Ping Chen

List of Publications by Year
in descending order

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286	16,430	18482	19190
papers	citations	62 h-index	118 g-index

312	312	312	12209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interaction of hydrogen with metal nitrides and imides. Nature, 2002, 420, 302-304.	27.8	1,540
2	Hydrogen carriers. Nature Reviews Materials, 2016, 1, .	48.7	602
3	High-capacity hydrogen storage in lithium and sodium amidoboranes. Nature Materials, 2008, 7, 138-141.	27.5	583
4	Nitrogen-doped nanoporous carbon nanosheets derived from plant biomass: an efficient catalyst for oxygen reduction reaction. Energy and Environmental Science, 2014, 7, 4095-4103.	30.8	537
5	Materials for hydrogen-based energy storage â€“ past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	5.5	518
6	Recent progress in hydrogen storage. Materials Today, 2008, 11, 36-43.	14.2	471
7	Breaking scaling relations to achieve low-temperature ammonia synthesis through LiH-mediated nitrogen transfer and hydrogenation. Nature Chemistry, 2017, 9, 64-70.	13.6	451
8	Interaction between Lithium Amide and Lithium Hydride. Journal of Physical Chemistry B, 2003, 107, 10967-10970.	2.6	396
9	Growth of Pd, Pt, Ag and Au nanoparticles on carbon nanotubes. Journal of Materials Chemistry, 2001, 11, 2378-2381.	6.7	364
10	Catalyst: NH3 as an Energy Carrier. CheM, 2017, 3, 709-712.	11.7	361
11	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. Nature Energy, 2021, 6, 904-912.	39.5	305
12	Thermodynamic and kinetic investigations of the hydrogen storage in the Liâ€“Mgâ€“Nâ€“H system. Journal of Alloys and Compounds, 2005, 398, 235-239.	5.5	249
13	Production of ammonia via a chemical looping process based on metal imides as nitrogen carriers. Nature Energy, 2018, 3, 1067-1075.	39.5	207
14	Recent progress towards mild-condition ammonia synthesis. Journal of Energy Chemistry, 2019, 36, 25-36.	12.9	202
15	Potassiumâ€Modified Mg(NH₂)₂/2â€‰LiH System for Hydrogen Storage. Angewandte Chemie - International Edition, 2009, 48, 5828-5832.	13.8	181
16	Covalent triazine framework supported non-noble metal nanoparticles with superior activity for catalytic hydrolysis of ammonia borane: from mechanistic study to catalyst design. Chemical Science, 2017, 8, 781-788.	7.4	180
17	A sulfur-tethering synthesis strategy toward high-loading atomically dispersed noble metal catalysts. Science Advances, 2019, 5, eaax6322.	10.3	177
18	Atomically Dispersed Pt on the Surface of Ni Particles: Synthesis and Catalytic Function in Hydrogen Generation from Aqueous Ammoniaâ€“Borane. ACS Catalysis, 2017, 7, 6762-6769.	11.2	169

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19	Liquid organic hydrogen carriers. Journal of Energy Chemistry, 2015, 24, 587-594.	12.9	167
20	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. International Journal of Hydrogen Energy, 2019, 44, 7746-7767.	7.1	166
21	Nanosized Co- and Ni-Catalyzed Ammonia Borane for Hydrogen Storage. Chemistry of Materials, 2009, 21, 2315-2318.	6.7	156
22	Li+ ion conductivity and diffusion mechanism in Î±-Li3N and Î²-Li3N. Energy and Environmental Science, 2010, 3, 1524.	30.8	149
23	The Crucial Role of Charge Accumulation and Spin Polarization in Activating Carbonâ€Based Catalysts for Electrocatalytic Nitrogen Reduction. Angewandte Chemie - International Edition, 2020, 59, 4525-4531.	13.8	149
24	Highly Efficient Carbon Dots with Reversibly Switchable Greenâ€“Red Emissions for Trichromatic White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 16005-16014.	8.0	147
25	Fabrication of three-dimensional ZnO/TiO2 heteroarchitectures via a solution process. Journal of Materials Chemistry, 2008, 18, 3909.	6.7	145
26	Preparation, characterization and catalytic hydroformylation properties of carbon nanotubes-supported Rhâ€“phosphine catalyst. Applied Catalysis A: General, 1999, 187, 213-224.	4.3	144
27	Mesoporous Ru/MgO prepared by a deposition-precipitation method as highly active catalyst for producing COx-free hydrogen from ammonia decomposition. Applied Catalysis B: Environmental, 2017, 211, 167-175.	20.2	143
28	Development of amidoboranes for hydrogen storage. Chemical Communications, 2011, 47, 5116.	4.1	142
29	Emerging Materials and Methods toward Ammoniaâ€Based Energy Storage and Conversion. Advanced Materials, 2021, 33, e2005721.	21.0	137
30	Barium Hydride-Mediated Nitrogen Transfer and Hydrogenation for Ammonia Synthesis: A Case Study of Cobalt. ACS Catalysis, 2017, 7, 3654-3661.	11.2	136
31	Complex Hydrides for Energy Storage, Conversion, and Utilization. Advanced Materials, 2019, 31, e1902757.	21.0	130
32	Direct transformation of dinitrogen: synthesis of N-containing organic compounds via Nâ‹¯C bond formation. National Science Review, 2020, 7, 1564-1583.	9.5	114
33	N-, P- and Fe-tridoped nanoporous carbon derived from plant biomass: an excellent oxygen reduction electrocatalyst for zincâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 8602-8609.	10.3	112
34	Mechanistic Investigations on the Heterogeneous Solid-State Reaction of Magnesium Amides and Lithium Hydrides. Journal of Physical Chemistry B, 2006, 110, 14221-14225.	2.6	107
35	Methods for nitrogen activation by reduction and oxidation. Nature Reviews Methods Primers, 2021, 1, .	21.2	107
36	Investigation of an optical limiting mechanism in multiwalled carbon nanotubes. Applied Optics, 2000, 39, 1998.	2.1	104

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37	Hydrogen Release from Mg(NH2)2â˜MgH2through Mechanochemical Reaction. Journal of Physical Chemistry B, 2006, 110, 14688-14692.	2.6	103
38	Improvement of Hydrogen Storage Properties of the Liâ€“Mgâ€“Nâ€“H System by Addition of LiBH₄. Chemistry of Materials, 2008, 20, 4398-4402.	6.7	102
39	Enantioselective Reactions of 2â€Sulfonylalkyl Phenols with Allenic Esters: Dynamic Kinetic Resolution and [4+2] Cycloaddition Involving orthoâ€Quinone Methide Intermediates. Angewandte Chemie - International Edition, 2017, 56, 3689-3693.	13.8	100
40	Synthesis of sodium amidoborane (NaNH2BH3) for hydrogen production. Energy and Environmental Science, 2008, 1, 360.	30.8	99
41	Self-assembled three-dimensional hierarchical graphene hybrid hydrogels with ultrathin Î²-MnO₂ nanobelts for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 1540-1548.	10.3	97
42	Structure and Hydrogen Storage Properties of Calcium Borohydride Diammoniate. Chemistry of Materials, 2010, 22, 6021-6028.	6.7	91
43	Metalâ€“Nâ€“H systems for the hydrogen storage. Scripta Materialia, 2007, 56, 817-822.	5.2	90
44	Polysiloxane Functionalized Carbon Dots and Their Cross-Linked Flexible Silicone Rubbers for Color Conversion and Encapsulation of White LEDs. ACS Applied Materials & Interfaces, 2016, 8, 9961-9968.	8.0	88
45	Structural and Compositional Changes during Hydrogenation/Dehydrogenation of the Liâ˜Mgâ˜Nâ˜H System. Journal of Physical Chemistry C, 2007, 111, 18439-18443.	3.1	85
46	Calcium Amidoborane Ammoniateâ€”Synthesis, Structure, and Hydrogen Storage Properties. Chemistry of Materials, 2009, 21, 4899-4904.	6.7	84
47	Complex and liquid hydrides for energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	81
48	Alkali and Alkaline Earth Hydrides-Driven N₂ Activation and Transformation over Mn Nitride Catalyst. Journal of the American Chemical Society, 2018, 140, 14799-14806.	13.7	81
49	LiNH2BH3Â·NH3BH3: Structure and Hydrogen Storage Properties. Chemistry of Materials, 2010, 22, 3-5.	6.7	76
50	Lithium Imide Synergy with 3d Transitionâ€Metal Nitrides Leading to Unprecedented Catalytic Activities for Ammonia Decomposition. Angewandte Chemie - International Edition, 2015, 54, 2950-2954.	13.8	76
51	Development of coking-resistant Ni-based catalyst for partial oxidation and CO2-reforming of methane to syngas. Applied Catalysis A: General, 1998, 166, 343-350.	4.3	75
52	Releasing 17.8 wt% H2 from lithium borohydride ammoniate. Energy and Environmental Science, 2011, 4, 3593.	30.8	74
53	Production of high quality single- or few-layered graphene by solid exfoliation of graphite in the presence of ammonia borane. Chemical Communications, 2013, 49, 7890.	4.1	74
54	Bayberry tannin immobilized bovine serum albumin nanospheres: characterization, irradiation stability and selective removal of uranyl ions from radioactive wastewater. Journal of Materials Chemistry A, 2018, 6, 15359-15370.	10.3	74

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55	Single Photon Ionization and Chemical Ionization Combined Ion Source Based on a Vacuum Ultraviolet Lamp for Orthogonal Acceleration Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 5309-5316.	6.5	73
56	Interaction of lithium hydride and ammonia borane in THF. Chemical Communications, 2008, , 5595.	4.1	70
57	Covalent triazine framework-supported palladium nanoparticles for catalytic hydrogenation of N-heterocycles. Journal of Materials Chemistry A, 2015, 3, 16235-16241.	10.3	69
58	Hydrogen absorption and desorption in Mgâ€“Naâ€“Nâ€“H system. Journal of Alloys and Compounds, 2005, 395, 209-212.	5.5	68
59	Borohydride hydrazinates: high hydrogen content materials for hydrogenstorage. Energy and Environmental Science, 2012, 5, 5686-5689.	30.8	68
60	Ternary ruthenium complex hydrides for ammonia synthesis via the associative mechanism. Nature Catalysis, 2021, 4, 959-967.	34.4	67
61	Investigations on hydrogen storage over Liâ€“Mgâ€“Nâ€“H complexâ€”the effect of compositional changes. Journal of Alloys and Compounds, 2006, 417, 190-194.	5.5	66
62	Synthesis, structure and dehydrogenation of magnesium amidoborane monoammoniate. Chemical Communications, 2010, 46, 5752.	4.1	65
63	Highly Efficient Ru/MgO Catalyst with Surfaceâ€Enriched Basic Sites for Production of Hydrogen from Ammonia Decomposition. ChemCatChem, 2019, 11, 4161-4170.	3.7	63
64	High color rendering index trichromatic white and red LEDs prepared from silane-functionalized carbon dots. Journal of Materials Chemistry C, 2017, 5, 9629-9637.	5.5	62
65	Investigation on chemical reaction between LiAlH4 and LiNH2. Journal of Power Sources, 2006, 159, 167-170.	7.8	58
66	The Formation of Surface Lithiumâ€“Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures. Angewandte Chemie - International Edition, 2017, 56, 8716-8720.	13.8	58
67	Cobalt-catalyzed hydrogen desorption from the LiNH2â€“LiBH4 system. Dalton Transactions, 2008, , 2395.	3.3	56
68	High-Pressure Photon Ionization Source for TOFMS and Its Application for Online Breath Analysis. Analytical Chemistry, 2016, 88, 9047-9055.	6.5	54
69	Bioconcentration of organic dyes via fungal hyphae and their derived carbon fibers for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 10710-10717.	10.3	54
70	Highly Active MnNâ€“Li₂NH Composite Catalyst for Producing CO_x-Free Hydrogen. ACS Catalysis, 2015, 5, 2708-2713.	11.2	53
71	One minute from pristine carbon to an electrocatalyst for hydrogen peroxide production. Journal of Materials Chemistry A, 2019, 7, 21329-21337.	10.3	53
72	Stepwise Phase Transition in the Formation of Lithium Amidoborane. Inorganic Chemistry, 2010, 49, 4319-4323.	4.0	51

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73	Recent Advances in Transition-Metal-Mediated Electrocatalytic CO2 Reduction: From Homogeneous to Heterogeneous Systems. Catalysts, 2017, 7, 373.	3.5	48
74	Amides and borohydrides for high-capacity solid-state hydrogen storageâ€"materials design and kinetic improvements. MRS Bulletin, 2013, 38, 480-487.	3.5	47
75	Effects of Alkaline Earth Metal Amides on Ru in Catalytic Ammonia Decomposition. Journal of Physical Chemistry C, 2016, 120, 2822-2828.	3.1	45
76	Investigation on the Properties of the Mixture Consisting of Mg(NH2)2, LiH, and LiBH4 as a Hydrogen Storage Material. Chemistry of Materials, 2008, 20, 7089-7094.	6.7	43
77	Li⁺ionic conductivities and diffusion mechanisms in Li-based imides and lithium amide. Physical Chemistry Chemical Physics, 2012, 14, 1596-1606.	2.8	43
78	In situ bifunctionalized carbon dots with boronic acid and amino groups for ultrasensitive dopamine detection. Analytical Methods, 2016, 8, 3236-3241.	2.7	43
79	Synthesis and Characterization of a New Ternary ImideLi2Ca(NH)2. Inorganic Chemistry, 2007, 46, 517-521.	4.0	42
80	Electronic promoter or reacting species? The role of LiNH₂ on Ru in catalyzing NH₃ decomposition. Chemical Communications, 2015, 51, 15161-15164.	4.1	42
81	Effects of ball-milling conditions on dehydrogenation of Mg(NH2)2â€"MgH2. Journal of Power Sources, 2006, 159, 120-125.	7.8	41
82	Growth of Crystalline Polyaminoborane through Catalytic Dehydrogenation of Ammonia Borane on FeB Nanoalloy. Chemistry - A European Journal, 2010, 16, 12814-12817.	3.3	40
83	Improvement of the hydrogen-storage performances of Liâ€"Mgâ€"Nâ€"H system. Journal of Materials Research, 2007, 22, 1339-1345.	2.6	39
84	Materials design and modification on amide-based composites for hydrogen storage. Progress in Natural Science: Materials International, 2012, 22, 550-560.	4.4	39
85	Comparative study on reducing aromatic aldehydes by using ammonia borane and lithium amidoborane as reducing reagents. New Journal of Chemistry, 2012, 36, 1496.	2.8	39
86	High performance stainless-steel supported Pd membranes with a finger-like and gap structure and its application in NH3 decomposition membrane reactor. Chemical Engineering Journal, 2020, 388, 124245.	12.7	39
87	Effective thermodynamic alteration to Mg(NH₂)₂â€"LiH system: achieving near ambient-temperature hydrogen storage. Journal of Materials Chemistry A, 2014, 2, 15816-15822.	10.3	37
88	Synthesis and microwave absorbing properties of poly(3,4â€ethylenedioxythiophene) (PEDOT) microspheres. Polymers for Advanced Technologies, 2011, 22, 532-537.	3.2	36
89	Photoionization-Generated Dibromomethane Cation Chemical Ionization Source for Time-of-Flight Mass Spectrometry and Its Application on Sensitive Detection of Volatile Sulfur Compounds. Analytical Chemistry, 2016, 88, 5028-5032.	6.5	36
90	Interplay of Alkali, Transition Metals, Nitrogen, and Hydrogen in Ammonia Synthesis and Decomposition Reactions. Accounts of Chemical Research, 2021, 54, 2434-2444.	15.6	36

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91	Hydrogen Sorption from the Mg(NH₂)₂â€KH System and Synthesis of an Amideâ€“Imide Complex of KMg(NH)(NH₂). ChemSusChem, 2011, 4, 1622-1628.	6.8	35
92	Enhanced hydrogen desorption from the Co-catalyzed LiBH4â€“Mg(BH4)2 eutectic composite. International Journal of Hydrogen Energy, 2012, 37, 12425-12431.	7.1	35
93	Hydrogen Storage Properties of Ca(BH₄)₂â€“LiNH₂ System. Chemistry - an Asian Journal, 2010, 5, 1594-1599.	3.3	34
94	Highly efficient carbon dots and their nanohybrids for trichromatic white LEDs. Journal of Materials Chemistry C, 2018, 6, 5957-5963.	5.5	34
95	Hydrogen releasing reaction between Mg(NH2)2 and CaH2. Journal of Power Sources, 2006, 159, 116-119.	7.8	33
96	Monoammoniate of Calcium Amidoborane: Synthesis, Structure, and Hydrogen-Storage Properties. Inorganic Chemistry, 2012, 51, 1599-1603.	4.0	33
97	From Exothermic to Endothermic Dehydrogenation â€“ Interaction of Monoammoniate of Magnesium Amidoborane and Metal Hydrides. Chemistry of Materials, 2012, 24, 3574-3581.	6.7	33
98	Near Ambient Condition Hydrogen Storage in a Synergized Tricomponent Hydride System. Advanced Energy Materials, 2017, 7, 1602456.	19.5	33
99	Large Amount of Hydrogen Desorption from the Mixture of Mg(NH₂)₂ and LiAlH₄. Journal of Physical Chemistry C, 2007, 111, 19161-19164.	3.1	32
100	Improved dehydrogenation properties of Ca(BH4)2-LiNH2 combined system. Dalton Transactions, 2010, 39, 10585.	3.3	32
101	Hydrides, Amides and Imides Mediated Ammonia Synthesis and Decomposition. Chinese Journal of Chemistry, 2019, 37, 442-451.	4.9	32
102	A multi-functional composite nitrogen carrier for ammonia production via a chemical looping route. Journal of Materials Chemistry A, 2021, 9, 1039-1047.	10.3	32
103	Controlled fabrication of highly conductive three-dimensional flowerlike poly (3,4-ethylenedioxythiophene) nanostructures. Journal of Materials Chemistry, 2011, 21, 7123.	6.7	31
104	Covalent triazine-based framework as an efficient catalyst support for ammonia decomposition. RSC Advances, 2015, 5, 3605-3610.	3.6	31
105	Caâ€“Naâ€“Nâ€“H system for reversible hydrogen storage. Journal of Alloys and Compounds, 2007, 441, 152-156.	5.5	30
106	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
107	Hydrogen storage properties of Liâ€“Caâ€“Nâ€“H system with different molar ratios of LiNH2/CaH2. International Journal of Hydrogen Energy, 2010, 35, 8317-8321.	7.1	30
108	Microwave absorbing properties of Fe₃O₄â€“poly(3, 4â€ethylenedioxythiophene) hybrids in lowâ€frequency band. Polymers for Advanced Technologies, 2014, 25, 83-88.	3.2	30

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109	A facile process to produce highly conductive poly(3,4-ethylenedioxythiophene) films for ITO-free flexible OLED devices. Journal of Materials Chemistry C, 2014, 2, 916-924.	5.5	29
110	Controllable Photoluminescent and Nonlinear Optical Properties of Polymerizable Carbon Dots and Their Arbitrary Copolymerized Gel Glasses. Advanced Optical Materials, 2018, 6, 1701273.	7.3	29
111	Lithium Palladium Hydride Promotes Chemical Looping Ammonia Synthesis Mediated by Lithium Imide and Hydride. Journal of Physical Chemistry C, 2021, 125, 6716-6722.	3.1	29
112	Recent Advances of Catalysis in the Hydrogenation and Dehydrogenation of N-Heterocycles for Hydrogen Storage. Journal of Physical Chemistry C, 2021, 125, 18553-18566.	3.1	29
113	Investigations into the interaction between hydrogen and calcium nitride. Journal of Materials Chemistry, 2003, 13, 1676.	6.7	28
114	Investigations on hydrogen desorption from the mixture of Mg(NH2)2 and CaH2. Journal of Alloys and Compounds, 2007, 432, 298-302.	5.5	28
115	Alkali Metal Hydride Modification on Hydrazine Borane for Improved Dehydrogenation. Journal of Physical Chemistry C, 2014, 118, 11244-11251.	3.1	28
116	Synthesis, structures and dehydrogenation of magnesium borohydrideâ€“ethylenediamine composites. International Journal of Hydrogen Energy, 2015, 40, 412-419.	7.1	28
117	Ammonia Decomposition with Manganese Nitrideâ€“Calcium Imide Composites as Efficient Catalysts. ChemSusChem, 2016, 9, 364-369.	6.8	28
118	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. Chemistry - A European Journal, 2017, 23, 9766-9771.	3.3	28
119	Understanding from First-Principles Why LiNH2BH3Â·NH3BH3 Shows Improved Dehydrogenation over LiNH2BH3 and NH3BH3. Journal of Physical Chemistry C, 2010, 114, 19089-19095.	3.1	27
120	Effects of Al-based additives on the hydrogen storage performance of the Mg(NH2)2â€“2LiH system. Dalton Transactions, 2013, 42, 5524.	3.3	27
121	Solidâ€“Solid Heterogeneous Catalysis: The Role of Potassium in Promoting the Dehydrogenation of the Mg(NH₂)₂/2â€‰LiH Composite. ChemSusChem, 2013, 6, 2181-2189.	6.8	27
122	Formation and Equilibrium of Ammonia in the Mg(NH₂)₂â^'2LiH Hydrogen Storage System. Journal of Physical Chemistry C, 2008, 112, 1293-1298.	3.1	26
123	Alkali and alkaline-earth metal borohydride hydrazinates: synthesis, structures and dehydrogenation. Physical Chemistry Chemical Physics, 2013, 15, 10487.	2.8	26
124	Ammonia borane assisted solid exfoliation of graphite fluoride for facile preparation of fluorinated graphene nanosheets. Carbon, 2015, 81, 702-709.	10.3	26
125	Melamine assisted solid exfoliation approach for the synthesis of few-layered fluorinated graphene nanosheets. Materials Letters, 2016, 171, 191-194.	2.6	26
126	Highly Dispersed Ruthenium Nanoparticles on Y₂O₃ as Superior Catalyst for Ammonia Decomposition. ChemCatChem, 2021, 13, 1552-1558.	3.7	26

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127	Improved Dehydrogenation Properties of Calcium Borohydride Combined with Alkaline-Earth Metal Amides. Journal of Physical Chemistry C, 2011, 115, 18035-18041.	3.1	25
128	Improved kinetics of the Mg(NH₂)₂â€“2LiH system by addition of lithium halides. RSC Advances, 2014, 4, 32555.	3.6	25
129	NH₃ Mediated or Ion Migration Reaction: The Case Study on Halideâ€“Amide System. Journal of Physical Chemistry C, 2014, 118, 2344-2349.	3.1	25
130	Guanidinium octahydrotriborate: an ionic liquid with high hydrogen storage capacity. Journal of Materials Chemistry A, 2015, 3, 11411-11416.	10.3	25
131	Enantioselective Reactions of 2-Sulfonylalkyl Phenols with Allenic Esters: Dynamic Kinetic Resolution and [4+2] Cycloaddition Involving ortho -Quinone Methide Intermediates. Angewandte Chemie, 2017, 129, 3743-3747.	2.0	25
132	A one-pot hydrothermal synthesis of 3D nitrogen-doped graphene aerogels-supported NiS2 nanoparticles as efficient electrocatalysts for the oxygen-reduction reaction. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	23
133	Long-Term Real-Time Monitoring Catalytic Synthesis of Ammonia in a Microreactor by VUV-Lamp-Based Charge-Transfer Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2014, 86, 7681-7687.	6.5	23
134	Influence of alkali metal amides on the catalytic activity of manganese nitride for ammonia decomposition. Catalysis Today, 2017, 286, 141-146.	4.4	23
135	Reversible Hydrogen Uptake/Release over a Sodium Phenoxideâ€“Cyclohexanolate Pair. Angewandte Chemie - International Edition, 2019, 58, 3102-3107.	13.8	23
136	The Power of Hydrides. Joule, 2020, 4, 705-709.	24.0	23
137	Ammonia history in the making. Nature Catalysis, 2021, 4, 734-735.	34.4	23
138	Synergizing Surface Hydride Species and Ru Clusters on Sm₂O₃ for Efficient Ammonia Synthesis. ACS Catalysis, 2022, 12, 2178-2190.	11.2	23
139	Hydrogen absorption/desorption behaviors over a quaternary Mgâ€“Caâ€“Liâ€“Nâ€“H system. Journal of Power Sources, 2006, 159, 135-138.	7.8	22
140	Synthesis and Structural Characterization of a New Alkaline Earth Imide: MgCa(NH)2. European Journal of Inorganic Chemistry, 2006, 2006, 4368-4373.	2.0	22
141	Superionicity in the hydrogen storage material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Li</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Molecular dynamics simulations. Physical Review B, 2009, 79, .	3.2	22
142	Metal Amidoboranes: Superior Doubleâ€Hydrogenâ€Transfer Agents in the Reduction of Ketones and Imines. Chemistry - A European Journal, 2012, 18, 13885-13892.	3.3	22
143	CMK3/graphene-N-Co â€“ a low-cost and high-performance catalytic system. Journal of Materials Chemistry A, 2015, 3, 2978-2984.	10.3	22
144	Bulk Production of Nonprecious Metal Catalysts from Cheap Starch as Precursor and Their Excellent Electrochemical Activity. ACS Sustainable Chemistry and Engineering, 2016, 4, 3235-3244.	6.7	22

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145	Metallo-N-Heterocycles - A new family of hydrogen storage material. Energy Storage Materials, 2020, 26, 198-202.	18.0	22
146	Effect of BaNH, CaNH, Mg3N2 on the activity of Co in NH3 decomposition catalysis. Journal of Energy Chemistry, 2020, 46, 16-21.	12.9	22
147	A highly enantioselective thiolation of sulfonyl indoles to access 3-sec-sulfur-substituted indoles in water. Chemical Communications, 2016, 52, 96-99.	4.1	21
148	Ru Nanoparticles on Pr2O3 as an Efficient Catalyst for Hydrogen Production from Ammonia Decomposition. Catalysis Letters, 2022, 152, 1170-1181.	2.6	21
149	Lithium amidoborane, a highly chemoselective reagent for the reduction of Î±,Î²-unsaturated ketones to allylic alcohols. Organic and Biomolecular Chemistry, 2012, 10, 367-371.	2.8	20
150	Solid Exfoliation of Hexagonal Boron Nitride Crystals for the Synthesis of Few-layer Boron Nitride Nanosheets. Chemistry Letters, 2013, 42, 1415-1416.	1.3	20
151	A N-, Fe- and Co-tridoped carbon nanotube/nanoporous carbon nanocomposite with synergistically enhanced activity for oxygen reduction in acidic media. Journal of Materials Chemistry A, 2015, 3, 17866-17873.	10.3	20
152	Metalâ€“support interaction-modulated catalytic activity of Ru nanoparticles on Sm2O3 for efficient ammonia decomposition. Catalysis Science and Technology, 2021, 11, 2915-2923.	4.1	20
153	Enabling Semihydrogenation of Alkynes to Alkenes by Using a Calcium Palladium Complex Hydride. Journal of the American Chemical Society, 2021, 143, 20891-20897.	13.7	20
154	Improving Effects of LiH and Co-Catalyst on the Dehydrogenation of Li₄BN₃H₁₀. Journal of Physical Chemistry C, 2011, 115, 8840-8844.	3.1	19
155	The enhanced hydrogen storage performance ofÂ(Mgâ€“Bâ€“Nâ€“H)-doped Mg(NH2)â€“2LiH system. International Journal of Hydrogen Energy, 2014, 39, 1710-1718.	7.1	19
156	The improved Hydrogen Storage Performances of the Multi-Component Composite: 2Mg(NH2)2â€“3LiHâ€“LiBH4. Energies, 2015, 8, 6898-6909.	3.1	19
157	An improved synthesis of unsolvated NaB 3 H 8 and its application in preparing Na 2 B 12 H 12. International Journal of Hydrogen Energy, 2016, 41, 15471-15476.	7.1	19
158	Room temperature synthesis of reduced TiO₂ and its application as a support for catalytic hydrogenation. RSC Advances, 2017, 7, 4306-4311.	3.6	19
159	Barium chromium nitride-hydride for ammonia synthesis. Chem Catalysis, 2021, 1, 1042-1054.	6.1	19
160	The impact of alkali and alkaline earth metals on green ammonia synthesis. CheM, 2021, 7, 3203-3220.	11.7	19
161	Fabrication of oxygen vacancies through assembling an amorphous titanate overlayer on titanium oxide for a catalytic waterâ€“gas shift reaction. Journal of Materials Chemistry A, 2021, 9, 2784-2791.	10.3	19
162	Investigations on the solid state interaction between LiAlH4 and NaNH2. Journal of Solid State Chemistry, 2010, 183, 2040-2044.	2.9	18

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