Xiulin Fan

List of Publications by Year
in descending order

185 papers	27,674 citations	5268 83 h-index	5679 162 g-index
191 all docs	191 docs citations	191 times ranked	15604 citing authors

#	Article	IF	Citations
1	0D/1D/2D Co@Co2Mo3O8 nanocomposite constructed by mutual-supported Co2Mo3O8 nanosheet and Co nanoparticle: Synthesis and enhanced hydrolytic dehydrogenation of ammonia borane. Chemical Engineering Journal, 2022, 431, 133697.	12.7	19
2	Critical Review on Lowâ€Temperature Liâ€Ion/Metal Batteries. Advanced Materials, 2022, 34, e2107899.	21.0	204
3	High-energy and low-cost membrane-free chlorine flow battery. Nature Communications, 2022, 13, 1281.	12.8	34
4	Anionâ€“Diluent Pairing for Stable High-Energy Li Metal Batteries. ACS Energy Letters, 2022, 7, 1338-1347.	17.4	108
5	Mitigating irreversible capacity loss for higher-energy lithium batteries. Energy Storage Materials, 2022, 48, 44-73.	18.0	25
6	Interfacial-engineering-enabled practical low-temperature sodium metal battery. Nature Nanotechnology, 2022, 17, 269-277.	31.5	69
7	A self-purifying electrolyte enables high energy Li ion batteries. Energy and Environmental Science, 2022, 15, 3331-3342.	30.8	40
8	Identifying soft breakdown in all-solid-state lithium battery. Joule, 2022, 6, 1770-1781.	24.0	71
9	High Energy and Low-Cost Membrane-Free Chlorine Flow Battery. ECS Meeting Abstracts, 2022, MA2022-01, 488-488.	0.0	0
10	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithiumâ€Ion Battery Cathode Materials. Advanced Functional Materials, 2021, 31, 2001633.	14.9	21
11	Tuning electrolyte enables microsized Sn as an advanced anode for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 1812-1821.	10.3	28
12	High-voltage liquid electrolytes for Li batteries: progress and perspectives. Chemical Society Reviews, 2021, 50, 10486-10566.	38.1	391
13	Heterostructured Ni/NiO Nanoparticles on 1D Porous MoO_{<i>x</i>} for Hydrolysis of Ammonia Borane. ACS Applied Energy Materials, 2021, 4, 1208-1217.	5.1	17
14	Identification of LiH and nanocrystalline LiF in the solidâ€“electrolyte interphase of lithium metal anodes. Nature Nanotechnology, 2021, 16, 549-554.	31.5	171
15	Low-cost batteries based on industrial waste Alâ€“Si microparticles and LiFePO₄ for stationary energy storage. Dalton Transactions, 2021, 50, 8322-8329.	3.3	6
16	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. ACS Energy Letters, 2021, 6, 1839-1848.	17.4	200
17	The Electrolysis of Antiâ€Perovskite Li₂OHCl for Prelithiation of Highâ€Energyâ€Density Batteries. Angewandte Chemie, 2021, 133, 13123-13130.	2.0	4
18	The Electrolysis of Antiâ€Perovskite Li₂OHCl for Prelithiation of Highâ€Energyâ€Density Batteries. Angewandte Chemie - International Edition, 2021, 60, 13013-13020.	13.8	25

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19	Cooperative stabilization of bi-electrodes with robust interphases for high-voltage lithium-metal batteries. Energy Storage Materials, 2021, 37, 521-529.	18.0	54
20	Ambiently and Mechanically Stable Ionogels for Soft Ionotronics. Advanced Functional Materials, 2021, 31, 2102773.	14.9	95
21	In situ formation of polymer-inorganic solid-electrolyte interphase for stable polymeric solid-state lithium-metal batteries. CheM, 2021, 7, 3052-3068.	11.7	76
22	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	17.4	59
23	Solidâ€State Electrolyte Design for Lithium Dendrite Suppression. Advanced Materials, 2020, 32, e2002741.	21.0	219
24	Probing an intermediate state by X-ray absorption near-edge structure in nickel-doped 2LiBH4â€“MgH2 reactive hydride composite at moderate temperature. Materials Today Nano, 2020, 12, 100090.	4.6	15
25	Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries. Microscopy and Microanalysis, 2020, 26, 906-908.	0.4	0
26	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 22194-22201.	13.8	219
27	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 22378-22385.	2.0	60
28	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	21.0	156
29	A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14712-14720.	7.1	102
30	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. ACS Nano, 2020, 14, 10276-10283.	14.6	14
31	In situ healing of dendrites in a potassium metal battery. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5588-5594.	7.1	79
32	Enhancing the reversibility of SnCoS4 microflower for sodium-ion battery anode material. Journal of Alloys and Compounds, 2020, 825, 154104.	5.5	14
33	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	21.0	168
34	Isotope Effect between H₂O and D₂O in Hydrothermal Synthesis. Chemistry of Materials, 2020, 32, 769-775.	6.7	15
35	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	19.5	200
36	Electrolyte design for Li metal-free Li batteries. Materials Today, 2020, 39, 118-126.	14.2	138

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37	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	39.5	621
38	Structure and Interface Design Enable Stable Li-Rich Cathode. Journal of the American Chemical Society, 2020, 142, 8918-8927.	13.7	151
39	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. Nano Letters, 2019, 19, 6665-6672.	9.1	59
40	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie - International Edition, 2019, 58, 17820-17826.	13.8	173
41	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO2 Cathode for Li-ion and Li-metal Batteries. Joule, 2019, 3, 2550-2564.	24.0	167
42	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie, 2019, 131, 17984-17990.	2.0	19
43	In-situ formation of ultrafine MgNi3B2 and TiB2 nanoparticles: Heterogeneous nucleating and grain coarsening retardant agents for magnesium borate in Liâ€“Mgâ€“Bâ€“H reactive hydride composite. International Journal of Hydrogen Energy, 2019, 44, 27529-27541.	7.1	9
44	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. ACS Nano, 2019, 13, 14094-14106.	14.6	36
45	Extremely stable antimonyâ€“carbon composite anodes for potassium-ion batteries. Energy and Environmental Science, 2019, 12, 615-623.	30.8	358
46	Facile formation of NiCo2O4 yolk-shell spheres for highly reversible sodium storage. Journal of Alloys and Compounds, 2019, 800, 125-133.	5.5	17
47	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. Chemistry of Materials, 2019, 31, 3183-3191.	6.7	91
48	Rational design of Sn-Sb-S composite with yolk-shell hydrangea-like structure as advanced anode material for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 793, 620-626.	5.5	19
49	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3ÂV Battery. CheM, 2019, 5, 896-912.	11.7	145
50	PdCoNi nanoparticles supported on nitrogen-doped porous carbon nanosheets for room temperature dehydrogenation of formic acid. International Journal of Hydrogen Energy, 2019, 44, 11675-11683.	7.1	18
51	Highâ€Fluorinated Electrolytes for Liâ€“S Batteries. Advanced Energy Materials, 2019, 9, 1803774.	19.5	227
52	Enhanced Electrochemical Performance of Niâ€Rich Layered Cathode Materials by using LiPF₆ as a Cathode Additive. ChemElectroChem, 2019, 6, 1536-1541.	3.4	47
53	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. Nature Energy, 2019, 4, 882-890.	39.5	557
54	High-Energy Li Metal Battery with Lithiated Host. Joule, 2019, 3, 732-744.	24.0	160

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55	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. Nature Energy, 2019, 4, 187-196.	39.5	1,099
56	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. Nano Letters, 2019, 19, 538-544.	9.1	113
57	AuPd Nanoparticles Anchored on Nitrogen-Decorated Carbon Nanosheets with Highly Efficient and Selective Catalysis for the Dehydrogenation of Formic Acid. Journal of Physical Chemistry C, 2018, 122, 4792-4801.	3.1	33
58	Interphase Engineering Enabled All-Ceramic Lithium Battery. Joule, 2018, 2, 497-508.	24.0	378
59	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1706498.	21.0	134
60	Highly reversible zinc metal anode for aqueous batteries. Nature Materials, 2018, 17, 543-549.	27.5	2,080
61	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. ACS Applied Materials & Interfaces, 2018, 10, 14767-14776.	8.0	99
62	An in-situ enabled lithium metal battery by plating lithium on a copper current collector. Electrochemistry Communications, 2018, 89, 23-26.	4.7	42
63	GeP5/C composite as anode material for high power sodium-ion batteries with exceptional capacity. Journal of Alloys and Compounds, 2018, 744, 15-22.	5.5	23
64	Highly synergetic catalytic mechanism of Ni@g-C3N4 on the superior hydrogen storage performance of Li-Mg-B-H system. Energy Storage Materials, 2018, 13, 199-206.	18.0	58
65	In situ synthesized SnO2 nanorod/reduced graphene oxide low-dimensional structure for enhanced lithium storage. Nanotechnology, 2018, 29, 105705.	2.6	7
66	Non-noble trimetallic Cu-Ni-Co nanoparticles supported on metal-organic frameworks as highly efficient catalysts for hydrolysis of ammonia borane. Journal of Alloys and Compounds, 2018, 741, 501-508.	5.5	55
67	Azo compounds as a family of organic electrode materials for alkali-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2004-2009.	7.1	168
68	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. CheM, 2018, 4, 174-185.	11.7	682
69	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na,) Tj ETQq1 1 0.784314 rgBT /Ov	16.0	280
70	Self-Templated Formation of P2-type K_{0.6}CoO₂ Microspheres for High Reversible Potassium-Ion Batteries. Nano Letters, 2018, 18, 1522-1529.	9.1	167
71	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	2.0	51
72	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	13.8	177

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73	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. Energy and Environmental Science, 2018, 11, 1218-1225.	30.8	212
74	High-Performance All-Solid-State Naâ€“S Battery Enabled by Castingâ€“Annealing Technology. ACS Nano, 2018, 12, 3360-3368.	14.6	102
75	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. Joule, 2018, 2, 927-937.	24.0	303
76	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. Advanced Energy Materials, 2018, 8, 1701728.	19.5	107
77	Efficient and stable cycling of lithium metal enabled by a conductive carbon primer layer. Sustainable Energy and Fuels, 2018, 2, 163-168.	4.9	9
78	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI₂â€“DME Electrolyte. Advanced Materials, 2018, 30, 1704313.	21.0	122
79	A rechargeable aqueous Zn²⁺-battery with high power density and a long cycle-life. Energy and Environmental Science, 2018, 11, 3168-3175.	30.8	258
80	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. Science Advances, 2018, 4, eaau9245.	10.3	521
81	Synergistic Catalytic Activity of Porous Rod-like TMTiO₃ (TM = Ni and Co) for Reversible Hydrogen Storage of Magnesium Hydride. Journal of Physical Chemistry C, 2018, 122, 27973-27982.	3.1	61
82	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. Nano Energy, 2018, 53, 958-966.	16.0	227
83	Long Cycle Life All-Solid-State Sodium Ion Battery. ACS Applied Materials & Interfaces, 2018, 10, 39645-39650.	8.0	44
84	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. Joule, 2018, 2, 2178.	24.0	12
85	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. Nano Energy, 2018, 50, 431-440.	16.0	134
86	Layered P2â€Type K_{0.65}Fe_{0.5}Mn_{0.5}O₂ Microspheres as Superior Cathode for Highâ€Energy Potassiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1800219.	14.9	157
87	Facile synthesis of AuPd nanoparticles anchored on TiO2 nanosheets for efficient dehydrogenation of formic acid. Nanotechnology, 2018, 29, 335402.	2.6	14
88	Preventing lithium dendrite-related electrical shorting in rechargeable batteries by coating separator with a Li-killing additive. Journal of Materials Chemistry A, 2018, 6, 10755-10760.	10.3	59
89	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	31.5	964
90	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	12.8	136

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91	Transition metal (Co, Ni) nanoparticles wrapped with carbon and their superior catalytic activities for the reversible hydrogen storage of magnesium hydride. Physical Chemistry Chemical Physics, 2017, 19, 4019-4029.	2.8	86
92	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	12.8	251
93	Enhanced hydrogen storage properties of MgH₂ with numerous hydrogen diffusion channels provided by Na₂Ti₃O₇ nanotubes. Journal of Materials Chemistry A, 2017, 5, 6178-6185.	10.3	89
94	La2O3-modified highly dispersed AuPd alloy nanoparticles and their superior catalysis on the dehydrogenation of formic acid. International Journal of Hydrogen Energy, 2017, 42, 9353-9360.	7.1	21
95	Significantly enhanced hydrogen desorption properties of Mg(AlH4)2 nanoparticles synthesized using solvent free strategy. Progress in Natural Science: Materials International, 2017, 27, 112-120.	4.4	17
96	Carbon coated sodium-titanate nanotube as an advanced intercalation anode material for sodium-ion batteries. Journal of Alloys and Compounds, 2017, 712, 365-372.	5.5	39
97	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 14801-14807.	8.0	77
98	In situ synthesis of ultrasmall SnO2 quantum dots on nitrogen-doped reduced graphene oxide composite as high performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 727, 1-7.	5.5	22
99	High-Performance All-Inorganic Solid-State Sodiumâ€“Sulfur Battery. ACS Nano, 2017, 11, 4885-4891.	14.6	133
100	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. Nano Energy, 2017, 38, 350-357.	16.0	122
101	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6197-6202.	7.1	151
102	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. Accounts of Chemical Research, 2017, 50, 1022-1031.	15.6	105
103	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. Advanced Energy Materials, 2017, 7, 1601578.	19.5	120
104	High-Voltage Aqueous Magnesium Ion Batteries. ACS Central Science, 2017, 3, 1121-1128.	11.3	256
105	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. CheM, 2017, 3, 1050-1062.	11.7	99
106	Highly Reversible Conversion-Type FeOF Composite Electrode with Extended Lithium Insertion by Atomic Layer Deposition LiPON Protection. Chemistry of Materials, 2017, 29, 8780-8791.	6.7	41
107	Flexible Aqueous Liâ€Ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	21.0	175
108	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. ACS Nano, 2017, 11, 9048-9056.	14.6	73

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109	4.0ÂV Aqueous Li-Ion Batteries. Joule, 2017, 1, 122-132.	24.0	441
110	â€œWaterâ€inâ€Saltâ€•Electrolyte Makes Aqueous Sodiumâ€Ion Battery Safe, Green, and Longâ€Lasting. Advanced Energy Materials, 2017, 7, 1701189.	19.5	487
111	Enhanced hydrogen storage properties of a dual-cation (Li⁺, Mg²⁺) borohydride and its dehydrogenation mechanism. RSC Advances, 2017, 7, 36852-36859.	3.6	11
112	P2-type transition metal oxides for high performance Na-ion battery cathodes. Journal of Materials Chemistry A, 2017, 5, 18214-18220.	10.3	93
113	Zn/MnO₂ Battery Chemistry With H⁺ and Zn²⁺ Coinsertion. Journal of the American Chemical Society, 2017, 139, 9775-9778.	13.7	1,375
114	Synthesis of nanoscale CeAl4 and its high catalytic efficiency for hydrogen storage of sodium alanate. Rare Metals, 2017, 36, 77-85.	7.1	12
115	Functional Nanomaterials for Renewable Energy and Sustainability. Journal of Nanomaterials, 2017, 2017, 1-1.	2.7	0
116	A tin-plated copper substrate for efficient cycling of lithium metal in an anode-free rechargeable lithium battery. Electrochimica Acta, 2017, 258, 1201-1207.	5.2	102
117	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie, 2016, 128, 7252-7257.	2.0	459
118	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. ACS Nano, 2016, 10, 5567-5577.	14.6	88
119	Enhanced hydrogen desorption properties of LiBH4â€"Ca(BH4)2 by a synergetic effect of nanoconfinement and catalysis. International Journal of Hydrogen Energy, 2016, 41, 17462-17470.	7.1	24
120	Tailoring Surface Acidity of Metal Oxide for Better Polysulfide Entrapment in Liâ€S Batteries. Advanced Functional Materials, 2016, 26, 7164-7169.	14.9	95
121	A Rechargeable Al/S Battery with an Ionicâ€Liquid Electrolyte. Angewandte Chemie, 2016, 128, 10052-10055.	2.0	64
122	A Rechargeable Al/S Battery with an Ionicâ€Liquid Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 9898-9901.	13.8	215
123	Building robust architectures of carbon-wrapped transition metal nanoparticles for high catalytic enhancement of the 2LiBH₄-MgH₂system for hydrogen storage cycling performance. Nanoscale, 2016, 8, 14898-14908.	5.6	24
124	Stabilizing high voltage LiCoO₂ cathode in aqueous electrolyte with interphase-forming additive. Energy and Environmental Science, 2016, 9, 3666-3673.	30.8	190
125	Activation of Oxygenâ€Stabilized Sulfur for Li and Na Batteries. Advanced Functional Materials, 2016, 26, 745-752.	14.9	80
126	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 7136-7141.	13.8	571

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127	High-Performance All-Solid-State Lithiumâ€“Sulfur Battery Enabled by a Mixed-Conductive Li₂S Nanocomposite. Nano Letters, 2016, 16, 4521-4527.	9.1	333
128	Ternary perovskite nickel titanate/reduced graphene oxide nano-composite with improved lithium storage properties. RSC Advances, 2016, 6, 61312-61318.	3.6	21
129	In situ lithiated FeF3/C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. Journal of Power Sources, 2016, 307, 435-442.	7.8	64
130	â€œWater-in-Saltâ€•electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. Journal of Materials Chemistry A, 2016, 4, 6639-6644.	10.3	172
131	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. ACS Applied Materials & Interfaces, 2016, 8, 7147-7155.	8.0	92
132	Electrospun FeS₂@Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. ACS Nano, 2016, 10, 1529-1538.	14.6	199
133	Novel AgPd hollow spheres anchored on graphene as an efficient catalyst for dehydrogenation of formic acid at room temperature. Journal of Materials Chemistry A, 2016, 4, 657-666.	10.3	75
134	Superior Stable Selfâ€Healing SnP₃ Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500174.	19.5	197
135	Remarkably Improved Hydrogen Storage Performance of MgH₂ Catalyzed by Multivalence NbH_{<i>x</i>} Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 8554-8562.	3.1	73
136	Scalable Synthesis of Defect Abundant Si Nanorods for High-Performance Li-Ion Battery Anodes. ACS Nano, 2015, 9, 6576-6586.	14.6	92
137	Solid-State Fabrication of SnS₂/C Nanospheres for High-Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2015, 7, 11476-11481.	8.0	176
138	Red Phosphorusâ€“Single-Walled Carbon Nanotube Composite as a Superior Anode for Sodium Ion Batteries. ACS Nano, 2015, 9, 3254-3264.	14.6	359
139	Carbon cage encapsulating nano-cluster Li2S by ionic liquid polymerization and pyrolysis for high performance Liâ€“S batteries. Nano Energy, 2015, 13, 467-473.	16.0	76
140	Ether-based electrolyte enabled Na/FeS2 rechargeable batteries. Electrochemistry Communications, 2015, 54, 18-22.	4.7	121
141	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. Nano Energy, 2015, 13, 537-545.	16.0	91
142	Scalable synthesis of Na₃V₂(PO₄)₃/C porous hollow spheres as a cathode for Na-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10378-10385.	10.3	109
143	Enhanced hydrogen storage capacity and reversibility of LiBH4 nanoconfined in the densified zeolite-templated carbon with high mechanical stability. Nano Energy, 2015, 15, 244-255.	16.0	58
144	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. Nano Letters, 2015, 15, 7650-7656.	9.1	96

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145	Enhancing the Reversibility of Mg/S Battery Chemistry through Li⁺ Mediation. Journal of the American Chemical Society, 2015, 137, 12388-12393.	13.7	225
146	â€œWater-in-saltâ€•electrolyte enables high-voltage aqueous lithium-ion chemistries. Science, 2015, 350, 938-943.	12.6	2,553
147	In situ formed carbon bonded and encapsulated selenium composites for Liâ€“Se and Naâ€“Se batteries. Journal of Materials Chemistry A, 2015, 3, 555-561.	10.3	115
148	Influence of Ti super-stoichiometry on the hydrogen storage properties of Ti1+xCr1.2Mn0.2Fe0.6 (x=0â€“0.1) alloys for hybrid hydrogen storage application. Journal of Alloys and Compounds, 2014, 585, 307-311.	5.5	47
149	Improved de/hydrogenation properties and favorable reaction mechanism of CeH2Â+ÂKH co-doped sodium aluminum hydride. International Journal of Hydrogen Energy, 2014, 39, 6577-6587.	7.1	12
150	Superior dehydrogenation performance of nanoscale lithium borohydride modified with fluorographite. International Journal of Hydrogen Energy, 2014, 39, 896-904.	7.1	19
151	Enhanced reversible hydrogen storage performance of NbCl5 doped 2LiHâ€“MgB2 composite. International Journal of Hydrogen Energy, 2014, 39, 2132-2141.	7.1	10
152	Low-Temperature Reversible Hydrogen Storage Properties of LiBH₄: A Synergetic Effect of Nanoconfinement and Nanocatalysis. Journal of Physical Chemistry C, 2014, 118, 11252-11260.	3.1	51
153	In situ synthesis of SnO₂nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 18367-18374.	10.3	64
154	Carbon encapsulated 3D hierarchical Fe3O4 spheres as advanced anode materials with long cycle lifetimes for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14641-14648.	10.3	62
155	SnLi4.4 nanoparticles encapsulated in carbon matrix as high performance anode material for lithium-ion batteries. Nano Energy, 2014, 9, 196-203.	16.0	30
156	Fluorographene nanosheets enhanced hydrogen absorption and desorption performances of magnesium hydride. International Journal of Hydrogen Energy, 2014, 39, 12715-12726.	7.1	26
157	Enhanced dehydrogenation performances and mechanism of LiBH4/Mg17Al12-hydride composite. Transactions of Nonferrous Metals Society of China, 2014, 24, 152-157.	4.2	7
158	Superior Catalytic Effects of Transition Metal Boride Nanoparticles on the Reversible Hydrogen Storage Properties of Liâ€Mgâ€Bâ€H System. Particle and Particle Systems Characterization, 2014, 31, 195-200.	2.3	11
159	A low temperature mechanochemical synthesis and characterization of amorphous Niâ€“B ultrafine nanoparticles. Materials Letters, 2013, 109, 203-206.	2.6	23
160	Influence of lanthanon hydride catalysts on hydrogen storage properties of sodium alanates. Journal of Rare Earths, 2013, 31, 502-506.	4.8	8
161	Significantly improved hydrogen storage properties of NaAlH4 catalyzed by Ce-based nanoparticles. Journal of Materials Chemistry A, 2013, 1, 9752.	10.3	40
162	Enhanced hydridingâ€“dehydriding performance of a 2LiHâ€“MgB2 composite by the catalytic effects of Niâ€“B nanoparticles. Journal of Materials Chemistry A, 2013, 1, 10184.	10.3	28

#	Article	IF	Citations
163	High catalytic efficiency of amorphous TiB2 and NbB2 nanoparticles for hydrogen storage using the 2LiBH4â€“MgH2 system. Journal of Materials Chemistry A, 2013, 1, 11368.	10.3	47
164	Development of Tiâ€“Crâ€“Mnâ€“Fe based alloys with high hydrogenÂdesorption pressures for hybrid hydrogen storage vessel application. International Journal of Hydrogen Energy, 2013, 38, 12803-12810.	7.1	61
165	Size effect on hydrogen storage properties of NaAlH4 confined in uniform porous carbons. Nano Energy, 2013, 2, 995-1003.	16.0	38
166	Synergetic Effect of in Situ Formed Nano NbH and LiH_{1â€“<i>x</i>}F_{<i>x</i>} for Improving Reversible Hydrogen Storage Properties of the Liâ€“Mgâ€“Bâ€“H System. Journal of Physical Chemistry C, 2013, 117, 12019-12025.	3.1	13
167	Influence of KH on Reversible Dehydriding Performance of Na-Al-H Complex Hydride. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2013, 29, 1804-1808.	4.9	0
168	Fast hydrogen release under moderate conditions from NaBH₄ destabilized by fluorographite. RSC Advances, 2013, 4, 2550-2556.	3.6	21
169	Efficient Data Fusion Algorithm in WSNs. Journal of Networks, 2013, 8, .	0.4	0
170	Enhanced hydridingâ€“dehydriding performance of 2LiBH4â€“MgH2 composite by the catalytic effects of transition metal chlorides. Journal of Materials Chemistry, 2012, 22, 20764.	6.7	53
171	Effects of Fluoride Additives on the Hydrogen Storage Performance of 2LiBH₄â€“Li₃AlH₆ Destabilized System. Journal of Physical Chemistry C, 2012, 116, 22226-22230.	3.1	10
172	Effects of NbF5 addition on the de/rehydrogenation properties of 2LiBH4/MgH2 hydrogen storage system. International Journal of Hydrogen Energy, 2012, 37, 13147-13154.	7.1	45
173	Enhanced Hydridingâˆ’Dehydriding Performance of CeAl₂-Doped NaAlH₄ and the Evolvement of Ce-Containing Species in the Cycling. Journal of Physical Chemistry C, 2011, 115, 2537-2543.	3.1	41
174	Thermodynamics, Kinetics, and Modeling Investigation on the Dehydrogenation of CeAl₄-Doped NaAlH₄ Hydrogen Storage Material. Journal of Physical Chemistry C, 2011, 115, 22680-22687.	3.1	23
175	Investigation on the nature of active species in the CeCl3-doped sodium alanate system. Journal of Alloys and Compounds, 2011, 509, S750-S753.	5.5	19
176	Synthesis and dehydrogenation of CeAl4-doped calcium alanate. Journal of Alloys and Compounds, 2011, 509, S743-S746.	5.5	11
177	Influence of TiC catalyst on absorption/desorption behaviors and microstructures of sodium aluminum hydride. Transactions of Nonferrous Metals Society of China, 2011, 21, 1297-1302.	4.2	6
178	Hydriding-dehydriding kinetics and the microstructure of La- and Sm-doped NaAlH4 prepared via direct synthesis method. International Journal of Hydrogen Energy, 2011, 36, 10861-10869.	7.1	32
179	Direct synthesis and hydrogen storage behaviors of nanocrystalline Na2LiAlH6. Journal of Materials Science, 2011, 46, 3314-3318.	3.7	8
180	Synthesis and hydriding/dehydriding properties of nanosized sodium alanates prepared by reactive ball-milling. International Journal of Hydrogen Energy, 2011, 36, 539-548.	7.1	12

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181	Direct synthesis of nanocrystalline NaAlH4 complex hydride for hydrogen storage. Applied Physics Letters, 2009, 94, 041907.	3.3	34
182	Reversible hydrogen storage behaviors and microstructure of TiC-doped sodium aluminum hydride. Journal of Materials Science, 2009, 44, 4700-4704.	3.7	21
183	Catalytic Mechanism of New TiC-Doped Sodium Alanate for Hydrogen Storage. Journal of Physical Chemistry C, 2009, 113, 20745-20751.	3.1	46
184	Active species of CeAl4 in the CeCl3-doped sodium aluminium hydride and its enhancement on reversible hydrogen storage performance. Chemical Communications, 2009, , 6857.	4.1	54
185	Microstructure and electrochemical behavior of Cr-added V2.1TiNi0.4Zr0.06Cr0.152 hydrogen storage electrode alloy. International Journal of Hydrogen Energy, 2007, 32, 2434-2438.	7.1	8