the Sodium Dendrites in the Bud on Planar Doped Graphene in Liquid/Gel Electrolytes. <i>Advanced Functional Materials</i> , 2019, 29, 1807974.	7.8	45
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9673	Understanding the Reaction Chemistry during Charging in Aprotic Lithium-Oxygen Batteries: Existing Problems and Solutions. <i>Advanced Materials</i> , 2019, 31, e1804587.	11.1	254
9674	Small-Sized CuS Nanoparticles/N, S Co-Doped rGO Composites as the Anode Materials for High-Performance Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900038.	1.9	25
9675	Vanadate-Based Materials for Li-Ion Batteries: The Search for Anodes for Practical Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1803324.	10.2	168
9676	High-Abundance and Low-Cost Metal-Based Cathode Materials for Sodium-Ion Batteries: Problems, Progress, and Key Technologies. <i>Advanced Energy Materials</i> , 2019, 9, 1803609.	10.2	176
9677	Recent Progress of Layered Transition Metal Oxide Cathodes for Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1805381.	5.2	246
9678	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged High-Energy-Density and Durable Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019, 29, 1808375.	7.8	568

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9680	Surface-fluorinated Li ₄ Ti ₅ O ₁₂ nanowires/reduced graphene oxide composite as a high-rate anode material for Lithium ion batteries. <i>Applied Surface Science</i> , 2019, 479, 158-166.	3.1	12
9681	Aqueous emulsion of conductive polymer binders for Si anode materials in lithium ion batteries. <i>European Polymer Journal</i> , 2019, 114, 265-270.	2.6	24
9682	Interfacial modification of Li/Garnet electrolyte by a lithiophilic and breathing interlayer. <i>Journal of Power Sources</i> , 2019, 419, 91-98.	4.0	108
9683	Nanostructured SiO ₂ @NiO heterostructure derived from laboratory glass waste as anode material for lithium-ion battery. <i>Ionics</i> , 2019, 25, 1015-1023.	1.2	5
9684	Covalent organic frameworks converted N, B co-doped carbon spheres with excellent lithium ion storage performance at high current density. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 213-221.	5.0	53
9685	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 1998-2004.	4.5	142
9686	Cellulose hydrogel as a flexible gel electrolyte layer. <i>MRS Communications</i> , 2019, 9, 122-128.	0.8	25
9687	FeS@tubular mesoporous carbon as high capacity and long cycle life anode materials for lithium- and sodium-ions batteries. <i>Journal of Alloys and Compounds</i> , 2019, 786, 523-529.	2.8	24
9688	Tetragonal and trigonal Mo ₂ B ₂ monolayers: two new low-dimensional materials for Li-ion and Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5178-5188.	1.3	72
9689	Zirconium-Based Materials for Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2019, 6, 1949-1968.	1.7	5
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9691	Aluminum-Tailored Energy Level and Morphology of Co ₃ xAl _x O ₄ Porous Nanosheets toward Highly Efficient Electrocatalysts for Water Oxidation. <i>Small</i> , 2019, 15, e1804886.	5.2	30
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9693	Overcoming the High-Voltage Limitations of Li-Ion Batteries Using a Titanium Nitride Current Collector. <i>ACS Applied Energy Materials</i> , 2019, 2, 974-978.	2.5	17
9694	Charging toward improved lithium-ion polymer electrolytes: exploiting synergistic experimental and computational approaches to facilitate materials design. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 223-238.	1.7	41
9695	Rapid construction of TiO ₂ /SiO ₂ composite film on Ti foil as lithium-ion battery anode by plasma discharge in solution. <i>Applied Physics Letters</i> , 2019, 114, 043903.	1.5	11
9696	An Efficient Electrocatalyst by Electroless Cobalt-Nickel-Phosphorus Alloy Plating on Three-Dimensional Graphene for Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2019, 166, D69-D76.	1.3	11

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9698	Mechanochemical synthesis of solid-state electrolyte $\text{Sm}_{1-x}\text{Ca}_x\text{F}_3$ for batteries and other electrochemical devices. <i>Materials Letters</i> , 2019, 244, 22-26.	1.3	13
9699	A Layered Lithium-Rich $\text{Li}(\text{Li}_{0.2}\text{Ni}_{0.15}\text{Mn}_{0.55}\text{Co}_{0.1})\text{O}_2$ Cathode Material: Surface Phase Modification and Enhanced Electrochemical Properties for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 1542-1551.	1.7	10
9700	Efficiency of 3D-Ordered Macroporous $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ as an Electrocatalyst for Aprotic LiO_2 Batteries. <i>ChemistryOpen</i> , 2019, 8, 206-209.	0.9	9
9701	Cycling-induced structure refinement of MnO nanorods wrapped by N-doped carbon with internal void space for advanced lithium-ion anodes. <i>Applied Surface Science</i> , 2019, 479, 386-394.	3.1	13
9702	Carbon-coated mixed-metal sulfide hierarchical structure: MOF-derived synthesis and lithium-storage performances. <i>Chemical Engineering Journal</i> , 2019, 366, 622-630.	6.6	86
9703	Sodium ion conducting gel polymer electrolyte using poly(vinylidene fluoride hexafluoropropylene). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 241, 27-35.	1.7	23
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9705	Elucidating the Mechanism Involved in the Performance Improvement of Lithium-Ion Transition Metal Oxide Battery by Conducting Polymer. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801785.	1.9	18
9706	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1803627.	10.2	53
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9708	An end-capped poly(ethylene carbonate)-based concentrated electrolyte for stable cyclability of lithium battery. <i>Electrochimica Acta</i> , 2019, 302, 286-290.	2.6	20
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9711	Disordered surface formation of WS_2 via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 865-874.	2.5	19
9712	An Economic-Environmental Analysis of Lithium Ion Batteries Based on Process Design and a Manufacturing Equipment Database. <i>Journal of Chemical Engineering of Japan</i> , 2019, 52, 111-120.	0.3	1
9713	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1807659.	7.8	174
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9716	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 51-104.	0.3	14
9717	Advanced carbon electrode for electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1061-1081.	1.2	43
9718	High Rate Li-Ion Batteries with Cation-Disordered Cathodes. <i>Joule</i> , 2019, 3, 1064-1079.	11.7	12
9719	Seaweed-Derived Nitrogen-Rich Porous Biomass Carbon as Bifunctional Materials for Effective Electrocatalytic Oxygen Reduction and High-Performance Gaseous Toluene Absorbent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5057-5064.	3.2	43
9720	Diffusion Control of Organic Cathode Materials in Lithium Metal Battery. <i>Scientific Reports</i> , 2019, 9, 1213.	1.6	18
9721	Tailored high cycling performance in a solid polymer electrolyte with perovskite-type $\text{Li}_{0.33}\text{La}_{0.557}\text{TiO}_3$ nanofibers for all-solid-state lithium ion batteries. <i>Dalton Transactions</i> , 2019, 48, 3263-3269.	1.6	52
9722	Operando Investigation into Dynamic Evolution of Cathode-Electrolyte Interfaces in a Li-Ion Battery. <i>Nano Letters</i> , 2019, 19, 2037-2043.	4.5	85
9723	Robust Polyimide Nanofibrous Membrane with Bonding Microstructures Fabricated via Dipping Process for Lithium-Ion Battery Separators. <i>Energy Technology</i> , 2019, 7, 1801072.	1.8	23
9724	Single Additive with Dual Functional-Ions for Stabilizing Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11360-11368.	4.0	49
9725	Few layer covalent organic frameworks with graphene sheets as cathode materials for lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 5330-5335.	2.8	131
9726	Defects, Lithium Mobility and Tetravalent Dopants in the Li_3NbO_4 Cathode Material. <i>Scientific Reports</i> , 2019, 9, 2192.	1.6	28
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9728	A high-entropy metal oxide as chemical anchor of polysulfide for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 23, 678-683.	9.5	163
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9734	Full Dissolution of the Whole Lithium Sulfide Family (Li_2S_8) to Li_2S by H_2O and H_2O_2 . <i>Chemie - International Edition</i> , 2019, 58, 5557-5561.	7.2	93
9735	High-performance $\text{Li}-\text{Fe}_2\text{O}_3/\text{C}$ composite anodes for lithium-ion batteries synthesized by hydrothermal carbonization glucose method used pickled iron oxide red as raw material. <i>Composites Part B: Engineering</i> , 2019, 164, 576-582.	5.9	84
9736	Flexible and Freestanding Silicon/MXene Composite Papers for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10004-10011.	4.0	241
9737	Rational Design of Preintercalated Electrodes for Rechargeable Batteries. <i>ACS Energy Letters</i> , 2019, 4, 771-778.	8.8	77
9738	Hierarchical Co_3O_4 Nanofiber@Carbon Sheet Skeleton with Superior Na/Li-Ionic Property Enabling Highly Stable Alkali Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808847.	7.8	147
9739	Size-Dependent Charge Storage Behavior of Mesoporous Hollow Carbon Spheres for High-Performance $\text{Li}-\text{Se}$ Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5881-5889.	1.5	8
9740	High-Performance Solid Polymer Electrolytes Filled with Vertically Aligned 2D Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1900648.	7.8	140
9741	Fluorolytic Sol-Gel Route and Electrochemical Properties of Polyanionic Transition-Metal Phosphate Fluorides. <i>Chemistry - A European Journal</i> , 2019, 25, 6189-6195.	1.7	8
9742	Highly ordered mesoporous carbons with high specific surface area from carbonated soft drink for supercapacitor application. <i>Microporous and Mesoporous Materials</i> , 2019, 280, 337-346.	2.2	56
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9744	Solid-state polymer electrolytes stabilized by task-specific salt additives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7823-7830.	5.2	70
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9746	Heteromat-framed metal-organic coordination polymer anodes for high-performance lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 19, 130-136.	9.5	21
9747	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6080-6089.	5.2	112
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9749	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019, 3, 1800546.	4.6	34
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9753	Graphene oxide linked with N, Nâ€²-diamino-1,4,5,8-naphthalenetetracarboxylic bisimide as a stable cathode material for lithium-ion batteries. Ionics, 2019, 25, 2987-2995.	1.2	11
9754	Silicon/Carbon Composite Anode Materials for Lithium-Ion Batteries. Electrochemical Energy Reviews, 2019, 2, 149-198.	13.1	205
9755	Asymmetric supercapacitor based on carbon nanofibers as the anode and two-dimensional copper cobalt oxide nanosheets as the cathode. Chemical Engineering Journal, 2019, 366, 390-403.	6.6	113
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9757	A Facile Synthesis of A Novel Cu ₂ Se@CMK-3 Nanocomposite for Rechargeable Sodium Batteries. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012147.	0.3	2
9758	Gas evolution and the effects on ionic transport inside the lithium-ion battery. Engineering Computations, 2019, 37, 1195-1211.	0.7	3
9759	Critical One-Dimensional Absorption-Desorption with Long-Ranged Interaction*. Chinese Physics Letters, 2019, 36, 080501.	1.3	0
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9891	Facile synthesis of Li ₂ S@C composites as cathode for Li- ⁶ S batteries. <i>Journal of Energy Chemistry</i> , 2019, 37, 111-116.	7.1	33
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9898	Bio-inspired low-tortuosity carbon host for high-performance lithium-metal anode. <i>National Science Review</i> , 2019, 6, 247-256.	4.6	57
9899	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. <i>ChemSusChem</i> , 2019, 12, 379-396.	3.6	62
9900	Use of Ce to Reinforce the Interface of Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019, 12, 935-943.	3.6	113
9901	Pillared MXene with Ultralarge Interlayer Spacing as a Stable Matrix for High Performance Sodium Metal Anodes. <i>Advanced Functional Materials</i> , 2019, 29, 1805946.	7.8	242
9902	Dimensionally Designed Carbon-Silicon Hybrids for Lithium Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1806061.	7.8	140
9903	Fabrication of Low-Tortuosity Ultrahigh-Area-Capacity Battery Electrodes through Magnetic Alignment of Emulsion-Based Slurries. <i>Advanced Energy Materials</i> , 2019, 9, 1802472.	10.2	100
9904	Oxygen Electroreduction on Nanoporous Carbons: Textural Features vs Nitrogen and Boron Catalytic Centers. <i>ChemCatChem</i> , 2019, 11, 851-860.	1.8	28
9905	Enhanced lithium storage capability of $\text{FeF}_3 \cdot 0.33\text{H}_2\text{O}$ single crystal with active insertion site exposed. <i>Nano Energy</i> , 2019, 56, 884-892.	8.2	55
9906	Conformal carbon coating on WS ₂ nanotubes for excellent electrochemical performance of lithium-ion batteries. <i>Nanotechnology</i> , 2019, 30, 035401.	1.3	5
9907	Scavenging Materials to Stabilize LiPF_6 -Containing Carbonate-Based Electrolytes for Li-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1804822.	11.1	175
9908	Toward high-rate supercapacitor: Preparation of hierarchical porous carbon binder-free electrode with controllable texture. <i>Applied Surface Science</i> , 2019, 470, 573-580.	3.1	21
9909	A facile and surfactant-free synthesis of porous hollow γ -MnO ₂ 3D nanoarchitectures for lithium ion batteries with superior performance. <i>Journal of Alloys and Compounds</i> , 2019, 778, 37-46.	2.8	44
9910	State-of-health estimation for Li-ion batteries by combing the incremental capacity analysis method with grey relational analysis. <i>Journal of Power Sources</i> , 2019, 410-411, 106-114.	4.0	255
9911	Non-volatile, Li-doped ion gel electrolytes for flexible WO ₃ -based electrochromic devices. <i>Materials and Design</i> , 2019, 162, 45-51.	3.3	53
9912	$\text{Na}_2\text{FePO}_4\text{F}$ Fluorophosphate as Positive Insertion Material for Aqueous Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 444-449.	1.7	27

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9913	Thermal, optical and electrical properties of UV-curing screen-printed glass substrates. <i>Polymer Bulletin</i> , 2019, 76, 4355-4368.	1.7	11
9914	Facile synthesis of hydrated magnesium vanadium bronze $\text{Mg}_{0.25}\text{V}_2\text{O}_5 \cdot \text{H}_2\text{O}$ as a novel cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 777, 931-938.	2.8	7
9915	Carbon fiber@ pore-ZnO composite as anode materials for structural lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 39-46.	1.9	27
9916	One step synthesized hierarchical spherical porous carbon as an efficient electrode material for lithium ion battery. <i>Materials Letters</i> , 2019, 237, 156-160.	1.3	15
9917	Encapsulating highly crystallized mesoporous Fe_3O_4 in hollow N-doped carbon nanospheres for high-capacity long-life sodium-ion batteries. <i>Nano Energy</i> , 2019, 56, 426-433.	8.2	111
9918	A highly reversible Co_3S_4 microsphere cathode material for aluminum-ion batteries. <i>Nano Energy</i> , 2019, 56, 100-108.	8.2	179
9919	Microwave-irradiated reduced graphene oxide nanosheets for highly reversible and ultrafast sodium storage. <i>Journal of Alloys and Compounds</i> , 2019, 778, 382-390.	2.8	9
9920	Composite solid electrolytes for all-solid-state lithium batteries. <i>Materials Science and Engineering Reports</i> , 2019, 136, 27-46.	14.8	311
9921	Anion Coordination Characteristics of Ion-pair Complexes in Highly Concentrated Aqueous Lithium Bis(trifluoromethane- sulfonyl)amide Electrolytes. <i>Analytical Sciences</i> , 2019, 35, 289-294.	0.8	15
9922	Investigation of electrochemical reaction mechanism for antimony selenide nanocomposite for sodium-ion battery electrodes. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 207-216.	1.5	14
9923	Exploring SnS nanoparticles interpenetrated with high concentration nitrogen-doped-carbon as anodes for sodium ion batteries. <i>Electrochimica Acta</i> , 2019, 296, 806-813.	2.6	27
9924	Scalable TiO_2 embedded sulfur bulks@ MnO_2 nanosheets composite cathode for long-cyclic lithium-sulfur batteries. <i>Journal of Solid State Chemistry</i> , 2019, 270, 304-310.	1.4	13
9925	Excellent energy storage performance and thermal property of polymer-based composite induced by multifunctional one-dimensional nanofibers oriented in-plane direction. <i>Nano Energy</i> , 2019, 56, 138-150.	8.2	289
9926	Multilayer iron oxalate with a mesoporous nanostructure as a high-performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 779, 91-99.	2.8	19
9927	A theoretical study on the stability and ionic conductivity of the $\text{Na}_{11}\text{M}_2\text{PS}_{12}$ (M = Sn, Ge) superionic conductors. <i>Journal of Power Sources</i> , 2019, 409, 94-101.	4.0	27
9928	Sulfur, Nitrogen and Fluorine Triple-Doped Metal-Free Carbon Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 741-747.	1.7	33
9929	Redox-Mediator-Enhanced Electrochemical Capacitors: Recent Advances and Future Perspectives. <i>ChemSusChem</i> , 2019, 12, 1118-1132.	3.6	67
9930	Layer by Layer Assemble of Colloid Nanomaterial and Functional Multilayer Films for Energy Storage and Conversion. , 2019, , 255-278.		4

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9931	Ultrafine CuO nanoparticles decorated activated tube-like carbon as advanced anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 296, 206-213.	2.6	33
9932	Ultrathin Sb ₂ S ₃ nanosheet anodes for exceptional pseudocapacitive contribution to multi-battery charge storage. <i>Energy Storage Materials</i> , 2019, 20, 36-45.	9.5	51
9933	Flexible Stable Solid-State Al-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806799.	7.8	177
9934	Solid-State Lithium/Selenium-Sulfur Chemistry Enabled via a Robust Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2019, 9, 1802235.	10.2	63
9935	Cyclic carbonate for highly stable cycling of high voltage lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 17, 284-292.	9.5	115
9936	High-performance LiVPO ₄ F/C cathode constructed by using polyvinylidene fluoride as carbon source and the influencing mechanism for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 778, 345-358.	2.8	10
9937	Pencil-Drawing Skin-Mountable Micro-Supercapacitors. <i>Small</i> , 2019, 15, e1804037.	5.2	42
9938	Ti-doped NaCrO ₂ as cathode materials for sodium-ion batteries with excellent long cycle life. <i>Journal of Alloys and Compounds</i> , 2019, 779, 147-155.	2.8	38
9939	Self-assembled mesoporous Nb ₂ O ₅ as a high performance anode material for rechargeable lithium ion batteries. <i>Materials Research Express</i> , 2019, 6, 035502.	0.8	8
9940	Enhanced Interfacial Stability of Hybrid-Electrolyte Lithium-Sulfur Batteries with a Layer of Multifunctional Polymer with Intrinsic Nanoporosity. <i>Advanced Functional Materials</i> , 2019, 29, 1805996.	7.8	47
9941	K ⁺ storage in porous red blood cell-like hollow carbon. <i>Journal of Alloys and Compounds</i> , 2019, 779, 505-510.	2.8	7
9942	Cross-linked polymer electrolyte and its application to lithium polymer battery. <i>Electrochimica Acta</i> , 2019, 296, 1018-1026.	2.6	31
9943	Small things make big deal: Powerful binders of lithium batteries and post-lithium batteries. <i>Energy Storage Materials</i> , 2019, 20, 146-175.	9.5	118
9944	Surface-Activated Graphite Paper for High-Performance Lithium-Polysulfide Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 276-284.	3.2	6
9945	A review on porous polymer composite materials for multifunctional electronic applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1253-1294.	0.6	19
9946	Preparation of Flexible Self-Supporting 3D SiO ₂ -Based Membrane Anodes with Stabilized Electrochemical Performances for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800635.	1.8	8
9947	Bifunctional poly(ethylene glycol) based crosslinked network polymers as electrolytes for all-solid-state lithium ion batteries. <i>Polymer International</i> , 2019, 68, 684-693.	1.6	32
9948	Synthesis and Characterization of Alginate-Based Sol-Gel Synthesis of Lithium Nickel Phosphate with Surface Area Control. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 625-631.	1.8	4

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9949	Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1805227.	7.8	79
9950	Direct Growth of MoO ₂ /Reduced Graphene Oxide Hollow Sphere Composites as Advanced Anode Materials for Potassium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 873-880.	3.6	100
9951	LiFePO ₄ /Carbon/Reduced Graphene Oxide Nanostructured Composite as a High Capacity and Fast Rate Cathode Material for Rechargeable Lithium Ion Battery. <i>Catalysis Letters</i> , 2019, 149, 7-18.	1.4	7
9952	Phase transition induced synthesis of one dimensional In _{1-x} Zn _x O _y heterogeneous nanofibers for superior lithium ion storage. <i>Applied Surface Science</i> , 2019, 470, 340-347.	3.1	11
9953	Enhanced Lithium-Ion Conductivity of Polymer Electrolytes by Selective Introduction of Hydrogen into the Anion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7829-7834.	7.2	59
9954	Vanadium (III) Oxide/Carbon Core/Shell Hybrids as an Anode for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 74-82.	2.4	10
9955	A Simple and Low-Cost Method to Synthesize Cr-Doped Fe ₂ O ₃ Electrode Materials for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 856-864.	1.7	30
9956	Fading Mechanisms and Voltage Hysteresis in FeF ₂ -NiF ₂ Solid Solution Cathodes for Lithium and Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1804670.	5.2	62
9957	Exploiting oleic acid to prepare two-dimensional assembly of Si@graphitic carbon yolk-shell nanoparticles for lithium-ion battery anodes. <i>Nano Research</i> , 2019, 12, 631-636.	5.8	21
9958	Heterogeneous carbon/N-doped reduced graphene oxide wrapping LiMn _{0.8} Fe _{0.2} PO ₄ composite for higher performance of lithium ion batteries. <i>Applied Surface Science</i> , 2019, 476, 513-520.	3.1	22
9959	Porous Ni ₃ (PO ₄) ₂ thin film as a binder-free and low-cost anode of a high-capacity lithium-ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 81-85.	1.9	9
9960	A crosslinked nonwoven separator based on an organosoluble polyimide for high-performance lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 390-399.	2.9	36
9961	Alkali ions pre-intercalated layered vanadium oxide nanowires for stable magnesium ions storage. <i>Nano Energy</i> , 2019, 58, 347-354.	8.2	72
9962	Improved Transport Properties and Novel Li Diffusion Dynamics in van der Waals C ₂ N/Graphene Heterostructure as Anode Materials for Lithium-Ion Batteries: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3353-3367.	1.5	43
9963	Mitigating the Interfacial Degradation in Cathodes for High-Performance Oxide-Based Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4954-4961.	4.0	83
9964	Revealing the Reaction Mechanism of Sodium Selenide Confined within a Single-Walled Carbon Nanotube: Implications for Na-Se Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4995-5002.	4.0	27
9965	Improvement of Li-Sulfur Cell Cycling Performance by Use of Fe _{1-x} S@NC as a Functional Additive for Chemical Confinement of Lithium Polysulfides. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5201-A5209.	1.3	18
9966	Ag Embedded Li ₃ VO ₄ as Superior Anode for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5295-A5300.	1.3	22

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9967	Anchoring an Artificial Solidâ€“Electrolyte Interphase Layer on a 3D Current Collector for Highâ€“Performance Lithium Anodes. <i>Angewandte Chemie</i> , 2019, 131, 2115-2119.	1.6	11
9968	The effects of the size and content of BaTiO ₃ nanoparticles on solid polymer electrolytes for all-solid-state lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 749-758.	1.2	24
9969	Wettability in electrodes and its impact on the performance of lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 18, 139-147.	9.5	110
9970	WS ₂ -decorated graphene foam@CNTs hybrid anode for enhanced lithium-ion storage. <i>Journal of Alloys and Compounds</i> , 2019, 784, 697-703.	2.8	18
9971	Carbon@carbon double hollow spheres as efficient cathode host for high rate Li S battery. <i>Materials Chemistry and Physics</i> , 2019, 225, 309-315.	2.0	8
9972	Rational design of multi-channel continuous electronic/ionic conductive networks for room temperature vanadium tetrasulfide-based all-solid-state lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 57, 771-782.	8.2	104
9973	B ₄ C nanoskeleton enabled, flexible lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 58, 30-39.	8.2	82
9974	Energy autonomous electronic skin. <i>Npj Flexible Electronics</i> , 2019, 3, .	5.1	245
9975	A Platinum Reference Electrode for Ion-Sensitive Field-Effect Transistor. <i>IEEE Sensors Journal</i> , 2019, 19, 2003-2008.	2.4	3
9976	Sb ₂ S ₃ added bio-carbon: Demonstration of potential anode in lithium and sodium-ion batteries. <i>Carbon</i> , 2019, 144, 772-780.	5.4	47
9977	Al-Doped Li[Ni _{0.78} Co _{0.1} Mn _{0.1} Al _{0.02}] ₂ O ₇ for High Performance of Lithium Ion Batteries. <i>Ceramics International</i> , 2019, 45, 6972-6977.	2.3	78
9978	Design of polydopamine-encapsulation multiporous MnO cross-linked with polyacrylic acid binder for superior lithium ion battery anode. <i>Journal of Alloys and Compounds</i> , 2019, 783, 341-348.	2.8	14
9979	Silicon-Based Anodes with Long Cycle Life for Lithium-Ion Batteries Achieved by Significant Suppression of Their Volume Expansion in Ionic-Liquid Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2950-2960.	4.0	68
9980	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019, 10, 73.	5.8	291
9981	Nanoparticle Emissions From Metal-Assisted Chemical Etching of Silicon Nanowires for Lithium Ion Batteries. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.8	3
9982	Enhanced Lithiumâ€“ion Conductivity of Polymer Electrolytes by Selective Introduction of Hydrogen into the Anion. <i>Angewandte Chemie</i> , 2019, 131, 7911-7916.	1.6	51
9983	Mesoporous Ce ₂ Zr ₂ O ₇ /PbS Nanocomposite with an Excellent Supercapacitor Electrode Performance and Cyclic Stability. <i>ChemistrySelect</i> , 2019, 4, 655-661.	0.7	17
9984	Synthesis of hierarchical Mn ₃ O ₄ microsphere composed of ultrathin nanosheets and its excellent long-term cycling performance for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3055-3060.	1.1	3

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9985	Poly(ethylene oxide)-based composite polymer electrolytes embedding with ionic bond modified nanoparticles for all-solid-state lithium-ion battery. <i>Journal of Membrane Science</i> , 2019, 575, 200-208.	4.1	102
9986	Enhanced Electrochemical Performance of Lithium-Sulfur Batteries with Surface Copolymerization of Cathode. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5349-A5353.	1.3	13
9987	Flexible Sub-Micro Carbon Fiber@CNTs as Anodes for Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5015-5021.	4.0	69
9988	Improvement of the Cationic Transport in Polymer Electrolytes with (Difluoromethanesulfonyl)(trifluoromethanesulfonyl)imide Salts. <i>ChemElectroChem</i> , 2019, 6, 1019-1022.	1.7	29
9989	Vertically Grown Few-Layer MoS ₂ Nanosheets on Hierarchical Carbon Nanocages for Pseudocapacitive Lithium Storage with Ultrahigh-Rate Capability and Long-Term Recyclability. <i>Chemistry - A European Journal</i> , 2019, 25, 3843-3848.	1.7	11
9990	Amide-Functionalized Porous Carbonaceous Anode Materials for Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2019, 20, 752-756.	1.0	3
9991	Role of alloying in Cu ₂ O conversion anode for Li-ion batteries. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	2
9993	Functional Electrocatalysts Derived from Prussian Blue and its Analogues for Metal-Air Batteries: Progress and Prospects. <i>Batteries and Supercaps</i> , 2019, 2, 290-310.	2.4	36
9994	Sodium-Ion Hybrid Battery Combining an Anion-Intercalation Cathode with an Adsorption-Type Anode for Enhanced Rate and Cycling Performance. <i>Batteries and Supercaps</i> , 2019, 2, 440-447.	2.4	46
9995	Adsorption and diffusion of alkali-atoms (Li, Na, and K) on BeN dual doped graphene. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25900.	1.0	16
9996	An investigation on strength distribution, subcritical crack growth and lifetime of the lithium-ion conductor Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Journal of Materials Science</i> , 2019, 54, 5671-5681.	1.7	27
9997	Effect of PPR on the pore formation behavior and pore performances of β -iPP microporous membrane used for Lithium-ion battery separator. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	9
9998	Enhanced Roles of Carbon Architectures in High-Performance Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 5.	14.4	56
9999	Fabrication of uniform Si-incorporated SnO ₂ nanoparticles on graphene sheets as advanced anode for Li-ion batteries. <i>Applied Surface Science</i> , 2019, 476, 28-35.	3.1	20
10000	Ru nanosheet catalyst supported by three-dimensional nickel foam as a binder-free cathode for Li-CO ₂ batteries. <i>Electrochimica Acta</i> , 2019, 299, 592-599.	2.6	55
10001	Suppressing Li dendrite by a protective biopolymeric film from tamarind seed polysaccharide for high-performance Li metal anode. <i>Electrochimica Acta</i> , 2019, 299, 636-644.	2.6	34
10002	Thermal stability of ternary compounds in the Cu-Li-Sn system and phase transition of the Cu ₆ Sn ₅ electrode: First-principles calculations and experiment. <i>Journal of Alloys and Compounds</i> , 2019, 783, 44-54.	2.8	2
10003	Decoupling of heat generated from ejected and non-ejected contents of 18650-format lithium-ion cells using statistical methods. <i>Journal of Power Sources</i> , 2019, 415, 207-218.	4.0	67

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10004	Chemical and Electrochemical Alkali Cations Intercalation/Release in an Ionic Hydrogen Bonded Network. <i>Inorganic Chemistry</i> , 2019, 58, 1541-1547.	1.9	1
10005	Three-Dimensional Porous Cobalt Phosphide Nanocubes Encapsulated in a Graphene Aerogel as an Advanced Anode with High Coulombic Efficiency for High-Energy Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5373-5379.	4.0	78
10006	Ti ₃ C ₂ T _x MXene decorated with Sb nanoparticles as anodes material for sodium-ion batteries. <i>Nanotechnology</i> , 2019, 30, 134001.	1.3	42
10007	CoFe ₂ O ₄ nanoparticles directly grown on carbon nanotube with coralline structure as anodes for lithium ion battery. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4174-4183.	1.1	15
10008	High-performance rechargeable Li-CO ₂ /O ₂ battery with Ru/N-doped CNT catalyst. <i>Chemical Engineering Journal</i> , 2019, 363, 224-233.	6.6	58
10009	A facile strategy toward sodium-ion batteries with ultra-long cycle life and high initial Coulombic Efficiency: Free-standing porous carbon nanofiber film derived from bacterial cellulose. <i>Energy Storage Materials</i> , 2019, 22, 105-112.	9.5	87
10010	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 38, 94-113.	7.1	104
10011	Facile Synthesis of quantum dots SnO ₂ /Fe ₃ O ₄ hybrid composites for superior reversible lithium-ion storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 504-511.	2.9	26
10012	Characterization of Cu ₃ N/CuO thin films derived from annealed Cu ₃ N for electrode application in Li-ion batteries. <i>Thin Solid Films</i> , 2019, 672, 157-164.	0.8	18
10013	Achieving three-dimensional lithium sulfide growth in lithium-sulfur batteries using high-donor-number anions. <i>Nature Communications</i> , 2019, 10, 188.	5.8	203
10014	Scalable synthesis of Sn nanoparticles encapsulated in hierarchical porous carbon networks for high-rate reversible lithium storage. <i>International Journal of Nanomanufacturing</i> , 2019, 15, 105.	0.3	0
10015	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. <i>Condensed Matter</i> , 2019, 4, 5.	0.8	44
10016	Concentration dependent properties lead to plastic ratcheting in thin island electrodes on substrate under cyclic charging and discharging. <i>Acta Materialia</i> , 2019, 164, 261-271.	3.8	15
10017	Effect of MgO and TiO ₂ Coating on the Electrochemical Performance of Li-Rich Cathode Materials for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800829.	1.8	36
10018	High-rate and long-cycle life performance of nano-porous nano-silicon derived from mesoporous MCM-41 as an anode for lithium-ion battery. <i>Electrochimica Acta</i> , 2019, 294, 357-364.	2.6	38
10019	Investigation on polyvinyl alcohol and sodium alginate as aqueous binders for lithium-titanium oxide anode in lithium-ion batteries. <i>Ionics</i> , 2019, 25, 2549-2561.	1.2	27
10020	Recent advances in Li _{1+x} Al _x Ti _{2-3x} (PO ₄) ₃ solid-state electrolyte for safe lithium batteries. <i>Energy Storage Materials</i> , 2019, 19, 379-400.	9.5	210
10021	Renewable-lawsone-based sustainable and high-voltage aqueous flow battery. <i>Energy Storage Materials</i> , 2019, 19, 62-68.	9.5	30

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10022	Progress of enhancing the safety of lithium ion battery from the electrolyte aspect. <i>Nano Energy</i> , 2019, 55, 93-114.	8.2	533
10023	Porous Polymers as Multifunctional Material Platforms toward Task-Specific Applications. <i>Advanced Materials</i> , 2019, 31, e1802922.	11.1	315
10024	Rational Design of Carbon-Rich Materials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2019, 31, e1804973.	11.1	74
10025	Unlocking the coupling mechanical-electrochemical behavior of lithium-ion battery upon dynamic mechanical loading. <i>Energy</i> , 2019, 166, 951-960.	4.5	80
10026	Crafting Inorganic Materials for Use in Energy Capture and Storage. <i>Langmuir</i> , 2019, 35, 9101-9114.	1.6	7
10027	Novel Propulsion Systems for Micro Aerial Vehicles. <i>Journal of Propulsion and Power</i> , 2019, 35, 243-267.	1.3	3
10028	Facile synthesis of SiO ₂ /C anode using PVC as carbon source for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 69-78.	1.1	8
10029	The effect of Fe as an impurity element for sustainable resynthesis of Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ cathode material from spent lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 296, 814-822.	2.6	66
10030	Ultrafine FeSe nanoparticles embedded into 3D carbon nanofiber aerogels with FeSe/Carbon interface for efficient and long-life sodium storage. <i>Carbon</i> , 2019, 143, 106-115.	5.4	78
10031	Hydrothermal crystallization of Pmn21 Li ₂ FeSiO ₄ hollow mesocrystals for Li-ion cathode application. <i>Chemical Engineering Journal</i> , 2019, 359, 1592-1602.	6.6	26
10032	A novel dense LiCoO ₂ microcrystalline buffer layer on a cathode-electrolyte interface for all-solid-state lithium batteries prepared by the magnetron sputtering method. <i>Electrochimica Acta</i> , 2019, 295, 677-683.	2.6	8
10033	Highly conductive C-Si@C nanocomposite as a high-performance anode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2019, 295, 719-725.	2.6	41
10034	Preparation of dual layers N-doped Carbon@Mesoporous Carbon@Fe ₃ O ₄ nanoparticle superlattice and its application in lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 775, 776-783.	2.8	36
10035	Porous CoP/C@MCNTs hybrid composite derived from metal-organic frameworks for high-performance lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 3273-3283.	1.7	29
10036	Topological construction of phosphorus and carbon composite and its application in energy storage. <i>Energy Storage Materials</i> , 2019, 20, 343-372.	9.5	43
10037	Bundled and dispersed carbon nanotube assemblies on graphite superstructures as free-standing lithium-ion battery anodes. <i>Carbon</i> , 2019, 142, 238-244.	5.4	40
10038	Yolk@Shell SiO ₂ /C microspheres with semi-graphitic carbon coating on the exterior and interior surfaces for durable lithium storage. <i>Energy Storage Materials</i> , 2019, 19, 299-305.	9.5	167
10039	High-Voltage Supercapacitors Based on Aqueous Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 976-988.	1.7	133

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10041	Concentrated electrolytes unlock the full energy potential of potassium-sulfur battery chemistry. <i>Energy Storage Materials</i> , 2019, 18, 470-475.	9.5	72
10042	Nanostructured sodium vanadate arrays as an advanced cathode material in high-performance sodium-ion batteries. <i>Materials Letters</i> , 2019, 237, 122-125.	1.3	4
10043	Highly efficient extraction of lithium from salt lake brine by LiAl-layered double hydroxides as lithium-ion-selective capturing material. <i>Journal of Energy Chemistry</i> , 2019, 34, 80-87.	7.1	68
10044	Fe-MOF derived jujube pit like Fe ₃ O ₄ /C composite as sulfur host for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2019, 295, 444-451.	2.6	101
10045	Electro-deposition preparation of self-standing Cu-Sn alloy anode electrode for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 775, 818-825.	2.8	26
10046	Magnesium Anodes with Extended Cycling Stability for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806400.	7.8	12
10047	Constructing Heterointerface of Metal Atomic Layer and Amorphous Anode Material for High-Capacity and Fast Lithium Storage. <i>ACS Nano</i> , 2019, 13, 830-838.	7.3	74
10048	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. <i>Nanoscale</i> , 2019, 11, 16-33.	2.8	184
10049	Novel Cerium Hexacyanoferrate(II) as Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 187-191.	2.5	26
10050	Understanding the Effect of Atomic-Scale Surface Migration of Bridging Ions in Binding Li ₃ PO ₄ to the Surface of Spinel Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6937-6947.	4.0	21
10051	Understanding Interactions between Lead Iodide Perovskite Surfaces and Lithium Polysulfide toward New-Generation Integrated Solar-Powered Lithium Battery: An ab Initio Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 82-90.	1.5	10
10052	Silicon rods as a negative electrode material for lithium-ion cells: Quantum chemical modeling. <i>Chemical Physics</i> , 2019, 519, 45-51.	0.9	2
10053	Adsorption of Na on silicene for potential anode for Na-ion batteries. <i>Electrochimica Acta</i> , 2019, 297, 497-503.	2.6	35
10054	LiY(MoO ₄) ₂ nanotubes: Novel zero-strain anode for electrochemical energy storage. <i>Energy Storage Materials</i> , 2019, 21, 297-307.	9.5	27
10055	Partial self-sacrificing templates synthesis of sandwich-like mesoporous C N@Fe ₃ O ₄ @C N hollow spheres for high-performance Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1816-1826.	3.8	16
10056	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805062.	11.1	31
10057	Graphene Network Scaffolded Flexible Electrodes—From Lithium to Sodium Ion Batteries. <i>Springer Theses</i> , 2019, , .	0.0	0

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10059	Recent Advances in 3D Graphene Architectures and Their Composites for Energy Storage Applications. <i>Small</i> , 2019, 15, e1803858.	5.2	99
10060	Structure and Interaction of Ionic Liquid Monolayer on Graphite from First-Principles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 618-624.	1.5	8
10061	TiO ₂ -modified red phosphorus nanosheets entangled in carbon nanotubes for high performance lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 297, 319-327.	2.6	26
10062	CTAB-assisted synthesis of ZnCo ₂ O ₄ nanoparticles embedded in N-doped carbon as superior anode materials for lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 780, 897-906.	2.8	29
10063	Lithium Plating and Stripping on Carbon Nanotube Sponge. <i>Nano Letters</i> , 2019, 19, 494-499.	4.5	101
10064	Rechargeable aluminium organic batteries. <i>Nature Energy</i> , 2019, 4, 51-59.	19.8	283
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10067	Challenges and recent progress in the design of advanced electrode materials for rechargeable Mg batteries. <i>Energy Storage Materials</i> , 2019, 20, 118-138.	9.5	104
10068	Understanding the role of conductive polymer in thermal lithiation and battery performance of Li-Sn alloy anode. <i>Energy Storage Materials</i> , 2019, 20, 7-13.	9.5	32
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10071	Hexagonal boron phosphide as a potential anode nominee for alkali-based batteries: A multi-flavor DFT study. <i>Applied Surface Science</i> , 2019, 471, 134-141.	3.1	49
10072	Core-shell Si@c-PAN particles deposited on graphite as promising anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 297, 355-364.	2.6	42
10073	Low-temperature synthesis of cubic phase Li ₇ La ₃ Zr ₂ O ₁₂ via sol-gel and ball milling induced phase transition. <i>Journal of Power Sources</i> , 2019, 412, 189-196.	4.0	36
10074	Designed Nanoarchitectures by Electrostatic Spray Deposition for Energy Storage. <i>Advanced Materials</i> , 2019, 31, e1803408.	11.1	48
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10077	Effects of carbon coating on LiNi _{0.5} Mn _{1.5} O ₄ cathode material for lithium ion batteries using an atmospheric microwave plasma torch. <i>Surface and Coatings Technology</i> , 2019, 376, 25-30.	2.2	13
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10080	Ionic liquids for electrochemical energy storage devices applications. <i>Journal of Materials Science and Technology</i> , 2019, 35, 674-686.	5.6	161
10081	3D hierarchical structure of MoS ₂ @G-CNT combined with post-film annealing for enhanced lithium-ion storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 116-126.	2.9	13
10082	A corrosion-resistant current collector for lithium metal anodes. <i>Energy Storage Materials</i> , 2019, 18, 199-204.	9.5	48
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10084	Tin sulfide modified separator as an efficient polysulfide trapper for stable cycling performance in Li-S batteries. <i>Nanoscale Horizons</i> , 2019, 4, 214-222.	4.1	92
10085	Dendrite-free all-solid-state lithium batteries with lithium phosphorous oxynitride-modified lithium metal anode and composite solid electrolytes. <i>Nano Research</i> , 2019, 12, 217-223.	5.8	61
10086	In-situ and Operando Tracking of Microstructure and Volume Evolution of Silicon Electrodes by using Synchrotron X-ray Imaging. <i>ChemSusChem</i> , 2019, 12, 261-269.	3.6	20
10087	Cu ₉ S ₅ Nanoflower Cathode for Mg Secondary Batteries: High Performance and Reaction Mechanism. <i>Energy Technology</i> , 2019, 7, 1800777.	1.8	15
10088	Ultrafine CoSe nano-crystallites confined in leaf-like N-doped carbon for long-cyclic and fast sodium ion storage. <i>Electrochimica Acta</i> , 2019, 294, 173-182.	2.6	63
10089	Spray-Assisted Synthesis of MnO@C/Graphene Composites as Electrode Materials for Supercapacitors. <i>Energy Technology</i> , 2019, 7, 1800625.	1.8	6
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10095	Computational analysis and identification of battery materials. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	8
10096	Ultra-thin Coating and Three-Dimensional Electrode Structures to Boosted Thick Electrode Lithium-ion Battery Performance. <i>Batteries and Supercaps</i> , 2019, 2, 139-143.	2.4	11
10097	Enabling Reversible (De)Lithiation of Aluminum by using Bis(fluorosulfonyl)imide-Based Electrolytes. <i>ChemSusChem</i> , 2019, 12, 208-212.	3.6	19
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10105	A dislocation-based solution for stress introduced by arbitrary volume expansion in cylinders. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 598-615.	1.5	1
10106	Rechargeable batteries based on anion intercalation graphite cathodes. <i>Energy Storage Materials</i> , 2019, 16, 65-84.	9.5	183
10107	Flame-retardant properties of in situ sol-gel synthesized inorganic borosilicate/silicate polymer scaffold matrix comprising ionic liquid. <i>Frontiers in Energy</i> , 2019, 13, 163-171.	1.2	1
10108	Sodium metal anodes for room-temperature sodium-ion batteries: Applications, challenges and solutions. <i>Energy Storage Materials</i> , 2019, 16, 6-23.	9.5	243
10109	Nature of extra capacity in MoS ₂ electrodes: Molybdenum atoms accommodate with lithium. <i>Energy Storage Materials</i> , 2019, 16, 37-45.	9.5	218
10110	Experimental study on combustion behavior of mixed carbonate solvents and separator used in lithium-ion batteries. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1255-1264.	2.0	8
10111	Dendrite-free lithium deposition by coating a lithiophilic heterogeneous metal layer on lithium metal anode. <i>Energy Storage Materials</i> , 2020, 24, 635-643.	9.5	139

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10115	<i>Nanomaterials</i> , 2020, , 515-539.		3
10116	Kathodenmaterialien für wiederaufladbare Lithiumbatterien. <i>Angewandte Chemie</i> , 2020, 132, 2598-2626.	1.6	21
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10120	Metal-organic-framework-derived formation of Co-N-doped carbon materials for efficient oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2020, 40, 137-143.	7.1	74
10121	Mesoporous hollow carbon spheres boosted, integrated high performance aqueous Zn-Ion energy storage. <i>Energy Storage Materials</i> , 2020, 25, 858-865.	9.5	289
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10124	A polyethylene microsphere-coated separator with rapid thermal shutdown function for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 44, 33-40.	7.1	59
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10126	Mixed-metal borate FeVBO ₄ of tunnel structure: Synthesis and electrochemical properties in lithium and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152165.	2.8	10
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10128	Rearrangement on surface structures by boride to enhanced cycle stability for LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ cathode in lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 45, 110-118.	7.1	42
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10134	N plasma treatment on graphene oxide-MoS ₂ composites for improved performance in lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2020, 240, 122169.	2.0	29
10135	Identification of a better charge redox mediator for lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2020, 25, 795-800.	9.5	17
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10138	Hierarchical porous carbons from polysaccharides carboxymethyl cellulose, bacterial cellulose, and citric acid for supercapacitor. <i>Carbohydrate Polymers</i> , 2020, 227, 115346.	5.1	81
10139	In situ welding: Superb strength, good wettability and fire resistance tri-layer separator with shutdown function for high-safety lithium ion battery. <i>Journal of Membrane Science</i> , 2020, 595, 117509.	4.1	44
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10145	High C-rate performance of LiFePO ₄ /carbon nanofibers composite cathode for Li-ion batteries. <i>Current Applied Physics</i> , 2020, 20, 1-4.	1.1	26
10146	Effect of surface amphiphilic property of azobenzene self-assembled electrode materials on properties of supercapacitors. <i>Ionics</i> , 2020, 26, 523-529.	1.2	0
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10149	A green-synthetic spiderweb-like Si@Graphene-oxide anode material with multifunctional citric acid binder for high energy-density Li-ion batteries. <i>Carbon</i> , 2020, 157, 330-339.	5.4	90
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10151	Decoupling the mechanical strength and ionic conductivity of an ionogel polymer electrolyte for realizing thermally stable lithium-ion batteries. <i>Journal of Membrane Science</i> , 2020, 595, 117549.	4.1	32
10152	Layered Transition Metal Dichalcogenide-Based Nanomaterials for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1903826.	11.1	329
10153	Lithium-Schwefel-Batterien mit Magerelektrolyt: Herausforderungen und Perspektiven. <i>Angewandte Chemie</i> , 2020, 132, 12736-12753.	1.6	33
10154	Metal-Organic Framework-Templated Hollow Co ₃ O ₄ /C with Controllable Oxygen Vacancies for Efficient Oxygen Evolution Reaction. <i>ChemNanoMat</i> , 2020, 6, 107-112.	1.5	13
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10156	Composition Modulation and Structure Design of Inorganic-Polymer Composite Solid Electrolytes for Advanced Lithium Batteries. <i>Small</i> , 2020, 16, e1902813.	5.2	87
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10158	Molecular Dynamics Simulations of Polymer-Ionic Liquid (1-Ethyl-3-methylimidazolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (Information and Modeling, 2020, 60, 485-499.	2.5	23
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10167	Constructing enhanced pseudocapacitive Li ⁺ intercalation via multiple ionically bonded interfaces toward advanced lithium storage. <i>Energy Storage Materials</i> , 2020, 24, 138-146.	9.5	30
10168	Single-phase P2-type layered oxide with Cu-substitution for sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 148-154.	7.1	45
10169	Construction of highly dispersed and electroconductive silver nanoparticles modified mesoporous Co ₃ O ₄ hollow nanoboxes from Prussian blue analogues for boosting lithium storage performances. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152305.	2.8	17
10170	Boosting oxygen reduction catalysis with tailorable active-N-dominated doped defective CNTs. <i>Applied Surface Science</i> , 2020, 499, 143844.	3.1	12
10171	Ultrafine MoO ₃ anchored in coal-based carbon nanofibers as anode for advanced lithium-ion batteries. <i>Carbon</i> , 2020, 156, 445-452.	5.4	84
10172	Synthesis of Bi ₂ S ₃ /C yolk-shell composite based on sulfur impregnation for efficient sodium storage. <i>Chemical Engineering Journal</i> , 2020, 383, 123094.	6.6	45
10173	Influence of hydrogen bonding on the crystallization behavior of poly(ethylene oxide)/ionic liquids mixtures. <i>Applied Surface Science</i> , 2020, 501, 144251.	3.1	9
10174	Na ⁺ /vacancies promise excellent electrochemical properties for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 383, 123087.	6.6	21
10175	Fluorophosphorus derivative forms a beneficial film on both electrodes of high voltage lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 236-243.	5.0	6
10176	Synthesis of ±-LiFeO ₂ /Graphene nanocomposite via layer by layer self-assembly strategy for lithium-ion batteries with excellent electrochemical performance. <i>Journal of Materials Science and Technology</i> , 2020, 55, 173-181.	5.6	12
10177	Single lithium-ion channel polymer binder for stabilizing sulfur cathodes. <i>National Science Review</i> , 2020, 7, 315-323.	4.6	43
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10179	A high-performance layered Cr-Based cathode for sodium-ion batteries. <i>Nano Energy</i> , 2020, 67, 104215.	8.2	40
10180	In situ encapsulation of Co/Co ₃ O ₄ nanoparticles in nitrogen-doped hierarchically ordered porous carbon as high performance anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 380, 122545.	6.6	35
10181	A review on mechanistic understanding of MnO ₂ in aqueous electrolyte for electrical energy storage systems. <i>International Materials Reviews</i> , 2020, 65, 356-387.	9.4	121
10182	Highly stable Ni-rich layered oxide cathode enabled by a thick protective layer with bio-tissue structure. <i>Energy Storage Materials</i> , 2020, 24, 291-296.	9.5	51
10183	Continuous Hydrothermal Synthesis of Metal Germanates (M ₂ GeO ₄ ; M = Co, Mn, Zn) for High-Capacity Negative Electrodes in Li-Ion Batteries. <i>Energy Technology</i> , 2020, 8, 1900692.	1.8	8

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10185	A Sine-Wave Heating Circuit for Automotive Battery Self-Heating at Subzero Temperatures. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 3355-3365.	7.2	65
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10187	Graphene based polymer electrolyte membranes for electro-chemical energy applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17029-17056.	3.8	37
10188	Progress on iron oxides and chalcogenides as anodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 379, 122261.	6.6	90
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10190	New conversion chemistry of CuSO ₄ as ultra-high-energy cathode material for rechargeable sodium battery. <i>Energy Storage Materials</i> , 2020, 24, 458-466.	9.5	20
10191	Enhanced active sulfur in soft carbon via synergistic doping effect for ultra-stable lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 450-457.	9.5	46
10192	Recent advances in graphene based materials as anode materials in sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 42, 91-107.	7.1	94
10193	Sodium storage property and mechanism of NaCr _{1/4} Fe _{1/4} Ni _{1/4} Ti _{1/4} O ₂ cathode at various cut-off voltages. <i>Energy Storage Materials</i> , 2020, 24, 417-425.	9.5	25
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10196	Halogenid-Based Materials and Chemistry for Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5902-5949.	7.2	142
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10199	A facile grinding approach to embed red phosphorus in N,P-codoped hierarchical porous carbon for superior lithium storage. <i>Science China Materials</i> , 2020, 63, 55-61.	3.5	16
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10217	Ferroferric oxide nanoclusters decorated Ti ₃ C ₂ T _x nanosheets as high performance anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2020, 329, 135146.	2.6	41
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10221	2D Materials as Ionic Sieves for Inhibiting the Shuttle Effect in Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2294-2302.	1.7	20
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10251	Electrochemical performance enhancement of porous Si lithium-ion battery anode by integrating with optimized carbonaceous materials. <i>Electrochimica Acta</i> , 2020, 337, 135687.	2.6	39
10252	Review–Energy Autonomous Wearable Sensors for Smart Healthcare: A Review. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037516.	1.3	74
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10262	A new design strategy for redox-active molecular assemblies with crystalline porous structures for lithium-ion batteries. <i>Chemical Science</i> , 2020, 11, 37-43.	3.7	35
10263	Intermolecular cyclic polysulfides as cathode materials for rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 87-90.	5.2	27
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10266	Sandwich-Like C@SnS@TiO ₂ Anodes with High Power and Long Cycle for Li-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5857-5865.	4.0	25
10267	Covalent fixing of sulfur in metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2020, 13, 432-471.	15.6	118
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10277	Quantification of Anionic Redox Chemistry in a Prototype Na-Rich Layered Oxide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3617-3623.	4.0	18
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10279	A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5273-5277.	7.2	189
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10281	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , 2020, 14, 1243-1295.	7.3	484
10282	Bioinspired hierarchical cross-linked graphene-silicon nanofilms <i>via</i> synergistic interfacial interactions as integrated negative electrodes for high-performance lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2105-2114.	1.3	8
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10286	Emerging polyanionic and organic compounds for high energy density, non-aqueous potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16061-16080.	5.2	37
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10293	Bco-C24: A new 3D Dirac nodal line semi-metallic carbon honeycomb for high performance metal-ion battery anodes. <i>Carbon</i> , 2020, 159, 542-548.	5.4	30
10294	Phosphorus-sulfur/graphene composites as flexible lithium-sulfur battery cathodes with super high volumetric capacity. <i>Chemical Engineering Journal</i> , 2020, 387, 123904.	6.6	23
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10299	Template-assisted molten-salt synthesis of hierarchical lithium-rich layered oxide nanowires as high-rate and long-cycling cathode materials. <i>Electrochimica Acta</i> , 2020, 333, 135558.	2.6	20
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10305	Polymer electrolyte with dual functional groups designed via theoretical calculation for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2020, 450, 227614.	4.0	22
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10307	Effect of Zwitterionic Molecules on Ionic Transport under Electric Fields: A Molecular Simulation Study. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 385-395.	1.0	8
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10314	Phosphorus-Amine-Based Synthesis of Nanoscale Red Phosphorus for Application to Sodium-Ion Batteries. <i>ACS Nano</i> , 2020, 14, 974-984.	7.3	57
10315	Fabrication of red phosphorus anode for fast-charging lithium-ion batteries based on TiN/TiP ₂ -enhanced interfacial kinetics. <i>Energy Storage Materials</i> , 2020, 26, 147-156.	9.5	29
10316	Surface and Interfacial Chemistry in the Nickel-Rich Cathode Materials. <i>Batteries and Supercaps</i> , 2020, 3, 309-322.	2.4	29
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10318	Pyrite-type cobalt phosphosulphide bifunctional catalyst for aqueous and gel-based rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2020, 450, 227661.	4.0	23
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10323	Enhanced Li Ion Storage Performances of Carbon Black by Introducing Organosulfur Groups on Surface. <i>Electrochemistry</i> , 2020, 88, 8-13.	0.6	4
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10350	Facile, economical and environment-friendly synthesis process of porous N-doped carbon/SiO _x composite from rice husks as high-property anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2020, 334, 135619.	2.6	36
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10352	Oxide single crystals with high lithium-ion conductivity as solid electrolytes for all-solid-state lithium secondary battery applications. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 7-18.	0.5	12
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10366	Effects of different GO contents in GO@KB-S composite prepared by spray drying method for lithium-sulfur batteries. <i>Ionics</i> , 2020, 26, 2315-2324.	1.2	8
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10370	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. <i>ACS Energy Letters</i> , 2020, 5, 224-231.	8.8	59
10371	Topotactic Transformation Synthesis of 2D Ultrathin GeS ₂ Nanosheets toward High-Rate and High-Energy-Density Sodium-Ion Half/Full Batteries. <i>ACS Nano</i> , 2020, 14, 531-540.	7.3	71
10372	Challenges and perspectives for manganese-based oxides for advanced aqueous zinc-ion batteries. <i>Informa A-Materials</i> , 2020, 2, 237-260.	8.5	264
10373	Fe ²⁺ /P ³⁺ S electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. <i>Journal of Power Sources</i> , 2020, 449, 227576.	4.0	11
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10378	Stable Lithium Anode of Li ₂ O Batteries in a Wet Electrolyte Enabled by a High-Current Treatment. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 172-178.	2.1	16
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10384	Mechanical robustness of composite electrode for lithium ion battery: Insight into entanglement & crystallinity of polymeric binder. <i>Electrochimica Acta</i> , 2020, 332, 135471.	2.6	23
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10387	Atomic-Level Alloying of Sulfur and Selenium for Advanced Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1005-1013.	4.0	14
10388	Freestanding, Hierarchical, and Porous Bilayered Na ₂ V ₂ O ₅ ·nH ₂ O/rGO/CNT Composites as High-Performance Cathode Materials for Nonaqueous K-Ion Batteries and Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 706-716.	4.0	82
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10392	A Dual-Functional Conductive Framework Embedded with TiN/VN Heterostructures for Highly Efficient Polysulfide and Lithium Regulation toward Stable Li-S Full Batteries. <i>Advanced Materials</i> , 2020, 32, e1905658.	11.1	276
10393	Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. <i>Angewandte Chemie</i> , 2020, 132, 5714-5723.	1.6	10
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10400	Structural and electrochemical studies of Fe-doped Na ₃ Mn ₂ P ₃ O ₁₁ cathode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153206.	2.8	12

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10402	Selenium@Hollow mesoporous carbon composites for high-rate and long-cycling lithium/sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 392, 123676.	6.6	58
10403	A Black Phosphorus@Graphite Composite Anode for Li/Na-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 2338-2342.	1.6	21
10404	Toward Promising Cathode Catalysts for Nonlithium Metal-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1901997.	10.2	102
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10407	Regulating lithium nucleation and growth by zinc modified current collectors. <i>Nano Research</i> , 2020, 13, 45-51.	5.8	19
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10415	AP as a flexible host to construct SnO ₂ @Mn@GO/AP anode. <i>Vacuum</i> , 2020, 172, 109072.	1.6	3
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10417	Influence of cut-off voltage on the lithium storage performance of Nb ₁₂ W ₁₁ O ₆₃ anode. <i>Electrochimica Acta</i> , 2020, 332, 135380.	2.6	19
10418	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie</i> , 2020, 132, 542-546.	1.6	28

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10420	A Multi-Wall Sn/SnO ₂ @Carbon Hollow Nanofiber Anode Material for High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 2486-2493.	1.6	35
10421	MnO ₂ Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 1537-1545.	3.6	122
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10423	Fe-doped LiMnPO ₄ @C nanofibers with high Li-ion diffusion coefficient. <i>Carbon</i> , 2020, 158, 102-109.	5.4	55
10424	Intercalation pseudo-capacitance behavior of few-layered molybdenum sulfide in various electrolytes. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 117-126.	5.0	14
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10426	Shape-anisotropic cobalt-germanium-borate glass flakes as novel Li-ion battery anodes. <i>Powder Technology</i> , 2020, 363, 218-231.	2.1	14
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10429	Rechargeable Zn-MnO ₂ batteries: advances, challenges and perspectives. <i>Nanotechnology</i> , 2020, 31, 122001.	1.3	76
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10431	Stable Li Metal Anode Enabled by Space Confinement and Uniform Curvature through Lithiophilic Nanotube Arrays. <i>Advanced Energy Materials</i> , 2020, 10, 1902819.	10.2	55
10432	Dual Play of Chitin-Derived N-Doped Carbon Nanosheets Enabling High-Performance Na- <chem>SeS2</chem> Half/Full Cells. <i>Batteries and Supercaps</i> , 2020, 3, 165-173.	2.4	16
10433	Toward rational design of N-doped Li ₄ Ti ₅ O ₁₂ @carbon anode materials for high-performance lithium-ion batteries. <i>Ionics</i> , 2020, 26, 1211-1220.	1.2	7
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10435	Internal failure of anode materials for lithium batteries – A critical review. <i>Green Energy and Environment</i> , 2020, 5, 22-36.	4.7	67
10436	Manganese dioxide anchored on hierarchical carbon nanotubes/graphene/diatomite conductive architecture for high performance asymmetric supercapacitor. <i>Applied Surface Science</i> , 2020, 508, 144777.	3.1	19

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10438	A Multi-Wall Sn/SnO ₂ @Carbon Hollow Nanofiber Anode Material for High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2465-2472.	7.2	199
10439	Li ₄ Ti ₅ O ₁₂ ~TiO ₂ Composite Coated on Carbon Foam as Anode Material for Lithium Ion Capacitors: Evaluation of Rate Performance and Self-Discharge. <i>ChemNanoMat</i> , 2020, 6, 280-284.	1.5	4
10440	Microscopic Properties of Na and Li-A First Principle Study of Metal Battery Anode Materials. <i>ChemSusChem</i> , 2020, 13, 771-783.	3.6	18
10441	A General Technoeconomic Model for Evaluating Emerging Electrolytic Processes. <i>Energy Technology</i> , 2020, 8, 1900994.	1.8	49
10442	NaCl-Templated and Polyvinylpyrrolidone-Assisted Fabrication of a MnO/CrGO Composite as a High-Capacity Anode Material for Li-Ion Batteries. <i>Energy Technology</i> , 2020, 8, 1901194.	1.8	9
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10444	Facile interfacial adhesion enabled LTP-based solid-state lithium metal battery. <i>Chemical Engineering Journal</i> , 2020, 392, 123650.	6.6	78
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10446	Copper decorated ultralight 3D carbon skeleton derived from soybean oil for dendrite-free Li metal anode. <i>Chemical Engineering Journal</i> , 2020, 391, 123516.	6.6	26
10447	A conductive self-healing hydrogel binder for high-performance silicon anodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 449, 227472.	4.0	79
10448	Metal/LiF/Li ₂ O Nanocomposite for Battery Cathode Prelithiation: Trade-off between Capacity and Stability. <i>Nano Letters</i> , 2020, 20, 546-552.	4.5	72
10449	Printing of UV-curable transparent conductive polymer composite. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 139-144.	1.2	2
10450	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. <i>Advanced Science</i> , 2020, 7, 1901614.	5.6	133
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10452	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 534-538.	7.2	124
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10874	Carbonyl Functional Group Modified Metal-Organic Coordination Polymer with Improved Lithium-Storage Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 11378-11387.	2.5	25
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10893	Electrochemical characterization of LiMn ₂ O ₄ nanowires fabricated by sol-gel for lithium-ion rechargeable batteries. <i>Materials Letters</i> , 2020, 273, 127923.	1.3	3
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10969	Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14935-14941.	7.2	210
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11562	MnO ₂ supported on acrylic cloth as functional separator for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2020, 464, 228181.	4.0	42
11563	Poly(anthraquinonylimide)/graphene composite cathode for sodium-ion batteries. <i>Materials Letters</i> , 2020, 268, 127596.	1.3	3
11564	Rational Design of Ion Transport Paths at the Interface of Metal-Organic Framework Modified Solid Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22930-22938.	4.0	45
11565	Coordination induced electron redistribution to achieve highly reversible Li-ion insertion chemistry in metal-organic frameworks. <i>Chemical Communications</i> , 2020, 56, 6424-6427.	2.2	3
11566	An alternative for the anode materials of nickel metal hydride batteries: an AB ₃ -type La _{0.6} Gd _{0.2} Mg _{0.2} Ni _{2.6} Co _{0.3} Al _{0.1} hydrogen storage alloy. <i>Dalton Transactions</i> , 2020, 49, 6312-6320.	1.9	9
11567	Porous Mo-C coverage on ZnO rods for enhanced supercapacitive performance. <i>Dalton Transactions</i> , 2020, 49, 5134-5142.	1.6	6
11568	High-Temperature Treatment to Improve the Capacity of LiBC Anode Material in Li-ion Battery. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	2
11569	High performance lithium-ion capacitors based on LiNbO ₃ -arched 3D graphene aerogel anode and BCNNT cathode with enhanced kinetics match. <i>Chemical Engineering Journal</i> , 2020, 396, 125207.	6.6	29
11570	One-pot solvothermal method to fabricate 1D-VS ₄ nanowires as anode materials for lithium ion batteries. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107883.	1.8	25
11571	Highly conductive and nonflammable composite polymer electrolytes for rechargeable quasi-solid-state Li-metal batteries. <i>Journal of Power Sources</i> , 2020, 464, 228182.	4.0	27
11572	Interface-Controlled Rhombohedral Li ₃ V ₂ (PO ₄) ₃ Embedded in Carbon Nanofibers with Ultrafast Kinetics for Li-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4059-4069.	2.1	11
11573	Hypercrosslinked phenothiazine-based polymers as high redox potential organic cathode materials for lithium-ion batteries. <i>RSC Advances</i> , 2020, 10, 16732-16736.	1.7	22
11574	Metal-organic framework-induced mesoporous carbon nanofibers as an ultrastable Na metal anode host. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10269-10282.	5.2	47
11575	Intercalating Sn/Fe Nanoparticles in Compact Carbon Monolith for Enhanced Lithium Ion Storage. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2220.	1.3	2
11576	A novel SiO ₂ nanofiber-supported organic-inorganic gel polymer electrolyte for dendrite-free lithium metal batteries. <i>Journal of Materials Science</i> , 2020, 55, 9504-9515.	1.7	7
11577	Preparation of nanoporous Sn-doped TiO ₂ anode material for lithium-ion batteries by a simple dealloying method. <i>Ionics</i> , 2020, 26, 4363-4372.	1.2	8
11578	Graphene-like nitrogen-doped porous carbon nanosheets as both cathode and anode for high energy density lithium-ion capacitor. <i>Electrochimica Acta</i> , 2020, 349, 136303.	2.6	23

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11579	Cyanometallic framework-derived dual-buffer structure of Sn-Co based nanocomposites for high-performance lithium storage. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154680.	2.8	12
11580	Ultrathin hybrid nanobelts of single-crystalline VO ₂ and Poly(3,4-ethylenedioxythiophene) as cathode materials for aqueous zinc ion batteries with large capacity and high-rate capability. <i>Journal of Power Sources</i> , 2020, 463, 228223.	4.0	65
11581	Effect of network homogeneity on mechanical, thermal and electrochemical properties of solid polymer electrolytes prepared by homogeneous 4-arm poly(ethylene glycols). <i>Soft Matter</i> , 2020, 16, 4290-4298.	1.2	14
11582	Engineering of three-dimensional nano hybrids: Co ₉ S ₈ nanocrystal coated hollow carbon nanosphere for advanced lithium storage. <i>Applied Surface Science</i> , 2020, 514, 146092.	3.1	27
11583	Exploration of low-cost microporous Fe(μ ₃ -O)-based organic framework as anode material for potassium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154714.	2.8	49
11584	Designing advanced P3-type K _{0.45} Ni _{0.1} Co _{0.1} Mn _{0.8} O ₂ and improving electrochemical performance via Al/Mg doping as a new cathode Material for potassium-ion batteries. <i>Journal of Power Sources</i> , 2020, 464, 228190.	4.0	34
11585	Advances in Understanding Mechanisms of Perovskites and Pyrochlores as Electrocatalysts using In-situ X-ray Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 15427-15437.	1.6	2
11586	Monolayer Mo ₂ C as anodes for magnesium-ion batteries. <i>Journal of Molecular Modeling</i> , 2020, 26, 86.	0.8	11
11587	Superior anodic lithium storage behavior of organic pigment 2,9-dimethylquinacridone. <i>Chemical Engineering Journal</i> , 2020, 394, 124924.	6.6	17
11588	The positive effect of nitridation on CrNb ₄ O ₁₂ nanowires for high-performance lithium-ion storage. <i>Ceramics International</i> , 2020, 46, 15527-15533.	2.3	4
11589	Polymers for advanced lithium-ion batteries: State of the art and future needs on polymers for the different battery components. <i>Progress in Energy and Combustion Science</i> , 2020, 79, 100846.	15.8	103
11591	Analyzing Energy Materials by Cryogenic Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e1908293.	11.1	61
11592	Silicon Anode with High Initial Coulombic Efficiency by Modulated Trifunctional Binder for High-Areal-Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903110.	10.2	221
11593	Superassembly of Porous Fe ₄ (NiFe) ₈ O Frameworks with Stable Octahedron and Multistage Structure for Superior Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904262.	10.2	55
11594	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for High-Power Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12076-12083.	7.2	78
11595	Metal-organic Framework of [Cu ₂ (BIPAC)(DMA) ₂] _n : A Promising Anode Material for Lithium-Ion Battery. <i>ChemistrySelect</i> , 2020, 5, 4160-4164.	0.7	13
11596	Effects of silver nanoparticle on electrochemical performances of poly(o-phenylenediamine)/Ag hybrid composite as anode of lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1007-1015.	1.2	5
11597	Scalable synthesis of nanoporous silicon microparticles for highly cyclable lithium-ion batteries. <i>Nano Research</i> , 2020, 13, 1558-1563.	5.8	65

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11598	Quest for magnesium-sulfur batteries: Current challenges in electrolytes and cathode materials developments. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213312.	9.5	43
11599	Na ₂ Li ₂ Ti ₆ O ₁₄ nanowires as ultra-long cycling performance anode material for lithium ion storage. <i>Ceramics International</i> , 2020, 46, 15699-15704.	2.3	10
11600	Enhanced structural and cycling stability of Li ₂ CuO ₂ -coated LiNi _{0.33} Mn _{0.33} Co _{0.33} O ₂ cathode with flexible ionic liquid-based gel polymer electrolyte for lithium polymer batteries. <i>Electrochimica Acta</i> , 2020, 343, 136122.	2.6	37
11601	A novel chemical reduction/co-precipitation method to prepare sulfur functionalized reduced graphene oxide for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2020, 344, 136147.	2.6	35
11602	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li ₂ S cathode. <i>Energy Storage Materials</i> , 2020, 28, 375-382.	9.5	92
11603	Structural engineering of hydrated vanadium oxide cathode by K ⁺ incorporation for high-capacity and long-cycling aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 9-16.	9.5	139
11604	Rational construction of heterostructured core-shell Bi ₂ S ₃ @Co ₉ S ₈ complex hollow particles toward high-performance Li- and Na-ion storage. <i>Energy Storage Materials</i> , 2020, 29, 121-130.	9.5	98
11605	EDTA-2Na assisted dynamic hydrothermal synthesis of orthorhombic LiMnO ₂ for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154599.	2.8	10
11606	Nanograined copper foil as a high-performance collector for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154801.	2.8	13
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11610	Tortuosity Effects in Lithium-Metal Host Anodes. <i>Joule</i> , 2020, 4, 938-952.	11.7	150
11611	Recent advances and historical developments of high voltage lithium cobalt oxide materials for rechargeable Li-ion batteries. <i>Journal of Power Sources</i> , 2020, 460, 228062.	4.0	150
11612	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. <i>Journal of Power Sources</i> , 2020, 459, 228073.	4.0	109
11613	Printed Built-In Power Sources. <i>Matter</i> , 2020, 2, 345-359.	5.0	16
11614	Poly(μ-caprolactone)-block-poly(ethylene glycol)-block-poly(Îµ-caprolactone)-based hybrid polymer electrolyte for lithium metal batteries. <i>Journal of Membrane Science</i> , 2020, 607, 118132.	4.1	41
11615	Electrolytic-anion-redox adsorption pseudocapacitance in nanosized lithium-free transition metal oxides as cathode materials for Li-ion batteries. <i>Nano Energy</i> , 2020, 72, 104727.	8.2	49

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11617	Different strategies of introduction of lithium ions into nickel–manganese–cobalt carbonate resulting in LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ (NMC622) cathode material for Li-ion batteries. <i>Solid State Ionics</i> , 2020, 348, 115273.	1.3	22
11618	Micro/nano-structured Li ₄ Ti ₅ O ₁₂ as high rate anode material for lithium ion batteries. <i>Solid State Ionics</i> , 2020, 349, 115297.	1.3	17
11619	Boron-containing single-ion conducting polymer electrolyte for dendrite-free lithium metal batteries. <i>Solid State Ionics</i> , 2020, 349, 115309.	1.3	14
11620	Application of hexa–peri–hexabenzocoronene nanographene and its B, N, and Bn doped forms in Na-ion batteries: A density functional theory study. <i>Thin Solid Films</i> , 2020, 704, 137979.	0.8	10
11621	Creasing Highly Porous V ₂ O ₅ Scaffolds for High Energy Density Aluminum-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4033-4042.	2.5	20
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11624	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. <i>ACS Nano</i> , 2020, 14, 4938-4949.	7.3	67
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11626	Sodiophilic Decoration of a Three-Dimensional Conductive Scaffold toward a Stable Na Metal Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5452-5463.	3.2	31
11627	Definition of Redox Centers in Reactions of Lithium Intercalation in Li ₃ RuO ₄ Polymorphs. <i>Journal of the American Chemical Society</i> , 2020, 142, 8160-8173.	6.6	12
11628	Metal chloride perovskite thin film based interfacial layer for shielding lithium metal from liquid electrolyte. <i>Nature Communications</i> , 2020, 11, 1761.	5.8	68
11629	Comparative study of the implementation of tin and titanium oxide nanoparticles as electrodes materials in Li-ion batteries. <i>Scientific Reports</i> , 2020, 10, 5503.	1.6	15
11630	A coupled polymeric porphyrin complex as a novel cathode for highly stable lithium organic batteries. <i>Chemical Communications</i> , 2020, 56, 5437-5440.	2.2	28
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11632	Bismuth nanorod networks confined in a robust carbon matrix as long-cycling and high-rate potassium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8440-8446.	5.2	52
11633	Influence of disorder and surface roughness on the electrical and thermal properties of lithiated silicon nanowires. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	4

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11635	Imparting Boron Nanosheets with Ambient Stability through Methyl Group Functionalization for Mechanistic Investigation of Their Lithiation Process. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23370-23377.	4.0	15
11636	Multiradical-stabilized hollow carbon spheres as a pressure-resistant cathode for fast lithium/sodium storage with excellent performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8875-8882.	5.2	7
11637	Influence of Additives on the Reversible Oxygen Reduction Reaction/Oxygen Evolution Reaction in the Mg ²⁺ -Containing Ionic Liquid N-Butyl-N-Methylpyrrolidinium Bis(Trifluoromethanesulfonyl)imide. <i>ChemSusChem</i> , 2020, 13, 3919-3927.	3.6	6
11638	Controlled synthesis of nanosized Si by magnesiothermic reduction from diatomite as anode material for Li-ion batteries. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 515-525.	2.4	26
11639	Robust Polyhedral CoTe ₂ -C Nanocomposites as High-Performance Li- and Na-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 4877-4887.	2.5	39
11640	Impact of surface coating on electrochemical and thermal behaviors of a Li-rich Li _{1.2} Ni _{0.16} Mn _{0.56} Co _{0.08} O ₂ cathode. <i>RSC Advances</i> , 2020, 10, 15274-15281.	1.7	28
11641	Anodes and Sodium-Free Cathodes in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000288.	10.2	89
11642	Excellent Cycling Stability of Sodium Anode Enabled by a Stable Solid Electrolyte Interphase Formed in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2001151.	7.8	60
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11650	Oligolayered Ti ₃ C ₂ T _x MXene towards high performance lithium/sodium storage. <i>Nano Research</i> , 2020, 13, 1659-1667.	5.8	78
11651	Partially Oxidized Cellulose grafted with Polyethylene Glycol mono-Methyl Ether (m-PEG) as Electrolyte Material for Lithium Polymer Battery. <i>Carbohydrate Polymers</i> , 2020, 240, 116339.	5.1	16

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11653	Conducting nitrogen-incorporated ultrananocrystalline diamond coating for highly structural stable anode materials in lithium ion battery. <i>Nano Energy</i> , 2020, 74, 104811.	8.2	10
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11655	A simple method to fabricate size and porosity tunable Si by Al-Si alloy as lithium ion battery anode material. <i>Electrochimica Acta</i> , 2020, 345, 136242.	2.6	24
11656	A quantum mechanical study on the application of inorganic BC ₂ N nanotubes in the Na-ion batteries. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107886.	1.8	3
11657	In situ fabrication of ultrathin few-layered WSe ₂ anchored on N, P dual-doped carbon by bioreactor for half/full sodium/potassium-ion batteries with ultralong cycling lifespan. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 217-228.	5.0	67
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11659	Composite Polymer Electrolyte Incorporating Metal-Organic Framework Nanosheets with Improved Electrochemical Stability for All-Solid-State Li Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20514-20521.	4.0	73
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11665	Eumelanin electrodes in buffered aqueous media at different pH values. <i>Electrochimica Acta</i> , 2020, 347, 136250.	2.6	10
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11667	Dendrites as climbing dislocations in ceramic electrolytes: Initiation of growth. <i>Journal of Power Sources</i> , 2020, 456, 227989.	4.0	38
11668	Spherical layered Li-rich cathode material: Unraveling the role of oxygen vacancies on improving lithium ion conductivity. <i>Journal of Power Sources</i> , 2020, 462, 228171.	4.0	37
11669	Monodispersed bimetallic nanoparticles anchored on TiO ₂ -decorated titanium carbide MXene for efficient hydrogen production from hydrazine in aqueous solution. <i>Renewable Energy</i> , 2020, 155, 1293-1301.	4.3	41

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11672	In-Situ Formed Protecting Layer from Organic/Inorganic Concrete for Dendrite-Free Lithium Metal Anodes. <i>Nano Letters</i> , 2020, 20, 3911-3917.	4.5	58
11673	Energy storage usages: Engineering reactions, economic technological values for electric vehicles—A technological outlook. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12422.	1.2	20
11674	Insights into the Storage Mechanism of Layered VS ₂ Cathode in Alkali Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904118.	10.2	67
11675	Highly Safe and Ultra-Stable All-Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications. <i>Advanced Energy Materials</i> , 2020, 10, 1904281.	10.2	48
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11677	The Sodium Storage Mechanism in Tunnel-Type Na _{0.44} MnO ₂ Cathodes and the Way to Ensure Their Durable Operation. <i>Advanced Energy Materials</i> , 2020, 10, 2000564.	10.2	51
11678	Understanding High-Rate K ⁺ -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 13017-13024.	1.6	28
11679	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 11630-11636.	1.6	9
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11682	Understanding High-Rate K ⁺ -Solvent Co-Intercalation in Natural Graphite for Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12917-12924.	7.2	112
11683	Charge Storage Mechanism and Structural Evolution of Viologen Crystals as the Cathode of Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11533-11539.	7.2	40
11684	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12170-12177.	7.2	41
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11686	Single-Atomic Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020, 13, 3404-3411.	3.6	41
11687	ZnO Interface Modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Toward Boosting Lithium Storage. <i>Energy and Environmental Materials</i> , 2020, 3, 522-528.	7.3	24

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11977	Analysis of LiCoO ₂ electrodes through principal component analysis of current-voltage data cubes measured using atomic force microscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, 012402.	0.6	3
11978	The Implications of Post-Fire Physical Features of Cylindrical 18650 Lithium-Ion Battery Cells. <i>Fire Technology</i> , 2021, 57, 1707-1722.	1.5	5
11979	Hierarchical interlayer-expanded MoSe ₂ /N-C nanorods for high-rate and long-life sodium and potassium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1271-1278.	3.0	22
11980	Solution-based chemical pre-alkaliation of metal-ion battery cathode materials for increased capacity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11771-11777.	5.2	11
11981	Fabricating Nanostructured HoFeO ₃ Perovskite for Lithium-Ion Battery Anodes via Co-Precipitation. <i>SSRN Electronic Journal</i> , 0, .	0.4	0
11982	A composite of CoNiP quantum dot-decorated reduced graphene oxide as a sulfur host for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16692-16698.	5.2	54
11983	<i>Ab initio</i> characterization of N doped T-graphene and its application as an anode material for Na ion rechargeable batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4060-4068.	2.5	9
11984	Lignin biopolymer: the material of choice for advanced lithium-based batteries. <i>RSC Advances</i> , 2021, 11, 23644-23653.	1.7	25
11985	A fibrous thiazolothiazole-bridged viologen polymer for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18506-18514.	5.2	26
11986	Fe nanopowder-assisted fabrication of FeO _x /porous carbon for boosting potassium-ion storage performance. <i>Nanoscale</i> , 2021, 13, 2481-2491.	2.8	16
11987	Two-dimensional C ₃ N/blue phosphorene vdW heterostructure for Li, Na and K-ion batteries. <i>New Journal of Chemistry</i> , 2021, 45, 12647-12654.	1.4	7
11988	Recent advancements of functional gel polymer electrolytes for rechargeable lithium-metal batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5211-5232.	3.2	22
11989	Control of crystal size tailors the electrochemical performance of V ₂ O ₅ as a Mg ²⁺ intercalation host. <i>Nanoscale</i> , 2021, 13, 10081-10091.	2.8	7
11990	Gel Polymer Electrolyte Membranes Boosted with Sodium-Conductive γ -Alumina Nanoparticles: Application for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 623-632.	2.5	20
11991	Surface-reconstructed formation of hierarchical TiO ₂ mesoporous nanosheets with fast lithium-storage capability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3216-3225.	3.2	16
11992	Interfacial growth of free-standing PANI films: toward high-performance all-polymer supercapacitors. <i>Chemical Science</i> , 2021, 12, 1783-1790.	3.7	23
11993	Valorization of resources from end-of-life lithium-ion batteries: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2060-2103.	6.6	20

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11994	Suppressing cathode dissolution <i>via</i> guest engineering for durable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7631-7639.	5.2	47
11995	Defect-free-induced Na ⁺ disordering in electrode materials. <i>Energy and Environmental Science</i> , 2021, 14, 3130-3140.	15.6	62
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11997	Insight into the Coprecipitation-Controlled Crystallization Reaction for Preparing Lithium-Layered Oxide Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 717-726.	4.0	34
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11999	Labile oxygen participant adsorbate evolving mechanism to enhance oxygen reduction in SmMn ₂ O ₅ with double-coordinated crystal fields. <i>Journal of Materials Chemistry A</i> , 2021, 9, 380-389.	5.2	14
12000	Effects of low doping on the improvement of cathode materials Na ₃ V ₂ M _x (PO ₄) ₃ (M = Co ²⁺ , Cu ²⁺ ; <i>x</i> = 0.01–0.05) for SIBs. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17380-17389.	5.2	24
12001	Critical role of zeolites as H ₂ S scavengers in argyrodite Li ₆ PS ₅ Cl solid electrolytes for all-solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17311-17316.	5.2	21
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12006	Mn-based oxides for aqueous rechargeable metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11472-11500.	5.2	44
12007	Nanostructured anode materials in rechargeable batteries. , 2021, , 187-219.		5
12008	Computational investigation of enhanced properties in functionalized carbon nanotube doped polyvinyl alcohol gel electrolyte systems. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21286-21294.	1.3	2
12009	The synthesis of alternating donor–acceptor polymers based on pyrene-4,5,9,10-tetraone and thiophene derivatives, their composites with carbon, and their lithium storage performances as anode materials. <i>RSC Advances</i> , 2021, 11, 15044-15053.	1.7	14
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12012	Effect of Sm ³⁺ Substitutions on the Lithium Ionic Conduction and Relaxation Dynamics of Li _{5+2x} La ₃ Nb ₂ xSm _x O ₁₂ Ceramics. <i>Crystals</i> , 2021, 11, 95.	1.0	0

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12015	Asymptotic Reduction of a Lithium-Ion Pouch Cell Model. <i>SIAM Journal on Applied Mathematics</i> , 2021, 81, 765-788.	0.8	10
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12019	Nanoscale Wrinkled Cu as a Current Collector for High-Loading Graphite Anode in Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2576-2583.	4.0	15
12020	Anionic redox behaviors of layered Li-rich oxide cathodes. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4590-4609.	3.0	9
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12029	Enhancing Co/Co ₂ VO ₄ Li-ion battery anode performances via 2Dâ€“2D heterostructure engineering. <i>Nanoscale</i> , 2021, 13, 13065-13071.	2.8	8
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12032	Heterostructures of titanium-based MXenes in energy conversion and storage devices. Journal of Materials Chemistry C, 2021, 9, 8395-8465.	2.7	30
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12088	Advances in thermal conductivity for energy applications: a review. <i>Progress in Energy</i> , 2021, 3, 012002.	4.6	24
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12122	Interphases for Alkali Metal Anodes. , 2022, , 137-145.		0
12124	Stoichiometric tuning of lattice flexibility and Na diffusion in NaAlSiO ₄ : quasielastic neutron scattering experiment and <i>ab initio</i> molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16129-16136.	5.2	4
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12407	Revealing Cathode-Electrolyte Interface on Flower-Shaped Na ₃ V ₂ (PO ₄) ₃ /C Cathode through Cryogenic Electron Microscopy. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100072.	2.8	8
12408	Reversible formation of coordination bonds in Sn-based metal-organic frameworks for high-performance lithium storage. <i>Nature Communications</i> , 2021, 12, 3131.	5.8	80
12409	Porous Composite Gel Polymer Electrolyte with Interfacial Transport Pathways for Flexible Quasi Solid Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23743-23750.	4.0	18
12410	Heteroepitaxial interface of layered cathode materials for lithium ion batteries. <i>Energy Storage Materials</i> , 2021, 37, 161-189.	9.5	19
12411	Insight into bulk charge transfer of lithium metal anodes by synergism of nickel seeding and LiF-Li ₃ N-Li ₂ S co-doped interphase. <i>Energy Storage Materials</i> , 2021, 37, 491-500.	9.5	13
12412	Designing Polymer-In Salt Electrolyte and Fully Infiltrated 3D Electrode for Integrated Solid-State Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12931-12940.	7.2	202
12413	High performance flexible quasi-solid-state zinc-ion hybrid supercapacitors enable by electrode potential adjustment. <i>Journal of Power Sources</i> , 2021, 495, 229789.	4.0	18

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12415	Rational Design and Engineering of One-Dimensional Hollow Nanostructures for Efficient Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2021, 133, 20262-20278.	1.6	13
12416	Hierarchical Carbon Shell Compositing Microscale Silicon Skeleton as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4976-4985.	2.5	8
12417	Recent Advances in Emerging Non-Lithium Metal Sulfur Batteries: A Review. <i>Advanced Energy Materials</i> , 2021, 11, 2100770.	10.2	34
12418	Cellulose-Based Plastic Crystal Electrolyte Membranes with Enhanced Interface for Solid-State Lithium Batteries. <i>Energy Technology</i> , 2021, 9, 2100114.	1.8	9
12419	3D-structured organic-inorganic hybrid solid-electrolyte-interface layers for Lithium metal anode. <i>Energy Storage Materials</i> , 2021, 37, 567-575.	9.5	21
12420	Boron-doped Sb/SbO ₂ @rGO composites with tunable components and enlarged lattice spacing for high-rate sodium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 315505.	1.3	4
12421	Al Substitution for Mn during Co-Precipitation Boosts the Electrochemical Performance of LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ . <i>Journal of the Electrochemical Society</i> , 2021, 168, 050532.	1.3	8
12422	Recovery of lithium hydroxide monohydrate from a nickel-rich cathode material by a novel heat-treatment process at a significantly low temperature. <i>Functional Materials Letters</i> , 0, , 2150018.	0.7	2
12423	Performance Improvement of PVDF-HFP-Based Gel Polymer Electrolyte with the Dopant of Octavinyl-Polyhedral Oligomeric Silsesquioxane. <i>Materials</i> , 2021, 14, 2701.	1.3	5
12424	High-performance gel polymer electrolytes derived from PAN-POSS/PVDF composite membranes with ionic liquid for lithium ion batteries. <i>Ionics</i> , 2021, 27, 2945-2953.	1.2	9
12425	A Biomass-Based Integral Approach Enables Li Full Pouch Cells with Exceptional Power Density and Energy Density. <i>Advanced Science</i> , 2021, 8, e2101182.	5.6	21
12426	Li[(FSO ₂) _n (CF ₃ SO ₂) _N]: A Difunctional Salt for Ethylene Carbonate and Additive-Free Electrolyte for Li-Ion Cells. <i>ChemElectroChem</i> , 2021, 8, 1807-1816.	1.7	4
12427	Nitrogen/oxygen dual-doped hierarchically porous carbon/graphene composite as high-performance anode for potassium storage. <i>Electrochimica Acta</i> , 2021, 377, 138093.	2.6	9
12428	Cyano-reinforced in-situ polymer electrolyte enabling long-life cycling for high-voltage lithium metal batteries. <i>Energy Storage Materials</i> , 2021, 37, 215-223.	9.5	76
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12430	Natural Self-Confined Structure Effectively Suppressing Volume Expansion toward Advanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24634-24642.	4.0	5
12431	Potential Applications of MoS ₂ /M ₂ CS ₂ (M = Ti, V) Heterostructures as Anode Materials for Metal-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10226-10234.	1.5	26

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12433	Efficient preservation of surface state of $\text{LiNi}_{0.82}\text{Co}_{0.15}\text{Al}_{0.03}\text{O}_2$ through assembly of hydride terminated polydimethylsiloxane. <i>Journal of Power Sources</i> , 2021, 495, 229761.	4.0	8
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12436	Improved electrochemical performances of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ modified by Graphene/ V_2O_5 co-coating. <i>Ceramics International</i> , 2021, 47, 21759-21768.	2.3	12
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12441	Ammonia-low coprecipitation synthesis of lithium layered oxide cathode material for high-performance battery. <i>Chemical Engineering Journal</i> , 2021, 411, 128487.	6.6	31
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12446	Stabilization of a 4.7 V High Voltage Nickel-Rich Layered Oxide Cathode for Lithium-Ion Batteries through Boron-Based Surface Residual Lithium-Tuned Interface Modification Engineering. <i>ChemElectroChem</i> , 2021, 8, 2014-2021.	1.7	11
12447	The rational design and interface engineering of an electrolyte and current collector for a stable and high-performance aqueous supercapacitor. <i>International Journal of Energy Research</i> , 2021, 45, 16027-16037.	2.2	11
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12452	A Review on the Current Progress and Challenges of 2D Layered Transition Metal Dichalcogenides as Li/Naâ€œion Battery Anodes. <i>ChemElectroChem</i> , 2021, 8, 2358-2396.	1.7	25
12453	Demonstration of Biocarbon-Added NiS Porous Nanospheres as a Potential Anode for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 8991-9000.	2.5	14
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12455	Enhanced cycling stability of Cu-V2O5 composited with low-fraction rGO as cathodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158761.	2.8	9
12456	A novel structural design of air cathodes expanding three-phase reaction interfaces for zinc-air batteries. <i>Applied Energy</i> , 2021, 290, 116777.	5.1	21
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12458	Templateâ€œSacrificed Hot Fusion Construction and Nanoseed Modification of 3D Porous Copper Nanoscaffold Host for Stableâ€œCycling Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2021, 31, 2102735.	7.8	51
12459	Fast and Scalable Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Cathode by Solâ€œGelâ€œAssisted Microwave Sintering. <i>Energy Technology</i> , 2021, 9, 2100085.	1.8	7
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12461	Advanced and Emerging Negative Electrodes for Li-Ion Capacitors: Pragmatism vs. Performance. <i>Energies</i> , 2021, 14, 3010.	1.6	4
12462	Strategies to anode protection in lithium metal battery: A review. <i>InformaÄnÄ-MateriÄly</i> , 2021, 3, 1333-1363.	8.5	140
12463	Liquid electrolyte design for metalâ€œsulfur batteries: Mechanistic understanding and perspective. <i>EcoMat</i> , 2021, 3, e12115.	6.8	29
12464	Revealing the Various Electrochemical Behaviors of Sn₄P₃ Binary Alloy Anodes in Alkali Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102047.	7.8	25
12465	Freestanding polyimide fiber network as thermally safer separator for high-performance Li metal batteries. <i>Electrochimica Acta</i> , 2021, 377, 138069.	2.6	11
12466	Structurally stabilized lithium-metal anode via surface chemistry engineering. <i>Energy Storage Materials</i> , 2021, 37, 315-324.	9.5	46
12467	Co-Electrodeposition Mechanism in Rechargeable Metal Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2190-2197.	8.8	17
12468	The effects of nanostructures on lithium storage behavior in Mn2O3 anodes for next-generation lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 493, 229682.	4.0	23

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12470	3D Yolk-Shell Structured Si/void/rGO Free-Standing Electrode for Lithium-Ion Battery. <i>Materials</i> , 2021, 14, 2836.	1.3	6
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12473	Environmental Impact Analysis of Aprotic Li ⁺ O ₂ Batteries Based on Life Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7139-7153.	3.2	27
12474	Polymorphism and Fast Potassium-Ion Conduction in the T5 Supertetrahedral Phosphidosilicate KSi ₂ P ₃ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13641-13646.	7.2	27
12475	Optical lithium sensors. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213801.	9.5	17
12476	Novel design of uniform Si@graphite@C composite as high-performance Li-ion battery anodes. <i>Electrochimica Acta</i> , 2021, 377, 138092.	2.6	18
12477	Atomic mechanism of the distribution and diffusion of lithium in a cracked Si anode. <i>Scripta Materialia</i> , 2021, 197, 113807.	2.6	4
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12479	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2100810.	11.1	121
12480	Constructing high-rate and long-life phosphorus/carbon anodes for potassium-ion batteries through rational nanoconfinement. <i>Nano Energy</i> , 2021, 83, 105772.	8.2	54
12481	Gyroid-Nanostructured All-Solid Polymer Films Combining High H ⁺ Conductivity with Low H ₂ Permeability. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2100115.	2.0	3
12482	Free-standing ultrathin lithium metal-graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , 2021, 6, 790-798.	19.8	198
12483	Regulating adhesion of solid-electrolyte interphase to silicon via covalent bonding strategy towards high Coulombic-efficiency anodes. <i>Nano Energy</i> , 2021, 84, 105935.	8.2	24
12484	Muconic acid as high-performance organic anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158573.	2.8	11
12485	State of health (SoH) estimation and degradation modes analysis of pouch NMC532/graphite Li-ion battery. <i>Journal of Power Sources</i> , 2021, 498, 229884.	4.0	24
12486	Tuning functional two-dimensional MXene nanosheets to enable efficient sulfur utilization in lithium-sulfur batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100480.	2.8	10

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12488	Deciphering the role of tetrahydrofuran residue in the poly(ethylene oxide)/LiTFSI hybrid used for secondary battery electrolyte. <i>Giant</i> , 2021, 6, 100056.	2.5	6
12489	Al ³⁺ -doped FeNb ₁₁ O ₂₉ anode materials with enhanced lithium-storage performance. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 733-742.	9.9	21
12490	Effect of Amorphous LiPON Coating on Electrochemical Performance of LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ (NMC811) in All Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060537.	1.3	18
12491	Improved Electrochemical Performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials Induced by a Facile Polymer Coating for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 6205-6213.	2.5	27
12492	Two-Dimensional Planar BGe Monolayer as an Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29764-29769.	4.0	21
12493	Effects of Conjugated Structure on the Magnesium Storage Performance of Dianhydrides. <i>ChemPhysChem</i> , 2021, 22, 1455-1460.	1.0	11
12494	Hollow Carbon Spheres Embedded with VN Quantum Dots as an Efficient Cathode Host for Lithiumâ€“Sulfur Batteries. <i>Energy & Fuels</i> , 2021, 35, 10219-10226.	2.5	17
12495	Synthesis of CuCo ₂ O ₄ nanoparticles as an anode material with high performance for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18765-18776.	1.1	11
12496	Benefit of high-pressure structure on sodium transport properties: Example with NaFeF ₃ post-perovskite. <i>Open Ceramics</i> , 2021, 6, 100123.	1.0	2
12497	Greatly enhanced energy density of allâ€“solidâ€“state rechargeable battery operating in high humidity environments. <i>International Journal of Energy Research</i> , 2021, 45, 16794-16805.	2.2	2
12498	Metal Chalcogenides with Heterostructures for Highâ€“Performance Rechargeable Batteries. <i>Small Science</i> , 2021, 1, 2100012.	5.8	61
12499	Advances in Lithiumâ€“Sulfur Batteries: From Academic Research to Commercial Viability. <i>Advanced Materials</i> , 2021, 33, e2003666.	11.1	357
12500	Formulating the Electrolyte Towards Highâ€“Energy and Safe Rechargeable Lithiumâ€“Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16554-16560.	7.2	80
12501	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303002.	0.7	65
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12507	Highly Stable Quasi-Solid-State Lithium Metal Batteries: Reinforced $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3/\text{Li}$ Interface by a Protection Interlayer. <i>Advanced Energy Materials</i> , 2021, 11, 2101339.	10.2	62
12508	Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li_2CO_3 Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101390.	10.2	60
12509	Carbon-coated oxygen vacancies-rich Co_3O_4 nanoarrays grow on nickel foam as efficient bifunctional electrocatalysts for rechargeable zinc-air batteries. <i>Energy</i> , 2021, 224, 120142.	4.5	32
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12512	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 16690-16696.	1.6	12
12513	Interfacial engineering of $\text{Bi}_2\text{Te}_3/\text{Sb}_2\text{Te}_3$ heterojunction enables high-energy cathode for aluminum batteries. <i>Energy Storage Materials</i> , 2021, 38, 231-240.	9.5	49
12514	Microwave-Assisted Rapid Synthesis of Urchin-Like Bimetallic Mn-Co Carbonate Composites for High-Performance Supercapacitors. <i>ChemistrySelect</i> , 2021, 6, 5633-5639.	0.7	0
12515	Poly(ethylene glycol) brush on $\text{Li}_6.4\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ towards intimate interfacial compatibility in composite polymer electrolyte for flexible all-solid-state lithium metal batteries. <i>Journal of Power Sources</i> , 2021, 498, 229934.	4.0	88
12516	Progress in thermal stability of all-solid-state Li-ion batteries. <i>Informa-Materially</i> , 2021, 3, 827-853.	8.5	126
12517	Carbon nanotubes-based electrode for Zn ion batteries. <i>Materials Research Bulletin</i> , 2021, 138, 111246.	2.7	18
12518	Electrochemical, Thermal, and Structural Features of $\text{BaF}_2\text{-SnF}_2$ Fluoride-Ion Electrolytes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12568-12577.	1.5	8
12519	Stabilizing Li-metal host anode with LiF-rich solid electrolyte interphase. <i>Nano Convergence</i> , 2021, 8, 18.	6.3	12
12520	Strippable and flexible solid electrolyte membrane by coupling $\text{Li}_6.4\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ and insulating polyvinylidene fluoride for solid state lithium ion battery. <i>Ionics</i> , 2021, 27, 3339.	1.2	8
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12524	Composite Separators for Robust High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101420.	7.8	87
12525	The Role of Pilot Lines in Bridging the Gap Between Fundamental Research and Industrial Production for Lithium-ion Battery Cells Relevant to Sustainable Electromobility: A Review. <i>Energy Technology</i> , 2021, 9, 2100132.	1.8	25
12526	Ternary transition metal chalcogenides Ti ₂ PX ₂ (X = S, Se, Te) anodes for high performance metal-ion batteries: A DFT study. <i>Applied Surface Science</i> , 2021, 550, 149177.	3.1	30
12527	Grain boundaries contribute to highly efficient lithium-ion transport in advanced LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ secondary sphere with compact structure. <i>SusMat</i> , 2021, 1, 255-265.	7.8	20
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12529	Exotic nanoparticles of group IV monochalcogenides as anode materials for Li-ion batteries. <i>Solid State Communications</i> , 2021, 332, 114326.	0.9	1
12530	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. <i>Nature Communications</i> , 2021, 12, 3369.	5.8	59
12531	Encapsulation of Iodine in Nitrogen-Containing Porous Carbon Plate Arrays on Carbon Fiber Cloth as a Freestanding Cathode for Lithium-Iodine Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 7012-7019.	2.5	19
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12533	Improving the cycle performance of MgFe ₂ O ₄ anode material based on the spatial limiting effect. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158668.	2.8	5
12534	The application of graphyne and its boron nitride analogue in Li-ion batteries. <i>Computational and Theoretical Chemistry</i> , 2021, 1200, 113243.	1.1	4
12535	Spiral Graphene Coupling Hierarchically Porous Carbon Advances Dual-Carbon Lithium Ion Capacitor. <i>Energy Storage Materials</i> , 2021, 38, 528-534.	9.5	39
12536	High electrochemical and mechanical performance of zinc conducting-based gel polymer electrolytes. <i>Scientific Reports</i> , 2021, 11, 13268.	1.6	28
12537	Conceptualizing a new circular economy feature – storing renewable electricity in batteries beyond EV end-of-life: the case of Slovenia. <i>International Journal of Productivity and Performance Management</i> , 2022, 71, 896-911.	2.2	11
12538	One-step molten salt carbonization of tobacco stem for capacitive carbon. <i>Journal of Porous Materials</i> , 2021, 28, 1629-1642.	1.3	6
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12679	Mass-Zero constrained dynamics and statistics for the shell model in magnetic field. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	3
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12681	Fracture behavior of solid electrolyte LATP material based on micro-pillar splitting method. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5240-5247.	2.8	8
12682	Comparative Studies of Polycrystal and Single-Crystal LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ in Terms of Physical and Electrochemical Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11748-11757.	3.2	11
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12957	Rare earth-Mg-Ni-based alloys with superlattice structure for electrochemical hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161381.	2.8	25
12958	LiNbO ₃ -coated LiNi _{0.7} Co _{0.1} Mn _{0.2} O ₂ and chlorine-rich argyrodite enabling high-performance solid-state batteries under different temperatures. <i>Energy Storage Materials</i> , 2021, 43, 53-61.	9.5	120
12959	Retarding electron conductor endows high reversibility and rate-capability for Li-ion battery. <i>Chemical Engineering Journal</i> , 2021, 425, 128409.	6.6	0
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12966	Engineering interfacial layers to enable Zn metal anodes for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2021, 43, 317-336.	9.5	154
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12971	Enhanced reversible capacity of sulfurized polyacrylonitrile cathode for room-temperature Na/S batteries by electrochemical activation. <i>Chemical Engineering Journal</i> , 2021, 426, 130787.	6.6	22
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13581	Atomistic studies on water-induced lithium corrosion. <i>ChemSusChem</i> , 2021, , .	3.6	2
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13585	Cubic garnet solid polymer electrolyte for room temperature operable all-solid-state-battery. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5849-5863.	2.6	7
13586	Janus-faced graphene substrate stabilizes lithium metal anode. <i>Chemical Engineering Journal</i> , 2022, 433, 133561.	6.6	5
13587	Photochemically driven solid electrolyte interphase for extremely fast-charging lithium-ion batteries. <i>Nature Communications</i> , 2021, 12, 6807.	5.8	32
13588	Recent developments in electrode materials for dual-ion batteries: Potential alternatives to conventional batteries. <i>Materials Today</i> , 2022, 52, 269-298.	8.3	60
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13591	Heavy Fluorination via Ion Exchange Achieves High-performance Li-Mn-O-F Layered Cathode for Li-Ion Batteries. <i>Small</i> , 2022, 18, e2103499.	5.2	10
13592	Self-Expanding Ion Transport Channels on Anodes for Fast-Charging Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
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13594	Critical Review on Low-Temperature Li-Ion/Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2107899.	11.1	204
13595	From Atoms to Cells: Multiscale Modeling of LiNi _x Mn _y Co _z O ₂ Cathodes for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2022, 7, 108-122.	8.8	16
13596	Assessing the Importance of Cation Size in the Tetragonal-Cubic Phase Transition in Lithium-Garnet Electrolytes**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	5
13597	Enabling double layer polymer electrolyte batteries: Overcoming the Li-salt interdiffusion. <i>Energy Storage Materials</i> , 2022, 45, 578-585.	9.5	14

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13602	Self-Expanding Ion-Transport Channels on Anodes for Fast-Charging Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202113313.	7.2	46
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13610	Determinants of lithium-ion battery technology cost decline. <i>Energy and Environmental Science</i> , 2021, 14, 6074-6098.	15.6	46
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13630	Recent progress and perspectives on designing high-performance thick electrodes for all-solid-state lithium batteries. <i>ETransportation</i> , 2022, 11, 100152.	6.8	53
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13723	Advances in materials and fabrication of separators in supercapacitors. <i>Materials Advances</i> , 2022, 3, 1472-1496.	2.6	33
13724	Oxygen Loss in Layered Oxide Cathodes for Li-Ion Batteries: Mechanisms, Effects, and Mitigation. <i>Chemical Reviews</i> , 2022, 122, 5641-5681.	23.0	108
13725	Scalable and low-cost synthesis of porous silicon nanoparticles as high-performance lithium-ion battery anode. <i>Materials Today Nano</i> , 2022, 18, 100175.	2.3	28

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13727	Coupling of 3D Porous Hosts for Li Metal Battery Anodes with Viscous Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010511.	1.3	2
13728	Concentration Gradient Induced Delithiation Failure of MoO ₃ for Li-Ion Batteries. <i>Nano Letters</i> , 2022, 22, 761-767.	4.5	10
13729	Chemical stability of sulfide solid-state electrolytes: stability toward humid air and compatibility with solvents and binders. <i>Energy and Environmental Science</i> , 2022, 15, 991-1033.	15.6	100
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13733	Synthesis, characterization, and applications of ZnO-TiO ₂ nanocomposites. , 2022, , 271-314.		2
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13737	Oxygen vacancies enable excellent electrochemical kinetics of carbon coated mesoporous SnO ₂ nanoparticles in lithium ion batteries. <i>Materials Advances</i> , 2022, 3, 1617-1628.	2.6	2
13738	New Class of Titanium Niobium Oxide for a Li-Ion Host: TiNbO ₄ with Purely Single-Phase Lithium Intercalation. <i>Chemistry of Materials</i> , 2022, 34, 854-863.	3.2	21
13739	Oxide cathodes for sodium-ion batteries: Designs, challenges, and perspectives. , 2022, 4, 170-199.		76
13740	An aqueous zinc-ion battery working at ~50°C enabled by low-concentration perchlorate-based chaotropic salt electrolyte. <i>EcoMat</i> , 2022, 4, .	6.8	40
13741	Recent advances in oxygen deficient metal oxides: Opportunities as supercapacitor electrodes. <i>International Journal of Energy Research</i> , 2022, 46, 7055-7081.	2.2	20
13742	Performance Predictors for Organic Cathodes of Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2022, 5, 2074-2082.	2.5	8
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13745	Gently does it!: <i>in situ</i> preparation of alkali metal–solid electrolyte interfaces for photoelectron spectroscopy. <i>Faraday Discussions</i> , 2022, 236, 267-287.	1.6	11
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13747	Doping strategy and mechanism for oxide and sulfide solid electrolytes with high ionic conductivity. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4517-4532.	5.2	75
13748	Engineering Sodium Metal Anode with Sodiophilic Bismuthide Penetration for Dendrite-Free and High-Rate Sodium-Ion Battery. <i>Engineering</i> , 2022, 11, 87-94.	3.2	18
13749	MoO ₃ Nanoparticle Coatings on High-Voltage 5 V LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials for Improving Lithium-Ion Battery Performance. <i>Nanomaterials</i> , 2022, 12, 409.	1.9	6
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13814	Tin-cobalt bimetallics in 2D leaf-like MOF-derived carbon for advanced lithium storage applications. <i>Electrochimica Acta</i> , 2022, 410, 140036.	2.6	5
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13855	Ion transport in composite polymer electrolytes. <i>Materials Advances</i> , 2022, 3, 3809-3819.	2.6	22
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14004	Biomass-Derived Carbon for High-Performance Batteries: From Structure to Properties. Advanced Functional Materials, 2022, 32, .	7.8	71
14005	Revisiting Rb ₂ TiNb ₆ O ₁₈ as electrode materials for energy storage devices. Electrochemistry Communications, 2022, 137, 107249.	2.3	4
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14066	All-Climate High-Voltage Commercial Lithium-Ion Batteries Based on Propylene Carbonate Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 574-580.	4.0	24
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14167	A technology for producing electrode materials for lithium-ion batteries from Kazakhstan spodumene raw materials. <i>IzvestiĀ Vuzov: PrikladnaĀ HimiĀ I BiotehnologiĀ</i> , 2022, 12, 141-152.	0.1	0
14168	A Robust Bundled and Wrapped Structure Design of Ultrastable Silicon Anodes for Antiaging Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 5540-5550.	2.5	3
14169	Multifunctional Cr Substitution Modulates Electrochemical Activity of Mn _{1-x} Cr _x O for High-Performance Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21028-21037.	4.0	8
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14171	Assessment of optimization strategies for battery electrode active particles based on chemo-mechanical analysis. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 0, , 1-26.	1.1	0
14172	Microcrystalline Hybridization Enhanced Coalâ€Based Carbon Anode for Advanced Sodiumâ€Ion Batteries. <i>Advanced Science</i> , 2022, 9, e2200023.	5.6	43
14173	Eliminating oxygen releasing of Li-rich layered cathodes by tuning the distribution of superlattice domain. <i>Materials Today Energy</i> , 2022, 27, 101039.	2.5	9
14174	Study and Characterization of the Porous Silicon Membrane Anode for LITHIUM-Ion Batteries. <i>Silicon</i> , 0, , .	1.8	0
14175	PI-LAGP Separatorâ€™Construction, Battery Application Performance, and Chemical Valence Changes of Germanium. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4003-4012.	2.0	1
14176	Fe ₃ O ₄ /N-CNTs derived from hypercrosslinked carbon nanotube as efficient catalyst for ORR in both acid and alkaline electrolytes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20529-20539.	3.8	16
14177	Study on the possibility of diagonal line rule in elemental doping effects in Li ₄ Ti ₅ O ₁₂ by mechanochemical method. <i>Electrochimica Acta</i> , 2022, 422, 140485.	2.6	2
14178	Flexible self-charging power sources. <i>Nature Reviews Materials</i> , 2022, 7, 870-886.	23.3	159
14179	Optimization of VOSO ₄ @C cathode materials with CNT and GO for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 914, 165354.	2.8	3

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14181	Thin polymer electrolyte with MXene functional layer for uniform Li ⁺ deposition in all-solid-state lithium battery. <i>Green Energy and Environment</i> , 2024, 9, 71-80.	4.7	4
14182	Sequential Fe Reduction, Involving Two Different Fe ⁺ Intermediates, in the Conversion Reaction of Prussian Blue in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2022, 34, 4660-4671.	3.2	0
14183	High-Pressure Synthesis of Trigonal LiFe ₂ F ₆ : New Iron Fluoride with Li ⁺ Tunnels as a Potential Cathode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8248-8255.	1.5	1
14184	Regulating Solvation Structure in Nonflammable Amide-Based Electrolytes for Long-Cycling and Safe Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	47
14185	Rational design of robust and universal aqueous binders to enable highly stable cyclability of high-capacity conversion and alloy-type anodes. <i>Energy and Environmental Materials</i> , 0, , .	7.3	2
14186	High-performance lithium-ion batteries with gel polymer electrolyte based on ultra-thin PVDF film. <i>Ionics</i> , 2022, 28, 3269-3276.	1.2	1
14187	Hydroxylated Multi-Walled Carbon Nanotubes Covalently Modified with Tris(hydroxypropyl) Phosphine as a Functional Interlayer for Advanced Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
14188	Research progress of precise structural regulation of single atom catalyst for accelerating electrocatalytic oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2022, 72, 56-72.	7.1	33
14189	Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. <i>National Science Review</i> , 2022, 9, .	4.6	55
14190	A Polymer Network Layer Containing Dually Anchored Ionic Liquids for Stable Lithium-Sulfur Batteries. <i>Macromolecular Rapid Communications</i> , 2023, 44, e2200246.	2.0	2
14191	Understanding the role of Ca-doping onto MgMn ₂ O ₄ cathode material for rechargeable Mg cells. <i>Ionics</i> , 0, , 1.	1.2	0
14192	Zeolitic imidazolate framework-8 derivative/carbonized polyacrylonitrile composite filled in Ni foam as a self-supporting anode for lithium-ion batteries. <i>Ionics</i> , 0, , 1.	1.2	1
14193	Hydroxylated Multi-Walled Carbon Nanotubes Covalently Modified with Tris(hydroxypropyl) Phosphine as a Functional Interlayer for Advanced Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	43
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14196	ZIF-8-Derived Carbon <i>in Situ</i> Modification of High-Content Manganese Oxide for a High-Capacity Lithium-Ion Battery. <i>Energy & Fuels</i> , 0, , .	2.5	1
14197	Deep Probabilistic Learning Model for Prediction of Ionic Liquids Toxicity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5258.	1.8	8

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14199	Highly safe and stable Li ⁺ /CO ₂ batteries using conducting ceramic solid electrolyte and MWCNT composite cathode. <i>Electrochimica Acta</i> , 2022, 419, 140408.	2.6	12
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14201	Marine shrimp/tin waste as a negative electrode for rechargeable sodium-ion batteries. <i>Journal of Cleaner Production</i> , 2022, 359, 131994.	4.6	9
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14204	Heat generation and thermal runaway mechanisms induced by overcharging of aged lithium-ion battery. <i>Applied Thermal Engineering</i> , 2022, 212, 118565.	3.0	38
14205	MXene-carbon nanotubes-Cellulose-LiFePO ₄ based self-supporting cathode with ultrahigh-area-capacity for lithium-ion batteries. <i>Electrochimica Acta</i> , 2022, 420, 140464.	2.6	15
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14207	MnO ₂ core-shell type materials for high-performance supercapacitors: A short review. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109493.	1.8	33
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14210	Nitrogen-rich azoles as trifunctional electrolyte additives for high-performance lithium-sulfur battery. <i>Journal of Energy Chemistry</i> , 2022, 71, 572-579.	7.1	18
14211	In-situ modification of ultrathin and uniform layer on LiCoO ₂ particles for 4.2 V poly(ethylene oxide) based solid-state lithium batteries with excellent cycle performance. <i>Electrochimica Acta</i> , 2022, 421, 140473.	2.6	2
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14217	Sub-zero temperature electrolytes for lithium-sulfur batteries: Functional mechanisms, challenges and perspectives. <i>Chemical Engineering Journal</i> , 2022, 443, 136637.	6.6	12
14218	Absence of anomalous underscreening in highly concentrated aqueous electrolytes confined between smooth silica surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 819-827.	5.0	15
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14221	Recent advancements in batteries and photo-batteries using metal halide perovskites. <i>APL Materials</i> , 2022, 10, .	2.2	17
14222	Interface science in polymer-based composite solid electrolytes in lithium metal batteries. <i>SusMat</i> , 2022, 2, 264-292.	7.8	21
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14227	In-Situ Visualization of the Transition Metal Dissolution in Layered Cathodes. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2022, 19, .	1.1	2
14228	Research Development on Aqueous Ammonium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	58
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14230	Sulfur/Nitrogen Co-Doped Mesoporous Carbon for High-Performance Lithium-Ion Battery Anodes. <i>Journal of Electronic Materials</i> , 0, , .	1.0	1
14231	Deformation and fracture behaviors of cylindrical battery shell during thermal runaway. <i>Journal of Power Sources</i> , 2022, 539, 231607.	4.0	18
14232	Enhanced immobilization and accelerated conversion of polysulfides by functionalized separator for advanced lithium sulfur batteries. <i>Journal of Power Sources</i> , 2022, 539, 231490.	4.0	6
14233	In-situ construction of chemically bonded conductive polymeric network for high-performance silicon microparticle anodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 539, 231591.	4.0	12

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14235	Mesoporous Ti ₄ O ₇ Nanosheets with High Polar Surface Area for Catalyzing Separator to Reduce the Shuttle Effect of Soluble Polysulfides in Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	2
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14242	Enhanced rate performance of lithium-ion battery anodes using a cobalt-incorporated carbon conductive agent. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3484-3493.	3.0	2
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14244	Engineering of Sodium-Ion Batteries: Opportunities and Challenges. <i>Engineering</i> , 2023, 24, 172-183.	3.2	28
14245	Solid-Electrolyte Interphase of Molecular Crowding Electrolytes. <i>Chemistry of Materials</i> , 2022, 34, 5176-5183.	3.2	14
14246	In Situ Synthesis of Organopolysulfides Enabling Spatial and Kinetic Co-Mediation of Sulfur Chemistry. <i>ACS Nano</i> , 2022, 16, 9163-9171.	7.3	13
14247	Li-N Interaction Induced Deep Eutectic Gel Polymer Electrolyte for High Performance Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
14248	Key materials and future perspective for aqueous rechargeable lithium-ion batteries. <i>Materials Reports Energy</i> , 2022, 2, 100096.	1.7	6
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14251	Lamella-like electrode with high Br ₂ -trapping capability and activity enabled by adsorption and spatial confinement effects for bromine-based flow battery. <i>Science Bulletin</i> , 2022, 67, 1362-1371.	4.3	16

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14253	Ball Milling Solid-State Synthesis of Highly Crystalline Prussian Blue Analogue Na ₂ xMnFe(CN) ₆ Cathodes for All-Climate Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	11
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14255	Defect-abundant commercializable 3D carbon papers for fabricating composite Li anode with high loading and long life. <i>Energy Storage Materials</i> , 2022, 50, 407-416.	9.5	4
14256	Enhanced Li ⁺ Ionic Conduction and Relaxation Properties of Li ₅ +2xLa ₃ Ta ₂ -xGaxO ₁₂ Garnets. <i>Crystals</i> , 2022, 12, 770.	1.0	1
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14258	Chain Dynamics and Crystallization Behavior of Poly(ethylene oxide) in Imidazolium-Based Ionic Liquids with Different Cationic Structures. <i>Macromolecules</i> , 0, , .	2.2	1
14259	Li-N Interaction Induced Deep Eutectic Gel Polymer Electrolyte for High Performance Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	0
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14261	P-functionalized carbon nanotubes promote highly stable electrocatalysts based on Fe-phthalocyanines for oxygen reduction: Experimental and computational studies. <i>Journal of Energy Chemistry</i> , 2022, 72, 276-290.	7.1	11
14262	Realizing highly reversible and deeply rechargeable Zn anode by porous zeolite layer. <i>Journal of Power Sources</i> , 2022, 540, 231659.	4.0	5
14263	Rechargeable metal-SO ₂ batteries: Recent progress, current challenges and future prospects. <i>Journal of Energy Storage</i> , 2022, 52, 104952.	3.9	3
14264	Zinc-guided 3D graphene bulk materials for high-performance binder-free anodes of potassium-ion batteries. <i>Journal of Power Sources</i> , 2022, 540, 231613.	4.0	2
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14266	Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137050.	6.6	9
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14272	Doped Superior Garnet Electrolyte Toward All-Solid-State Li Metal Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
14273	Nitrogen-Doped Porous Carbon Nanofiber Decorated with Feni Alloy for Dendrite-Free High-Performance Lithium Metal Anode. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
14274	Poly(ethylene glycol)-functionalized 3D covalent organic frameworks as solid-state polyelectrolytes. <i>RSC Advances</i> , 2022, 12, 16354-16357.	1.7	8
14275	Solid electrolyte based on 2-adamantanone for all-solid-state lithium-ion batteries. <i>Ionics</i> , 2022, 28, 3615-3621.	1.2	1
14276	Synthesis of free-standing flexible $\text{g-C}_3\text{N}_4$ / MXene film as electrode materials for supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 13308-13315.	2.2	6
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14284	Halide-type Li-ion conductors: Future options for high-voltage all-solid-state batteries. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 1233-1241.	0.8	2
14285	Graphene-based Activated Carbon Composites for High Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	6
14286	Large-Scale Synthesis of Silicon-Based Nanocomposites in Air Atmosphere for Lithium-Ion Batteries by Ball-Milling Method. <i>Journal of Electronic Materials</i> , 2022, 51, 4329-4336.	1.0	3
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14289	Advances and perspectives on one-dimensional nanostructure electrode materials for potassium-ion batteries. <i>Materials Today</i> , 2022, 56, 114-134.	8.3	26
14290	Efficient oxygen electrocatalysts with highly-exposed Co-N ₄ active sites on N-doped graphene-like hierarchically porous carbon nanosheets enhancing the performance of rechargeable Zn-air batteries. <i>Nano Research</i> , 2022, 15, 7209-7219.	5.8	42
14291	Interfacially Enhanced Stability and Electrochemical Properties of C/SiO _x Nanocomposite Lithium-Ion Battery Anodes. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	12
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14296	Energetic Aqueous Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	48
14297	Understanding of the sodium storage mechanism in hard carbon anodes. , 2022, 4, 1133-1150.		83
14298	SiO ₂ -GeO ₂ Glass-Ceramic Flakes as an Anode Material for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2022, 10, .	1.8	5
14299	Electrospun-based nanofibers for sodium and potassium ion storage: Structure design for alkali metal ions with large radius. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165680.	2.8	10
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14885	Recent Progress of Anode Protection in Li-S Batteries. <i>Energy Technology</i> , 2023, 11, .	1.8	7
14886	State-of-the-art in bioresources for sustainable transportation. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 3768-3790.	3.8	7
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14888	Integration strategy for facile fabrication of porous carbon coated Fe ₃ O ₄ nanospindles with enhanced lithium storage. <i>Journal of Alloys and Compounds</i> , 2023, 935, 168105.	2.8	4
14889	Collaboration of two-star nanomaterials: The applications of nanocellulose-based metal organic frameworks composites. <i>Carbohydrate Polymers</i> , 2023, 302, 120359.	5.1	15

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14903	Activation of 2D MoS ₂ electrodes induced by high-rate lithiation processes. <i>Journal of Energy Chemistry</i> , 2023, 78, 56-70.	7.1	7
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14905	Vanadium Oxide-Poly(3,4-ethylenedioxythiophene) Nanocomposite as High-Performance Cathode for Aqueous Zn-Ion Batteries: The Structural and Electrochemical Characterization. <i>Nanomaterials</i> , 2022, 12, 3896.	1.9	3
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15024	Electronic level modelling of graphene-borophene lateral heterostructures as anodes in Li-ion batteries. <i>Applied Surface Science</i> , 2023, 614, 156227.	3.1	2
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15026	A Disordered Rubik's Cube-Inspired Framework for Sodium-Ion Batteries with Ultralong Cycle Lifespan. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	36
15027	Thiolate-Based Electrolytes with Anion-Dominated Solvation for Highly Stable Lithium Metal Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 21181-21187.	1.5	3
15028	Progress in electrode materials for the industrialization of sodium-ion batteries. <i>Progress in Natural Science: Materials International</i> , 2023, 33, 1-7.	1.8	29
15029	A disordered Rubik's cube-inspired framework for sodium-ion batteries with ultralong cycle lifespan. <i>Angewandte Chemie</i> , 0, , .	1.6	0
15030	Crossover effects of transition metal ions in high-voltage lithium metal batteries. <i>Nano Research</i> , 2023, 16, 8417-8424.	5.8	2
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15034	Secondary Batteries for Mobile Applications: From Lead to Lithium [Historical]. <i>IEEE Industrial Electronics Magazine</i> , 2022, 16, 60-68.	2.3	1
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15085	Emerging organic electrodes for Na-ion and K-ion batteries. <i>Energy Storage Materials</i> , 2023, 56, 267-299.	9.5	41
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15142	Selective Dual-Ion Modulation in Solid-State Magnetoelectric Heterojunctions for In-Memory Encryption. <i>Small</i> , 0, , 2206824.	5.2	1
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