Yong-Feng Liu

List of Publications by Year
in descending order

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239 papers	10,792 citations	29994 54 h-index	51492 86 g-index
247 all docs	247 docs citations	247 times ranked	5906 citing authors

#	Article	IF	Citations
1	Advanced hydrogen storage alloys for Ni/MH rechargeable batteries. Journal of Materials Chemistry, 2011, 21, 4743-4755.	6.7	440
2	Rare earthâ€“Mgâ€“Ni-based hydrogen storage alloys as negative electrode materials for Ni/MH batteries. Journal of Alloys and Compounds, 2011, 509, 675-686.	2.8	266
3	Lithium alloys and metal oxides as high-capacity anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2013, 575, 246-256.	2.8	233
4	Superior catalytic activity derived from a two-dimensional Ti₃C₂ precursor towards the hydrogen storage reaction of magnesium hydride. Chemical Communications, 2016, 52, 705-708.	2.2	220
5	High performance amorphous-Si@SiO /C composite anode materials for Li-ion batteries derived from ball-milling and in situ carbonization. Journal of Power Sources, 2014, 256, 190-199.	4.0	208
6	Size-Dependent Kinetic Enhancement in Hydrogen Absorption and Desorption of the Liâˆ'Mgâˆ'Nâˆ'H System. Journal of the American Chemical Society, 2009, 131, 1862-1870.	6.6	193
7	Realizing 6.7 wt% reversible storage of hydrogen at ambient temperature with non-confined ultrafine magnesium hydrides. Energy and Environmental Science, 2021, 14, 2302-2313.	15.6	186
8	Potassiumâ€Modified Mg(NH₂)₂/2â€‰LiH System for Hydrogen Storage. Angewandte Chemie - International Edition, 2009, 48, 5828-5832.	7.2	181
9	Enhanced hydrogen storage properties of MgH 2 catalyzed with carbon-supported nanocrystalline TiO 2. Journal of Power Sources, 2018, 398, 183-192.	4.0	176
10	A Study of the Structural and Electrochemical Properties of La[sub 0.7]Mg[sub 0.3](Ni[sub) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 T 2003, 150, A565.	1.3	164
11	An investigation on the structural and electrochemical properties of La0.7Mg0.3(Ni0.85Co0.15)x (x=3.15â€“3.80) hydrogen storage electrode alloys. Journal of Alloys and Compounds, 2003, 351, 228-234.	2.8	146
12	A Novel Strategy to Suppress Capacity and Voltage Fading of Liâ€•and Mnâ€Rich Layered Oxide Cathode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1601066.	10.2	141
13	A facile synthesis of Fe3O4/C composite with high cycle stability as anode material for lithium-ion batteries. Journal of Power Sources, 2013, 239, 466-474.	4.0	139
14	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. Nature Communications, 2014, 5, 3519.	5.8	136
15	Li- and Mn-rich layered oxide cathode materials for lithium-ion batteries: a review from fundamentals to research progress and applications. Molecular Systems Design and Engineering, 2018, 3, 748-803.	1.7	127
16	Preparation of mesohollow and microporous carbon nanofiber and its application in cathode material for lithiumâ€“sulfur batteries. Journal of Alloys and Compounds, 2014, 608, 220-228.	2.8	125
17	<i>In situ</i> formed ultrafine NbTi nanocrystals from a NbTiC solid-solution MXene for hydrogen storage in MgH₂. Journal of Materials Chemistry A, 2019, 7, 14244-14252.	5.2	114
18	Vanadium oxide nanoparticles supported on cubic carbon nanoboxes as highly active catalyst precursors for hydrogen storage in MgH₂. Journal of Materials Chemistry A, 2018, 6, 16177-16185.	5.2	113

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19	Tuning Surface Structure and Strain in Pdâ€“Pt Coreâ€“Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction. Small, 2017, 13, 1603423.	5.2	104
20	Hydrogen Release from Mg(NH2)2â^'MgH2through Mechanochemical Reaction. Journal of Physical Chemistry B, 2006, 110, 14688-14692.	1.2	103
21	Improvement of Hydrogen Storage Properties of the Liâ€“Mgâ€“Nâ€“H System by Addition of LiBH₄. Chemistry of Materials, 2008, 20, 4398-4402.	3.2	102
22	The effect of Mn substitution for Ni on the structural and electrochemical properties of La0.7Mg0.3Ni2.55â^'xCo0.45Mnx hydrogen storage electrode alloys. International Journal of Hydrogen Energy, 2004, 29, 297-305.	3.8	101
23	Cycling durability and degradation behavior of Laâ€“Mgâ€“Niâ€“Co-type metal hydride electrodes. Journal of Alloys and Compounds, 2005, 395, 291-299.	2.8	100
24	Metalâ€“Nâ€“H systems for the hydrogen storage. Scripta Materialia, 2007, 56, 817-822.	2.6	90
25	Recently developed strategies to restrain dendrite growth of Li metal anodes for rechargeable batteries. Rare Metals, 2020, 39, 616-635.	3.6	89
26	Graphene-induced growth of N-doped niobium pentaoxide nanorods with high catalytic activity for hydrogen storage in MgH2. Chemical Engineering Journal, 2021, 406, 126831.	6.6	89
27	Structural and Compositional Changes during Hydrogenation/Dehydrogenation of the Liâ^'Mgâ^'Nâ^'H System. Journal of Physical Chemistry C, 2007, 111, 18439-18443.	1.5	85
28	Ultrafine SnO2 dispersed carbon matrix composites derived by a solâ€“gel method as anode materials for lithium ion batteries. Electrochimica Acta, 2010, 55, 9067-9074.	2.6	85
29	Effect of Co content on the structural and electrochemical properties of the La0.7Mg0.3Ni3.4â^'xMn0.1Cox hydride alloys. Journal of Alloys and Compounds, 2004, 376, 304-313.	2.8	79
30	A novel catalyst precursor K₂TiF₆with remarkable synergetic effects of K, Ti and F together on reversible hydrogen storage of NaAlH₄. Chemical Communications, 2011, 47, 1740-1742.	2.2	78
31	Remarkably improved hydrogen storage properties of NaAlH4 doped with 2D titanium carbide. Journal of Power Sources, 2016, 327, 519-525.	4.0	78
32	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. Journal of Materials Chemistry A, 2018, 6, 3610-3624.	5.2	78
33	A novel solid-solution MXene (Ti0.5V0.5)3C2 with high catalytic activity for hydrogen storage in MgH2. Materialia, 2018, 1, 114-120.	1.3	78
34	Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithiumâ€“Sulfur Battery Cathodes. ACS Applied Materials & Interfaces, 2017, 9, 10717-10729.	4.0	77
35	Improved Hydrogen Storage Properties of LiBH₄ Destabilized by in Situ Formation of MgH₂ and LaH₃. Journal of Physical Chemistry C, 2012, 116, 1588-1595.	1.5	74
36	Liâ€“Mgâ€“Nâ€“H-based combination systems for hydrogen storage. Journal of Alloys and Compounds, 2011, 509, 7844-7853.	2.8	73

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37	A novel complex oxide TiVO3.5 as a highly active catalytic precursor for improving the hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2018, 43, 23327-23335.	3.8	73
38	XRD study on the electrochemical hydriding/dehydriding behavior of the Laâ€"Mgâ€"Niâ€"Co-type hydrogen storage alloys. Journal of Alloys and Compounds, 2005, 403, 296-304.	2.8	70
39	Development of Catalystâ€Enhanced Sodium Alanate as an Advanced Hydrogenâ€Storage Material for Mobile Applications. Energy Technology, 2018, 6, 487-500.	1.8	70
40	Enabling a Stable Room-Temperature Sodiumâ€"Sulfur Battery Cathode by Building Heterostructures in Multichannel Carbon Fibers. ACS Nano, 2021, 15, 5639-5648.	7.3	70
41	Function of Al on the cycling behavior of the Laâ€"Mgâ€"Niâ€"Co-type alloy electrodes. International Journal of Hydrogen Energy, 2008, 33, 124-133.	3.8	69
42	Hydrogen Storage in a LiNH2âˆ'MgH2 (1:1) System. Chemistry of Materials, 2008, 20, 3521-3527.	3.2	69
43	Highly active multivalent multielement catalysts derived from hierarchical porous TiNb2O7 nanospheres for the reversible hydrogen storage of MgH2. Nano Research, 2021, 14, 148-156.	5.8	68
44	Nitrogen-stimulated superior catalytic activity of niobium oxide for fast full hydrogenation of magnesium at ambient temperature. Energy Storage Materials, 2019, 23, 79-87.	9.5	67
45	Effect of the cerium content on the structural and electrochemical properties of the La0.7âˆ'xCexMg0.3Ni2.875Mn0.1Co0.525 (x=0â€"0.5) hydrogen storage alloys. Journal of Alloys and Compounds, 2004, 373, 237-245.	2.8	65
46	Chemical vapor deposition prepared bi-morphological carbon-coated Fe3O4 composites as anode materials for lithium-ion batteries. Journal of Power Sources, 2015, 282, 257-264.	4.0	65
47	Improved hydrogen storage kinetics of the Liâ€"Mgâ€"Nâ€"H system by addition of Mg(BH₄)₂. Dalton Transactions, 2013, 42, 3802-3811.	1.6	64
48	FeO/C anode materials of high capacity and cycle stability for lithium-ion batteries synthesized by carbothermal reduction. Journal of Alloys and Compounds, 2013, 565, 97-103.	2.8	64
49	Metathesis Reaction-Induced Significant Improvement in Hydrogen Storage Properties of the KF-Added Mg(NH2)2â€"2LiH System. Journal of Physical Chemistry C, 2013, 117, 866-875.	1.5	59
50	Electrochemical Properties of the La[sub 0.7]Mg[sub 0.3]Ni[sub 2.65âˆ'x]Mn[sub 0.1]Co[sub 0.75]Al[sub x] (xâ€,=â€,0-0.5) Hydrogen Storage Alloy Electrodes. Journal of the Electrochemical Society, 2005, 152, A326.	1.3	58
51	Degradation Mechanism of the La-Mg-Ni-Based Metal Hydride Electrode La[sub 0.7]Mg[sub 0.3]Ni[sub 3.4]Mn[sub 0.1]. Journal of the Electrochemical Society, 2005, 152, A1089.	1.3	58
52	Mechanisms for the enhanced hydrogen desorption performance of the TiF4-catalyzed Na2LiAlH6 used for hydrogen storage. Energy and Environmental Science, 2010, 3, 645.	15.6	58
53	Tailoring Thermodynamics and Kinetics for Hydrogen Storage in Complex Hydrides towards Applications. Chemical Record, 2016, 16, 189-204.	2.9	58
54	The electrochemical performance of a Laâ€"Mgâ€"Niâ€"Coâ€"Mn metal hydride electrode alloy in the temperature range of âˆ'20 to 30Â°C. Electrochimica Acta, 2004, 49, 545-555.	2.6	57

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55	Hydrogen storage and electrochemical properties of the La0.7Mg0.3Ni3.825âˆ’xCo0.675Mnx hydrogen storage electrode alloys. Journal of Alloys and Compounds, 2004, 365, 246-252.	2.8	55
56	The correlative effects of Al and Co on the structure and electrochemical properties of a Laâ€“Mgâ€“Ni-based hydrogen storage electrode alloy. Journal of Alloys and Compounds, 2010, 496, 454-461.	2.8	55
57	Highly Stable Cycling of Amorphous Li₂CO₃-Coated Î±-Fe₂O₃Nanocrystallines Prepared via a New Mechanochemical Strategy for Li-Ion Batteries. Advanced Functional Materials, 2017, 27, 1605011.	7.8	53
58	Chemical Preinsertion of Lithium: An Approach to Improve the Intrinsic Capacity Retention of Bulk Si Anodes for Li-ion Batteries. Journal of Physical Chemistry Letters, 2012, 3, 3555-3558.	2.1	52
59	Enhanced cycle stability of micro-sized Si/C anode material with low carbon content fabricated via spray drying and in situ carbonization. Journal of Alloys and Compounds, 2014, 604, 130-136.	2.8	51
60	XRD study of the hydrogenation and dehydrogenation process of the two different phase components in a Tiâ€“V-based multiphase hydrogen storage electrode alloy. Journal of Alloys and Compounds, 2004, 370, 254-260.	2.8	50
61	A hybrid Si@FeSi_y/SiO_x anode structure for high performance lithium-ion batteries via ammonia-assisted one-pot synthesis. Journal of Materials Chemistry A, 2015, 3, 10767-10776.	5.2	50
62	Remarkably improved hydrogen storage properties of nanocrystalline TiO2-modified NaAlH4 and evolution of Ti-containing species during dehydrogenation/hydrogenation. Nano Research, 2015, 8, 533-545.	5.8	49
63	A New Strategy to Effectively Suppress the Initial Capacity Fading of Iron Oxides by Reacting with LiBH₄. Advanced Functional Materials, 2017, 27, 1700342.	7.8	49
64	Multi-hydride systems with enhanced hydrogen storage properties derived from Mg(BH4)2 and LiAlH4. International Journal of Hydrogen Energy, 2012, 37, 10733-10742.	3.8	48
65	Understanding the role of K in the significantly improved hydrogen storage properties of a KOH-doped Liâ€“Mgâ€“Nâ€“H system. Journal of Materials Chemistry A, 2013, 1, 5031.	5.2	48
66	Achieving ambient temperature hydrogen storage in ultrafine nanocrystalline TiO₂@C-doped NaAlH₄. Journal of Materials Chemistry A, 2016, 4, 1087-1095.	5.2	48
67	High-rate capability of LiFePO4 cathode materials containing Fe2P and trace carbon. Journal of Power Sources, 2012, 199, 256-262.	4.0	47
68	Synthesis and Thermal Decomposition Behaviors of Magnesium Borohydride Ammoniates with Controllable Composition as Hydrogen Storage Materials. Chemistry - an Asian Journal, 2013, 8, 476-481.	1.7	47
69	Bi-structural fibers of carbon nanotube coated with nitrogen/oxygen dual-doped porous carbon layer as superior sulfur host for lithium-sulfur batteries. Journal of Alloys and Compounds, 2019, 797, 1205-1215.	2.8	47
70	Incorporation of Ammonia Borane Groups in the Lithium Borohydride Structure Enables Ultrafast Lithium Ion Conductivity at Room Temperature for Solid-State Batteries. Chemistry of Materials, 2020, 32, 671-678.	3.2	47
71	Nano-synergy enables highly reversible storage of 9.2Âwt% hydrogen at mild conditions with lithium borohydride. Nano Energy, 2021, 83, 105839.	8.2	46
72	Formation Reactions and the Thermodynamics and Kinetics of Dehydrogenation Reaction of Mixed Alanate Na₂LiAlH₆. Journal of Physical Chemistry C, 2009, 113, 7978-7984.	1.5	45

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73	Novel MAX-phase Ti3AlC2 catalyst for improving the reversible hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2017, 42, 4244-4251.	3.8	45
74	Dispersion-strengthened microparticle silicon composite with high anti-pulverization capability for Li-ion batteries. Energy Storage Materials, 2018, 14, 279-288.	9.5	45
75	Effect of Co content on the structural and electrochemical properties of the La0.7Mg0.3Ni3.4âˆ’xMn0.1Cox hydride alloys. Journal of Alloys and Compounds, 2004, 376, 296-303.	2.8	44
76	Structure and electrochemical properties of the Fe substituted Tiâ€“V-based hydrogen storage alloys. Journal of Alloys and Compounds, 2008, 463, 189-195.	2.8	44
77	Enhanced dehydrogenation/hydrogenation kinetics of the Mg(NH2)2â€“2LiH system with NaOH additive. International Journal of Hydrogen Energy, 2011, 36, 2137-2144.	3.8	44
78	A mechanochemical synthesis of submicron-sized Li₂S and a mesoporous Li₂S/C hybrid for high performance lithium/sulfur battery cathodes. Journal of Materials Chemistry A, 2017, 5, 6471-6482.	5.2	44
79	In Situ Encapsulation of the Nanoscale Er₂O₃ Phase To Drastically Suppress Voltage Fading and Capacity Degradation of a Li- and Mn-Rich Layered Oxide Cathode for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 33863-33875.	4.0	44
80	Superior long-term cyclability of a nanocrystalline NiO anode enabled by a mechanochemical reaction-induced amorphous protective layer for Li-ion batteries. Journal of Power Sources, 2018, 397, 134-142.	4.0	44
81	A Unique Nanoflakeâ€Shape Bimetallic Tiâ€“Nb Oxide of Superior Catalytic Effect for Hydrogen Storage of MgH₂. Small, 2022, 18, e2107013.	5.2	44
82	Synthesis and Characterization of a New Ternary ImideLi2Ca(NH)2. Inorganic Chemistry, 2007, 46, 517-521.	1.9	42
83	Synergetic Effects of In Situ Formed CaH₂ and LiBH₄ on Hydrogen Storage Properties of the Liâ€“Mgâ€“Nâ€“H System. Chemistry - an Asian Journal, 2013, 8, 374-384.	1.7	42
84	Nanoscaled Lithium Powders with Protection of Ionic Liquid for Highly Stable Rechargeable Lithium Metal Batteries. Advanced Science, 2019, 6, 1901776.	5.6	42
85	Amorphous Dualâ€Layer Coating: Enabling High Liâ€Ion Conductivity of Nonâ€Sintered Garnetâ€Type Solid Electrolyte. Advanced Functional Materials, 2021, 31, 2009692.	7.8	42
86	Reaction Pathways Determined by Mechanical Milling Process for Dehydrogenation/Hydrogenation of the LiNH₂/MgH₂ System. Chemistry - A European Journal, 2010, 16, 693-702.	1.7	40
87	Mesoporous Fe₂O₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 14178-14187.	5.2	40
88	Facile Synthesis and Superior Catalytic Activity of Nano-TiN@Nâ€“C for Hydrogen Storage in NaAlH₄. ACS Applied Materials & Interfaces, 2018, 10, 15767-15777.	4.0	40
89	Porous Carbon Architecture Assembled by Cross-Linked Carbon Leaves with Implanted Atomic Cobalt for High-Performance Liâ€“S Batteries. Nano-Micro Letters, 2021, 13, 151.	14.4	40
90	Improvement of the hydrogen-storage performances of Liâ€“Mgâ€“Nâ€“H system. Journal of Materials Research, 2007, 22, 1339-1345.	1.2	39

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91	Synthesis, Structure Transformation, and Electrochemical Properties of Li₂MgSi as a Novel Anode for Liâ€Ion Batteries. Advanced Functional Materials, 2014, 24, 3944-3952.	7.8	39
92	In situ formation of lithium fast-ion conductors and improved hydrogen desorption properties of the LiNH2â€“MgH2 system with the addition of lithium halides. Journal of Materials Chemistry A, 2014, 2, 3155.	5.2	39
93	TiO2 decorated porous carbonaceous network structures offer confinement, catalysis and thermal conductivity for effective hydrogen storage of LiBH4. Chemical Engineering Journal, 2021, 407, 127156.	6.6	39
94	Hydrogen storage properties and mechanisms of the Mg(BH4)2â€“NaAlH4 system. International Journal of Hydrogen Energy, 2012, 37, 17137-17145.	3.8	37
95	Role of particle size, grain size, microstrain and lattice distortion in improved dehydrogenation properties of the ball-milled Mg(AlH4)2. International Journal of Hydrogen Energy, 2013, 38, 1460-1468.	3.8	37
96	Compositional effects on the hydrogen storage properties of Mg(NH2)2â€“2LiHâ€“xKH and the activity of KH during dehydrogenation reactions. Dalton Transactions, 2014, 43, 2369.	1.6	37
97	Superior Kinetic and Cyclic Performance of a 2D Titanium Carbide Incorporated 2LiH + MgB₂ Composite toward Highly Reversible Hydrogen Storage. ACS Applied Energy Materials, 2019, 2, 4853-4864.	2.5	37
98	Triggering highly stable catalytic activity of metallic titanium for hydrogen storage in NaAlH₄ by preparing ultrafine nanoparticles. Journal of Materials Chemistry A, 2019, 7, 4651-4659.	5.2	37
99	LiBH₄ Nanoconfined in Porous Hollow Carbon Nanospheres with High Loading, Low Dehydrogenation Temperature, Superior Kinetics, and Favorable Reversibility. ACS Applied Energy Materials, 2020, 3, 3928-3938.	2.5	36
100	New Insights into the Effects of Zr Substitution and Carbon Additive on Li_{3â€“<i>x</i>}Er_{1â€“<i>x</i>}Zr_{<i>x</i>}Cl₆ Halide Solid Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 8095-8105.	4.0	36
101	Effects of rare earth elements substitution for Ti on the structure and electrochemical properties of a Fe-doped Tiâ€“V-based hydrogen storage alloy. Journal of Alloys and Compounds, 2009, 484, 249-255.	2.8	35
102	Synthesis and hydrogen storage thermodynamics and kinetics of Mg(AlH4)2 submicron rods. International Journal of Hydrogen Energy, 2012, 37, 18148-18154.	3.8	35
103	Functions of MgH2 in hydrogen storage reactions of the 6LiBH4â€“CaH2 reactive hydride composite. Dalton Transactions, 2012, 41, 10980.	1.6	35
104	Ca(BH4)2â€“LiBH4â€“MgH2: a novel ternary hydrogen storage system with superior long-term cycling performance. Journal of Materials Chemistry A, 2013, 1, 12285.	5.2	35
105	Improved hydrogen storage performance of Ca(BH4)2: a synergetic effect of porous morphology and in situ formed TiO2. Energy and Environmental Science, 2013, 6, 847.	15.6	35
106	A Novel synthesis of MgS and its application as electrode material for lithium-ion batteries. Journal of Alloys and Compounds, 2014, 603, 158-166.	2.8	35
107	An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. Physical Chemistry Chemical Physics, 2014, 16, 135-143.	1.3	35
108	Electrochemical performances of the Pd-added Ti-V-based hydrogen storage alloys. International Journal of Hydrogen Energy, 2008, 33, 728-734.	3.8	34

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109	Local defects enhanced dehydrogenation kinetics of the NaBH4-added Liâ€“Mgâ€“Nâ€“H system. Physical Chemistry Chemical Physics, 2011, 13, 314-321.	1.3	34
110	Superior Dehydrogenation/Hydrogenation Kinetics and Long-Term Cycling Performance of K and Rb Cocatalyzed Mg(NH₂)₂-2LiH system. ACS Applied Materials & Interfaces, 2014, 6, 17024-17033.	4.0	34
111	Linking particle size to improved electrochemical performance of SiO anodes for Li-ion batteries. RSC Advances, 2017, 7, 2273-2280.	1.7	34
112	Reaction-Ball-Milling-Driven Surface Coating Strategy to Suppress Pulverization of Microparticle Si Anodes. ACS Applied Materials & Interfaces, 2018, 10, 20591-20598.	4.0	34
113	Higher Than 90% Initial Coulombic Efficiency with Staghornâ€Coralâ€Like 3D Porous LiFeO_{2âˆ’}<i>_x</i> as Anode Materials for Liâ€Ion Batteries. Advanced Materials, 2020, 32, e1908285.	11.1	34
114	High-loading, ultrafine Ni nanoparticles dispersed on porous hollow carbon nanospheres for fast (de)hydrogenation kinetics of MgH2. Journal of Magnesium and Alloys, 2022, 10, 3354-3366.	5.5	34
115	Influence of Mn content on the structural and electrochemical properties of the La0.7Mg0.3Ni4.25âˆ’xCo0.75Mnx hydrogen storage alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 372, 163-172.	2.6	33
116	An improvement on cycling stability of Tiâ€“Vâ€“Fe-based hydrogen storage alloys with Co substitution for Ni. Journal of Power Sources, 2008, 184, 627-632.	4.0	33
117	Pulverization mechanism of the multiphase Tiâ€“V-based hydrogen storage electrode alloy during charge/discharge cycling. Journal of Alloys and Compounds, 2010, 489, 552-557.	2.8	33
118	A Unique Doubleâ€Layered Carbon Nanobowlâ€Confined Lithium Borohydride for Highly Reversible Hydrogen Storage. Small, 2020, 16, e2001963.	5.2	33
119	Large Amount of Hydrogen Desorption from the Mixture of Mg(NH₂)₂ and LiAlH₄. Journal of Physical Chemistry C, 2007, 111, 19161-19164.	1.5	32
120	Improved Hydrogenâ€Storage Thermodynamics and Kinetics for an RbFâ€Doped Mg(NH₂)₂â€“2â€‰LiH System. Chemistry - an Asian Journal, 2013, 8, 2136-2143.	1.7	32
121	Si/Ti3SiC2 composite anode with enhanced elastic modulus and high electronic conductivity for lithium-ion batteries. Journal of Power Sources, 2019, 431, 55-62.	4.0	32
122	A Novel Multielement, Multiphase, and Bâ€Containing SiO<i>_x</i> Composite as a Stable Anode Material for Liâ€Ion Batteries. Advanced Materials Interfaces, 2019, 6, 1801631.	1.9	32
123	Investigation on the characteristics of La0.7Mg0.3Ni2.65Mn0.1Co0.75+x (x = 0.00â€“0.85) metal hydride electrode alloys for Ni/MH batteries Part II: Electrochemical performances. Journal of Alloys and Compounds, 2005, 388, 109-117.	2.8	31
124	Recent Development of Lithium Borohydrideâ€Based Materials for Hydrogen Storage. Advanced Energy and Sustainability Research, 2021, 2, 2100073.	2.8	31
125	A study on improving the cycling stability of (Ti0.8Zr0.2)(V0.533Mn0.107Cr0.16Ni0.2)4 hydrogen storage electrode alloy by means of annealing treatment. Journal of Alloys and Compounds, 2003, 348, 301-308.	2.8	30
126	Effects of triphenyl phosphate on the hydrogen storage performance of the Mg(NH2)2â€“2LiH system. Journal of Materials Chemistry, 2009, 19, 2141.	6.7	30

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127	Mechanistic investigations on significantly improved hydrogen storage performance of the Ca(BH4)2-added 2LiNH2/MgH2 system. International Journal of Hydrogen Energy, 2013, 38, 5030-5038.	3.8	30
128	Significantly improved kinetics, reversibility and cycling stability for hydrogen storage in NaAlH₄with the Ti-incorporated metal organic framework MIL-125(Ti). Journal of Materials Chemistry A, 2014, 2, 1847-1854.	5.2	30
129	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. Journal of Power Sources, 2018, 380, 1-11.	4.0	30
130	A study on the cycling stability of the Tiâ€“V-based hydrogen storage electrode alloys. Journal of Alloys and Compounds, 2004, 364, 271-279.	2.8	29
131	Microstructure and electrochemical properties of Tiâ€“V-based multiphase hydrogen storage electrode alloys Ti0.8Zr0.2V2.7Mn0.5Cr0.8-xNi1.25FexTi0.8Zr0.2V2.7Mn0.5Cr0.8-xNi1.25Fex (x=0.0â€“0.8)(x=0.0â€“0.8). International Journal of Hydrogen Energy, 2007, 32, 3947-3953.	3.8	29
132	Heating Rate-Dependent Dehydrogenation in the Thermal Decomposition Process of Mg(BH₄)₂Â·6NH₃. Journal of Physical Chemistry C, 2013, 117, 16326-16335.	1.5	29
133	High-temperature failure behaviour and mechanism of K-based additives in Liâ€“Mgâ€“Nâ€“H hydrogen storage systems. Journal of Materials Chemistry A, 2014, 2, 7345-7353.	5.2	29
134	In situ formation of Al3Ti, MgF2 and Al and their superior synergetic effects on reversible hydrogen storage of MgH2. Catalysis Today, 2018, 318, 107-112.	2.2	29
135	Investigations on hydrogen desorption from the mixture of Mg(NH2)2 and CaH2. Journal of Alloys and Compounds, 2007, 432, 298-302.	2.8	28
136	Insight into the synergistic effect mechanism between the Li2MO3 phase and the LiMO2 phase (Mâ€‾=â€‾Ni,) Tj ETQq0 0 0 rgBT /Overlo	2.6	28
137	Electrocarving during Electrodeposition Growth. Advanced Materials, 2018, 30, e1805686.	11.1	28
138	Synthesis process and catalytic activity of <scp> Nb ₂ O ₅ </scp> hollow spheres for reversible hydrogen storage of <scp> MgH ₂ </scp>. International Journal of Energy Research, 2021, 45, 3129-3141.	2.2	28
139	A Novel Perovskite Electronâ€“Ion Conductive Coating to Simultaneously Enhance Cycling Stability and Rate Capability of Li_{1.2}Ni_{0.13}Co_{0.13}Mn_{0.54}O₂ Cathode Material for Lithiumâ€Ion Batteries. Small, 2021, 17, e2008132.	5.2	28
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