

Xiulin Fan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1098088/xiulin-fan-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180 papers	17,387 citations	68 h-index	129 g-index
191 ext. papers	22,273 ext. citations	14.1 avg, IF	7.03 L-index

#	Paper	IF	Citations
180	High-energy and low-cost membrane-free chlorine flow battery.. <i>Nature Communications</i> , 2022 , 13, 128117.4	17.4	1
179	Anion Diluent Pairing for Stable High-Energy Li Metal Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 1338-1347	20.1	16
178	Mitigating irreversible capacity loss for higher-energy lithium batteries. <i>Energy Storage Materials</i> , 2022 , 48, 44-73	19.4	1
177	0D/1D/2D Co@Co ₂ Mo ₃ O ₈ nanocomposite constructed by mutual-supported Co ₂ Mo ₃ O ₈ nanosheet and Co nanoparticle: Synthesis and enhanced hydrolytic dehydrogenation of ammonia borane. <i>Chemical Engineering Journal</i> , 2021 , 431, 133697	14.7	2
176	Critical review on low-temperature Li-ion/metal batteries. <i>Advanced Materials</i> , 2021 , e2107899	24	37
175	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2021 , 6, 1839-1848	20.1	53
174	The Electrolysis of Anti-Perovskite Li ₂ OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 13123-13130	3.6	2
173	The Electrolysis of Anti-Perovskite Li OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13013-13020	16.4	6
172	Cooperative stabilization of bi-electrodes with robust interphases for high-voltage lithium-metal batteries. <i>Energy Storage Materials</i> , 2021 , 37, 521-529	19.4	16
171	Ambiently and Mechanically Stable Ionogels for Soft Ionotronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2102773	15.6	27
170	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithium-Ion Battery Cathode Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2001633	15.6	9
169	Tuning electrolyte enables micro-sized Sn as an advanced anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1812-1821	13	10
168	High-voltage liquid electrolytes for Li batteries: progress and perspectives. <i>Chemical Society Reviews</i> , 2021 , 50, 10486-10566	58.5	77
167	Heterostructured Ni/NiO Nanoparticles on 1D Porous MoO _x for Hydrolysis of Ammonia Borane. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1208-1217	6.1	5
166	Identification of LiH and nanocrystalline LiF in the solid-electrolyte interphase of lithium metal anodes. <i>Nature Nanotechnology</i> , 2021 , 16, 549-554	28.7	64
165	Low-cost batteries based on industrial waste Al-Si microparticles and LiFePO ₄ for stationary energy storage. <i>Dalton Transactions</i> , 2021 , 50, 8322-8329	4.3	3
164	In situ formation of polymer-inorganic solid-electrolyte interphase for stable polymeric solid-state lithium-metal batteries. <i>Chem</i> , 2021 ,	16.2	16

163	Interfacial-engineering-enabled practical low-temperature sodium metal battery.. <i>Nature Nanotechnology</i> , 2021 ,	28.7	9
162	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
161	A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14712-14720	11.5	49
160	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 10276-10283	16.7	4
159	In situ healing of dendrites in a potassium metal battery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5588-5594	11.5	45
158	Enhancing the reversibility of SnCoS ₄ microflower for sodium-ion battery anode material. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154104	5.7	9
157	A Highly Reversible, Dendrite-Free Lithium Metal Anode Enabled by a Lithium-Fluoride-Enriched Interphase. <i>Advanced Materials</i> , 2020 , 32, e1906427	24	87
156	Isotope Effect between H ₂ O and D ₂ O in Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2020 , 32, 769-775	7.5	9
155	Countersolvent Electrolytes for Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903568	21.8	102
154	Electrolyte design for Li metal-free Li batteries. <i>Materials Today</i> , 2020 , 39, 118-126	21.8	64
153	Electrolyte design for LiF-rich solid electrolyte interfaces to enable high-performance micro-sized alloy anodes for batteries. <i>Nature Energy</i> , 2020 , 5, 386-397	62.3	250
152	Structure and Interface Design Enable Stable Li-Rich Cathode. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8918-8927	16.4	72
151	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. <i>ACS Energy Letters</i> , 2020 , 5, 224-231	20.1	27
150	Solid-State Electrolyte Design for Lithium Dendrite Suppression. <i>Advanced Materials</i> , 2020 , 32, e2002741	14	82
149	Probing an intermediate state by X-ray absorption near-edge structure in nickel-doped 2LiBH ₄ /MgH ₂ reactive hydride composite at moderate temperature. <i>Materials Today Nano</i> , 2020 , 12, 100090	9.7	11
148	Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries. <i>Microscopy and Microanalysis</i> , 2020 , 26, 906-908	0.5	
147	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22194-22201	16.4	88
146	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 22378-22385	3.6	33

145	Extremely stable antimony-carbon composite anodes for potassium-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 615-623	35.4	268
144	Facile formation of NiCo ₂ O ₄ yolk-shell spheres for highly reversible sodium storage. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 125-133	5.7	12
143	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. <i>Chemistry of Materials</i> , 2019 , 31, 3183-3191	31.9	57
142	Rational design of Sn-Sb-S composite with yolk-shell hydrangea-like structure as advanced anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 620-626	5.7	12
141	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3V Battery. <i>Chem</i> , 2019 , 5, 896-912	16.2	86
140	PdCoNi nanoparticles supported on nitrogen-doped porous carbon nanosheets for room temperature dehydrogenation of formic acid. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11675-11683	6.7	14
139	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. <i>Nano Letters</i> , 2019 , 19, 6665-6672	11.5	44
138	A Pyrazine-Based Polymer for Fast-Charge Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17820-17826	16.4	82
137	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO ₂ Cathode for Li-ion and Li-metal Batteries. <i>Joule</i> , 2019 , 3, 2550-2564	27.8	76
136	A Pyrazine-Based Polymer for Fast-Charge Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 17984-17990	3.6	9
135	In-situ formation of ultrafine MgNi ₃ B ₂ and TiB ₂ nanoparticles: Heterogeneous nucleating and grain coarsening retardant agents for magnesium borate in Li-Mg-BH reactive hydride composite. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 27529-27541	6.7	5
134	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. <i>ACS Nano</i> , 2019 , 13, 14094-14106	16.7	21
133	High-Fluorinated Electrolytes for LiS Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803774	21.8	144
132	Enhanced Electrochemical Performance of Ni-Rich Layered Cathode Materials by using LiPF ₆ as a Cathode Additive. <i>ChemElectroChem</i> , 2019 , 6, 1536-1541	4.3	35
131	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. <i>Nature Energy</i> , 2019 , 4, 882-890	62.3	267
130	High-Energy Li Metal Battery with Lithiated Host. <i>Joule</i> , 2019 , 3, 732-744	27.8	95
129	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. <i>Nature Energy</i> , 2019 , 4, 187-196	62.3	653
128	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. <i>Nano Letters</i> , 2019 , 19, 538-544	11.5	81

127	AuPd Nanoparticles Anchored on Nitrogen-Decorated Carbon Nanosheets with Highly Efficient and Selective Catalysis for the Dehydrogenation of Formic Acid. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4792-4801	3.8	18
126	Interphase Engineering Enabled All-Ceramic Lithium Battery. <i>Joule</i> , 2018 , 2, 497-508	27.8	272
125	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Li-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1706498	24	82
124	Highly reversible zinc metal anode for aqueous batteries. <i>Nature Materials</i> , 2018 , 17, 543-549	27	1128
123	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14767-14776	9.5	64
122	An in-situ enabled lithium metal battery by plating lithium on a copper current collector. <i>Electrochemistry Communications</i> , 2018 , 89, 23-26	5.1	28
121	GeP5/C composite as anode material for high power sodium-ion batteries with exceptional capacity. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 15-22	5.7	20
120	Highly synergetic catalytic mechanism of Ni@g-C3N4 on the superior hydrogen storage performance of Li-Mg-B-H system. <i>Energy Storage Materials</i> , 2018 , 13, 199-206	19.4	39
119	In situ synthesized SnO nanorod/reduced graphene oxide low-dimensional structure for enhanced lithium storage. <i>Nanotechnology</i> , 2018 , 29, 105705	3.4	7
118	Non-noble trimetallic Cu-Ni-Co nanoparticles supported on metal-organic frameworks as highly efficient catalysts for hydrolysis of ammonia borane. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 501-508	5.7	37
117	Azo compounds as a family of organic electrode materials for alkali-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2004-2009	11.5	98
116	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. <i>Chem</i> , 2018 , 4, 174-185	16.2	435
115	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na, K) ion battery. <i>Nano Energy</i> , 2018 , 45, 346-352	17.1	234
114	Self-Templated Formation of P2-type KCoO Microspheres for High Reversible Potassium-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 1522-1529	11.5	133
113	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 7264-7268	3.6	42
112	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7146-7150	16.4	114
111	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	35.4	154
110	High-Performance All-Solid-State Na-S Battery Enabled by Casting-Annealing Technology. <i>ACS Nano</i> , 2018 , 12, 3360-3368	16.7	71

109	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. <i>Joule</i> , 2018 , 2, 927-937	23.8	194
108	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. <i>Advanced Energy Materials</i> , 2018 , 8, 1701728	21.8	65
107	Efficient and stable cycling of lithium metal enabled by a conductive carbon primer layer. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 163-168	5.8	7
106	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. <i>Nature Nanotechnology</i> , 2018 , 13, 715-722	28.7	606
105	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. <i>Nature Communications</i> , 2018 , 9, 2324	17.4	86
104	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI -DME Electrolyte. <i>Advanced Materials</i> , 2018 , 30, 1704313	24	90
103	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	35.4	182
102	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. <i>Science Advances</i> , 2018 , 4, eaau9245	14.3	289
101	Synergistic Catalytic Activity of Porous Rod-like TMTiO ₃ (TM = Ni and Co) for Reversible Hydrogen Storage of Magnesium Hydride. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27973-27982	3.8	43
100	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. <i>Nano Energy</i> , 2018 , 53, 958-966	17.1	133
99	Long Cycle Life All-Solid-State Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39645-39650	45.3	50
98	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. <i>Joule</i> , 2018 , 2, 217827.8	27.8	7
97	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. <i>Nano Energy</i> , 2018 , 50, 431-440	17.1	84
96	Layered P2-Type K _{0.65} Fe _{0.5} Mn _{0.5} O ₂ Microspheres as Superior Cathode for High-Energy Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1800219	15.6	114
95	Facile synthesis of AuPd nanoparticles anchored on TiO nanosheets for efficient dehydrogenation of formic acid. <i>Nanotechnology</i> , 2018 , 29, 335402	3.4	9
94	Preventing lithium dendrite-related electrical shorting in rechargeable batteries by coating separator with a Li-killing additive. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10755-10760	13	35
93	Transition metal (Co, Ni) nanoparticles wrapped with carbon and their superior catalytic activities for the reversible hydrogen storage of magnesium hydride. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4019-4029	3.6	63
92	High power rechargeable magnesium/iodine battery chemistry. <i>Nature Communications</i> , 2017 , 8, 14083	17.4	177

91	Enhanced hydrogen storage properties of MgH ₂ with numerous hydrogen diffusion channels provided by Na ₂ Ti ₃ O ₇ nanotubes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6178-6185	13	69
90	La ₂ O ₃ -modified highly dispersed AuPd alloy nanoparticles and their superior catalysis on the dehydrogenation of formic acid. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9353-9360	6.7	19
89	Significantly enhanced hydrogen desorption properties of Mg(AlH ₄) ₂ nanoparticles synthesized using solvent free strategy. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 112-120	3.6	12
88	Carbon coated sodium-titanate nanotube as an advanced intercalation anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 365-372	5.7	32
87	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14801-14807	9.5	57
86	In situ synthesis of ultrasmall SnO ₂ quantum dots on nitrogen-doped reduced graphene oxide composite as high performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 1-7	5.7	16
85	High-Performance All-Inorganic Solid-State Sodium-Sulfur Battery. <i>ACS Nano</i> , 2017 , 11, 4885-4891	16.7	96
84	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. <i>Nano Energy</i> , 2017 , 38, 350-357	17.1	104
83	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6197-6202	11.5	100
82	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. <i>Accounts of Chemical Research</i> , 2017 , 50, 1022-1031	24.3	70
81	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601578	21.8	92
80	High-Voltage Aqueous Magnesium Ion Batteries. <i>ACS Central Science</i> , 2017 , 3, 1121-1128	16.8	168
79	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. <i>Chem</i> , 2017 , 3, 1050-1062	16.2	63
78	Highly Reversible Conversion-Type FeOF Composite Electrode with Extended Lithium Insertion by Atomic Layer Deposition LiPON Protection. <i>Chemistry of Materials</i> , 2017 , 29, 8780-8791	9.6	29
77	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. <i>Advanced Materials</i> , 2017 , 29, 1701972	24	121
76	Functional Nanomaterials for Renewable Energy and Sustainability. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-1	3.2	
75	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 9048-9056	16.7	64
74	4.0V Aqueous Li-Ion Batteries. <i>Joule</i> , 2017 , 1, 122-132	27.8	324

73	Water-in-Salt Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. <i>Advanced Energy Materials</i> , 2017 , 7, 1701189	21.8	335
72	Enhanced hydrogen storage properties of a dual-cation (Li ⁺ , Mg ²⁺) borohydride and its dehydrogenation mechanism. <i>RSC Advances</i> , 2017 , 7, 36852-36859	3.7	7
71	P2-type transition metal oxides for high performance Na-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18214-18220	13	66
70	Zn/MnO Battery Chemistry With H and Zn Coinsertion. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9775-9778	16.4	866
69	Synthesis of nanoscale CeAl ₄ and its high catalytic efficiency for hydrogen storage of sodium alanate. <i>Rare Metals</i> , 2017 , 36, 77-85	5.5	11
68	A tin-plated copper substrate for efficient cycling of lithium metal in an anode-free rechargeable lithium battery. <i>Electrochimica Acta</i> , 2017 , 258, 1201-1207	6.7	62
67	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie</i> , 2016 , 128, 10052-10055	16.4	50
66	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9898-901	16.4	168
65	Building robust architectures of carbon-wrapped transition metal nanoparticles for high catalytic enhancement of the 2LiBH ₄ -MgH ₂ system for hydrogen storage cycling performance. <i>Nanoscale</i> , 2016 , 8, 14898-908	7.7	19
64	Stabilizing high voltage LiCoO ₂ cathode in aqueous electrolyte with interphase-forming additive. <i>Energy and Environmental Science</i> , 2016 , 9, 3666-3673	35.4	140
63	Activation of Oxygen-Stabilized Sulfur for Li and Na Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 745-752	15.6	66
62	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Bisalt" Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7136-41	16.4	435
61	High-Performance All-Solid-State Lithium-Sulfur Battery Enabled by a Mixed-Conductive Li ₂ S Nanocomposite. <i>Nano Letters</i> , 2016 , 16, 4521-7	11.5	258
60	Ternary perovskite nickel titanate/reduced graphene oxide nano-composite with improved lithium storage properties. <i>RSC Advances</i> , 2016 , 6, 61312-61318	3.7	18
59	In situ lithiated FeF ₃ /C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 307, 435-442	8.9	52
58	Water-in-Salt Electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6639-6644	13	140
57	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7147-55	9.5	76
56	Electrospun FeS ₂ @Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. <i>ACS Nano</i> , 2016 , 10, 1529-38	16.7	171

55	Novel AgPd hollow spheres anchored on graphene as an efficient catalyst for dehydrogenation of formic acid at room temperature. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 657-666	13	59
54	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by Water-in-Salt Electrolyte. <i>Angewandte Chemie</i> , 2016 , 128, 7252-7257	3.6	80
53	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. <i>ACS Nano</i> , 2016 , 10, 5567-77	16.7	67
52	Enhanced hydrogen desorption properties of LiBH ₄ /Al(BH ₄) ₂ by a synergetic effect of nanoconfinement and catalysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17462-17470	6.7	21
51	Tailoring Surface Acidity of Metal Oxide for Better Polysulfide Entrapment in Li-S Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 7164-7169	15.6	78
50	Red phosphorus-single-walled carbon nanotube composite as a superior anode for sodium ion batteries. <i>ACS Nano</i> , 2015 , 9, 3254-64	16.7	312
49	Carbon cage encapsulating nano-cluster Li ₂ S by ionic liquid polymerization and pyrolysis for high performance LiS batteries. <i>Nano Energy</i> , 2015 , 13, 467-473	17.1	67
48	Ether-based electrolyte enabled Na/FeS ₂ rechargeable batteries. <i>Electrochemistry Communications</i> , 2015 , 54, 18-22	5.1	107
47	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. <i>Nano Energy</i> , 2015 , 13, 537-545	17.1	73
46	Scalable synthesis of Na ₃ V ₂ (PO ₄) ₃ /C porous hollow spheres as a cathode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10378-10385	13	93
45	Enhanced hydrogen storage capacity and reversibility of LiBH ₄ nanoconfined in the densified zeolite-templated carbon with high mechanical stability. <i>Nano Energy</i> , 2015 , 15, 244-255	17.1	48
44	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. <i>Nano Letters</i> , 2015 , 15, 7650-6	11.5	82
43	Enhancing the reversibility of Mg/S battery chemistry through Li(+) mediation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12388-93	16.4	185
42	"Water-in-salt" electrolyte enables high-voltage aqueous lithium-ion chemistries. <i>Science</i> , 2015 , 350, 938-43	33.3	1717
41	In situ formed carbon bonded and encapsulated selenium composites for LiSe and NaSe batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 555-561	13	98
40	Superior Stable Self-Healing SnP ₃ Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500174	21.8	175
39	Remarkably Improved Hydrogen Storage Performance of MgH ₂ Catalyzed by Multivalence NbH _x Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8554-8562	3.8	58
38	Scalable Synthesis of Defect Abundant Si Nanorods for High-Performance Li-Ion Battery Anodes. <i>ACS Nano</i> , 2015 , 9, 6576-86	16.7	73

37	Solid-State Fabrication of SnS ₂ /C Nanospheres for High-Performance Sodium Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11476-81	9.5	161
36	Influence of Ti super-stoichiometry on the hydrogen storage properties of Ti _{1+x} Cr _{1.2} Mn _{0.2} Fe _{0.6} (x = 0.1) alloys for hybrid hydrogen storage application. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 307-311	5.7	34
35	Improved de/hydrogenation properties and favorable reaction mechanism of CeH ₂ + KH co-doped sodium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6577-6587	6.7	11
34	Superior dehydrogenation performance of nanoscale lithium borohydride modified with fluorographite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 896-904	6.7	17
33	Enhanced reversible hydrogen storage performance of NbCl ₅ doped 2LiH/MgB ₂ composite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2132-2141	6.7	7
32	Low-Temperature Reversible Hydrogen Storage Properties of LiBH ₄ : A Synergetic Effect of Nanoconfinement and Nanocatalysis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11252-11260	3.8	46
31	Fast hydrogen release under moderate conditions from NaBH ₄ destabilized by fluorographite. <i>RSC Advances</i> , 2014 , 4, 2550-2556	3.7	19
30	In situ synthesis of SnO ₂ nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18367-18374	13	56
29	Carbon encapsulated 3D hierarchical Fe ₃ O ₄ spheres as advanced anode materials with long cycle lifetimes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14641-14648	13	57
28	SnLi 4.4 nanoparticles encapsulated in carbon matrix as high performance anode material for lithium-ion batteries. <i>Nano Energy</i> , 2014 , 9, 196-203	17.1	29
27	Fluorographene nanosheets enhanced hydrogen absorption and desorption performances of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12715-12726	6.7	23
26	Enhanced dehydrogenation performances and mechanism of LiBH ₄ /Mg ₁₇ Al ₁₂ -hydride composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 152-157	3.3	7
25	Superior Catalytic Effects of Transition Metal Boride Nanoparticles on the Reversible Hydrogen Storage Properties of Li-Mg-B-H System. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 195-200	3.1	10
24	A low temperature mechanochemical synthesis and characterization of amorphous NiB ultrafine nanoparticles. <i>Materials Letters</i> , 2013 , 109, 203-206	3.3	18
23	Influence of lanthanon hydride catalysts on hydrogen storage properties of sodium alanates. <i>Journal of Rare Earths</i> , 2013 , 31, 502-506	3.7	6
22	Significantly improved hydrogen storage properties of NaAlH ₄ catalyzed by Ce-based nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9752	13	28
21	Enhanced hydriding/dehydriding performance of a 2LiH/MgB ₂ composite by the catalytic effects of NiB nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10184	13	22
20	High catalytic efficiency of amorphous TiB ₂ and NbB ₂ nanoparticles for hydrogen storage using the 2LiBH ₄ /MgH ₂ system. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11368	13	35

19	Development of Ti _{0.7} Mn _{0.3} Fe based alloys with high hydrogen desorption pressures for hybrid hydrogen storage vessel application. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12803-12810	6.7	45
18	Size effect on hydrogen storage properties of NaAlH ₄ confined in uniform porous carbons. <i>Nano Energy</i> , 2013 , 2, 995-1003	17.1	34
17	Synergetic Effect of in Situ Formed Nano NbH and LiH _{1-x} F _x for Improving Reversible Hydrogen Storage Properties of the LiMgBH System. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12019-12025	3.8	12
16	Enhanced hydriding-dehydriding performance of 2LiBH ₄ /MgH ₂ composite by the catalytic effects of transition metal chlorides. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20764		51
15	Effects of Fluoride Additives on the Hydrogen Storage Performance of 2LiBH ₄ /Li ₃ AlH ₆ Destabilized System. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22226-22230	3.8	10
14	Effects of NbF ₅ addition on the de/rehydrogenation properties of 2LiBH ₄ /MgH ₂ hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13147-13154	6.7	39
13	Investigation on the nature of active species in the CeCl ₃ -doped sodium alanate system. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S750-S753	5.7	18
12	Synthesis and dehydrogenation of CeAl ₄ -doped calcium alanate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S743-S746	5.7	10
11	Influence of TiC catalyst on absorption/desorption behaviors and microstructures of sodium aluminum hydride. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 1297-1302	3.3	6
10	Hydriding-dehydriding kinetics and the microstructure of La- and Sm-doped NaAlH ₄ prepared via direct synthesis method. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10861-10869	6.7	27
9	Direct synthesis and hydrogen storage behaviors of nanocrystalline Na ₂ LiAlH ₆ . <i>Journal of Materials Science</i> , 2011 , 46, 3314-3318	4.3	7
8	Enhanced Hydriding/Dehydriding Performance of CeAl ₂ -Doped NaAlH ₄ and the Evolvement of Ce-Containing Species in the Cycling. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2537-2543	3.8	36
7	Thermodynamics, Kinetics, and Modeling Investigation on the Dehydrogenation of CeAl ₄ -Doped NaAlH ₄ Hydrogen Storage Material. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22680-22687	3.8	20
6	Synthesis and hydriding/dehydriding properties of nanosized sodium alanates prepared by reactive ball-milling. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 539-548	6.7	12
5	Direct synthesis of nanocrystalline NaAlH ₄ complex hydride for hydrogen storage. <i>Applied Physics Letters</i> , 2009 , 94, 041907	3.4	31
4	Reversible hydrogen storage behaviors and microstructure of TiC-doped sodium aluminum hydride. <i>Journal of Materials Science</i> , 2009 , 44, 4700-4704	4.3	17
3	Catalytic Mechanism of New TiC-Doped Sodium Alanate for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20745-20751	3.8	40
2	Active species of CeAl ₄ in the CeCl ₃ -doped sodium aluminium hydride and its enhancement on reversible hydrogen storage performance. <i>Chemical Communications</i> , 2009 , 6857-9	5.8	47

- 1 Microstructure and electrochemical behavior of Cr-added V_{2.1}TiNi_{0.4}Zr_{0.06}Cr_{0.152} hydrogen storage electrode alloy. *International Journal of Hydrogen Energy*, **2007**, 32, 2434-2438

6.7 8