

Zhaoping Liu

List of Publications by Year in descending order

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10,986
citations

31976

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96
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all docs

220
docs citations

220
times ranked

12472
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithium/Graphene Composite Anode with 3D Structural LiF Protection Layer for High-Performance Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 2871-2880.	8.0	22
2	CO ₂ treatment enables non-hazardous, reliable, and efficacious recovery of spent Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ cathodes. Green Chemistry, 2022, 24, 779-789.	9.0	22
3	Ultrafine SnO ₂ /Sn Nanoparticles Embedded into an <i>In Situ</i> Generated Meso-/Macroporous Carbon Matrix with a Tunable Pore Size. Langmuir, 2022, 38, 1689-1697.	3.5	2
4	Understanding the steric effect of graphene in graphene wrapped silicon suboxides anodes for Li-ion batteries. Journal of Power Sources, 2022, 522, 231007.	7.8	3
5	Controls of oxygen-partial pressure to accelerate the electrochemical activation in Co-free Li-rich layered oxide cathodes. Journal of Power Sources, 2022, 523, 231022.	7.8	14
6	Less is more: tiny amounts of insoluble multi-functional nanoporous additives play a big role in lithium secondary batteries. Journal of Materials Chemistry A, 2022, 10, 8047-8058.	10.3	5
7	A chemical lithiation induced Li _{4.4} Sn lithiophilic layer for anode-free lithium metal batteries. Journal of Materials Chemistry A, 2022, 10, 9670-9679.	10.3	20
8	A Lithium-Ion Battery Cathode with Enhanced Wettability toward an Electrolyte Fabricated by a Fast Light Curing of Photoactive Slurry. Energy & Fuels, 2022, 36, 3313-3318.	5.1	4
9	One Stone for Multiple Birds: A Versatile Cross-Linked Poly(dimethyl siloxane) Binder Boosts Cycling Life and Rate Capability of an NCM 523 Cathode at 4.6 V. ACS Applied Materials & Interfaces, 2022, 14, 16245-16257.	8.0	10
10	Direct Regeneration of Spent Lithium Iron Phosphate via a Low-Temperature Molten Salt Process Coupled with a Reductive Environment. Industrial & Engineering Chemistry Research, 2022, 61, 3831-3839.	3.7	31
11	Mg ₂ SiO ₄ /Si-Coated Disproportionated SiO Composite Anodes with High Initial Coulombic Efficiency for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 15337-15345.	8.0	18
12	Seamlessly integrated alloy-polymer interphase for high-rate and long-life lithium metal anodes. Materials Today Energy, 2022, 26, 100988.	4.7	5
13	Relating the orientation of graphene on Cu grains by Euler Angles. Surfaces and Interfaces, 2022, 30, 101837.	3.0	1
14	Bronze-Phase TiO ₂ as Anode Materials in Lithium and Sodium-Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	53
15	A _x M _y V ₂ O ₅ with Binary Phases as High-Performance Cathode Materials for Zinc-Ion Batteries: Effect of the Pre-Intercalated Cations A and Reversible Transformation of Coordination Polyhedra. ACS Applied Materials & Interfaces, 2022, 14, 24415-24424.	8.0	13
16	Carbon-coated monoclinic NbOPO ₄ with polyanionic framework for rechargeable aqueous lithium-ion batteries beyond 2 V. Electrochimica Acta, 2022, 426, 140579.	5.2	2
17	Highly Deformable Graphene/Poly(3,4-ethylenedioxythiophene):Poly(styrene Sulfonate) Hydrogel Composite Film for Stretchable Supercapacitors. ACS Applied Energy Materials, 2022, 5, 7277-7286.	5.1	13
18	Direct Recycling of Spent LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathodes Based on Single Oxalic Acid Leaching and Regeneration under Mild Conditions Assisted by Lithium Acetate. Energy & Fuels, 2022, 36, 6552-6559.	5.1	9

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19	<i>In Situ</i> Synthesis and Dual Functionalization of Nano Silicon Enabled by a Semisolid Lithium Rechargeable Flow Battery. ACS Applied Materials & Interfaces, 2022, 14, 28748-28759.	8.0	3
20	Synergistic Effects of Ni ²⁺ and Mn ³⁺ on the Electrochemical Activation of Li ₂ MnO ₃ in Co-Free and Ni-Poor Li-Rich Layered Cathodes. ACS Applied Energy Materials, 2022, 5, 9079-9089.	5.1	7
21	Graphene wrapped silicon suboxides anodes with suppressed Li-uptake behavior enabled superior cycling stability. Energy Storage Materials, 2021, 35, 317-326.	18.0	58
22	Graphene Modified Polyaniline-Hydrogel Based Stretchable Supercapacitor with High Capacitance and Excellent Stretching Stability. ChemSusChem, 2021, 14, 938-945.	6.8	33
23	High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. Matter, 2021, 4, 164-181.	10.0	15
24	Competitive Solvation-Induced Concurrent Protection on the Anode and Cathode toward a 400 Wh kg ⁻¹ Lithium Metal Battery. ACS Energy Letters, 2021, 6, 115-123.	17.4	53
25	Impact of CO ₂ activation on the structure, composition, and performance of Sb/C nanohybrid lithium/sodium-ion battery anodes. Nanoscale Advances, 2021, 3, 1942-1953.	4.6	9
26	SnO ₂ /Sn/Carbon nanohybrid lithium-ion battery anode with high reversible capacity and excellent cyclic stability. Nano Select, 2021, 2, 642-653.	3.7	10
27	All annealing-free solution-processed highly flexible organic solar cells. Journal of Materials Chemistry A, 2021, 9, 5425-5433.	10.3	30
28	From ~20 °C to 150 °C: a lithium secondary battery with a wide temperature window obtained <i>via</i> manipulated competitive decomposition in electrolyte solution. Journal of Materials Chemistry A, 2021, 9, 9307-9318.	10.3	40
29	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. Nano-Micro Letters, 2021, 13, 44.	27.0	71
30	Mutual Performance Enhancement within Dual N-doped TiO ₂ /Si/C Nanohybrid Lithium-ion Battery Anode. ChemistrySelect, 2021, 6, 141-153.	1.5	5
31	Porous silicon derived from 130-nm Stober silica as lithium-ion battery anode. Nano Select, 2021, 2, 1554-1565.	3.7	0
32	Super-small TiO ₂ Nanoparticles Homogeneously Embedded in Mesoporous Carbon Matrix Based on Dental Methacrylates and KOH Activation. ChemistrySelect, 2021, 6, 1508-1518.	1.5	0
33	Continuous fast pyrolysis synthesis of TiO ₂ /C nanohybrid lithium-ion battery anode. Nano Select, 2021, 2, 1770-1778.	3.7	1
34	Sufficient Oxygen Redox Activation against Voltage Decay in Li-Rich Layered Oxide Cathode Materials. , 2021, 3, 433-441.		11
35	Synergistic Effect of Lewis Base Polymers and Graphene in Enhancing the Efficiency of Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 3928-3936.	5.1	25
36	Si/Cu/C Nanohybrid Lithium-Ion Battery Anode with <i>in Situ</i> Incorporation of Nonagglomerated Super-Small Copper Nanoparticles Based on Epoxy Resin. Energy & Fuels, 2021, 35, 6250-6264.	5.1	5

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37	Sulfur is a New High-Performance Additive toward High-Voltage LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode: Tiny Amount, Huge Impact. ACS Applied Materials & Interfaces, 2021, 13, 18648-18657.	8.0	17
38	Revealing Anion Adsorption Mechanism for Coating Layer on Separator toward Practical Li Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 23584-23591.	8.0	14
39	High Li-Ion Conductivity Artificial Interface Enabled by Li-Grafted Graphene Oxide for Stable Li Metal Pouch Cell. ACS Applied Materials & Interfaces, 2021, 13, 29500-29510.	8.0	3
40	Organosilicon-Based Functional Electrolytes for High-Performance Lithium Batteries. Advanced Energy Materials, 2021, 11, 2101057.	19.5	26
41	Conformal Coating of a Carbon Film on 3D Hosts toward Stable Lithium Anodes. ACS Applied Energy Materials, 2021, 4, 7288-7297.	5.1	7
42	Nano-channel-based physical and chemical synergic regulation for dendrite-free lithium plating. Nano Research, 2021, 14, 3585-3597.	10.4	17
43	Surface reinforcement doping to suppress oxygen release of Li-rich layered oxides. Journal of Power Sources, 2021, 503, 230048.	7.8	20
44	Growth of wrinkle-free and ultra-flat Bi-layer graphene on sapphire substrate using Cu sacrificial layer. Nanotechnology, 2021, 32, 475603.	2.6	2
45	Ultra-smooth and robust graphene-based hybrid anode for high-performance flexible organic light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 2106-2114.	5.5	12
46	A facile method of selective dissolution for preparation of Co ₃ O ₄ /LaCoO ₃ as a bifunctional catalyst for Al/Zn-air batteries. Sustainable Energy and Fuels, 2021, 5, 995-1002.	4.9	9
47	A composite surface configuration towards improving cycling stability of Li-rich layered oxide materials. Journal of Materials Chemistry A, 2021, 9, 24426-24437.	10.3	17
48	Laser-induced dynamic alignment and nonlinear-like optical transmission in liquid suspensions of 2D atomically thin nanomaterials. Optics Express, 2021, 29, 36389.	3.4	2
49	Si/SiOC/Carbon Lithium-Ion Battery Negative Electrode with Multiple Buffer Media Derived from Cross-Linked Dimethacrylate and Poly (dimethyl siloxane). ChemistrySelect, 2021, 6, 10348-10354.	1.5	1
50	Carbon-emcoating architecture boosts lithium storage of Nb ₂ O ₅ . Science China Materials, 2021, 64, 1071-1086.	6.3	7
51	Scalable fabrication of a large-area lithium/graphene anode towards a long-life 350 W h kg ⁻¹ lithium metal pouch cell. Journal of Materials Chemistry A, 2021, 9, 25558-25566.	10.3	14
52	Thermosetting High-Rate and High-Safety Polymer/Inorganic Composite Separator for Lithium-Ion Battery through a Fast Scalable Photo Cross-Linking Process. Energy & Fuels, 2021, 35, 18746-18755.	5.1	4
53	Stable Electrode/Electrolyte Interface for High-Voltage NCM 523 Cathode Constructed by Synergistic Positive and Passive Approaches. ACS Applied Materials & Interfaces, 2021, 13, 57107-57117.	8.0	23
54	Flexible asymmetric microsupercapacitor with high energy density based on all-graphene electrode system. Journal of Materials Science, 2020, 55, 309-318.	3.7	15

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55	Improving catalytic activity of layered lithium transition metal oxides for oxygen electrode in metal-air batteries. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1846-1856.	7.1	16
56	All graphene electrode for high-performance asymmetric supercapacitor. <i>International Journal of Energy Research</i> , 2020, 44, 1244-1255.	4.5	19
57	Morphology-controlled MoS ₂ by low-temperature atomic layer deposition. <i>Nanoscale</i> , 2020, 12, 20404-20412.	5.6	14
58	Rational Design and Mechanical Understanding of Three-Dimensional Macro-/Mesoporous Silicon Lithium-Ion Battery Anodes with a Tunable Pore Size and Wall Thickness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43785-43797.	8.0	24
59	Epoxy Resin Enables Facile Scalable Synthesis of CuO/C Nanohybrid Lithium-Ion Battery Anode with Enhanced Electrochemical Performance. <i>ChemistrySelect</i> , 2020, 5, 5479-5487.	1.5	2
60	A Chronicle Review of Nonsilicon (Sn, Sb, Ge)-Based Lithium/Sodium-Ion Battery Alloying Anodes. <i>Small Methods</i> , 2020, 4, 2000218.	8.6	220
61	Ultrasmall Co ₃ O ₄ Nanoparticles Confined in P, N-Doped Carbon Matrices for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9225-9232.	3.1	25
62	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100028.	5.6	37
63	Photoacoustic identification of laser-induced microbubbles as light scattering centers for optical limiting in a liquid suspension of graphene nanosheets. <i>Nanoscale</i> , 2020, 12, 7109-7115.	5.6	11
64	Poly(siloxane imide) Binder for Silicon-Based Lithium-Ion Battery Anodes via Rigidity/Softness Coupling. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2674-2680.	3.3	17
65	Slurry-like hybrid electrolyte with high lithium-ion transference number for dendrite-free lithium metal anode. <i>Journal of Energy Chemistry</i> , 2020, 48, 375-382.	12.9	23
66	Microporous Binder for the Silicon-Based Lithium-Ion Battery Anode with Exceptional Rate Capability and Improved Cyclic Performance. <i>Langmuir</i> , 2020, 36, 2003-2011.	3.5	22
67	Iron Hexacyanoferrate Nanocubes as Low-Strain Cathode Materials for Aqueous Li/Na Mixed-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2020, 3, 1318-1323.	5.0	5
68	Vacuum-Free, All-Solution, and All-Air Processed Organic Photovoltaics with over 11% Efficiency and Promoted Stability Using Layer-by-Layer Codoped Polymeric Electrodes. <i>Solar Rrl</i> , 2020, 4, 1900543.	5.8	19
69	In Situ Incorporation of Super-Small Metallic High Capacity Nanoparticles and Mesoporous Structures for High-Performance TiO ₂ /SnO ₂ /Sn/Carbon Nanohybrid Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2020, 8, 2000034.	3.8	4
70	Unveiling the Effect of Surface and Bulk Structure on Electrochemical Properties of Disproportionated SiO _x Anodes. <i>ChemNanoMat</i> , 2020, 6, 1127-1135.	2.8	10
71	Large graphene-induced shift of surface-plasmon resonances of gold films: Effective-medium theory for atomically thin materials. <i>Physical Review Research</i> , 2020, 2, .	3.6	4
72	Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. <i>Energy Storage Materials</i> , 2019, 16, 220-227.	18.0	144

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73	Dental Resin Monomer Enables Unique NbO ₂ /Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1904961.	14.9	26
74	Polyethylene Glycol- ⁺ Na ⁺ Interface of Vanadium Hexacyanoferrate Cathode for Highly Stable Rechargeable Aqueous Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28762-28768.	8.0	41
75	Enhanced Bifunctional Catalytic Activity of Manganese Oxide/Perovskite Hierarchical Core-Shell Materials by Adjusting the Interface for Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25870-25881.	8.0	59
76	Facile synthesis of ternary spinel Co-Mn-Ni nanorods as efficient bi-functional oxygen catalysts for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2019, 435, 226761.	7.8	42
77	Na Superionic Conductor-Type TiNb(PO ₄) ₃ Anode with High Energy Density and Long Cycle Life Enables Aqueous Alkaline-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39757-39764.	8.0	7
78	Confining Al-Li alloys between pre-constructed conductive buffers for advanced aluminum anodes. <i>Chemical Communications</i> , 2019, 55, 2352-2355.	4.1	6
79	Methylsulfonylmethane-Based Deep Eutectic Solvent as a New Type of Green Electrolyte for a High-Energy-Density Aqueous Lithium-Ion Battery. <i>ACS Energy Letters</i> , 2019, 4, 1419-1426.	17.4	87
80	Niobium carbide/reduced graphene oxide hybrid porous aerogel as high capacity and long-life anode material for Li-ion batteries. <i>International Journal of Energy Research</i> , 2019, 43, 4995-5003.	4.5	40
81	Physicochemical and Electrochemical Properties of 1,1,2,2-Tetrafluoroethyl-2,3,3,3-Tetrafluoropropyl Ether as a Solvent for High-Voltage Lithium-Ion Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 3747-3755.	3.4	28
82	Controlling siloxene oxidization to tailor SiO _x anodes for high performance lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 432, 65-72.	7.8	32
83	A Comprehensive Understanding of Lithium-Sulfur Battery Technology. <i>Advanced Functional Materials</i> , 2019, 29, 1901730.	14.9	267
84	MnO/Metal/Carbon Nanohybrid Lithium-Ion Battery Anode With Enhanced Electrochemical Performance: Universal Facile Scalable Synthesis and Fundamental Understanding. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900335.	3.7	14
85	Reactivating Li ₂ O with Nano-Sn to Achieve Ultrahigh Initial Coulombic Efficiency SiO Anodes for Li-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 3377-3382.	6.8	16
86	Synergy effects on blending Li-rich and classical layered cathode oxides with improved electrochemical performance. <i>Ceramics International</i> , 2019, 45, 15097-15107.	4.8	4
87	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.	3.3	13
88	Double-helix-superstructure aqueous binder to boost excellent electrochemical performance in Li-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2019, 420, 29-37.	7.8	32
89	Understanding the Discrepancy of Defect Kinetics on Anionic Redox in Lithium-Rich Cathode Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14023-14034.	8.0	30
90	Attapulgit nanofibers and graphene oxide composite membrane for high-performance molecular separation. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 276-281.	9.4	33

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91	Graphene Nanoscrolls with Confined Silicon Nanoparticles as a Durable Anode for Lithium-ion Batteries. <i>ChemNanoMat</i> , 2019, 5, 748-753.	2.8	3
92	Effect of phase transformation of zirconia on the fracture behavior of electrolyte-supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12118-12126.	7.1	10
93	Vapor-assisted synthesis of hierarchical porous graphitic carbon materials towards energy storage devices. <i>Journal of Power Sources</i> , 2019, 425, 10-16.	7.8	24
94	Depressing the irreversible reactions on a three-dimensional interface towards a high-areal capacity lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6267-6274.	10.3	11
95	Regulating capillary pressure to achieve ultralow areal mass loading metallic lithium anodes. <i>Energy Storage Materials</i> , 2019, 23, 693-700.	18.0	19
96	Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15206-15226.	13.8	138
97	Hybride organisch-anorganische thermoelektrische Materialien und Baueinheiten. <i>Angewandte Chemie</i> , 2019, 131, 15348-15370.	2.0	9
98	Study on the fracture behavior of the planar-type solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2019, 782, 355-362.	5.5	12
99	Scalable synthesis of Si nanowires interconnected SiO _x anode for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 783, 128-135.	5.5	43
100	Silicon/carbon lithium-ion battery anode with 3D hierarchical macro-/mesoporous silicon network: Self-templating synthesis via magnesiothermic reduction of silica/carbon composite. <i>Journal of Power Sources</i> , 2019, 412, 93-104.	7.8	77
101	Graphene network nested Cu foam for reducing size of lithium metal towards stable metallic lithium anode. <i>Energy Storage Materials</i> , 2019, 21, 107-114.	18.0	46
102	Ultrafast Heterogeneous Nucleation Enables a Hierarchical Surface Configuration of Lithium-Rich Layered Oxide Cathode Material for Enhanced Electrochemical Performances. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701465.	3.7	15
103	New perspective to understand the effect of electrochemical prelithiation behaviors on silicon monoxide. <i>RSC Advances</i> , 2018, 8, 14473-14478.	3.6	52
104	Lithium Bis(fluorosulfonyl)imide-Lithium Hexafluorophosphate Binary Salt Electrolytes for Lithium-ion Batteries: Aluminum Corrosion Behaviors and Electrochemical Properties. <i>ChemistrySelect</i> , 2018, 3, 1954-1960.	1.5	21
105	Cerium ion intercalated MnO ₂ nanospheres with high catalytic activity toward oxygen reduction reaction for aluminum-air batteries. <i>Electrochimica Acta</i> , 2018, 263, 544-554.	5.2	52
106	Microscale Lithium Metal Stored inside Cellular Graphene Scaffold toward Advanced Metallic Lithium Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1703152.	19.5	144
107	Identifying the chemical and structural irreversibility in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ - a model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4189-4198.	10.3	48
108	Revisiting the open-framework zinc hexacyanoferrate: The role of ternary electrolyte and sodium-ion intercalation mechanism. <i>Journal of Power Sources</i> , 2018, 380, 135-141.	7.8	33

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109	Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. <i>Electrochimica Acta</i> , 2018, 260, 430-438.	5.2	21
110	Localized concentration reversal of lithium during intercalation into nanoparticles. <i>Science Advances</i> , 2018, 4, eaao2608.	10.3	50
111	Scalable in Situ Synthesis of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /Carbon Nanohybrid with Supersmall $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2591-2602.	8.0	47
112	3D Porous MXene (Ti_3C_2)/Reduced Graphene Oxide Hybrid Films for Advanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3634-3643.	8.0	288
113	Si/Ag/C Nanohybrids with <i>in Situ</i> Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018, 12, 861-875.	14.6	67
114	Graphene nested porous carbon current collector for lithium metal anode with ultrahigh areal capacity. <i>Energy Storage Materials</i> , 2018, 15, 266-273.	18.0	77
115	Hybrid electrolytes incorporated with dandelion-like silane- Al_2O_3 nanoparticles for high-safety high-voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 391, 113-119.	7.8	16
116	A new family of Mn-based perovskite ($\text{La}_{1-x}\text{Y}_x\text{MnO}_3$) with improved oxygen electrocatalytic activity for metal-air batteries. <i>Energy</i> , 2018, 154, 561-570.	8.8	50
117	Graphene Sheets: Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material (<i>Adv. Funct. Mater.</i> 46/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870330.	14.9	3
118	A Nano-Architected Metal-Oxide/Perovskite Hybrid Material as Electrocatalyst for the Oxygen Reduction Reaction in Aluminum-Air Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 6824-6833.	5.0	14
119	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. <i>Advanced Functional Materials</i> , 2018, 28, 1805255.	14.9	33
120	Highly Reversible Li Plating Confined in Three-Dimensional Interconnected Microchannels toward High-Rate and Stable Metallic Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20387-20395.	8.0	42
121	Establishment of a reliable transfer process for fabricating chemical vapor deposition-grown graphene films with advanced and repeatable electrical properties. <i>RSC Advances</i> , 2018, 8, 19846-19851.	3.6	2
122	One-Pot Synthesis of Co_3O_4 /Ag Nanoparticles Supported on N-Doped Graphene as Efficient Bifunctional Oxygen Catalysts for Flexible Rechargeable Zinc-Air Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 14816-14823.	3.3	49
123	Adopting combined strategies to make state of charge (SOC) estimation for practical use. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	2.0	7
124	Transition metal oxide-based oxygen reduction reaction electrocatalysts for energy conversion systems with aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10595-10626.	10.3	162
125	A $\text{LiPO}_2\text{F}_2/\text{LiFSI}$ dual-salt electrolyte enabled stable cycling of lithium metal batteries. <i>Journal of Power Sources</i> , 2018, 400, 449-456.	7.8	33
126	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.	8.0	50

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127	Facile fabrication of nanoporous graphene powder for high-rate lithium-sulfur batteries. RSC Advances, 2017, 7, 5177-5182.	3.6	14
128	Nitrogen-Doped Graphene Nanoscroll Foam with High Diffusion Rate and Binding Affinity for Removal of Organic Pollutants. Small, 2017, 13, 1603779.	10.0	36
129	Understanding and Controlling Anionic Electrochemical Activity in High-Capacity Oxides for Next Generation Li-Ion Batteries. Chemistry of Materials, 2017, 29, 908-915.	6.7	97
130	Enhanced high voltage cyclability of LiCoO ₂ cathode by adopting poly[bis-(ethoxyethoxyethoxy)phosphazene] with flame-retardant property as an electrolyte additive for lithium-ion batteries. Applied Surface Science, 2017, 403, 260-266.	6.1	44
131	La _{0.7} (Sr _{0.3-x} Pd _x)MnO ₃ as a highly efficient electrocatalyst for oxygen reduction reaction in aluminum air battery. Electrochimica Acta, 2017, 230, 418-427.	5.2	32
132	La _{1-x} Ag _x MnO ₃ electrocatalyst with high catalytic activity for oxygen reduction reaction in aluminium air batteries. RSC Advances, 2017, 7, 5214-5221.	3.6	33
133	Solvent evaporation induced self-assembly of graphene foam for thermally conductive polymers. RSC Advances, 2017, 7, 15469-15474.	3.6	12
134	Hierarchical porous MnO/graphene composite aerogel as high-performance anode material for lithium ion batteries. RSC Advances, 2017, 7, 15857-15863.	3.6	22
135	Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8742-8750.	8.0	83
136	Distinguishing thermal lens effect from electronic third-order nonlinear self-phase modulation in liquid suspensions of 2D nanomaterials. Nanoscale, 2017, 9, 3547-3554.	5.6	60
137	Large-Sized Few-Layer Graphene Enables an Ultrafast and Long-Life Aluminum-Ion Battery. Advanced Energy Materials, 2017, 7, 1700034.	19.5	197
138	Structure-preserved 3D porous silicon/reduced graphene oxide materials as anodes for Li-ion batteries. RSC Advances, 2017, 7, 24305-24311.	3.6	23
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