

Hongge Pan

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.

158
papers

5,613
citations

40
h-index

68
g-index

166
ext. papers

7,093
ext. citations

10.9
avg, IF

6.17
L-index

#	Paper	IF	Citations
158	Catalyzed LiBH ₄ Hydrogen Storage System with In Situ Introduced Li ₃ BO ₃ and V for Enhanced Dehydrogenation and Hydrogenation Kinetics as Well as High Cycling Stability. <i>ACS Applied Energy Materials</i> , 2022 , 5, 1226-1234	6.1	1
157	A Redox Couple Strategy Enables Long-Cycling Li- and Mn-Rich Layered Oxide Cathodes by Suppressing Oxygen Release.. <i>Advanced Materials</i> , 2022 , e2108543	24	6
156	Hierarchical conformal coating enables highly stable microparticle Si anodes for advanced Li-ion batteries. <i>Applied Materials Today</i> , 2022 , 26, 101403	6.6	2
155	Hybrid Design of Bulk-Na Metal Anode to Minimize Cycle-Induced Interface Deterioration of Solid Na Metal Battery. <i>Advanced Energy Materials</i> , 2022 , 12, 2102579	21.8	5
154	In-situ introduction of highly active TiO for enhancing hydrogen storage performance of LiBH ₄ . <i>Chemical Engineering Journal</i> , 2022 , 433, 134485	14.7	2
153	Controllable synthesis of 2D TiH ₂ nanoflakes with superior catalytic activity for low-temperature hydrogen cycling of NaAlH ₄ . <i>Chemical Engineering Journal</i> , 2022 , 427, 131546	14.7	3
152	A nanoconfined-LiBH ₄ system using a unique multifunctional porous scaffold of carbon wrapped ultrafine Fe ₃ O ₄ skeleton for reversible hydrogen storage with high capacity. <i>Chemical Engineering Journal</i> , 2022 , 428, 131056	14.7	6
151	A Unique Nanoflake-Shape Bimetallic Ti-Nb Oxide of Superior Catalytic Effect for Hydrogen Storage of MgH ₂ .. <i>Small</i> , 2022 , e2107013	11	4
150	Ion Hopping: Design Principles for Strategies to Improve Ionic Conductivity for Inorganic Solid Electrolytes.. <i>Small</i> , 2022 , e2107064	11	3
149	Ultrafast hydrogenation of magnesium enabled by tetragonal ZrO ₂ hierarchical nanoparticles. <i>Materials Today Nano</i> , 2022 , 100200	9.7	3
148	Interaction of metallic magnesium with ammonia: Mechanochemical synthesis of Mg(NH ₂) ₂ for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164397	5.7	2
147	Cobalt Single Atoms Enabling Efficient Methanol Oxidation Reaction on Platinum Anchored on Nitrogen-Doped Carbon.. <i>Small</i> , 2022 , e2107067	11	2
146	Titanium Hydride Nanoplates Enable 5 wt% of Reversible Hydrogen Storage by Sodium Alanate below 80°C.. <i>Research</i> , 2021 , 2021, 9819176	7.8	1
145	Co/CoP Heterojunction on Hierarchically Ordered Porous Carbon as a Highly Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021 , 11, 2102134	21.8	23
144	Non-Platinum Group Metal Electrocatalysts toward Efficient Hydrogen Oxidation Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2010633	15.6	19
143	A Novel Perovskite Electron-Ion Conductive Coating to Simultaneously Enhance Cycling Stability and Rate Capability of Li Ni Co Mn O Cathode Material for Lithium-Ion Batteries. <i>Small</i> , 2021 , 17, e2008132	11	12
142	Solid State Electrolytes: Amorphous Dual-Layer Coating: Enabling High Li-Ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte (Adv. Funct. Mater. 15/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170100	15.6	4

141	Recent Development of Lithium Borohydride-Based Materials for Hydrogen Storage. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100073	1.6	10
140	Enhanced Hydrogen Storage Performance of MgH ₂ by the Catalysis of a Novel Intersected Y ₂ O ₃ /NiO Hybrid. <i>Processes</i> , 2021 , 9, 892	2.9	10
139	2D Metal-Free Nanomaterials Beyond Graphene and Its Analogues toward Electrocatalysis Applications. <i>Advanced Energy Materials</i> , 2021 , 11, 2101202	21.8	8
138	Atomic-Level Modulation of the Interface Chemistry of Platinum-Nickel Oxide toward Enhanced Hydrogen Electrocatalysis Kinetics. <i>Nano Letters</i> , 2021 , 21, 4845-4852	11.5	15
137	Manipulating the Coordination Chemistry of Ru ⁿ (O) _n C Moieties for Fast Alkaline Hydrogen Evolution Kinetics. <i>Advanced Functional Materials</i> , 2021 , 31, 2100698	15.6	22
136	High-loading, ultrafine Ni nanoparticles dispersed on porous hollow carbon nanospheres for fast (de)hydrogenation kinetics of MgH ₂ . <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	6
135	Porous Carbon Architecture Assembled by Cross-Linked Carbon Leaves with Implanted Atomic Cobalt for High-Performance Li-S Batteries. <i>Nano-Micro Letters</i> , 2021 , 13, 151	19.5	13
134	A novel surface modification strategy for Li-rich Mn-based layered oxide cathodes of high-capacity and high-cyclic stability by an additive of LiBH ₄ to the electrolyte. <i>Functional Materials Letters</i> , 2021 , 14, 2140003	1.2	0
133	Conversion-Alloying Anode Materials for Sodium Ion Batteries. <i>Small</i> , 2021 , 17, e2101137	11	27
132	Graphene-induced growth of N-doped niobium pentaoxide nanorods with high catalytic activity for hydrogen storage in MgH ₂ . <i>Chemical Engineering Journal</i> , 2021 , 406, 126831	14.7	33
131	Synthesis process and catalytic activity of Nb ₂ O ₅ hollow spheres for reversible hydrogen storage of MgH ₂ . <i>International Journal of Energy Research</i> , 2021 , 45, 3129-3141	4.5	10
130	Highly active multivalent multielement catalysts derived from hierarchical porous TiNb ₂ O ₇ nanospheres for the reversible hydrogen storage of MgH ₂ . <i>Nano Research</i> , 2021 , 14, 148-156	10	24
129	TiO ₂ decorated porous carbonaceous network structures offer confinement, catalysis and thermal conductivity for effective hydrogen storage of LiBH ₄ . <i>Chemical Engineering Journal</i> , 2021 , 407, 127156	14.7	16
128	Realizing 6.7 wt% reversible storage of hydrogen at ambient temperature with non-confined ultrafine magnesium hydrides. <i>Energy and Environmental Science</i> , 2021 , 14, 2302-2313	35.4	60
127	Interface Engineering of Air Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002762	21.8	47
126	Amorphous Dual-Layer Coating: Enabling High Li-Ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2009692	15.6	11
125	Single-Atom Electrocatalysts for Multi-Electron Reduction of CO. <i>Small</i> , 2021 , 17, e2101443	11	16
124	Impact of residual gas on the optoelectronic properties of Cs-sensitized InGaAs (001) surface. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 47-53	9.3	2

123	Reversible Magnesium Metal Anode Enabled by Cooperative Solvation/Surface Engineering in Carbonate Electrolytes. <i>Nano-Micro Letters</i> , 2021 , 13, 195	19.5	7
122	Lattice-Confined Ir Clusters on Pd Nanosheets with Charge Redistribution for the Hydrogen Oxidation Reaction under Alkaline Conditions. <i>Advanced Materials</i> , 2021 , 33, e2105400	24	20
121	A Novel Tin-Bonded Silicon Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45578-45588	9.5	8
120	Non-carbon-supported single-atom site catalysts for electrocatalysis. <i>Energy and Environmental Science</i> , 2021 , 14, 2809-2858	35.4	66
119	Green synthesis of graphite from CO without graphitization process of amorphous carbon. <i>Nature Communications</i> , 2021 , 12, 119	17.4	36
118	Amorphous-Carbon-Supported Ultrasmall TiB Nanoparticles With High Catalytic Activity for Reversible Hydrogen Storage in NaAlH ₄ . <i>Frontiers in Chemistry</i> , 2020 , 8, 419	5	6
117	LiBH ₄ Nanoconfined in Porous Hollow Carbon Nanospheres with High Loading, Low Dehydrogenation Temperature, Superior Kinetics, and Favorable Reversibility. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3928-3938	6.1	20
116	Hydrogen Pressure-Dependent Dehydrogenation Performance of the Mg(NH)-2LiH-0.07KOH System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15255-15261	9.5	4
115	A Unique Double-Layered Carbon Nanobowl-Confined Lithium Borohydride for Highly Reversible Hydrogen Storage. <i>Small</i> , 2020 , 16, e2001963	11	17
114	In Situ Introduction of LiBO and NbH Leads to Superior Cyclic Stability and Kinetics of a LiBH-Based Hydrogen Storage System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 893-903	9.5	11
113	Incorporation of Ammonia Borane Groups in the Lithium Borohydride Structure Enables Ultrafast Lithium Ion Conductivity at Room Temperature for Solid-State Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 671-678	9.6	22
112	Hexagonal Boron Nitride as a Multifunctional Support for Engineering Efficient Electrocatalysts toward the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2020 , 20, 6807-6814	11.5	50
111	Higher Than 90% Initial Coulombic Efficiency with Staghorn-Coral-Like 3D Porous LiFeO as Anode Materials for Li-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908285	24	19
110	Superior Kinetic and Cyclic Performance of a 2D Titanium Carbide Incorporated 2LiH + MgB ₂ Composite toward Highly Reversible Hydrogen Storage. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4853-4864	6.1	19
109	In situ formed ultrafine NbTi nanocrystals from a NbTiC solid-solution MXene for hydrogen storage in MgH ₂ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14244-14252	13	63
108	Si/Ti ₃ SiC ₂ composite anode with enhanced elastic modulus and high electronic conductivity for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 431, 55-62	8.9	23
107	Bi-structural fibers of carbon nanotube coated with nitrogen/oxygen dual-doped porous carbon layer as superior sulfur host for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1205-1215	5.7	32
106	Na ₂ Fe(SO ₄) ₂ : an anhydrous 3.6 V, low-cost and good-safety cathode for a rechargeable sodium-ion battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13197-13204	13	17

105	Nanosheet-like Lithium Borohydride Hydrate with 10 wt % Hydrogen Release at 70 °C as a Chemical Hydrogen Storage Candidate. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1872-1877	6.4	11
104	Intercalation Pseudocapacitance Boosting Ultrafast Sodium Storage in Prussian Blue Analogs. <i>ChemSusChem</i> , 2019 , 12, 2415-2420	8.3	10
103	Triggering highly stable catalytic activity of metallic titanium for hydrogen storage in NaAlH ₄ by preparing ultrafine nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4651-4659	13	24
102	Low-Coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 12670-12674	3.6	11
101	Low-Coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12540-12544	16.4	122
100	An eggshell-structured N-doped silicon composite anode with high anti-pulverization and favorable electronic conductivity. <i>Journal of Power Sources</i> , 2019 , 443, 227265	8.9	14
99	Remarkably Improved Cycling Stability of Boron-Strengthened Multicomponent Layer Protected Micron-Si Composite Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19167-19175	8.3	7
98	Enabling Full Conversion Reaction with High Reversibility to Approach Theoretical Capacity for Sodium Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1906680	15.6	18
97	A Novel Multielement, Multiphase, and B-Containing SiO _x Composite as a Stable Anode Material for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801631	4.6	25
96	Valleytronics in thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	67
95	Facile Synthesis and Superior Catalytic Activity of Nano-TiN@N-C for Hydrogen Storage in NaAlH ₄ . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15767-15777	9.5	29
94	Prussian Blue Analogs for Rechargeable Batteries. <i>Science</i> , 2018 , 3, 110-133	6.1	208
93	Gradient substitution: an intrinsic strategy towards high performance sodium storage in Prussian blue-based cathodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8947-8954	13	39
92	Insight into the synergistic effect mechanism between the Li ₂ MO ₃ phase and the LiMO ₂ phase (M = Ni, Co, and Mn) in Li- and Mn-rich layered oxide cathode materials. <i>Electrochimica Acta</i> , 2018 , 266, 66-77	6.7	20
91	Tuning Li ₂ MO ₃ phase abundance and suppressing migration of transition metal ions to improve the overall performance of Li- and Mn-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2018 , 380, 1-11	8.9	25
90	A novel strategy to significantly enhance the initial voltage and suppress voltage fading of a Li- and Mn-rich layered oxide cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3610-3624	13	68
89	Synthesis and thermal decomposition properties of a novel dual-cation/anion complex hydride Li ₂ Mg(BH ₄) ₂ (NH ₂) ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13981-13989	6.7	4
88	Development of Catalyst-Enhanced Sodium Alanate as an Advanced Hydrogen-Storage Material for Mobile Applications. <i>Energy Technology</i> , 2018 , 6, 487-500	3.5	44

87	Superior catalytic activity of in situ reduced metallic Co for hydrogen storage in a Co(OH) ₂ -containing LiBH ₄ /2LiNH ₂ composite. <i>Materials Research Bulletin</i> , 2018 , 97, 544-552	5.1	11
86	Enhanced hydrogen storage properties of MgH ₂ catalyzed with carbon-supported nanocrystalline TiO ₂ . <i>Journal of Power Sources</i> , 2018 , 398, 183-192	8.9	113
85	Superior long-term cyclability of a nanocrystalline NiO anode enabled by a mechanochemical reaction-induced amorphous protective layer for Li-ion batteries. <i>Journal of Power Sources</i> , 2018 , 397, 134-142	8.9	34
84	Li- and Mn-rich layered oxide cathode materials for lithium-ion batteries: a review from fundamentals to research progress and applications. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 748-803	4.6	87
83	Vanadium oxide nanoparticles supported on cubic carbon nanoboxes as highly active catalyst precursors for hydrogen storage in MgH ₂ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16177-16185	13	71
82	Dispersion-strengthened microparticle silicon composite with high anti-pulverization capability for Li-ion batteries. <i>Energy Storage Materials</i> , 2018 , 14, 279-288	19.4	31
81	A novel solid-solution MXene (Ti _{0.5} V _{0.5}) ₃ C ₂ with high catalytic activity for hydrogen storage in MgH ₂ . <i>Materialia</i> , 2018 , 1, 114-120	3.2	32
80	A novel complex oxide TiVO _{3.5} as a highly active catalytic precursor for improving the hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23327-23335	6.7	43
79	Solid-State Sintering Strategy for Simultaneous Nanosizing and Surface Coating of Iron Oxides as High-Capacity Anodes for Long-Life Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6330-6337	6.1	5
78	Reaction-Ball-Milling-Driven Surface Coating Strategy to Suppress Pulverization of Microparticle Si Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20591-20598	9.5	23
77	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66
76	A mechanochemical synthesis of submicron-sized Li ₂ S and a mesoporous Li ₂ S/C hybrid for high performance lithium/sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6471-6482	13	30
75	Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithium-Sulfur Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10717-10729	9.5	62
74	Linking particle size to improved electrochemical performance of SiO anodes for Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 2273-2280	3.7	21
73	Mechanistic insights into the remarkable catalytic activity of nanosized Co@C composites for hydrogen desorption from the LiBH ₄ /LiNH ₂ system. <i>Catalysis Science and Technology</i> , 2017 , 7, 1838-1847	5.5	8
72	A New Strategy to Effectively Suppress the Initial Capacity Fading of Iron Oxides by Reacting with LiBH ₄ . <i>Advanced Functional Materials</i> , 2017 , 27, 1700342	15.6	36
71	Highly Stable Cycling of Amorphous Li ₂ CO ₃ -Coated Fe ₂ O ₃ Nanocrystallines Prepared via a New Mechanochemical Strategy for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605011	15.6	46
70	Monoclinic Phase Na ₃ Fe ₂ (PO ₄) ₃ : Synthesis, Structure, and Electrochemical Performance as Cathode Material in Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1306-1314	8.3	51

69	In Situ Encapsulation of the Nanoscale ErO Phase To Drastically Suppress Voltage Fading and Capacity Degradation of a Li- and Mn-Rich Layered Oxide Cathode for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33863-33875	9.5	34
68	Room Temperature Conversion of Carbon Dioxide into Fuel Gases by Mechanochemically Reacting with Metal Hydrides. <i>ChemistrySelect</i> , 2017 , 2, 5244-5247	1.8	9
67	Improved overall hydrogen storage properties of a CsH and KH co-doped Mg(NH ₂) ₂ /2LiH system by forming mixed amides of LiK and CsMg. <i>RSC Advances</i> , 2017 , 7, 30357-30364	3.7	5
66	Novel MAX-phase Ti ₃ AlC ₂ catalyst for improving the reversible hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4244-4251	6.7	30
65	A Novel Strategy to Suppress Capacity and Voltage Fading of Li- and Mn-Rich Layered Oxide Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601066	21.8	113
64	Remarkably improved hydrogen storage properties of NaAlH ₄ doped with 2D titanium carbide. <i>Journal of Power Sources</i> , 2016 , 327, 519-525	8.9	57
63	Preparation and Catalytic Activity of a Novel Nanocrystalline ZrO @C Composite for Hydrogen Storage in NaAlH. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3541-3549	4.5	14
62	Superior catalytic activity derived from a two-dimensional Ti ₃ C ₂ precursor towards the hydrogen storage reaction of magnesium hydride. <i>Chemical Communications</i> , 2016 , 52, 705-8	5.8	160
61	Achieving ambient temperature hydrogen storage in ultrafine nanocrystalline TiO ₂ @C-doped NaAlH ₄ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1087-1095	13	39
60	An ultrasound-assisted wet-chemistry approach towards uniform Mg(BH ₄) ₂ ·6NH ₃ nanoparticles with improved dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8366-8373	13	15
59	Tailoring Thermodynamics and Kinetics for Hydrogen Storage in Complex Hydrides towards Applications. <i>Chemical Record</i> , 2016 , 16, 189-204	6.6	49
58	Fluorine-substituted Mg(BH ₄) ₂ ·2NH ₃ with improved dehydrogenation properties for hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 570-578	13	20
57	Improved hydrogen storage properties of combined Ca(BH ₄) ₂ and LiBH ₄ system motivated by addition of LaMg ₃ assisted with ball milling in H ₂ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12325-12335	6.7	8
56	New insights into the effects of NaCl and LiCl on the hydrogen storage behaviours of a 6LiBH ₄ ·Mg(AlH ₄) ₂ composite. <i>RSC Advances</i> , 2015 , 5, 12144-12151	3.7	9
55	LiBi-alloy-assisted improvement in the intrinsic cyclability of Mg ₂ Si as an anode material for Li-ion batteries. <i>Acta Materialia</i> , 2015 , 98, 128-134	8.4	21
54	Composition-Dependent Reaction Pathways and Hydrogen Storage Properties of LiBH ₄ /Mg(AlH ₄) ₂ Composites. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2452-9	4.5	5
53	Ultrafine Nanocrystalline CeO ₂ @C-Containing NaAlH ₄ with Fast Kinetics and Good Reversibility for Hydrogen Storage. <i>ChemSusChem</i> , 2015 , 8, 4180-8	8.3	19
52	Synthesis temperature dependence of the structural and electrochemical properties of Mg ₂ Si anodic materials prepared via a hydrogen-driven chemical reaction. <i>Ionics</i> , 2015 , 21, 2439-2445	2.7	3

51	Mesoporous Fe ₂ O ₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14178-14187	13	37
50	A hybrid Si@FeSi _y /SiO _x anode structure for high performance lithium-ion batteries via ammonia-assisted one-pot synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10767-10776	13	43
49	Towards the endothermic dehydrogenation of nanoconfined magnesium borohydride ammoniate. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11057-11065	13	19
48	Chemical vapor deposition prepared bi-morphological carbon-coated Fe ₃ O ₄ composites as anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 282, 257-264	8.9	61
47	Remarkably improved hydrogen storage properties of nanocrystalline TiO ₂ -modified NaAlH ₄ and evolution of Ti-containing species during dehydrogenation/hydrogenation. <i>Nano Research</i> , 2015 , 8, 533-545	19.5	40
46	Synthesis, Structure Transformation, and Electrochemical Properties of Li ₂ MgSi as a Novel Anode for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 3944-3952	15.6	36
45	Reversible hydrogen storage behavior of LiBH ₄ /Mg(OH) ₂ composites. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7868-7875	6.7	15
44	Significantly improved kinetics, reversibility and cycling stability for hydrogen storage in NaAlH ₄ with the Ti-incorporated metal organic framework MIL-125(Ti). <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1847-1854	13	22
43	An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 135-43	3.6	28
42	Highly dispersed NiS nanoparticles in porous carbon matrices by a template metal-organic framework method for lithium-ion cathode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7912	13	80
41	Role of Co ₃ O ₄ in improving the hydrogen storage properties of a LiBH ₄ /LiNH ₂ composite. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11155	13	20
40	In situ formation of lithium fast-ion conductors and improved hydrogen desorption properties of the LiNH ₂ /MgH ₂ system with the addition of lithium halides. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3155	13	36
39	Porous anatase TiO ₂ constructed from a metal-organic framework for advanced lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12571	13	128
38	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
37	High-temperature failure behaviour and mechanism of K-based additives in Li/Mg/Ni hydrogen storage systems. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7345-7353	13	23
36	A facile method for determining a suitable voltage window for an amorphous Li ₁₂ Si ₇ anode. <i>Electrochimica Acta</i> , 2014 , 129, 373-378	6.7	12
35	Mg ₂ Si anode for Li-ion batteries: Linking structural change to fast capacity fading. <i>Applied Physics Letters</i> , 2014 , 105, 213901	3.4	20
34	High performance amorphous-Si@SiO _x /C composite anode materials for Li-ion batteries derived from ball-milling and in situ carbonization. <i>Journal of Power Sources</i> , 2014 , 256, 190-199	8.9	174

33	Hydrogen storage properties and mechanisms of Mg(BH ₄) ₂ ?2NH ₃ ?MgH ₂ combination systems. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 674-680	5.7	24
32	A facile synthesis of Fe ₃ O ₄ /C composite with high cycle stability as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 239, 466-474	8.9	127
31	Ca(BH ₄) ₂ ?iBH ₄ ?MgH ₂ : a novel ternary hydrogen storage system with superior long-term cycling performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12285	13	33
30	Understanding the role of K in the significantly improved hydrogen storage properties of a KOH-doped Li?Mg?N?H system. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5031	13	44
29	Improved hydrogen storage performance of Ca(BH ₄) ₂ : a synergetic effect of porous morphology and in situ formed TiO ₂ . <i>Energy and Environmental Science</i> , 2013 , 6, 847	35.4	34
28	Improved hydrogen storage kinetics of the Li-Mg-N-H system by addition of Mg(BH ₄) ₂ . <i>Dalton Transactions</i> , 2013 , 42, 3802-11	4.3	58
27	Lithium alloys and metal oxides as high-capacity anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 246-256	5.7	199
26	Chemical Preinsertion of Lithium: An Approach to Improve the Intrinsic Capacity Retention of Bulk Si Anodes for Li-ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3555-8	6.4	44
25	Improved lithium storage properties of Mg ₂ Si anode material synthesized by hydrogen-driven chemical reaction. <i>Electrochemistry Communications</i> , 2012 , 25, 15-18	5.1	20
24	Improved Hydrogen Storage Properties of LiBH ₄ Destabilized by in Situ Formation of MgH ₂ and LaH ₃ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1588-1595	3.8	65
23	Hydrogen storage properties and mechanisms of the Mg(BH ₄) ₂ ?NaAlH ₄ system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17137-17145	6.7	32
22	A high-strength SiCw/SiC?Bi composite derived from pyrolyzed rice husks by liquid silicon infiltration. <i>Journal of Materials Science</i> , 2012 , 47, 4921-4927	4.3	13
21	Advanced hydrogen storage alloys for Ni/MH rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4743-4755		386
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18	Mechanisms for the enhanced hydrogen desorption performance of the TiF ₄ -catalyzed Na ₂ LiAlH ₆ used for hydrogen storage. <i>Energy and Environmental Science</i> , 2010 , 3, 645	35.4	52
17	Effects of triphenyl phosphate on the hydrogen storage performance of the Mg(NH ₂) ₂ ?LiH system. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2141		29
16	SYNTHESIS AND CHARACTERIZATION OF LiFePO ₄ /C PREPARED VIA A SOL?GEL METHOD. <i>Surface Review and Letters</i> , 2008 , 15, 133-138	1.1	7

15	Cycling durability and degradation behavior of LaMgNiCo-type metal hydride electrodes. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 291-299	5.7	92
14	A Study of the Structural and Electrochemical Properties of La _{0.7} Mg _{0.3} (Ni _{0.85} Co _{0.15}) _x (x=2.5-5.0) Hydrogen Storage Alloys. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A565	3.9	152
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12	Hierarchical Ion/Electron Networks Enable Efficient Red Phosphorus Anode with High Mass Loading for Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2110444	15.6	4
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10	A Unique Structural Highly Compacted Binder-Free Silicon-Based Anode with High Electronic Conductivity for High-Performance Lithium-Ion Batteries. <i>Small Structures</i> , 2100174	8.7	8
9	Structural Engineering in Graphite-Based Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2107277	15.6	8
8	Homogeneous Na Deposition Enabling High-Energy Na-Metal Batteries. <i>Advanced Functional Materials</i> , 2110280	15.6	6
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4	Enriched d-Band Holes Enabling Fast Oxygen Evolution Kinetics on Atomic-Layered Defect-Rich Lithium Cobalt Oxide Nanosheets. <i>Advanced Functional Materials</i> , 2200663	15.6	3
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