Torben Rene Jensen

List of Publications by Year in descending order

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		17440	23533
295	15,852	63	111
papers	citations	h-index	g-index

320	320	320	7770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamical properties of lithium borohydride â€“ ammine composite LiBH4Â·NH3: A nuclear magnetic resonance study. Journal of Alloys and Compounds, 2022, 894, 162446.	5.5	3
2	New perspectives of functional metal borohydrides. Journal of Alloys and Compounds, 2022, 896, 163014.	5.5	25
3	Fast Room-Temperature Mg²⁺ Conductivity in Mg(BH₄)₂Â·1.6NH₃â€“Al₂O₃ Nanocomposites. Journal of Physical Chemistry Letters, 2022, 13, 2211-2216.	4.6	18
4	Metallic and complex hydride-based electrochemical storage of energy. Progress in Energy, 2022, 4, 032001.	10.9	26
5	Hydrogen storage in complex hydrides: past activities and new trends. Progress in Energy, 2022, 4, 032009.	10.9	23
6	Methylamine Lithium Borohydride as Electrolyte for Allâ€Solidâ€State Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
7	Methylamine Lithium Borohydride as Electrolyte for Allâ€Solidâ€State Batteries. Angewandte Chemie, 2022, 134, .	2.0	2
8	Nuclear magnetic resonance study of hydrogen dynamics in the complex hydride LiBH4 Â· NH3. AIP Conference Proceedings, 2022, , .	0.4	0
9	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. Progress in Energy, 2022, 4, 032007.	10.9	29
10	¹¹B Nuclear Spinâ€“Electron Spin Interactions in ¹¹B MAS NMR Spectra of Paramagnetic Metal Borohydrides. Journal of Physical Chemistry C, 2021, 125, 1113-1124.	3.1	3
11	Interplay between the Reorientational Dynamics of the B₃H₈^{â€“} Anion and the Structure in KB₃H₈. Journal of Physical Chemistry C, 2021, 125, 3716-3724.	3.1	10
12	Molecular Dynamics in Ag₂B₁₂H₁₂ Studied by Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2021, 125, 5534-5541.	3.1	9
13	NMR Study of the Dynamical Properties of LiLa(BH4)3Br and LiLa(BH4)3I. Applied Magnetic Resonance, 2021, 52, 595-606.	1.2	8
14	Iodine-Substituted Lithium/Sodium closo-Decaborates: Syntheses, Characterization, and Solid-State Ionic Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 17554-17564.	8.0	26
15	Lithium-ion diffusivity in complex hydrides: Pulsed-field-gradient NMR studies of LiLa(BH4)3Cl, Li3(NH2)2I and Li-1-CB9H10. Solid State Ionics, 2021, 362, 115585.	2.7	7
16	Synthesis and crystal structures of decahydro-closo-decaborates of the divalent cations of strontium and manganese. Journal of Solid State Chemistry, 2021, 298, 122133.	2.9	5
17	Polymorphism of Calcium Decahydrido-closo-decaborate and Characterization of Its Hydrates. Inorganic Chemistry, 2021, 60, 10943-10957.	4.0	6
18	Neutron Scattering Investigations of the Global and Local Structures of Ammine Yttrium Borohydrides. Journal of Physical Chemistry C, 2021, 125, 15415-15423.	3.1	6

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19	Structural and dynamic studies of Pr(11BH4)3. International Journal of Hydrogen Energy, 2021, 46, 32126-32134.	7.1	2
20	Interface controlled solid-state lithium storage performance in free-standing bismuth nanosheets. Dalton Transactions, 2021, 50, 252-261.	3.3	8
21	Trends in the Series of Ammine Rare-Earth-Metal Borohydrides: Relating Structural and Thermal Properties. Inorganic Chemistry, 2021, 60, 2573-2589.	4.0	10
22	Heat capacity and thermodynamic properties of alkali and alkali-earth borohydrides. Journal of Chemical Thermodynamics, 2020, 143, 106055.	2.0	9
23	Materials for hydrogen-based energy storage â€“ past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	5.5	518
24	Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metalâ€“Organic Framework. ACS Nano, 2020, 14, 10294-10304.	14.6	40
25	Ammoniumâ€“Ammonia Complexes, N2H7+, in Ammonium closo-Borate Ammines: Synthesis, Structure, and Properties. Inorganic Chemistry, 2020, 59, 11449-11458.	4.0	6
26	Structural Diversity and Trends in Properties of an Array of Hydrogen-Rich Ammonium Metal Borohydrides. Inorganic Chemistry, 2020, 59, 12733-12747.	4.0	16
27	Nanoscale Mgâ€“B via Surfactant Ball Milling of MgB₂: Morphology, Composition, and Improved Hydrogen Storage Properties. Journal of Physical Chemistry C, 2020, 124, 21761-21771.	3.1	17
28	Ammine Magnesium Borohydride Nanocomposites for All-Solid-State Magnesium Batteries. ACS Applied Energy Materials, 2020, 3, 9264-9270.	5.1	53
29	Synthesis, Crystal Structures and Thermal Properties of Ammine Barium Borohydrides. Inorganics, 2020, 8, 57.	2.7	4
30	Hydroxylated closo-Dodecaborates M₂B₁₂(OH)₁₂ (M = Li,) Tj ETQq0 0 0 rgBT /Overlock 1 Physical Chemistry C, 2020, 124, 11340-11349.	3.1	17
31	Ammine Lanthanum and Cerium Borohydrides, M(BH₄)₃Â·nNH₃; Trends in Synthesis, Structures, and Thermal Properties. Inorganic Chemistry, 2020, 59, 7768-7778.	4.0	19
32	The mechanism of Mg²⁺ conduction in ammine magnesium borohydride promoted by a neutral molecule. Physical Chemistry Chemical Physics, 2020, 22, 9204-9209.	2.8	70
33	Ammonia-assisted fast Li-ion conductivity in a new hemiammine lithium borohydride, LiBH₄Â·1/2NH₃. Chemical Communications, 2020, 56, 3971-3974.	4.1	60
34	Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarbaborate Anions. Chemistry of Materials, 2020, 32, 1475-1487.	6.7	35
35	Probing the local symmetry of Tb3+ in borohydrides using luminescence spectroscopy. Journal of Luminescence, 2020, 221, 117065.	3.1	9
36	Hydrogen Sorption and Reversibility of the LiBH4-KBH4 Eutectic System Confined in a CMK-3 Type Carbon via Melt Infiltration. Journal of Carbon Research, 2020, 6, 19.	2.7	7

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37	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>NH</mml:mi><mml:mn>4</mml:mn><mml:mo>+</ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>BH</mml:mi><mml:mn>4</mml:mn><mml:mo>â^' reorientational dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NH</mml:mi><mml:mn>4</mml:mn>	2.4	10
38	Reactivity of magnesium borohydride â€“ Metal hydride composites, Î³-Mg(BH4)2-MHx, MÂ= Li, Na, Mg, Ca. Journal of Alloys and Compounds, 2019, 770, 1155-1163.	5.5	15
39	Crystal Structures and Energy Storage Properties of Ammine Sodium Decahydro-closo-decaboranes (Na2B10H10Â·nNH3, n = 1, 2). Journal of Physical Chemistry C, 2019, 123, 20160-20166.	3.1	10
40	Mechanochemistry of Metal Hydrides: Recent Advances. Materials, 2019, 12, 2778.	2.9	71
41	Magnesium based materials for hydrogen based energy storage: Past, present and future. International Journal of Hydrogen Energy, 2019, 44, 7809-7859.	7.1	460
42	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	3.3	34
43	Trends in Synthesis, Crystal Structure, and Thermal and Magnetic Properties of Rare-Earth Metal Borohydrides. Inorganic Chemistry, 2019, 58, 5503-5517.	4.0	31
44	Decomposition pathway of KAlH₄altered by the addition of Al₂S₃. Dalton Transactions, 2019, 48, 5048-5057.	3.3	1
45	Complexation of Ammonia Boranes with Al³⁺. Inorganic Chemistry, 2019, 58, 4753-4760.	4.0	8
46	The interconversion between THFÂ·B₃H₇ and B₃H₈^{â^'}: an efficient synthetic method for MB₃H₈ (M = Li and Na). Dalton Transactions, 2019, 48, 5140-5143.	3.3	15
47	Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887.	7.1	46
48	Comment on â€œBi-functional Li₂B₁₂H₁₂ for energy storage and conversion applications: solid-state electrolyte and luminescent down-conversion dyeâ€• by J. A. Teprovich Jr, H. ColÃ³n-Mercado, A. L. Washington II, P. A. Ward, S. Greenway, D. M. Missimer, H. Hartman, J. Velten, J. H. Christian and R. Zidan, J. Mater. Chem. A, 2015, 3, 22853. Journal of Materials Chemistry A, 2019, 7, 4185-4187.	10.3	7
49	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
50	Molten metal closo-borate solvates. Chemical Communications, 2019, 55, 3410-3413.	4.1	12
51	Analysis of Dihydrogen Bonding in Ammonium Borohydride. Journal of Physical Chemistry C, 2019, 123, 28631-28639.	3.1	22
52	Future perspectives of thermal energy storage with metal hydrides. International Journal of Hydrogen Energy, 2019, 44, 7738-7745.	7.1	112
53	Complex hydrides for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7860-7874.	7.1	123
54	Hydrogen sorption in TiZrNbHfTa high entropy alloy. Journal of Alloys and Compounds, 2019, 775, 667-674.	5.5	145

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55	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. Inorganic Chemistry, 2018, 57, 2103-2110.	4.0	121
56	Design of a Nanometric AlTi Additive for MgB₂-Based Reactive Hydride Composites with Superior Kinetic Properties. Journal of Physical Chemistry C, 2018, 122, 7642-7655.	3.1	29
57	Synthesis and thermal decomposition of potassium tetraamidoboranealuminate, K[Al(NH2BH3)4]. International Journal of Hydrogen Energy, 2018, 43, 311-321.	7.1	13
58	Disorder induced polymorphic transitions in the high hydrogen density compound Sr(BH₄)₂(NH₃BH₃)₂. Dalton Transactions, 2018, 47, 16737-16746.	3.3	5
59	Functional Materials Based on Metal Hydrides. Inorganics, 2018, 6, 91.	2.7	15
60	Synthesis, structure, and polymorphic transitions of praseodymium(<scp>iii</scp>) and neodymium(<scp>iii</scp>) borohydride, Pr(BH₄)₃ and Nd(BH₄)₃. Dalton Transactions, 2018, 47, 8307-8319.	3.3	19
61	Reorientational Motions and Ionic Conductivity in (NH4)2B10H10and (NH4)2B12H12. Journal of Physical Chemistry C, 2018, 122, 17073-17079.	3.1	10
62	Kinetics and thermodynamics of hydrogenation-dehydrogenation for Mg-25%TM (TMÂ=ÂTi, Nb or V) composites synthesized by reactive ball milling in hydrogen. International Journal of Hydrogen Energy, 2018, 43, 16804-16814.	7.1	57
63	From Metal Hydrides to Metal Borohydrides. Inorganic Chemistry, 2018, 57, 10768-10780.	4.0	45
64	Hydrogenation properties of lithium and sodium hydride â€“ closo-borate, [B₁₀H₁₀]^{2â^’} and [B₁₂H₁₂]^{2â^’}, composites. Physical Chemistry Chemical Physics, 2018, 20, 16266-16275.	2.8	18
65	Compaction of LiBH4-LiAlH4 nanoconfined in activated carbon nanofibers: Dehydrogenation kinetics, reversibility, and mechanical stability during cycling. International Journal of Hydrogen Energy, 2017, 42, 1036-1047.	7.1	17
66	Hydrogen - A sustainable energy carrier. Progress in Natural Science: Materials International, 2017, 27, 34-40.	4.4	541
67	Metal borohydrides and derivatives â€“ synthesis, structure and properties. Chemical Society Reviews, 2017, 46, 1565-1634.	38.1	320
68	Nanoconfined NaAlH₄ Conversion Electrodes for Li Batteries. ACS Omega, 2017, 2, 1956-1967.	3.5	18
69	Multifunctionality of silver closo-boranes. Nature Communications, 2017, 8, 15136.	12.8	66
70	Li₅(BH₄)₃NH: Lithium-Rich Mixed Anion Complex Hydride. Journal of Physical Chemistry C, 2017, 121, 11069-11075.	3.1	16
71	In situ investigations of bimetallic potassium erbium borohydride. International Journal of Hydrogen Energy, 2017, 42, 22468-22474.	7.1	14
72	A NaAlH4-Ca(BH4)2 composite system for hydrogen storage. Journal of Alloys and Compounds, 2017, 720, 497-501.	5.5	13

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73	Synthesis, structures and thermal decomposition of ammine MxB12H12complexes (M = Li, Na, Ca). Dalton Transactions, 2017, 46, 7770-7781.	3.3	11
74	Halogenated Sodium-closo-Dodecaboranes as Solid-State Ion Conductors. Chemistry of Materials, 2017, 29, 3423-3430.	6.7	73
75	Fluoride substitution in LiBH₄; destabilization and decomposition. Physical Chemistry Chemical Physics, 2017, 19, 30157-30165.	2.8	30
76	Phase diagrams of the LiBH₄â€“NaBH₄â€“KBH₄ system. Physical Chemistry Chemical Physics, 2017, 19, 25071-25079.	2.8	20
77	Synthesis, structure and properties of bimetallic sodium rare-earth (RE) borohydrides, NaRE(BH₄)₄, RE = Ce, Pr, Er or Gd. Dalton Transactions, 2017, 46, 13421-13431.	3.3	17
78	Reversibility of LiBH₄ Facilitated by the LiBH₄â€“Ca(BH₄)₂ Eutectic. Journal of Physical Chemistry C, 2017, 121, 18439-18449.	3.1	16
79	Synthesis, Structure, and Li-Ion Conductivity of LiLa(BH₄)₃X, X = Cl, Br, I. Journal of Physical Chemistry C, 2017, 121, 19010-19021.	3.1	32
80	Perovskite alkali metal samarium borohydrides: crystal structures and thermal decomposition. Dalton Transactions, 2017, 46, 11905-11912.	3.3	14
81	Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. Energies, 2017, 10, 1645.	3.1	152
82	Hydrogen Sorption in Erbium Borohydride Composite Mixtures with LiBH4 and/or LiH. Inorganics, 2017, 5, 31.	2.7	23
83	Hydrogen Storage Stability of Nanoconfined MgH2 upon Cycling. Inorganics, 2017, 5, 57.	2.7	21
84	Hydrogen Desorption Properties of Bulk and Nanoconfined LiBH4-NaAlH4. Crystals, 2016, 6, 70.	2.2	18
85	Disorder, dynamic and entropy effects in the solid state. , 2016, , .		1
86	Mgâ€“Ti nanoparticles with superior kinetics for hydrogen storage. International Journal of Hydrogen Energy, 2016, 41, 14447-14454.	7.1	57
87	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. International Journal of Hydrogen Energy, 2016, 41, 14404-14428.	7.1	94
88	Barium borohydride chlorides: synthesis, crystal structures and thermal properties. Dalton Transactions, 2016, 45, 8291-8299.	3.3	8
89	Destabilization of lithium hydride and the thermodynamic assessment of the Liâ€“Alâ€“H system for solar thermal energy storage. RSC Advances, 2016, 6, 94927-94933.	3.6	20
90	Synthesis, Structures and Dehydrogenation Properties of Zinc Borohydride Ethylenediamine Complexes. ChemistrySelect, 2016, 1, 752-755.	1.5	5

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91	Lithium Ion Disorder and Conduction Mechanism in LiCe(BH₄)₃Cl. Journal of Physical Chemistry C, 2016, 120, 19035-19042.	3.1	20
92	Metal borohydride formation from aluminium boride and metal hydrides. Physical Chemistry Chemical Physics, 2016, 18, 27545-27553.	2.8	15
93	From M(BH4)3 (M = La, Ce) Borohydride Frameworks to Controllable Synthesis of Porous Hydrides and Ion Conductors. Inorganic Chemistry, 2016, 55, 9748-9756.	4.0	32
94	Solid state synthesis, structural characterization and ionic conductivity of bimetallic alkali-metal yttrium borohydrides MY(BH₄)₄ (M = Li and Na). Journal of Materials Chemistry A, 2016, 4, 8793-8802.	10.3	37
95	Synthesis, structure and properties of new bimetallic sodium and potassium lanthanum borohydrides. Dalton Transactions, 2016, 45, 19002-19011.	3.3	22
96	Thermal decomposition of sodium amide, NaNH₂, and sodium amide hydroxide composites, NaNH₂â€“NaOH. Physical Chemistry Chemical Physics, 2016, 18, 25257-25264.	2.8	17
97	Nuclear Magnetic Resonance Study of Molecular Dynamics in Ammine Metal Borohydride Sr(BH₄)₂(NH₃)₂. Journal of Physical Chemistry C, 2016, 120, 24646-24654.	3.1	14
98	The influence of LiH on the rehydrogenation behavior of halide free rare earth (RE) borohydrides (RE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	26
99	Reaction Pathways in Ca(BH4)2â€“NaNH2 and Mg(BH4)2â€“NaNH2 Hydrogen-Rich Systems. Journal of Physical Chemistry C, 2016, 120, 8428-8435.	3.1	18
100	Integration of phase change materials in compressed hydrogen gas systems: Modelling and parametric analysis. International Journal of Hydrogen Energy, 2016, 41, 1060-1073.	7.1	10
101	Cyclic stability and structure of nanoconfined Ti-doped NaAlH 4. International Journal of Hydrogen Energy, 2016, 41, 4159-4167.	7.1	16
102	A thermodynamic investigation of the LiBH₄â€“NaBH₄ system. RSC Advances, 2016, 6, 60101-60108.	3.6	23
103	Review of magnesium hydride-based materials: development and optimisation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	274
104	Metal boranes: Progress and applications. Coordination Chemistry Reviews, 2016, 323, 60-70.	18.8	120
105	Mg-based compounds for hydrogen and energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	146
106	High-Pressure Study of Mn(BH4)2 Reveals a Stable Polymorph with High Hydrogen Density. Chemistry of Materials, 2016, 28, 274-283.	6.7	17
107	Sulfurized metal borohydrides. Dalton Transactions, 2016, 45, 639-645.	3.3	10
108	Synthesis and decomposition of Li₃Na(NH₂)₄ and investigations of Liâ€“Naâ€“Nâ€“H based systems for hydrogen storage. Physical Chemistry Chemical Physics, 2016, 18, 1735-1742.	2.8	10

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109	Synthesis and thermal stability of perovskite alkali metal strontium borohydrides. Dalton Transactions, 2016, 45, 831-840.	3.3	19
110	2LiBH4â€“MgH2 nanoconfined into carbon aerogel scaffold impregnated with ZrCl4 for reversible hydrogen storage. Materials Chemistry and Physics, 2016, 169, 136-141.	4.0	30
111	Complex and liquid hydrides for energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	81
112	Mechanism and kinetics of early transition metal hydrides, oxides, and chlorides to enhance hydrogen release and uptake properties of MgH₂. Powder Diffraction, 2015, 30, S9-S15.	0.2	22
113	Hydrogen storage properties of nanoconfined LiBH 4 â€“NaBH 4. International Journal of Hydrogen Energy, 2015, 40, 14916-14924.	7.1	34
114	Phase Diagram for the NaBH₄â€“KBH₄ System and the Stability of a Na_{1â€“x}K_xBH₄ Solid Solution. Journal of Physical Chemistry C, 2015, 119, 27919-27929.	3.1	27
115	A Composite of Complex and Chemical Hydrides Yields the First Alâ€Based Amidoborane with Improved Hydrogen Storage Properties. Chemistry - A European Journal, 2015, 21, 14562-14570.	3.3	31
116	Ammine Calcium and Strontium Borohydrides: Syntheses, Structures, and Properties. ChemSusChem, 2015, 8, 3472-3482.	6.8	24
117	Tailoring the Properties of Ammine Metal Borohydrides for Solidâ€State Hydrogen Storage. ChemSusChem, 2015, 8, 1452-1463.	6.8	58
118	Effect of Eutectic Melting, Reactive Hydride Composites, and Nanoconfinement on Decomposition and Reversibility of LiBH₄â€“KBH₄. Journal of Physical Chemistry C, 2015, 119, 25818-25825.	3.1	31
119	Alkali metal â€“ yttrium borohydrides: The link between coordination of small and large rare-earth. Journal of Solid State Chemistry, 2015, 225, 231-239.	2.9	27
120	Manganese borohydride; synthesis and characterization. Dalton Transactions, 2015, 44, 3988-3996.	3.3	46
121	Crystal structure and in situ decomposition of Eu(BH₄)₂ and Sm(BH₄)₂. Journal of Materials Chemistry A, 2015, 3, 691-698.	10.3	42
122	Melting Behavior and Thermolysis of NaBH4â^'Mg(BH4)2 and NaBH4â^'Ca(BH4)2 Composites. Energies, 2015, 8, 2701-2713.	3.1	23
123	Hydrogen sorption and reaction mechanisms of nanoconfined 2LiBH4â€“NaAlH4. Journal of Alloys and Compounds, 2015, 633, 484-493.	5.5	23
124	Trends in Syntheses, Structures, and Properties for Three Series of Ammine Rare-Earth Metal Borohydrides, M(BH₄)₃Â·nNH₃ (M = Y, Gd, and Dy). Inorganic Chemistry, 2015, 54, 7402-7414.	4.0	41
125	Hydrogen Storage Properties of Nanoconfined LiBH₄â€“Mg₂NiH₄ Reactive Hydride Composites. Journal of Physical Chemistry C, 2015, 119, 5819-5826.	3.1	42
126	Challenges in the synthetic routes to Mn(BH₄)₂: insight into intermediate compounds. Dalton Transactions, 2015, 44, 6571-6580.	3.3	19

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127	Scandium functionalized carbon aerogel: Synthesis of nanoparticles and structure of a new ScOCl and properties of NaAlH4 as a function of pore size. Journal of Solid State Chemistry, 2015, 231, 190-197.	2.9	9
128	Hydrogen desorption and cycling properties of composites based on mesoporous carbons and a LiBH4â€“Ca(BH4)2 eutectic mixture. Journal of Alloys and Compounds, 2015, 645, S480-S484.	5.5	14
129	Ammine-Stabilized Transition-Metal Borohydrides of Iron, Cobalt, and Chromium: Synthesis and Characterization. Inorganic Chemistry, 2015, 54, 10477-10482.	4.0	32
130	In situ X-ray diffraction environments for high-pressure reactions. Journal of Applied Crystallography, 2015, 48, 1234-1241.	4.5	67
131	Hydrogen storage properties of nanoconfined LiBH4â€“Ca(BH4)2. Nano Energy, 2015, 11, 96-103.	16.0	58
132	Mapping the complete bonding network in KBH4 using the combined power of powder diffraction and maximum entropy method. Computational and Theoretical Chemistry, 2015, 1053, 245-253.	2.5	7
133	Effect of the Partial Replacement of CaH₂ with CaF₂ in the Mixed System CaH₂ + MgB₂. Journal of Physical Chemistry C, 2014, 118, 28409-28417.	3.1	17
134	Structure and properties of complex hydride perovskite materials. Nature Communications, 2014, 5, 5706.	12.8	168
135	Enhanced hydrogen reversibility of nanoconfined LiBH4â€“Mg(BH4)2. International Journal of Hydrogen Energy, 2014, 39, 9871-9876.	7.1	39
136	Synthesis, Crystal Structure, Thermal Decomposition, and ¹¹B MAS NMR Characterization of Mg(BH₄)₂(NH₃BH₃)₂. Journal of Physical Chemistry C, 2014, 118, 12141-12153.	3.1	41
137	Structure and thermal properties of composites with RE-borohydrides (RE = La, Ce, Pr, Nd, Sm, Eu, Gd,) Tj ETQq1 1 0.784314 rgBT /Ov	3.6	64
138	Hydrogen reversibility of LiBH₄â€“MgH₂â€“Al composites. Physical Chemistry Chemical Physics, 2014, 16, 8970-8980.	2.8	23
139	Eutectic melting of LiBH₄â€“KBH₄. Physical Chemistry Chemical Physics, 2014, 16, 24194-24199.	2.8	48
140	Novel solvates M(BH₄)₃S(CH₃)₂ and properties of halide-free M(BH₄)₃ (M = Y or Gd). Dalton Transactions, 2014, 43, 13333-13342.	3.3	52
141	A novel intermediate in the LiAlH₄â€“LiNH₂hydrogen storage system. Dalton Transactions, 2014, 43, 3095-3103.	3.3	14
142	Halide substitution in Ca(BH₄)₂. RSC Advances, 2014, 4, 4736-4742.	3.6	22
143	Characterization of Gasâ€Solid Reactions using In Situ Powder Xâ€ray Diffraction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3029-3043.	1.2	33
144	Supercritical N₂ Processing as a Route to the Clean Dehydrogenation of Porous Mg(BH₄)₂. Journal of the American Chemical Society, 2014, 136, 8181-8184.	13.7	24

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145	Nanoconfinement degradation in NaAlH4/CMK-1. International Journal of Hydrogen Energy, 2014, 39, 11103-11109.	7.1	33
146	Effective nanoconfinement of 2LiBH 4 â€“MgH 2 via simply MgH 2 premilling for reversible hydrogen storages. International Journal of Hydrogen Energy, 2014, 39, 15614-15626.	7.1	39
147	Hydrogen storage systems from waste Mg alloys. Journal of Power Sources, 2014, 270, 554-563.	7.8	75
148	Thermal Decomposition of Mn(BH₄)₂â€“M(BH₄)_x and Mn(BH₄)₂â€“MH_x Composites with M = Li, Na, Mg, and Ca. Journal of Physical Chemistry C, 2014, 118, 23567-23574.	3.1	14
149	Bed geometries, fueling strategies and optimization of heat exchanger designs in metal hydride storage systems for automotive applications: A review. International Journal of Hydrogen Energy, 2014, 39, 17054-17074.	7.1	55
150	Nanoconfined NaAlH₄: prolific effects from increased surface area and pore volume. Nanoscale, 2014, 6, 599-607.	5.6	47
151	B1â€Mobilstor: Materials for Sustainable Energy Storage Techniques â€“ Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. Advanced Engineering Materials, 2014, 16, 1189-1195.	3.5	17
152	Borohydrides: from sheet to framework topologies. Dalton Transactions, 2014, 43, 7726.	3.3	20
153	2LiBH4â€“MgH2â€“0.13TiCl4 confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. Journal of Alloys and Compounds, 2014, 599, 78-86.	5.5	36
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