

Xian-you Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

432
papers

13,004
citations

59
h-index

82
g-index

446
ext. papers

15,217
ext. citations

6.7
avg, IF

6.73
L-index

#	Paper	IF	Citations
432	Regeneration and performance of LiFePO ₄ with Li ₂ CO ₃ and FePO ₄ as raw materials recovered from spent LiFePO ₄ batteries. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125750	4.4	1
431	Architecture and performance of Si/C microspheres assembled by nano-Si via electro-spray technology as stability-enhanced anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163940	5.7	1
430	Highly stable 3D hierarchical manganese sulfide multi-layer nanoflakes with excellent electrochemical performances for supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162390	5.7	9
429	Creating anion defects on hollow Co _x Ni _{1-x} O concave with dual binding sites as high-efficiency sulfur reduction reaction catalyst. <i>Chemical Engineering Journal</i> , 2022 , 427, 132024	14.7	2
428	Molten salt synthesis of KCl-preintercalated CN nanosheets with abundant pyridinic-N as a superior anode with 10 ⁵ cycles in lithium ion battery. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 537-543	9.3	2
427	Flexible SnTe/carbon nanofiber membrane as a free-standing anode for high-performance lithium-ion and sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 231-240	9.3	6
426	In-situ synthesis of highly graphitized and Fe/N enriched carbon tubes as catalytic mediums for promoting multi-step conversion of lithium polysulfides. <i>Carbon</i> , 2022 , 192, 418-428	10.4	3
425	Si/C composite embedded nano-Si in 3D porous carbon matrix and enwound by conductive CNTs as anode of lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2022 , 32, e00410	5.3	1
424	Green preparation and supercapacitive behaviors of calcium carbide derived porous carbon based on solvent-free mechanochemical route. <i>Journal of Energy Storage</i> , 2022 , 51, 104473	7.8	0
423	A facile and high-effective oxygen defect engineering for improving electrochemical performance of lithium-rich manganese-based cathode materials. <i>Journal of Power Sources</i> , 2022 , 536, 231456	8.9	0
422	Boosting Electrochemical Performance of Lithium-Rich Manganese-Based Cathode Materials through a Dual Modification Strategy with Defect Designing and Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53974-53985	9.5	2
421	Atomically Dispersed and O, N-Coordinated Mn-Based Catalyst for Promoting the Conversion of Polysulfides in LiS-Based Li-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54113-54123	9.5	2
420	Design and Facile Synthesis of Highly Efficient and Durable Bifunctional Oxygen Electrocatalyst Fe-N/C Nanocages for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54032-54042	9.5	2
419	Efficient Mutual-Compensating Li-Loss Strategy toward Highly Conductive Garnet Ceramics for Li-Metal Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56054-56063	9.5	3
418	Unveiling the Role and Mechanism of Nb Doping and In Situ Carbon Coating on Improving Lithium-Ion Storage Characteristics of Rod-Like Morphology Fe ₃ O ₄ ·0.33H ₂ O. <i>Small</i> , 2021 , e2105193	11	1
417	Investigation of ZIF-derived Co, N co-doped porous carbon-supported Au nanoparticles as an effective catalyst for borohydride electrooxidation. <i>New Journal of Chemistry</i> , 2021 , 45, 21206-21214	3.6	0
416	Turning commercial MnO (85 wt%) into high-crystallized K-doped LiMnO cathode with superior structural stability by a low-temperature molten salt method. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1377-1383	9.3	0

415	Potassium storage mechanism of In ₂ S ₃ /C nanofibers as the anode for potassium ion batteries. <i>Electrochimica Acta</i> , 2021 , 400, 139461	6.7	3
414	Exploring the Efficient Na/K Storage Mechanism and Vacancy Defect-Boosted Li Diffusion Based on VSe/MoSe Heterostructure Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2072-2080	9.5	8
413	Titanium Glycolate Nanorods with Unsaturated Sites as Multifunctional Layers for Advanced Lithium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3670-3680	6.1	2
412	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4935-4944	6.1	2
411	Nanosilver-Promoted Trimetallic NiCoMn Perovskite Fluorides for Advanced Aqueous Supercapacitors with Pseudocapacitive Multielectrons Phase Conversion Mechanisms. <i>Advanced Functional Materials</i> , 2021 , 31, 2101353	15.6	11
410	Highly Effective Trapping-Conversion Interface Based on Nickel-Modified Versatile Carbon Skeleton Enabled High-Performance Li-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16374-16383	9.5	6
409	Suppressing the Voltage Decay Based on a Distinct Stacking Sequence of Oxygen Atoms for Li-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17639-17648	9.5	6
408	One-Step Synthesis of ZnNCN Nanoparticles with Adjustable Composition for an Advanced Anode in Lithium Ion Battery. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4290-4296	6.1	1
407	NiMoO ₄ Nanosheets Anchored on N/S Doped Carbon Clothes with Hierarchical Structure as a Bidirectional Catalyst toward Accelerating Polysulfides Conversion for Li/S Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2101285	15.6	28
406	Tailoring bulk Li ⁺ ion diffusion kinetics and surface lattice oxygen activity for high-performance lithium-rich manganese-based layered oxides. <i>Energy Storage Materials</i> , 2021 , 37, 509-520	19.4	26
405	Core-Shell Structure S@PPy/CB with High Electroconductibility to Effective Confinement Polysulfide Shuttle Effect for Advanced Lithium Sulfur Batteries. <i>Energy & Fuels</i> , 2021 , 35, 10181-10189	11.0	0
404	Rational Design and Performance of Anode Materials Based on Si/SiO _x /C Particles Anchored on Graphene Sheets. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4966-4975	6.1	6
403	Zn, Co, and Fe Tridoped N-C Core-Shell Nanocages as the High-Efficiency Oxygen Reduction Reaction Electrocatalyst in Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28324-28333	9.5	13
402	Porous nitrogen-doped Sn/C film as free-standing anodes for lithium ion batteries. <i>Applied Surface Science</i> , 2021 , 551, 149246	6.7	11
401	LiS In Situ Grown on Three-Dimensional Porous Carbon Architecture with Electron/Ion Channels and Dual Active Sites as Cathodes of Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32968-32977	9.5	4
400	Dual cationic modified high Ni-low co layered oxide cathode with a heteroepitaxial interface for high energy-density lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 416, 129118	14.7	15
399	Improved high-voltage performance of LiNi _{0.87} Co _{0.1} Al _{0.03} O ₂ by Li ⁺ -conductor coating. <i>Chemical Engineering Journal</i> , 2021 , 407, 126442	14.7	22
398	Semi-interpenetrating gel polymer electrolyte based on PVDF-HFP for lithium ion batteries. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49993	2.9	8

397	Highly Effective Direct Dehydrogenation of Propane to Propylene by Microwave Catalysis at Low Temperature over CoSn/NC Microwave Catalyst. <i>ChemCatChem</i> , 2021 , 13, 1009-1022	5.2	5
396	Hollow urchin-like Al-doped MnO ₂ as advanced sulfur host for high-performance lithium-sulfur batteries. <i>Materials Letters</i> , 2021 , 285, 129135	3.3	5
395	Yolk-shell P3-Type K _{0.5} [Mn _{0.85} Ni _{0.1} Co _{0.05}]O ₂ : A Low-Cost Cathode for Potassium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2021 ,	13	15
394	Highly N/O co-doped carbon nanospheres for symmetric supercapacitors application with high specific energy. <i>Journal of Energy Storage</i> , 2021 , 33, 102152	7.8	7
393	Insight into the performance of the mesoporous structure SiO _x nanoparticles anchored on carbon fibers as anode material of lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 880, 114798	4.1	8
392	Electrospun Na doped Li ₂ TiSiO ₅ /C nanofibers with outstanding lithium-storage performance. <i>Applied Surface Science</i> , 2021 , 541, 148388	6.7	4
391	Synthesis and electrochemical properties of P ₂ N _a _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ microspheres as cathode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 157768	5.7	4
390	Intercalation-type MoP and WP nanodots with abundant phase interface embedded in carbon microflower for enhanced Li storage and reaction kinetics. <i>Electrochimica Acta</i> , 2021 , 365, 137354	6.7	8
389	FeSe ₂ nanoparticle embedded in 3D honeycomb-like N-doped carbon architectures coupled with electrolytes engineering boost superior potassium ion storage. <i>Electrochimica Acta</i> , 2021 , 366, 137381	6.7	6
388	Carbon-supported Au-doped N-C-coated CoFe alloy nanocomposite electrocatalysts for BH ₄ ⁻ electrooxidation. <i>Ionics</i> , 2021 , 27, 1233-1241	2.7	
387	N-Doped carbon-coated Co ₂ P-supported Au nanocomposite as the anode catalyst for borohydride electrooxidation. <i>New Journal of Chemistry</i> , 2021 , 45, 14779-14788	3.6	0
386	Rapid preparation and performances of garnet electrolyte with sintering aids for solid-state LiS battery. <i>Ceramics International</i> , 2021 , 47, 18196-18204	5.1	10
385	Multiple Strategies toward Advanced P2-Type Layered Na _x MnO ₂ for Low-Cost Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8183-8192	6.1	5
384	Ionic conductivity and interfacial stability of Li ₆ PS ₅ Cl _{0.5} Li _{0.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ composite electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 2513	2.6	0
383	Structure Design and Performance of the Graphite/Silicon/Carbon Nanotubes/Carbon (GSCC) Composite as the Anode of a Li-Ion Battery. <i>Energy & Fuels</i> , 2021 , 35, 13491-13498	4.1	3
382	Improving the Cycling Stability of Li-Rich Mn-Based Cathodes through Surface Modification of VOPO ₄ . <i>Energy & Fuels</i> , 2021 , 35, 14148-14156	4.1	2
381	Fe, Co-bimetallic doped C ₃ N ₄ with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , 2021 , 873, 159883	5.7	8
380	Encapsulating Nanoscale Silicon inside Carbon Fiber as Flexible Self-Supporting Anode Material for Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8529-8537	6.1	4

379	Towards high-performance lithium-sulfur battery: Investigation on the capability of metalloid to regulate polysulfides. <i>Chemical Engineering Journal</i> , 2021 , 430, 132677	14.7	3
378	Preparation and Performance of Eu ³⁺ -Doped BaSnF ₄ -Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12978-12989	8.3	1
377	Facile Preparation and Performances of Ni, Co, and Al Layered Double Hydroxides for Application in High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9384-9392	6.1	4
376	Fully encapsulated Sb ₂ Se ₃ /Sb/C nanofibers: Towards high-rate, ultralong-lifespan lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159961	5.7	7
375	Double bond effects induced by iron selenide as immobilized homogenous catalyst for efficient polysulfides capture. <i>Chemical Engineering Journal</i> , 2021 , 421, 129770	14.7	6
374	Enhancing the electrochemical performances of Li ₂ S-based cathode through conductive interface design and addition of mixed conductive materials. <i>Electrochimica Acta</i> , 2021 , 396, 139238	6.7	1
373	A heterogeneous FeP-CoP electrocatalyst for expediting sulfur redox in high-specific-energy lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021 , 397, 139275	6.7	4
372	Multiple roles of titanium carbide in performance boosting: Mediator, anchor and electrocatalyst for polysulfides redox regulation. <i>Chemical Engineering Journal</i> , 2021 , 426, 130744	14.7	5
371	Catalytic-conversion behavior of MoS ₂ for polysulfides by nickel introduction and phosphorous-doping in advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 425, 131640	14.7	0
370	Engineering a TiNbO-Based Electrocatalyst on a Flexible Self-Supporting Sulfur Cathode for Promoting Li-S Battery Performance.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
369	Porous NiCoS Nanoneedle Arrays with Highly Efficient Electrocatalysis Anchored on Carbon Cloths as Self-Supported Hosts for High-Loading Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57975-57986	9.5	13
368	The preparation and performances of lithium sulfide (Li ₂ S)-oriented cathode composite via carbothermic reduction. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155421	5.7	5
367	Three-Dimensional Walnut-Like, Hierarchically Nanoporous Carbon Microspheres: One-Pot Synthesis, Activation, and Supercapacitive Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8024-8036	8.3	17
366	A freestanding metallic tin-modified and nitrogen-doped carbon skeleton as interlayer for lithium-sulfur battery. <i>Chemical Engineering Journal</i> , 2020 , 399, 125723	14.7	34
365	Carbon-supported Au modified N-doped carbon-coated FeMn alloy nanoparticle composites for BH ₄ ⁻ electrocatalytic oxidation. <i>New Journal of Chemistry</i> , 2020 , 44, 9870-9877	3.6	2
364	Electrochemical performance and structural stability of air-stable Na _{0.67} Ni _{0.33} Mn _{0.67-x} Ti _x O ₂ cathode materials for high-performance sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 399, 125725	14.7	14
363	Synthesis of SnS/C nanofibers membrane as self-standing anode for high-performance sodium-ion batteries by a smart process. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155899	5.7	21
362	Flower-like Bi ₄ Ti ₃ O ₁₂ /Carbon nanotubes as reservoir and promoter of polysulfide for lithium sulfur battery. <i>Journal of Power Sources</i> , 2020 , 453, 227896	8.9	26

361	High electrocatalytic activity of carbon-supported nickel hydroxide-doped platinum nanocatalysts for BH ₄ ⁻ electrooxidation. <i>Ionics</i> , 2020 , 26, 5133-5141	2.7	
360	Electrochemical Energy Storage Behavior of Na _{0.44} MnO ₂ in Aqueous Zinc-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	5
359	Preparation and Li/Na ion storage performance of raspberry-like hierarchical Fe ₃ O ₄ ·3.33H ₂ O micro-sized spheres with controllable morphology. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154215	5.7	5
358	Preparation and performances of the modified gel composite electrolyte for application of quasi-solid-state lithium sulfur battery. <i>Chemical Engineering Journal</i> , 2020 , 389, 124300	14.7	34
357	P-doped ternary transition metal oxide as electrode material of asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 28, 101248	7.8	17
356	Polyfurfuryl alcohol assisted synthesis of Na ₂ FePO ₄ F/C nanocomposites as cathode material of sodium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 867, 114187	4.1	3
355	Spherical Gr/Si/GO/C Composite as High-Performance Anode Material for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2020 , 34, 7639-7647	4.1	16
354	Controlled fabrication and performances of single-core/dual-shell hierarchical structure m-TNO@TiC@NC anode composite for lithium-ion batteries. <i>Electrochimica Acta</i> , 2020 , 341, 136072	6.7	6
353	Improving the Structure and Cycling Stability of Ni-Rich Layered Cathodes by Dual Modification of Yttrium Doping and Surface Coating. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19483-19494	9.5	44
352	N-Doped carbon-supported Au-modified NiFe alloy nanoparticle composite catalysts for BH ₄ ⁻ electrooxidation. <i>New Journal of Chemistry</i> , 2020 , 44, 6940-6946	3.6	3
351	Hierarchically structured spherical nickel cobalt layered double hydroxides particles grown on biomass porous carbon as an advanced electrode for high specific energy asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 30, 101454	7.8	19
350	Nd ³⁺ doped BaSnF ₄ solid electrolyte for advanced room-temperature solid-state fluoride ion batteries. <i>Ceramics International</i> , 2020 , 46, 20521-20528	5.1	5
349	Enhanced electrochemical behaviors of carbon felt electrode using redox-active electrolyte for all-solid-state supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 12-18	9.3	10
348	Boosting the charge transfer of LiTiSiO using nitrogen-doped carbon nanofibers: towards high-rate, long-life lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 19702-19710	7.7	4
347	Rapid sintering method for highly conductive Li ₇ La ₃ Zr ₂ O ₁₂ ceramic electrolyte. <i>Ceramics International</i> , 2020 , 46, 10917-10924	5.1	71
346	Kinetically elevated redox conversion of polysulfides of lithium-sulfur battery using a separator modified with transition metals coordinated g-C ₃ N ₄ with carbon-conjugated. <i>Chemical Engineering Journal</i> , 2020 , 385, 123905	14.7	43
345	Porous silicon/graphene/carbon composite as high performance anode material for lithium ion batteries. <i>Journal of Energy Storage</i> , 2020 , 27, 101075	7.8	17
344	Preparation and application of poly(ethylene oxide)-based all solid-state electrolyte with a walnut-like SiO ₂ as nano-fillers. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48810	2.9	12

- 343 SnF₂-based fluoride ion electrolytes MSnF₄ (M = Ba, Pb) for the application of room-temperature solid-state fluoride ion batteries. *Journal of Alloys and Compounds*, **2020**, 819, 152983 5.7 13
- 342 Multifunctional reaction interfaces for capture and boost conversion of polysulfide in lithium-sulfur batteries. *Electrochimica Acta*, **2020**, 334, 135658 6.7 14
- 341 Electrospun SnSe/C nanofibers as binder-free anode for lithium-ion and sodium-ion batteries. *Journal of Power Sources*, **2020**, 449, 227559 8.9 48
- 340 TiNb₂O₇ nano-particle decorated carbon cloth as flexible self-support anode material in lithium-ion batteries. *Electrochimica Acta*, **2020**, 332, 135469 6.7 22
- 339 Lithium Sulfide-Embedded Three-Dimensional Heterogeneous Micro-/Mesoporous Interwoven Carbon Architecture as the Cathode of Lithium-Sulfur Batteries. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 351-361 8.3 8
- 338 LiMnPO₄ nanoplates with optimal crystal orientation in situ anchored on the expanded graphite for high-rate and long-life lithium ion batteries. *Electrochimica Acta*, **2020**, 359, 136945 6.7 7
- 337 Polyaniline-Derived Carbon Heterostructure as Redox Mediator of Li₂S Oxidation and Polysulfide Immobilizer for High-Performance Lithium-Sulfur Cathode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 16659-16670 8.3 5
- 336 Carbon supported Pd nanoparticles electrocatalysts for efficient borohydride electrooxidation. *New Journal of Chemistry*, **2020**, 44, 13472-13479 3.6 1
- 335 Superior Na-Storage Properties of Nickel-Substituted NaFeSiO₄@C Microspheres Encapsulated with the -Synthesized Alveolation-like Carbon Matrix. *ACS Applied Materials & Interfaces*, **2020**, 12, 34858-34872 9.5 23
- 334 Development of core-shell structured Mo₂C@BN as novel microwave catalysts for highly effective direct decomposition of H₂S into H₂ and S at low temperature. *Catalysis Science and Technology*, **2020**, 10, 6769-6779 5.5 4
- 333 Enhanced cycling stability of nickel-rich layered oxide by tantalum doping. *Journal of Power Sources*, **2020**, 473, 228597 8.9 29
- 332 Suppressing H₂Ni₃ phase transition in high Ni_{1-x}Co layered oxide cathode material by dual modification. *Journal of Materials Chemistry A*, **2020**, 8, 21306-21316 13 46
- 331 The electrochemical storage mechanism of an InS/C nanofiber anode for high-performance Li-ion and Na-ion batteries. *Nanoscale*, **2020**, 12, 20337-20346 7.7 12
- 330 Band-Gap Engineering of FeF₃·0.33H₂O Nanosphere via Ni Doping as a High-Performance Lithium-Ion Battery Cathode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15651-15660 8.3 10
- 329 Electrospun Ta-doped TiO₂/C nanofibers as a high-capacity and long-cycling anode material for Li-ion and K-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 20666-20676 13 24
- 328 The effects of dual modification on structure and performance of P2-type layered oxide cathode for sodium-ion batteries. *Chemical Engineering Journal*, **2020**, 384, 123234 14.7 20
- 327 Synergetic restriction to polysulfides by hollow FePO₄ nanospheres wrapped by reduced graphene oxide for lithium-sulfur battery. *Electrochimica Acta*, **2020**, 329, 135135 6.7 19
- 326 Free-standing ternary metallic sulphides/Ni/C-nanofiber anodes for high-performance lithium-ion capacitors. *Journal of Energy Chemistry*, **2020**, 42, 108-115 12 27

325	AlPO ₄ -coated P2-type hexagonal Na _{0.7} MnO _{2.05} as high stability cathode for sodium ion battery. <i>Chemical Engineering Journal</i> , 2020 , 382, 122697	14.7	10
324	Flower-like ZnO modified with BiOI nanoparticles as adsorption/catalytic bifunctional hosts for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020 , 51, 21-29	12	18
323	In situ self-assembly of SiO ₂ coating Co ₃ O ₄ /graphene aerogel and its enhanced electrochemical performance for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17218-17226	7.1	2
322	Internal in situ gel polymer electrolytes for high-performance quasi-solid-state lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 2785-2792	2.6	8
321	A flexible tysonite-type La _{0.95} Ba _{0.05} F _{2.95} @PEO-based composite electrolyte for the application of advanced fluoride ion battery. <i>Journal of Energy Storage</i> , 2019 , 25, 100886	7.8	9
320	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40022-40033	9.5	51
319	Modified Chestnut-Like Structure Silicon Carbon Composite as Anode Material for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10415-10424	8.3	51
318	Carbon-supported Ni(OH) ₂ nanospheres decorated with Au nanoparticles: a promising catalyst for BH ₄ ⁻ electrooxidation. <i>Ionics</i> , 2019 , 25, 5153-5161	2.7	1
317	Sb ₂ S ₃ embedded in carbon-silicon oxide nanofibers as high-performance anode materials for lithium-ion and sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226762	8.9	46
316	Architecture and Performance of the Novel Sulfur Host Material Based on TiO Microspheres for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22439-22448	9.5	45
315	A high-performance gel polymer electrolyte based on poly(vinylidene fluoride)/thermoplastic polyurethane/poly(propylene carbonate) for lithium-ion batteries. <i>Journal of Chemical Sciences</i> , 2019 , 131, 1	1.8	8
314	Improved cycle and air stability of P3-Na _{0.65} Mn _{0.75} Ni _{0.25} O ₂ electrode for sodium-ion batteries coated with metal phosphates. <i>Chemical Engineering Journal</i> , 2019 , 372, 1066-1076	14.7	31
313	Preparation and performances of novel Na ₂ FeSiO ₄ /C composite with more stable polymorph as cathode material of sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 430, 120-129	8.9	13
312	A tin disulfide nanosheet wrapped with interconnected carbon nanotube networks for application of lithium sulfur batteries. <i>Electrochimica Acta</i> , 2019 , 313, 151-160	6.7	26
311	Gel electrolytes based on polyacrylonitrile/thermoplastic polyurethane/polystyrene for lithium-ion batteries. <i>Ionics</i> , 2019 , 25, 3673-3682	2.7	14
310	Atomically tailoring vacancy defects in Fe _{2.2} (OH) _{0.8} toward ultra-high rate and long-life Li/Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14180-14191	13	1
309	Atomic-Scale Dynamics and Storage Performance of Na/K on FeF Nanosheet. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17425-17434	9.5	5
308	Improvement of the Cycling Stability of Li-Rich Layered Mn-Based Oxide Cathodes Modified by Nanoscale LaPO ₄ Coating. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3532-3541	6.1	34

307	Carbon-supported Pd-Co nanocatalyst as highly active anodic electrocatalyst for direct borohydride/hydrogen peroxide fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1739-1748	2.6	6
306	Heterogeneous dual-wrapped architecture of hollow SiO _x /MoS ₂ -CNTs nanohybrids as anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 842, 50-58	4.1	10
305	Carbon-supported Co(OH) ₂ coated with Au nanoparticle composites as an efficient catalyst for BH ₄ ⁻ electrooxidation. <i>New Journal of Chemistry</i> , 2019 , 43, 7694-7700	3.6	0
304	High-performance P2-Type Fe/Mn-based oxide cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 312, 45-53	6.7	18
303	Bowl-like double carbon layer architecture of hollow carbon@FePO ₄ @reduced graphene oxide composite as high-performance cathodes for sodium and lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 34-44	5.7	14
302	Preparation and Performance of the Heterostructured Material with a Ni-Rich Layered Oxide Core and a LiNiMnO-like Spinel Shell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16556-16566	9.5	20
301	Perovskite-type La _{0.56} Li _{0.33} TiO ₃ as an effective polysulfide promoter for stable lithium-sulfur batteries in lean electrolyte conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10293-10302	13	35
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299	Honeycomb-like nitrogen and sulfur dual-doped hierarchical porous biomass carbon bifunctional interlayer for advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2019 , 355, 478-486	14.7	83
298	Free-standing SnS/C nanofiber anodes for ultralong cycle-life lithium-ion batteries and sodium-ion batteries. <i>Energy Storage Materials</i> , 2019 , 17, 1-11	19.4	136
297	Studies on the Kinetic Behaviors of Na Ions Insertion/Extraction in NaFeSiO/C Cathode Material at Various Desodiation States. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31980-31990	9.5	13
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294	Na ₂ FePO ₄ F/C composite synthesized via a simple solid state route for lithium-ion batteries. <i>Journal of Central South University</i> , 2019 , 26, 1521-1529	2.1	2
293	Mesoporous aluminium manganese cobalt oxide with pentahedron structures for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18417-18427	13	36
292	Development of MgCo ₂ O ₄ /BaCO ₃ composites as microwave catalysts for the highly effective direct decomposition of NO under excess O ₂ at a low temperature. <i>Catalysis Science and Technology</i> , 2019 , 9, 4276-4285	5.5	8
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290	Multiple regulation of surface engineering for lithium-rich layered cathode materials via one-step strategy. <i>Electrochimica Acta</i> , 2019 , 325, 134951	6.7	5

289	Carbon-Coated Yttria Hollow Spheres as Both Sulfur Immobilizer and Catalyst of Polysulfides Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42104-42113	9.5	32
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287	TiO ₂ -Sn/C composite nanofibers with high-capacity and long-cycle life as anode materials for sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 314-323	5.7	21
286	Core-shell structured MoS ₂ @Mesoporous hollow carbon spheres nanocomposite for supercapacitors applications with enhanced capacitance and energy density. <i>Electrochimica Acta</i> , 2019 , 298, 630-639	6.7	33
285	Tin disulfide embedded in N-, S-doped carbon nanofibers as anode material for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 359, 1244-1251	14.7	70
284	Preparation and performance of poly(ethylene oxide)-based composite solid electrolyte for all solid-state lithium batteries. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47498	2.9	20
283	Improving Electrochemical Performances of Li-Rich Layered Mn-Based Oxide Cathodes through K ₂ Cr ₂ O ₇ Solution Treatment. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1563-1571	6.1	11
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279	Suppressing the Polysulfide Shuttle Effect by Heteroatom-Doping for High-Performance Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7545-7557	8.3	46
278	Synergetic Effects of Multifunctional Composites with More Efficient Polysulfide Immobilization and Ultrahigh Sulfur Content in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13562-13572	9.5	36
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275	Atomistic Insights into FeF Nanosheet: An Ultrahigh-Rate and Long-Life Cathode Material for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3142-3151	9.5	8
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273	Nitrogen-doped activated microporous carbon spheres as a sulfur matrix for advanced lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 687-694	5.7	27
272	Graphene-embedded LiMn _{0.8} Fe _{0.2} PO ₄ composites with promoted electrochemical performance for lithium ion batteries. <i>Electrochimica Acta</i> , 2018 , 276, 134-141	6.7	13

271	Construction and characterizations of hollow carbon microsphere@polypyrrole composite for the high performance supercapacitor. <i>Journal of Energy Storage</i> , 2018 , 18, 62-71	7.8	14
270	Effects of Nanofiber Architecture and Antimony Doping on the Performance of Lithium-Rich Layered Oxides: Enhancing Lithium Diffusivity and Lattice Oxygen Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16561-16571	9.5	51
269	Mesoporous LiTi ₂ (PO ₄) ₃ /C composite with trace amount of carbon as high-performance electrode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 1019-1027	5.7	7
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267	Revealing the doping mechanism and effect of cobalt on the HTB-type iron fluoride: A first-principle study. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 123, 87-96	3.9	5
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262	Spherical FeF ₃ ·0.33H ₂ O/MWCNTs nanocomposite with mesoporous structure as cathode material of sodium ion battery. <i>Journal of Energy Chemistry</i> , 2018 , 27, 573-581	12	19
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252	Hollow porous Fe ₃ O ₄ ·3.33H ₂ O microspheres by AlPO ₄ coating as a cathode material of Na-ion batteries. <i>Journal of Energy Storage</i> , 2018 , 18, 103-111	7.8	11
251	Carbon-Supported Bimetallic Platinum-Iron Nanocatalysts: Application in Direct Borohydride/Hydrogen Peroxide Fuel Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8142-8149	8.3	17
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233	The effects of morphology and size on performances of Li ₂ FeSiO ₄ /C cathode materials. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 683-690	5.7	17
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231	Industrial waste silica preparation of silicon carbide composites and their applications in lithium-ion battery anode. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 100-105	5.7	23
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221	Synthesis of Nitrogen and Sulfur Co-Doped Carbon Derived from Chromium Carbide for the High Performance Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2991-A2998	3.9	27
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218	Facile solvothermal synthesis of NaTi ₂ (PO ₄) ₃ /C porous plates as electrode materials for high-performance sodium ion batteries. <i>Journal of Power Sources</i> , 2016 , 325, 474-481	8.9	33

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215	The control and performance of Li ₄ Mn ₅ O ₁₂ and Li ₂ MnO ₃ phase ratios in the lithium-rich cathode materials. <i>Electrochimica Acta</i> , 2016 , 190, 1142-1149	6.7	11
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212	A facile synthesis of Fe ₃ O ₄ nanoparticles/graphene for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 16624-16633	3.7	61
211	Preparation and supercapacitive performance of nanosized manganese dioxide/ordered mesoporous carbon composites. <i>Electrochimica Acta</i> , 2016 , 192, 234-242	6.7	31
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208	First-principles study on doping effect of Sn in BiF ₃ as cathode materials for Li-ion battery. <i>Current Applied Physics</i> , 2016 , 16, 12-19	2.6	1
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205	In situ growth and performance of spherical Fe ₂ F ₅ ·H ₂ O nanoparticles in multi-walled carbon nanotube network matrix as cathode material for sodium ion batteries. <i>Journal of Power Sources</i> , 2016 , 316, 170-175	8.9	17
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196	A reversible conversion and intercalation reaction material for Li ion battery cathode. <i>Materials Letters</i> , 2016 , 180, 260-263	3.3	7
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194	Nitrogen-doped hierarchical porous carbon for supercapacitor with well electrochemical performances. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1591-1597	2.6	22
193	Dependence of structure and temperature for lithium-rich layered-spinel microspheres cathode material of lithium ion batteries. <i>Scientific Reports</i> , 2015 , 5, 8403	4.9	33
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191	Surface Modification and Performance Enhancement of Carbon Derived from Chromium Carbide for Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A845-A851	3.9	14
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188	First-principles investigation on structural and electrochemical properties of NaCoO ₂ for rechargeable Na-ion batteries. <i>Journal of Central South University</i> , 2015 , 22, 2036-2042	2.1	3
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184	The electrochemical performance and mechanism of cobalt (II) fluoride as anode material for lithium and sodium ion batteries. <i>Electrochimica Acta</i> , 2015 , 168, 225-233	6.7	42
183	Preparation and performance of tubular nanoflaky (Ni, Co, Mn) oxides with hierarchical mesoporous structure. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 352-358	5.7	20
182	Investigation of nanoporous carbon supported palladium-zinc nanocomposites as anode catalysts for direct borohydride-hydrogen peroxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7301-7307	6.7	18

181	Nanoporous carbon supported platinum-copper nanocomposites as anode catalysts for direct borohydride-hydrogen peroxide fuel cell. <i>Electrochimica Acta</i> , 2015 , 171, 96-104	6.7	22
180	Li fast ion conductive La _{0.56} Li _{0.33} TiO ₃ inlaid LiFePO ₄ /C microspheres with enhanced high-rate performance as cathode materials. <i>Electrochimica Acta</i> , 2015 , 152, 368-377	6.7	21
179	Solvothermal synthesis of monodisperse micro-nanostructure starfish-like porous LiFePO ₄ as cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015 , 652, 213-219	5.7	20
178	New iron-based fluoride cathode material synthesized by non-aqueous ionic liquid for rechargeable sodium ion batteries. <i>Electrochimica Acta</i> , 2015 , 186, 7-15	6.7	27
177	Synthesis of Polyaniline-Coated Ordered Mesoporous Carbon Composite Electrode Material for Supercapacitor and Its Enhanced Electrochemical Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4961-8	1.3	5
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175	Facile preparation and performance of hierarchical self-assembly MnCo ₂ O ₄ nanoflakes as anode active material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015 , 180, 866-872	6.7	37
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173	A tightly integrated sodium titanate-carbon composite as an anode material for rechargeable sodium ion batteries. <i>Journal of Power Sources</i> , 2015 , 274, 8-14	8.9	83
172	First-principles investigation on crystal, electronic structures and Diffusion barriers of NaNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ for advanced rechargeable Na-ion batteries. <i>Computational Materials Science</i> , 2015 , 98, 304-310	3.2	32
171	Synthesis of nanosheets-assembled lithium titanate hollow microspheres and their application to lithium ion battery anodes. <i>Electrochimica Acta</i> , 2015 , 151, 502-509	6.7	23
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169	Design and Preparation of a Lithium-rich Layered Oxide Cathode with a Mg-Concentration-Gradient Shell for Improved Rate Capability. <i>ChemElectroChem</i> , 2015 , 2, 1346-1354	4.3	15
168	Sheet-like structure FeF ₃ /graphene composite as novel cathode material for Na ion batteries. <i>RSC Advances</i> , 2015 , 5, 38277-38282	3.7	45
167	Design, preparation and performance of novel three-dimensional hierarchically porous carbon for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 173, 566-574	6.7	41
166	Porous hollow Fe ₂ O ₃ @TiO ₂ core-shell nanospheres for superior lithium/sodium storage capability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13807-13818	1.3	80
165	Polyaniline modification and performance enhancement of lithium-rich cathode material based on layered-spinel hybrid structure. <i>Journal of Power Sources</i> , 2015 , 293, 89-94	8.9	39
164	Design and synthesis of three-dimensional hierarchical ordered porous carbons for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 154, 110-118	6.7	64

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162	Improved electrochemical performance of the spherical LiNi _{0.5} Mn _{1.5} O ₄ particles modified by nano-Y ₂ O ₃ coating. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1235-1246	2.6	20
161	Synthesis and supercapacitive performance of three-dimensional cubic-ordered mesoporous carbons. <i>Electrochimica Acta</i> , 2015 , 163, 223-231	6.7	22
160	Design and preparation of spherical high voltage LiNi _{0.5} Mn _{1.5} O ₄ with a novel concentration-gradient shell for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 281, 85-93	8.9	22
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156	Improvement of electrochemical performance for Li-rich spherical Li _{1.3} [Ni _{0.35} Mn _{0.65}]O _{2+x} modified by Al ₂ O ₃ . <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1789-1797	2.6	32
155	Synthesis and electrochemical performance of LiV ₃ O ₈ /polythiophene composite as cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 247, 117-126	8.9	41
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150	Nanoflaky MnO ₂ grown in situ on carbon microbeads as an anode material for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 22241-22245	3.7	8
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141	Supercapacitive performance of hierarchical porous carbon microspheres prepared by simple one-pot method. <i>Journal of Power Sources</i> , 2014 , 254, 10-17	8.9	62
140	One-pot synthesis of FCNTs-wired TiO ₂ nanocomposites as anode materials for high-rate lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 123, 551-559	6.7	20
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138	Study of a novel porous gel polymer electrolyte based on thermoplastic polyurethane/poly(vinylidene fluoride-co-hexafluoropropylene) by electrospinning technique. <i>Journal of Power Sources</i> , 2014 , 263, 118-124	8.9	55
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134	Dual template method to prepare hierarchical porous carbon nanofibers for high-power supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2731-2739	2.6	20
133	Improved electrochemical properties of BiF ₃ /C cathode via adding amorphous AlPO ₄ for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 102, 8-18	6.7	28
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25	Synthesis of nanostructured carbon by chlorination of calcium carbide at moderate temperatures and its performance evaluation. <i>Materials Chemistry and Physics</i> , 2008 , 112, 461-465	4.4	29
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