

Zexiang Shen

List of Publications by Year in descending order

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611
papers

52,743
citations

1459

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626
docs citations

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times ranked

53487
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Crystallinity and Defects of Layered Carbon Materials on Potassium Storage: A Review and Prediction. <i>Electrochemical Energy Reviews</i> , 2022, 5, 401-433.	13.1	65
2	Chinese knot-like bimetallic NiCo ₂ S ₄ grew on 3D graphene foam as high-performance electrode for Na ⁺ storage. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161988.	2.8	9
3	Interlayer Excitons in Transition Metal Dichalcogenide Semiconductors for 2D Optoelectronics. <i>Advanced Materials</i> , 2022, 34, e2107138.	11.1	28
4	Reversible Photochromism in γ -110 γ Oriented Layered Halide Perovskite. <i>ACS Nano</i> , 2022, 16, 2942-2952.	7.3	23
5	In Situ Fabrication of Cuprous Selenide Electrode via Selenization of Copper Current Collector for High-Efficiency Potassium-Ion and Sodium-Ion Storage. <i>Advanced Science</i> , 2022, 9, e2104630.	5.6	19
6	Unraveling the effects of anions in NixAy@CC (A=O, S, P) on Li-sulfur batteries. <i>Materials Today Nano</i> , 2021, 13, 100106.	2.3	5
7	Strong coupling and pressure engineering in WSe ₂ /MoSe ₂ heterobilayers. <i>Nature Physics</i> , 2021, 17, 92-98.	6.5	140
8	Composition-tuned MAPbBr ₃ nanoparticles with addition of Cs ⁺ cations for improved photoluminescence. <i>RSC Advances</i> , 2021, 11, 24137-24143.	1.7	3
9	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021, 7, .	4.7	98
10	Reversible Pb ²⁺ /Pb ⁰ and I ^{••} /I ₃ ^{••} Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. <i>Advanced Energy Materials</i> , 2021, 11, 2002934.	10.2	56
11	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites. <i>Advanced Materials</i> , 2021, 33, e2006233.	11.1	41
12	Maximized pseudo-graphitic content in self-supported hollow interconnected carbon foam boosting ultrastable Na-ion storage. <i>Electrochimica Acta</i> , 2021, 371, 137776.	2.6	7
13	Perovskite Light-Emitting Diodes with Near Unit Internal Quantum Efficiency at Low Temperatures. <i>Advanced Materials</i> , 2021, 33, e2006302.	11.1	16
14	Energy storage mechanisms of anode materials for potassium ion batteries. <i>Materials Today Energy</i> , 2021, 21, 100747.	2.5	38
15	Formation of Corrugated $n = 1$ 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. <i>ACS Nano</i> , 2021, 15, 6395-6409.	7.3	18
16	Polymorph Engineering for Boosted Volumetric Na-Ion and Li-Ion Storage. <i>Advanced Materials</i> , 2021, 33, e2100210.	11.1	32
17	Layered P3-Type K _{0.4} Fe _{0.1} Mn _{0.8} Ti _{0.1} O ₂ as a Low-Cost and Zero-Strain Electrode Material for both Potassium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18897-18904.	4.0	28
18	Pressure-Tuned Quantum Well Configuration in Two-Dimensional PA ₈ Pb ₅ I ₁₈ Perovskites for Highly Efficient Yellow Fluorescence. <i>ACS Applied Energy Materials</i> , 2021, 4, 10003-10011.	2.5	7

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19	Boosting Zn ²⁺ and NH ₄ ⁺ Storage in Aqueous Media via In-Situ Electrochemical Induced VS ₂ /VO _x Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2008743.	7.8	92
20	Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22630-22642.	1.5	4
21	Plasmonic evolution maps for planar metamaterials. <i>Photonics Research</i> , 2021, 9, 73.	3.4	1
22	Strong coupling between two-dimensional transition metal dichalcogenides and plasmonic-optical hybrid resonators. <i>Physical Review B</i> , 2021, 104, .	1.1	2
23	The effect of organic cation dynamics on the optical properties in (PEA) ₂ (MA)[Pb ₂ I ₇] perovskite dimorphs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17050-17060.	2.7	2
24	Controlled Fragmentation of Single-Atom-Thick Polycrystalline Graphene. <i>Matter</i> , 2020, 2, 666-679.	5.0	45
25	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , 2020, 11, 3490.	5.8	121
26	Hybrid Plasmonics and Two-Dimensional Materials: Theory and Applications. <i>Journal of Molecular and Engineering Materials</i> , 2020, 08, 2030001.	0.9	4
27	Hierarchical porous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ with yolk-shell-like architecture as stable cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2020, 10, 18776-18783.	1.7	18
28	Cobalt sulfide nanoflakes grown on graphite foam for Na-ion batteries with ultrahigh initial coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14900-14907.	5.2	27
29	N-doped carbon sheets arrays embedded with CoP nanoparticles as high-performance cathode for Li-S batteries via triple synergistic effects. <i>Journal of Power Sources</i> , 2020, 455, 227959.	4.0	34
30	Metallic elements and Pb isotopes in PM _{2.5} in three Chinese typical megacities: spatial distribution and source apportionment. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1718-1730.	1.7	8
31	Molecular Engineering of Pure 2D Lead-Halide Perovskite Solar Absorbers Displaying Reduced Band Gaps and Dielectric Confinement. <i>ChemSusChem</i> , 2020, 13, 2693-2701.	3.6	14
32	Targeted Synthesis of Trimeric Organic-Bromoplumbate Hybrids That Display Intrinsic, Highly Stokes-Shifted, Broadband Emission. <i>Chemistry of Materials</i> , 2020, 32, 4431-4441.	3.2	25
33	Lotus root-like porous carbon for potassium ion battery with high stability and rate performance. <i>Journal of Power Sources</i> , 2020, 466, 228303.	4.0	22
34	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. <i>Advanced Optical Materials</i> , 2019, 7, 1900905.	3.6	13
35	4-V flexible all-solid-state lithium polymer batteries. <i>Nano Energy</i> , 2019, 64, 103986.	8.2	39
36	Enhancing the Electrochemical Performance of LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ by V ₂ O ₅ /LiV ₃ O ₈ Coating. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26994-27003.	4.0	36

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37	Metallization: New Metallic Ordered Phase of Perovskite CsPbI ₃ under Pressure (Adv. Sci. 14/2019). Advanced Science, 2019, 6, 1970083.	5.6	3
38	A Depth-Profiling Study on the Solid Electrolyte Interface: Bis(fluorosulfonyl)imide Anion toward Improved K ⁺ Storage. ACS Applied Energy Materials, 2019, 2, 7942-7951.	2.5	51
39	Remarkable dielectric breakdown strength enhancement of a PVDF terpolymer using a 2D hybrid organic inorganic perovskite as a functional additive. Journal of Materials Chemistry C, 2019, 7, 13390-13395.	2.7	3
40	Durable Freestanding Hierarchical Porous Electrode for Rechargeable Zinc-Air Batteries. ACS Applied Energy Materials, 2019, 2, 1505-1516.	2.5	18
41	N-doping and oxidation of carbon nanotubes and jellyfish-like graphene nanoflakes through the prism of Raman spectroscopy. Applied Surface Science, 2019, 488, 51-60.	3.1	63
42	Highly anisotropic thermoelectric properties of black phosphorus crystals. 2D Materials, 2019, 6, 045009.	2.0	33
43	Staging: Unraveling the Potassium Storage Mechanism in Graphite Foam (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970081.	10.2	5
44	Improving Polysulfides Adsorption and Redox Kinetics by the Co ₄ N Nanoparticle/N-Doped Carbon Composites for Lithium-Sulfur Batteries. Small, 2019, 15, e1901454.	5.2	130
45	New Metallic Ordered Phase of Perovskite CsPbI ₃ under Pressure. Advanced Science, 2019, 6, 1900399.	5.6	57
46	Simultaneous Immobilization and Conversion of Polysulfides on Co ₃ O ₄ -CoN Heterostructured Mediators toward High-Performance Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2570-2578.	2.5	18
47	Unraveling the Potassium Storage Mechanism in Graphite Foam. Advanced Energy Materials, 2019, 9, 1900579.	10.2	133
48	Excitonic states and structural stability in two-dimensional hybrid organic-inorganic perovskites. Journal of Science: Advanced Materials and Devices, 2019, 4, 189-200.	1.5	32
49	In-plane coherent control of plasmon resonances for plasmonic switching and encoding. Light: Science and Applications, 2019, 8, 21.	7.7	29
50	Nitrogen configuration dependent holey active sites toward enhanced K ⁺ storage in graphite foam. Journal of Power Sources, 2019, 419, 82-90.	4.0	36
51	In-plane optical anisotropy in ReS ₂ flakes determined by angle-resolved polarized optical contrast spectroscopy. Nanoscale, 2019, 11, 20199-20205.	2.8	25
52	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	6.6	95
53	Raman Imaging of Two Dimensional Materials. Springer Series in Materials Science, 2019, , 231-261.	0.4	0
54	Improved Photovoltaic Efficiency and Amplified Photocurrent Generation in Mesoporous $n = 1$ Two-Dimensional Lead-Iodide Perovskite Solar Cells. Chemistry of Materials, 2019, 31, 890-898.	3.2	57

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55	Ordered Array of Metal Particles on Semishell Separated with Ultrathin Oxide: Fabrication and SERS Properties. <i>Coatings</i> , 2019, 9, 20.	1.2	1
56	Nanocarbon-Based Electrocatalysts for Rechargeable Aqueous Li/Zn-Air Batteries. <i>ChemElectroChem</i> , 2018, 5, 1745-1763.	1.7	34
57	Low Frequency Raman Scattering of Two-Dimensional Materials Beyond Graphene. <i>Springer Series in Surface Sciences</i> , 2018, , 195-206.	0.3	0
58	Phase Transformation of GeO ₂ Glass to Nanocrystals under Ambient Conditions. <i>Nano Letters</i> , 2018, 18, 3290-3296.	4.5	35
59	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	13.7	1,225
60	High-Crystallinity Urchin-like VS ₄ Anode for High-Performance Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14727-14734.	4.0	74
61	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small Methods</i> , 2018, 2, 1700369.	4.6	106
62	Nanoengineering of 2D tin sulfide nanoflake arrays incorporated on polyaniline nanofibers with boosted capacitive behavior. <i>2D Materials</i> , 2018, 5, 031005.	2.0	20
63	N, P Co-doped Hierarchical Porous Graphene as a Metal-Free Bifunctional Air Cathode for Zn-Air Batteries. <i>ChemElectroChem</i> , 2018, 5, 1811-1816.	1.7	19
64	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . <i>Chemistry of Materials</i> , 2018, 30, 4001-4007.	3.2	85
65	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1800058.	10.2	157
66	Progress in aqueous rechargeable batteries. <i>Green Energy and Environment</i> , 2018, 3, 20-41.	4.7	255
67	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	11.1	89
68	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. <i>Advanced Science</i> , 2018, 5, 1700375.	5.6	141
69	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. <i>Advanced Science</i> , 2018, 5, 1700322.	5.6	1,043
70	Tailoring Mechanical Properties of Suspended Graphene by Energetic Ion Beams. , 2018, , ,		1
71	Manganese phosphate coated Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ cathode material: Towards superior cycling stability at elevated temperature and high voltage. <i>Journal of Power Sources</i> , 2018, 402, 263-271.	4.0	99
72	Recent progress on photoluminescence from plasmonic nanostructures: Phenomenon, mechanism, and application. <i>Chinese Physics B</i> , 2018, 27, 097803.	0.7	11

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73	MnPO ₄ -Coated Li-NCM: MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium(-ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics (Adv. Energy Mater. 27/2018). Advanced Energy Materials, 2018, 8, 1870123.	10.2	9
74	Self-adaptive electrochemical reconstruction boosted exceptional Li ⁺ ion storage in a Cu ₃ P@C anode. Journal of Materials Chemistry A, 2018, 6, 18821-18826.	5.2	60
75	Double-Shell Phosphorus and Nitrogen Codoped Carbon Nanospheres as Efficient Polysulfide Mediator for High-Performance Lithium-Sulfur Batteries. Advanced Science, 2018, 5, 1800621.	5.6	83
76	MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium(-ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. Advanced Energy Materials, 2018, 8, 1801573.	10.2	87
77	Coherent Spin and Quasiparticle Dynamics in Solution-Processed Layered 2D Lead Halide Perovskites. Advanced Science, 2018, 5, 1800664.	5.6	66
78	Morphology controlled lithium storage in Li ₃ VO ₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	5.2	46
79	Structural and thermoanalytical features of novel morpholinium-based high-voltage ionic liquid. Structural Chemistry, 2017, 28, 279-287.	1.0	2
80	Synergistic capacitive behavior between polyaniline and carbon black. Electrochimica Acta, 2017, 230, 236-244.	2.6	38
81	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc-air batteries. Journal of Materials Chemistry A, 2017, 5, 2488-2495.	5.2	83
82	Energy transfer and depolarization in the photoluminescence of a plasmonic molecule. Nanoscale, 2017, 9, 2082-2087.	2.8	7
83	Rapid Pseudocapacitive Sodium-Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. Advanced Functional Materials, 2017, 27, 1606232.	7.8	108
84	Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene) Terephthalate. ACS Nano, 2017, 11, 10900-10910.	7.6	109
85	Electron/Ion Sponge-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. ACS Nano, 2017, 11, 6911-6920.	7.3	95
86	Recent progress in surface coating of layered LiNi _x Co _y Mn _z O ₂ for lithium-ion batteries. Materials Research Bulletin, 2017, 96, 491-502.	2.7	102
87	Phase evolution of lithium intercalation dynamics in 2H-MoS ₂ . Nanoscale, 2017, 9, 7533-7540.	2.8	83
88	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. Nano Energy, 2017, 37, 108-117.	8.2	143
89	Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH ₃ NH ₃ PbBr ₃ : Experiment and Theory. Chemistry of Materials, 2017, 29, 5974-5981.	3.2	80
90	Adaptable metasurface for dynamic anomalous reflection. Applied Physics Letters, 2017, 110, .	1.5	39

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91	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
92	Oxidation, defunctionalization and catalyst life cycle of carbon nanotubes: a Raman spectroscopy view. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2276-2285.	1.3	106
93	Space-confinement and chemisorption co-involved in encapsulation of sulfur for lithium-sulfur batteries with exceptional cycling stability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24602-24611.	5.2	24
94	Recent advances in air electrodes for Zn-air batteries: electrocatalysis and structural design. <i>Materials Horizons</i> , 2017, 4, 945-976.	6.4	263
95	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. <i>ACS Nano</i> , 2017, 11, 9191-9199.	7.3	53
96	Toward greener lithium-ion batteries: Aqueous binder-based LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ cathode material with superior electrochemical performance. <i>Journal of Power Sources</i> , 2017, 372, 180-187.	4.0	54
97	1D nanobar-like LiNi _{0.4} Co _{0.2} Mn _{0.4} O ₂ as a stable cathode material for lithium-ion batteries with superior long-term capacity retention and high rate capability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15669-15675.	5.2	51
98	Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15423-15446.	5.2	184
99	Current rectification and asymmetric photoresponse in MoS ₂ stacking-induced homojunctions. <i>2D Materials</i> , 2017, 4, 035011.	2.0	13
100	Transition metal dichalcogenides: structural, optical and electronic property tuning via thickness and stacking. <i>FlatChem</i> , 2017, 4, 1-19.	2.8	51
101	Valley polarization in stacked MoS ₂ induced by circularly polarized light. <i>Nano Research</i> , 2017, 10, 1618-1626.	5.8	23
102	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017, 29, 1603471.	11.1	181
103	Metal-Semiconductor Phase Transition in WSe ₂ (1-x)Te _{2x} Monolayer. <i>Advanced Materials</i> , 2017, 29, 1603991.	11.1	123
104	High pressure-induced cleavage and recrystallization of CH ₃ NH ₃ PbBr ₃ perovskite nanoparticles into large nanoplates. , 2017, , .		0
105	Stability of CH ₃ NH ₃ PbBr ₃ and evolution of H-bonding during its polymorphic transformations. , 2017, , .		0
106	Pressure-Induced Phase Transition in Weyl Semimetallic WTe ₂ . <i>Small</i> , 2017, 13, 1701887.	5.2	37
107	Hydrogen-bonding evolution during the polymorphic transformations in CH ₃ NH ₃ PbBr ₃ : Experiment and theory. , 2017, , .		0
108	Enhanced light-matter interaction in atomically thin MoS ₂ coupled with 1D photonic crystal nanocavity. <i>Optics Express</i> , 2017, 25, 14691.	1.7	15

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109	Growth and characterization of highly tensile strained Ge _{1-x} Sn _x formed on relaxed InGaP buffer layers. Journal of Applied Physics, 2016, 119, .	1.1	4
110	Multi-Drug-Loaded Microcapsules with Controlled Release for Management of Parkinson's Disease. Small, 2016, 12, 3712-3722.	5.2	19
111	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. Small, 2016, 12, 3048-3058.	5.2	440
112	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. Advanced Functional Materials, 2016, 26, 137-145.	7.8	150
113	Stability of a high-voltage ionic liquid with a substituted piperidinium cation and a TFSI anion, promising for electrochemical applications. Mendeleev Communications, 2016, 26, 240-242.	0.6	8
114	Active sites-enriched hierarchical MoS ₂ nanotubes: highly active and stable architecture for boosting hydrogen evolution and lithium storage. Journal of Materials Chemistry A, 2016, 4, 7565-7572.	5.2	44
115	Anomalous Shift Behaviors in the Photoluminescence of Dolmen-Like Plasmonic Nanostructures. ACS Photonics, 2016, 3, 979-984.	3.2	22
116	Electrocatalytically Active Graphene supported M ₂ Carbides (M Ni, Co) for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 216, 246-252.	2.6	27
117	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	5.6	163
118	Polyaniline (PANI) based electrode materials for energy storage and conversion. Journal of Science: Advanced Materials and Devices, 2016, 1, 225-255.	1.5	350
119	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. Science Advances, 2016, 2, e1600209.	4.7	67
120	Graphene quantum dots-shielded Na ₃ (VO) ₂ (PO ₄) ₂ F@C nanocuboids as robust cathode for Na-ion battery. Energy Storage Materials, 2016, 5, 198-204.	9.5	88
121	Ultrastrong light-matter coupling of cyclotron transition in monolayer MoS_2 . Physical Review B, 2016, 93, .	1.1	1
122	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. Nature Communications, 2016, 7, 12122.	5.8	1,232
123	Hierarchical Porous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li ⁺ Mobility for Enhanced Electrochemical Performance. Scientific Reports, 2016, 6, 25771.	1.6	178
124	Pseudocapacitive Na-Ion Storage Boosts High Rate and Areal Capacity of Self-Branched 2D Layered Metal Chalcogenide Nanoarrays. ACS Nano, 2016, 10, 10211-10219.	7.3	844
125	Large size nitrogen-doped graphene-coated graphite for high performance lithium-ion battery anode. RSC Advances, 2016, 6, 104010-104015.	1.7	14
126	Refined Sulfur Nanoparticles Immobilized in Metal-Organic Polyhedron as Stable Cathodes for Li-S Battery. ACS Applied Materials & Interfaces, 2016, 8, 14328-14333.	4.0	42

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127	Strong interfacial coupling of MoS ₂ /g-C ₃ N ₄ van de Waals solids for highly active water reduction. Nano Energy, 2016, 27, 44-50.	8.2	96
128	Graphene homojunction: closed-edge bilayer graphene by pseudospin interaction. Nanoscale, 2016, 8, 9102-9106.	2.8	5
129	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. Journal of Physical Chemistry C, 2016, 120, 1994-2001.	1.5	25
130	Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. Journal of Materials Chemistry A, 2016, 4, 7148-7154.	5.2	17
131	MoS ₂ nanosheets decorated Ni ₃ S ₂ @MoS ₂ coaxial nanofibers: Constructing an ideal heterostructure for enhanced Na-ion storage. Nano Energy, 2016, 20, 1-10.	8.2	178
132	Aqueous Rechargeable Alkaline Co ₂ Ni ₂ S ₂ /TiO ₂ Battery. ACS Nano, 2016, 10, 1007-1016.	7.3	123
133	Tunable flat lens based on microfluidic reconfigurable metasurface. , 2015, , .		2
134	The roles of lithium-philic giant nitrogen-doped graphene in protecting micron-sized silicon anode from fading. Scientific Reports, 2015, 5, 15665.	1.6	42
135	Coupling and Interlayer Exciton in Twist-Stacked WS ₂ Bilayers. Advanced Optical Materials, 2015, 3, 1600-1605.	3.6	63
136	Fabrication of a trans-scale bimetallic synergistic enhanced Raman scattering substrate with high surface-enhanced Raman scattering activity. Analytical Methods, 2015, 7, 1676-1679.	1.3	8
137	Nitrogen-doped Graphene-Supported Transition-metals Carbide Electrocatalysts for Oxygen Reduction Reaction. Scientific Reports, 2015, 5, 10389.	1.6	77
138	Sulphur-free synthesis of helical carbon nanotubes. Materials Technology, 2015, 30, 115-120.	1.5	8
139	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. Advanced Materials Interfaces, 2015, 2, 1400499.	1.9	102
140	ZnO Nanorods with Low Intrinsic Defects and High Optical Performance Grown by Facile Microwave-Assisted Solution Method. ACS Applied Materials & Interfaces, 2015, 7, 4737-4743.	4.0	33
141	Strain engineering in graphene by laser irradiation. Applied Physics Letters, 2015, 106, .	1.5	8
142	Surfactant-assisted encapsulation of uniform SnO ₂ nanoparticles in graphene layers for high-performance Li-storage. 2D Materials, 2015, 2, 014005.	2.0	18
143	Significantly different mechanical properties and interfacial structures of Cu ₂ ZnSn(S,Se) ₄ films prepared from metallic and sulfur-contained precursors. Solar Energy Materials and Solar Cells, 2015, 134, 389-394.	3.0	6
144	MoS ₂ architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 17534-17543.	5.2	51

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145	Raman analysis of gold on WSe ₂ single crystal film. <i>Materials Research Express</i> , 2015, 2, 065009.	0.8	20
146	Probing Vertical and Horizontal Plasmonic Resonant States in the Photoluminescence of Gold Nanodisks. <i>ACS Photonics</i> , 2015, 2, 1217-1223.	3.2	22
147	Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. <i>ACS Nano</i> , 2015, 9, 5198-5207.	7.3	441
148	Tunable metamaterial lens array via metadroplets. , 2015, , .		2
149	Pyrolytic synthesis and characterization of N-doped carbon nanoflakes for electrochemical applications. <i>Materials Research Bulletin</i> , 2015, 69, 7-12.	2.7	28
150	Monolayers of WxMo1-xS2 alloy heterostructure with in-plane composition variations. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	99
151	Shape/temperature memory phenomena in un-crosslinked poly-ε-caprolactone (PCL). <i>European Polymer Journal</i> , 2015, 72, 282-295.	2.6	45
152	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23283-23288.	5.2	103
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