

Li-Xin Chen

List of Publications by Year in descending order

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136
papers

5,187
citations

76326

40
h-index

114465

63
g-index

138
all docs

138
docs citations

138
times ranked

2742
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal organic framework supported niobium pentoxide nanoparticles with exceptional catalytic effect on hydrogen storage behavior of MgH ₂ . <i>Green Energy and Environment</i> , 2023, 8, 589-600.	8.7	29
2	Studies on Ti-Zr-Cr-Mn-Fe-V based alloys for hydrogen compression under mild thermal conditions of water bath. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162145.	5.5	11
3	Study on low-vanadium Ti-Zr-Mn-Cr-V based alloys for high-density hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1710-1722.	7.1	24
4	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> , 2022, 431, 133697.	12.7	19
5	Critical Review on Low-Temperature Li-Ion/Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2107899.	21.0	204
6	Ultrahigh reversible hydrogen capacity and synergetic mechanism of 2LiBH ₄ -MgH ₂ system catalyzed by dual-metal fluoride. <i>Chemical Engineering Journal</i> , 2022, 433, 134482.	12.7	19
7	Regulating local chemistry in ZrCo-based orthorhombic hydrides via increasing atomic interference for ultra-stable hydrogen isotopes storage. <i>Journal of Energy Chemistry</i> , 2022, 69, 397-405.	12.9	12
8	Achieving excellent cycle stability in Zr-Nb-Co-Ni based hydrogen isotope storage alloys by controllable phase transformation reaction. <i>Renewable Energy</i> , 2022, 187, 500-507.	8.9	18
9	Dynamically Staged Phase Transformation Mechanism of Co-Containing Rare Earth-Based Metal Hydrides with Unexpected Hysteresis Amelioration. <i>ACS Applied Energy Materials</i> , 2022, 5, 3783-3792.	5.1	12
10	Development of Ti _{0.85} Zr _{0.17} (Cr-Mn-V) _{1.3} Fe _{0.7} -based Laves phase alloys for thermal hydrogen compression at mild operating temperatures. <i>Rare Metals</i> , 2022, 41, 2588-2594.	7.1	10
11	Anion-Diluent Pairing for Stable High-Energy Li Metal Batteries. <i>ACS Energy Letters</i> , 2022, 7, 1338-1347.	17.4	108
12	Mitigating irreversible capacity loss for higher-energy lithium batteries. <i>Energy Storage Materials</i> , 2022, 48, 44-73.	18.0	25
13	A self-purifying electrolyte enables high energy Li ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 3331-3342.	30.8	40
14	Unraveling the degradation mechanism for the hydrogen storage property of Fe nanocatalyst-modified MgH ₂ . <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3874-3884.	6.0	24
15	Enhanced hydrogen storage properties of high-loading nanoconfined LiBH ₄ -Mg(BH ₄) ₂ composites with porous hollow carbon nanospheres. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 852-864.	7.1	25
16	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.	10.3	28
17	Highly efficient ZrH ₂ nanocatalyst for the superior hydrogenation kinetics of magnesium hydride under moderate conditions: Investigation and mechanistic insights. <i>Applied Surface Science</i> , 2021, 541, 148375.	6.1	26
18	Superior catalysis of NbN nanoparticles with intrinsic multiple valence on reversible hydrogen storage properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 814-822.	7.1	19

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19	Heterostructured Ni/NiO Nanoparticles on 1D Porous MoO ₃ for Hydrolysis of Ammonia Borane. ACS Applied Energy Materials, 2021, 4, 1208-1217.	5.1	17
20	Low-cost batteries based on industrial waste Al-Si microparticles and LiFePO ₄ for stationary energy storage. Dalton Transactions, 2021, 50, 8322-8329.	3.3	6
21	A dandelion-like amorphous composite catalyst with outstanding performance for sodium borohydride hydrogen generation. International Journal of Hydrogen Energy, 2021, 46, 10809-10818.	7.1	11
22	Hydrogen desorption from MgH ₂ +NH ₄ Cl/graphene composites at low temperatures. Materials Chemistry and Physics, 2021, 263, 124342.	4.0	6
23	Improved reversible dehydrogenation properties of Mg(BH ₄) ₂ catalyzed by dual-cation transition metal fluorides K ₂ TiF ₆ and K ₂ NbF ₇ . Chemical Engineering Journal, 2021, 412, 128738.	12.7	15
24	The dehydrogenation kinetics and reversibility improvements of Mg(BH ₄) ₂ doped with Ti nano-particles under mild conditions. International Journal of Hydrogen Energy, 2021, 46, 23737-23747.	7.1	20
25	Effect of Different Amounts of TiF ₃ on the Reversible Hydrogen Storage Properties of 2LiBH ₄ -Li ₃ AlH ₆ Composite. Frontiers in Chemistry, 2021, 9, 693302.	3.6	1
26	Investigation on Ti-Zr-Cr-Fe-V based alloys for metal hydride hydrogen compressor at moderate working temperatures. International Journal of Hydrogen Energy, 2021, 46, 21580-21589.	7.1	34
27	Dual-Ion Substitution-Induced Unique Electronic Modulation to Stabilize an Orthorhombic Lattice towards Reversible Hydrogen Isotope Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 9139-9148.	6.7	16
28	Positive impacts of tuning lattice on cyclic performance in ZrCo-based hydrogen isotope storage alloys. Materials Today Energy, 2021, 20, 100645.	4.7	9
29	Development of Ti-Zr-Mn-Cr-V based alloys for high-density hydrogen storage. Journal of Alloys and Compounds, 2021, 875, 160035.	5.5	32
30	Achieving superior hydrogen storage properties of MgH ₂ by the effect of TiFe and carbon nanotubes. Chemical Engineering Journal, 2021, 422, 130101.	12.7	116
31	Mn nanoparticles enhanced dehydrogenation and hydrogenation kinetics of MgH ₂ for hydrogen storage. Transactions of Nonferrous Metals Society of China, 2021, 31, 3469-3477.	4.2	31
32	In-situ synthesis of amorphous Mg(BH ₄) ₂ and chloride composite modified by NbF ₅ for superior reversible hydrogen storage properties. International Journal of Hydrogen Energy, 2020, 45, 2044-2053.	7.1	28
33	Superior dehydrogenation performances of MgH ₂ catalyzed by 3D flower-like TiO ₂ @C nanostructures. Journal of Energy Chemistry, 2020, 46, 191-198.	12.9	88
34	Enhanced hydrogen storage properties of MgH ₂ by the synergetic catalysis of Zr _{0.4} Ti _{0.6} Co nanosheets and carbon nanotubes. Applied Surface Science, 2020, 504, 144465.	6.1	47
35	The functioning mechanism of Al valid substitution for Co in improving the cycling performance of Zr-Co-Al based hydrogen isotope storage alloys. Journal of Alloys and Compounds, 2020, 848, 156618.	5.5	17
36	Probing an intermediate state by X-ray absorption near-edge structure in nickel-doped 2LiBH ₄ -MgH ₂ reactive hydride composite at moderate temperature. Materials Today Nano, 2020, 12, 100090.	4.6	15

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37	Insights into magnesium borohydride dehydrogenation mechanism from its partial reversibility under moderate conditions. <i>Materials Today Energy</i> , 2020, 18, 100552.	4.7	4
38	An impact of hydrogenation phase transformation mechanism on the cyclic stabilizing behavior of Zr _{0.8} Ti _{0.2} Co alloy for hydrogen isotope handling. <i>Materials Today Energy</i> , 2020, 18, 100554.	4.7	9
39	Self-templated carbon enhancing catalytic effect of ZrO ₂ nanoparticles on the excellent dehydrogenation kinetics of MgH ₂ . <i>Carbon</i> , 2020, 166, 46-55.	10.3	45
40	LiAlH ₄ as a "Microheater" on the Fluorographite Surface Triggering the Dehydrogenation of Mg(BH ₄) ₂ : Toward More than 7 wt % Hydrogen Release below 70 °C. <i>ACS Applied Energy Materials</i> , 2020, 3, 3033-3041.	5.1	18
41	Excellent catalysis of Mn ₃ O ₄ nanoparticles on the hydrogen storage properties of MgH ₂ : an experimental and theoretical study. <i>Nanoscale Advances</i> , 2020, 2, 1666-1675.	4.6	35
42	The remarkably improved hydrogen storage performance of MgH ₂ by the synergetic effect of an FeNi/rGO nanocomposite. <i>Dalton Transactions</i> , 2020, 49, 4146-4154.	3.3	46
43	Insights into 2D graphene-like TiO ₂ (B) nanosheets as highly efficient catalyst for improved low-temperature hydrogen storage properties of MgH ₂ . <i>Materials Today Energy</i> , 2020, 16, 100411.	4.7	25
44	Extreme high reversible capacity with over 8.0 wt% and excellent hydrogen storage properties of MgH ₂ combined with LiBH ₄ and Li ₃ AlH ₆ . <i>Journal of Energy Chemistry</i> , 2020, 50, 296-306.	12.9	28
45	Remarkably improved hydrogen storage properties of carbon layers covered nanocrystalline Mg with certain air stability. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28134-28143.	7.1	20
46	Ultra-fast dehydrogenation behavior at low temperature of LiAlH ₄ modified by fluorographite. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28123-28133.	7.1	9
47	An in-depth study on the thermodynamics and kinetics of disproportionation behavior in ZrCo-H systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9322-9330.	10.3	34
48	Enhanced low temperature hydrogen desorption properties and mechanism of Mg(BH ₄) ₂ composited with 2D MXene. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24292-24300.	7.1	34
49	Two-dimensional ZrCo nanosheets as highly effective catalyst for hydrogen storage in MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 805, 295-302.	5.5	57
50	Superior catalytic effects of FeCo nanosheets on MgH ₂ for hydrogen storage. <i>Dalton Transactions</i> , 2019, 48, 12699-12706.	3.3	43
51	Facile synthesized Fe nanosheets as superior active catalyst for hydrogen storage in MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21955-21964.	7.1	100
52	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-B-H reactive hydride composite. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27529-27541.	7.1	9
53	Excellent Catalysis of Various TiO ₂ Dopants with Na _{0.46} TiO ₂ in Situ Formed on the Enhanced Dehydrogenation Properties of NaMgH ₃ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 22832-22841.	3.1	9
54	Synergistic catalysis in monodispersed transition metal oxide nanoparticles anchored on amorphous carbon for excellent low-temperature dehydrogenation of magnesium hydride. <i>Materials Today Energy</i> , 2019, 12, 146-154.	4.7	57

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55	Study on the modification of Zr-Mn-V based alloys for hydrogen isotopes storage and delivery. Journal of Alloys and Compounds, 2019, 797, 185-193.	5.5	18
56	Highly dispersed metal nanoparticles on TiO ₂ acted as nano redox reactor and its synergistic catalysis on the hydrogen storage properties of magnesium hydride. International Journal of Hydrogen Energy, 2019, 44, 15100-15109.	7.1	29
57	Novel 1D carbon nanotubes uniformly wrapped nanoscale MgH ₂ for efficient hydrogen storage cycling performances with extreme high gravimetric and volumetric capacities. Nano Energy, 2019, 61, 540-549.	16.0	124
58	Excellent catalysis of TiO ₂ nanosheets with high-surface-energy {001} facets on the hydrogen storage properties of MgH ₂ . Nanoscale, 2019, 11, 7465-7473.	5.6	89
59	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
60	A striking catalytic effect of facile synthesized ZrMn ₂ nanoparticles on the de/rehydrogenation properties of MgH ₂ . Journal of Materials Chemistry A, 2019, 7, 5626-5634.	10.3	118
61	Facile synthesis of Co/Pd supported by few-walled carbon nanotubes as an efficient bidirectional catalyst for improving the low temperature hydrogen storage properties of magnesium hydride. Journal of Materials Chemistry A, 2019, 7, 5277-5287.	10.3	88
62	Improvement on the kinetic and thermodynamic characteristics of Zr _{1-x} Nb _x Co (x = 0-0.2) alloys for hydrogen isotope storage and delivery. Journal of Alloys and Compounds, 2019, 784, 1062-1070.	5.5	46
63	A new strategy for remarkably improving anti-disproportionation performance and cycling stabilities of ZrCo-based hydrogen isotope storage alloys by Cu substitution and controlling cutoff desorption pressure. International Journal of Hydrogen Energy, 2019, 44, 28242-28251.	7.1	36
64	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. Nature Energy, 2019, 4, 882-890.	39.5	557
65	Excellent synergistic catalytic mechanism of in-situ formed nanosized Mg ₂ Ni and multiple valence titanium for improved hydrogen desorption properties of magnesium hydride. International Journal of Hydrogen Energy, 2019, 44, 1750-1759.	7.1	61
66	ZIF-67 derived Co@CNTs nanoparticles: Remarkably improved hydrogen storage properties of MgH ₂ and synergetic catalysis mechanism. International Journal of Hydrogen Energy, 2019, 44, 1059-1069.	7.1	111
67	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
68	Highly synergetic catalytic mechanism of Ni@g-C ₃ N ₄ on the superior hydrogen storage performance of Li-Mg-B-H system. Energy Storage Materials, 2018, 13, 199-206.	18.0	58
69	In situ synthesized SnO ₂ nanorod/reduced graphene oxide low-dimensional structure for enhanced lithium storage. Nanotechnology, 2018, 29, 105705.	2.6	7
70	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
71	Synergistic Effect of LiBH ₄ and LiAlH ₄ Additives on Improved Hydrogen Storage Properties of Unexpected High Capacity Magnesium Hydride. Journal of Physical Chemistry C, 2018, 122, 2528-2538.	3.1	35
72	Superior Reversible Hydrogen Storage Properties and Mechanism of LiBH ₄ -MgH ₂ -Al Doped with Nb ₅ Additive. Journal of Physical Chemistry C, 2018, 122, 7613-7620.	3.1	18

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73	Effect of rare earth doping on the hydrogen storage performance of Ti _{1.02} Cr _{1.1} Mn _{0.3} Fe _{0.6} alloy for hybrid hydrogen storage application. <i>Journal of Alloys and Compounds</i> , 2018, 731, 524-530.	5.5	55
74	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.	3.1	61
75	Enhanced reversible hydrogen desorption properties and mechanism of Mg(BH ₄) ₂ -AlH ₃ -LiH composite. <i>Journal of Alloys and Compounds</i> , 2018, 762, 548-554.	5.5	14
76	Facile synthesis of AuPd nanoparticles anchored on TiO ₂ nanosheets for efficient dehydrogenation of formic acid. <i>Nanotechnology</i> , 2018, 29, 335402.	2.6	14
77	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.	2.8	86
78	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.	10.3	89
79	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.	7.1	21
80	Facile synthesis of bowl-like 3D Mg(BH ₄) ₂ •NaBH ₄ fluorographene composite with unexpected superior dehydrogenation performances. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9723-9732.	10.3	28
81	Study on the dehydrogenation properties and reversibility of Mg(BH ₄) ₂ AlH ₃ composite under moderate conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8050-8056.	7.1	23
82	Enhanced hydrogen storage properties of a dual-cation (Li ⁺ , Mg ²⁺) borohydride and its dehydrogenation mechanism. <i>RSC Advances</i> , 2017, 7, 36852-36859.	3.6	11
83	Effect of Mn substitution for Co on the structural, kinetic, and thermodynamic characteristics of ZrCo _{1-x} Mn _x (x=0~0.1) alloys for tritium storage. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28498-28506.	7.1	35
84	Synthesis of nanoscale CeAl ₄ and its high catalytic efficiency for hydrogen storage of sodium alanate. <i>Rare Metals</i> , 2017, 36, 77-85.	7.1	12
85	Enhanced hydrogen desorption properties of LiBH ₄ •Ca(BH ₄) ₂ by a synergetic effect of nanoconfinement and catalysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17462-17470.	7.1	24
86	Hydrogenation reaction characteristics and properties of its hydrides for magnetic regenerative material HoCu ₂ . <i>Journal of Central South University</i> , 2016, 23, 1564-1568.	3.0	1
87	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, 14898-14908.	5.6	24
88	Ternary perovskite nickel titanate/reduced graphene oxide nano-composite with improved lithium storage properties. <i>RSC Advances</i> , 2016, 6, 61312-61318.	3.6	21
89	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.	10.3	75
90	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.	3.1	73

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91	Remarkable hydrogen desorption properties and mechanisms of the Mg ₂ FeH ₆ @MgH ₂ core-shell nanostructure. Journal of Materials Chemistry A, 2015, 3, 5517-5524.	10.3	54
92	Extended finite element method coupled with face-based strain smoothing technique for three-dimensional fracture problems. International Journal for Numerical Methods in Engineering, 2015, 102, 1894-1916.	2.8	17
93	Influence of annealing treatment on the microstructure and hydrogen storage performance of Ti _{1.02} Cr _{1.1} Mn _{0.3} Fe _{0.6} alloy for hybrid hydrogen storage application. Journal of Alloys and Compounds, 2015, 636, 117-123.	5.5	19
94	Enhanced hydrogen storage capacity and reversibility of LiBH ₄ nanoconfined in the densified zeolite-templated carbon with high mechanical stability. Nano Energy, 2015, 15, 244-255.	16.0	58
95	Remarkable enhancement in dehydrogenation properties of Mg(BH ₄) ₂ modified by the synergetic effect of fluorographite and LiBH ₄ . International Journal of Hydrogen Energy, 2015, 40, 14163-14172.	7.1	22
96	Influence of Ti super-stoichiometry on the hydrogen storage properties of Ti _{1+x} Cr _{1.2} Mn _{0.2} Fe _{0.6} (x=0-0.1) alloys for hybrid hydrogen storage application. Journal of Alloys and Compounds, 2014, 585, 307-311.	5.5	47
97	Comprehensive hydrogen storage properties and catalytic mechanism studies of 2LiBH ₄ -MgH ₂ system with NbF ₅ in various addition amounts. International Journal of Hydrogen Energy, 2014, 39, 7050-7059.	7.1	16
98	Superior dehydrogenation performance of nanoscale lithium borohydride modified with fluorographite. International Journal of Hydrogen Energy, 2014, 39, 896-904.	7.1	19
99	Enhanced reversible hydrogen storage performance of NbCl ₅ doped 2LiH-MgB ₂ composite. International Journal of Hydrogen Energy, 2014, 39, 2132-2141.	7.1	10
100	Low-Temperature Reversible Hydrogen Storage Properties of LiBH ₄ : A Synergetic Effect of Nanoconfinement and Nanocatalysis. Journal of Physical Chemistry C, 2014, 118, 11252-11260.	3.1	51
101	Enhanced hydrogen storage properties of LiBH ₄ modified by NbF ₅ . International Journal of Hydrogen Energy, 2014, 39, 11675-11682.	7.1	28
102	Fluorographene nanosheets enhanced hydrogen absorption and desorption performances of magnesium hydride. International Journal of Hydrogen Energy, 2014, 39, 12715-12726.	7.1	26
103	Enhanced hydriding-dehydriding performance of a 2LiH-MgB ₂ composite by the catalytic effects of Ni-B nanoparticles. Journal of Materials Chemistry A, 2013, 1, 10184.	10.3	28
104	High catalytic efficiency of amorphous TiB ₂ and NbB ₂ nanoparticles for hydrogen storage using the 2LiBH ₄ -MgH ₂ system. Journal of Materials Chemistry A, 2013, 1, 11368.	10.3	47
105	Development of Ti-Cr-Mn-Fe based alloys with high hydrogen desorption pressures for hybrid hydrogen storage vessel application. International Journal of Hydrogen Energy, 2013, 38, 12803-12810.	7.1	61
106	Size effect on hydrogen storage properties of NaAlH ₄ confined in uniform porous carbons. Nano Energy, 2013, 2, 995-1003.	16.0	38
107	Synergetic Effect of in Situ Formed Nano NbH and Li _{1-x} F _x for Improving Reversible Hydrogen Storage Properties of the Li-Mg-B-H System. Journal of Physical Chemistry C, 2013, 117, 12019-12025.	3.1	13
108	The Behavior of Hastelloy C-2000 Alloy Under Strain-Controlled Fatigue Loading. , 2013, , 240-254.		0

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109	Fast hydrogen release under moderate conditions from NaBH ₄ destabilized by fluorographite. RSC Advances, 2013, 4, 2550-2556.	3.6	21
110	Enhanced hydriding-dehydriding performance of 2LiBH ₄ /MgH ₂ composite by the catalytic effects of transition metal chlorides. Journal of Materials Chemistry, 2012, 22, 20764.	6.7	53
111	Effects of Fluoride Additives on the Hydrogen Storage Performance of 2LiBH ₄ -Li ₃ AlH ₆ Destabilized System. Journal of Physical Chemistry C, 2012, 116, 22226-22230.	3.1	10
112	Effects of NbF ₅ addition on the de/rehydrogenation properties of 2LiBH ₄ /MgH ₂ hydrogen storage system. International Journal of Hydrogen Energy, 2012, 37, 13147-13154.	7.1	45
113	Effects of fluoride additives on dehydrogenation behaviors of 2LiBH ₄ +MgH ₂ system. International Journal of Hydrogen Energy, 2012, 37, 1021-1026.	7.1	41
114	Thermodynamics, Kinetics, and Modeling Investigation on the Dehydrogenation of CeAl ₄ -Doped NaAlH ₄ Hydrogen Storage Material. Journal of Physical Chemistry C, 2011, 115, 22680-22687.	3.1	23
115	A Novel Li-Ca-B-H Complex Borohydride: Its Synthesis and Hydrogen Storage Properties. Journal of Physical Chemistry C, 2011, 115, 19986-19993.	3.1	7
116	Formation mechanism of MgB ₂ in 2LiBH ₄ + MgH ₂ system for reversible hydrogen storage. Transactions of Nonferrous Metals Society of China, 2011, 21, 1040-1046.	4.2	18
117	Hydriding-dehydriding kinetics and the microstructure of La- and Sm-doped NaAlH ₄ prepared via direct synthesis method. International Journal of Hydrogen Energy, 2011, 36, 10861-10869.	7.1	32
118	FIRST-PRINCIPLES CALCULATION OF THE ELECTRONIC STRUCTURE AND MAGNETISM AT THE GRAPHENE/Ni(111) INTERFACE. International Journal of Modern Physics B, 2011, 25, 2791-2800.	2.0	2
119	Microstructure and hydrogen storage characteristics of nanocrystalline Mg+xwt% LaMg ₂ Ni (x=0-30) composites. International Journal of Hydrogen Energy, 2010, 35, 2786-2790.	7.1	29
120	Influence of Fe content on the microstructure and hydrogen storage properties of Ti ₁₆ Zr ₅ Cr ₂₂ V ₅₇ xFe _x (x=2-8) alloys. International Journal of Hydrogen Energy, 2010, 35, 8143-8148.	7.1	21
121	The effect of Cr content on the structural and hydrogen storage characteristics of Ti ₁₀ V ₈₀ xFe ₆ Zr ₄ Cr _x (x=0-14) alloys. Journal of Alloys and Compounds, 2010, 493, 396-400.	5.5	16
122	Monte Carlo simulation of the percolation in Ag ₃₀ Ge ₁₇ Se ₅₃ amorphous electrolyte films. Applied Physics Letters, 2009, 95, .	3.3	10
123	The $\langle 001 \rangle$-oriented growth of Cu ₂ S films and its switching properties. Journal of Electroceramics, 2009, 22, 87-90.	2.0	6
124	Catalytic Mechanism of New TiC-Doped Sodium Alanate for Hydrogen Storage. Journal of Physical Chemistry C, 2009, 113, 20745-20751.	3.1	46
125	Active species of CeAl ₄ in the CeCl ₃ -doped sodium aluminium hydride and its enhancement on reversible hydrogen storage performance. Chemical Communications, 2009, , 6857.	4.1	54
126	The hydrogen storage properties and microstructure of Ti-doped sodium aluminum hydride prepared by ball-milling. International Journal of Hydrogen Energy, 2007, 32, 2475-2479.	7.1	28

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127	Influence of temperature and hydrogen pressure on the hydriding/dehydriding behavior of Ti-doped sodium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3954-3958.	7.1	16
128	Grain-to-Grain Stress Interactions in an Electrodeposited Iron Coating. <i>Advanced Materials</i> , 2005, 17, 1221-1226.	21.0	17
129	Effect of 90° domain movement on the piezoelectric response of patterned $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3/\text{SrTiO}_3/\text{Si}$ heterostructures. <i>Applied Physics Letters</i> , 2005, 87, 072907.	3.3	25
130	Orientation dependence of the converse piezoelectric constants for epitaxial single domain ferroelectric films. <i>Applied Physics Letters</i> , 2004, 85, 278-280.	3.3	37
131	Finite element modeling of piezoresponse in nanostructured ferroelectric films. <i>Applied Physics Letters</i> , 2004, 84, 2626-2628.	3.3	70
132	Fabrication of Micro- and Nanoscale SiC Structures Using Selective Deposition Processes. <i>Materials Research Society Symposia Proceedings</i> , 2003, 782, 1.	0.1	0
133	3-D flow effects on residence time distribution in screw extruders. <i>AIChE Journal</i> , 1996, 42, 1525-1535.	3.6	6
134	Devolatilization of Polymer Solutions. <i>International Polymer Processing</i> , 1994, 9, 26-32.	0.5	0
135	Realization of three-dimensionally confined structures via one-step <i>in situ</i> molecular beam epitaxy on appropriately patterned GaAs(111)B and GaAs(001). <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 1071.	1.6	28
136	Optically active three-dimensionally confined structures realized via molecular beam epitaxial growth on nonplanar GaAs (111)B. <i>Applied Physics Letters</i> , 1993, 63, 2905-2907.	3.3	56