Torben Rene Jensen

List of Publications by Year
in descending order

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295	15,852	17405	23472
papers	citations	63 h-index	111 g-index

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

#	Article	IF	Citations
1	Hydrogen - A sustainable energy carrier. Progress in Natural Science: Materials International, 2017, 27, 34-40.	1.8	541
2	Materials for hydrogen-based energy storage â€“ past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	2.8	518
3	Magnesium based materials for hydrogen based energy storage: Past, present and future. International Journal of Hydrogen Energy, 2019, 44, 7809-7859.	3.8	460
4	Complex hydrides for hydrogen storage â€“ new perspectives. Materials Today, 2014, 17, 122-128.	8.3	408
5	Hydrogen sorption properties of MgH2â€“LiBH4 composites. Acta Materialia, 2007, 55, 3951-3958.	3.8	350
6	Mechanochemical synthesis of hydrogen storage materials. Progress in Materials Science, 2013, 58, 30-75.	16.0	345
7	Metal borohydrides and derivatives â€“ synthesis, structure and properties. Chemical Society Reviews, 2017, 46, 1565-1634.	18.7	320
8	Review of magnesium hydride-based materials: development and optimisation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	274
9	Nanoconfined hydrides for energy storage. Nanoscale, 2011, 3, 2086.	2.8	262
10	Tailoring properties of borohydrides for hydrogen storage: A review. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1754-1773.	0.8	236
11	A Series of Mixedâ€Metal Borohydrides. Angewandte Chemie - International Edition, 2009, 48, 6659-6663.	7.2	228
12	Water in Contact with Extended Hydrophobic Surfaces: Direct Evidence of Weak Dewetting. Physical Review Letters, 2003, 90, 086101.	2.9	224
13	Confinement of MgH₂Nanoclusters within Nanoporous Aerogel Scaffold Materials. ACS Nano, 2009, 3, 3521-3528.	7.3	223
14	Role of additives in LiBH4â€“MgH2 reactive hydride composites for sorption kinetics. Acta Materialia, 2010, 58, 3381-3389.	3.8	193
15	A Reversible Nanoconfined Chemical Reaction. ACS Nano, 2010, 4, 3903-3908.	7.3	185
16	Chiral Amplification of Oligopeptides in Two-Dimensional Crystalline Self-Assemblies on Water. Science, 2002, 295, 1266-1269.	6.0	184
17	Porous and Dense Magnesium Borohydride Frameworks: Synthesis, Stability, and Reversible Absorption of Guest Species. Angewandte Chemie - International Edition, 2011, 50, 11162-11166.	7.2	175
18	Structure and properties of complex hydride perovskite materials. Nature Communications, 2014, 5, 5706.	5.8	168

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19	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. International Journal of Hydrogen Energy, 2019, 44, 7746-7767.	3.8	166
20	Boronâ€“nitrogen based hydrides and reactive composites for hydrogen storage. Materials Today, 2014, 17, 129-135.	8.3	165
21	Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. Energies, 2017, 10, 1645.	1.6	152
22	Formation of Î³-Fe2O3 nanoparticles and vacancy ordering: An in situ X-ray powder diffraction study. Journal of Solid State Chemistry, 2007, 180, 180-185.	1.4	151
23	Versatilein situpowder X-ray diffraction cells for solidâ€“gas investigations. Journal of Applied Crystallography, 2010, 43, 1456-1463.	1.9	150
24	Two-Dimensional Order in Î²-Sheet Peptide Monolayers. Journal of the American Chemical Society, 2000, 122, 12523-12529.	6.6	148
25	Mg-based compounds for hydrogen and energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	146
26	Hydrogen sorption in TiZrNbHfTa high entropy alloy. Journal of Alloys and Compounds, 2019, 775, 667-674.	2.8	145
27	Dehydrogenation kinetics of pure and nickel-doped magnesium hydride investigated by in situ time-resolved powder X-ray diffraction. International Journal of Hydrogen Energy, 2006, 31, 2052-2062.	3.8	138
28	NaSc(BH₄)₄: A Novel Scandium-Based Borohydride. Journal of Physical Chemistry C, 2010, 114, 1357-1364.	1.5	137
29	Structure and Dynamics for LiBH₄â^'LiCl Solid Solutions. Chemistry of Materials, 2009, 21, 5772-5782.	3.2	135
30	LiCe(BH₄)₃Cl, a New Lithium-Ion Conductor and Hydrogen Storage Material with Isolated Tetranuclear Anionic Clusters. Chemistry of Materials, 2012, 24, 1654-1663.	3.2	128
31	Reactivity of LiBH4:â€‰ In Situ Synchrotron Radiation Powder X-ray Diffraction Study. Journal of Physical Chemistry C, 2008, 112, 1299-1303.	1.5	127
32	Pressure and Temperature Influence on the Desorption Pathway of the LiBH₄â^'MgH₂ Composite System. Journal of Physical Chemistry C, 2010, 114, 15212-15217.	1.5	127
33	Complex hydrides for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7860-7874.	3.8	123
34	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. Inorganic Chemistry, 2018, 57, 2103-2110.	1.9	121
35	Metal boranes: Progress and applications. Coordination Chemistry Reviews, 2016, 323, 60-70.	9.5	120
36	Eutectic melting in metal borohydrides. Physical Chemistry Chemical Physics, 2013, 15, 19774.	1.3	113

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37	Future perspectives of thermal energy storage with metal hydrides. International Journal of Hydrogen Energy, 2019, 44, 7738-7745.	3.8	112
38	Improved Hydrogen Storage Kinetics of Nanoconfined NaAlH₄ Catalyzed with TiCl₃ Nanoparticles. ACS Nano, 2011, 5, 4056-4064.	7.3	110
39	Formation of Ca(BH4)2from Hydrogenation of CaH2+MgB2Composite. Journal of Physical Chemistry C, 2008, 112, 2743-2749.	1.5	106
40	Formation of ettringite, Ca6Al2(SO4)3(OH)12Â·26H2O, AFt, and monosulfate, Ca4Al2O6(SO4)Â·14H2O, AFm-14, in hydrothermal hydration of Portland cement and of calcium aluminum oxideâ€"calcium sulfate dihydrate mixtures studied by in situ synchrotron X-ray powder diffraction. Journal of Solid State Chemistry, 2004, 177, 1944-1951.	1.4	105
41	Decomposition Reactions and Reversibility of the LiBH₄â^'Ca(BH₄)₂ Composite. Journal of Physical Chemistry C, 2009, 113, 15080-15086.	1.5	105
42	New Li Ion Conductors and Solid State Hydrogen Storage Materials: LiM(BH₄)₃Cl, M = La, Gd. Journal of Physical Chemistry C, 2012, 116, 21267-21276.	1.5	102
43	Formation and Transformation of Five Different Phases in the CaSO₄â^'H₂O System: Crystal Structure of the Subhydrate Î²-CaSO₄Â·0.5H₂O and Soluble Anhydrite CaSO₄. Chemistry of Materials, 2008, 20, 2124-2132.	3.2	98
44	Thermal Polymorphism and Decomposition of Y(BH₄)₃. Inorganic Chemistry, 2010, 49, 3801-3809.	1.9	96
45	Structure and Characterization of KSc(BH₄)₄. Journal of Physical Chemistry C, 2010, 114, 19540-19549.	1.5	95
46	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.	3.8	94
47	Screening of Metal Borohydrides by Mechanochemistry and Diffraction. Angewandte Chemie - International Edition, 2012, 51, 3582-3586.	7.2	83
48	Synthesis and decomposition mechanisms of Mg2FeH6 studied by in-situ synchrotron X-ray diffraction and high-pressure DSC. International Journal of Hydrogen Energy, 2010, 35, 3578-3582.	3.8	81
49	Complex and liquid hydrides for energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	81
50	Iodide substitution in lithium borohydride, LiBH4â€"LiI. Journal of Alloys and Compounds, 2011, 509, 8299-8305.	2.8	80
51	Nuclear Magnetic Resonance Studies of BH₄ Reorientations and Li Diffusion in LiLa(BH₄)₃Cl. Journal of Physical Chemistry C, 2013, 117, 14965-14972.	1.5	79
52	Anisotropic Crystal Growth Kinetics of Anatase TiO₂ Nanoparticles Synthesized in a Nonaqueous Medium. Chemistry of Materials, 2010, 22, 6044-6055.	3.2	77
53	Nanoconfined 2LiBH₄â€"MgH₂ Prepared by Direct Melt Infiltration into Nanoporous Materials. Journal of Physical Chemistry C, 2011, 115, 10903-10910.	1.5	75
54	Hydrogen storage systems from waste Mg alloys. Journal of Power Sources, 2014, 270, 554-563.	4.0	75

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55	Halogenated Sodium-closo-Dodecaboranes as Solid-State Ion Conductors. Chemistry of Materials, 2017, 29, 3423-3430.	3.2	73
56	Langmuir and Langmuir-Blodgett Films of Amphiphilic Hexa-peri-hexabenzocoronene: New Phase Transitions and Electronic Properties Controlled by Pressure. Chemistry - A European Journal, 2001, 7, 4894-4901.	1.7	72
57	Intermediate phases observed during decomposition of LiBH4. Journal of Alloys and Compounds, 2007, 446-447, 301-305.	2.8	72
58	Mechanochemistry of Metal Hydrides: Recent Advances. Materials, 2019, 12, 2778.	1.3	71
59	The mechanism of Mg²⁺ conduction in ammine magnesium borohydride promoted by a neutral molecule. Physical Chemistry Chemical Physics, 2020, 22, 9204-9209.	1.3	70
60	Bimetallic Borohydrides in the System M(BH₄)₂â€“KBH₄ (M = Mg, Mn): On the Structural Diversity. Journal of Physical Chemistry C, 2012, 116, 10829-10840.	1.5	69
61	Powder diffraction methods for studies of borohydride-based energy storage materials. Zeitschrift FÃ¼r Kristallographie, 2010, 225, 557-569.	1.1	68
62	In situ X-ray diffraction environments for high-pressure reactions. Journal of Applied Crystallography, 2015, 48, 1234-1241.	1.9	67
63	Synthesis of amorphous Mg(BH4)2 from MgB2 and H2 at room temperature. Journal of Alloys and Compounds, 2010, 508, 212-215.	2.8	66
64	Multifunctionality of silver closo-boranes. Nature Communications, 2017, 8, 15136.	5.8	66
65	Structure and thermal properties of composites with RE-borohydrides (RE = La, Ce, Pr, Nd, Sm, Eu, Gd,) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	64
66	Interaction of hydrogen with an Mgâ€“Al alloy. Journal of Alloys and Compounds, 2005, 404-406, 323-326.	2.8	63
67	Ammonia-assisted fast Li-ion conductivity in a new hemiammine lithium borohydride, LiBH₄Â·1/2NH₃. Chemical Communications, 2020, 56, 3971-3974.	2.2	60
68	In Situ Synchrotron X-ray Powder Diffraction Studies of Crystallization of Microporous Aluminophosphates and Me2+-Substituted Aluminophosphates. Chemistry of Materials, 1998, 10, 1688-1693.	3.2	58
69	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH₄)₂. Journal of Physical Chemistry C, 2011, 115, 2497-2504.	1.5	58
70	Tailoring the Properties of Ammine Metal Borohydrides for Solidâ€State Hydrogen Storage. ChemSusChem, 2015, 8, 1452-1463.	3.6	58
71	Hydrogen storage properties of nanoconfined LiBH4â€“Ca(BH4)2. Nano Energy, 2015, 11, 96-103.	8.2	58
72	Novel methods for studying lipids and lipases and their mutual interaction at interfaces. Part I. Atomic force microscopy. Biochimie, 2001, 83, 387-397.	1.3	57

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73	Mgâ€“Ti nanoparticles with superior kinetics for hydrogen storage. International Journal of Hydrogen Energy, 2016, 41, 14447-14454.	3.8	57
74	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.	3.8	57
75	LiFâ^'MgB2 System for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2010, 114, 10291-10296.	1.5	56
76	Assembly of Triple-Stranded Î²-Sheet Peptides at Interfaces. Journal of the American Chemical Society, 2002, 124, 9342-9343.	6.6	55
77	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.	3.8	55
78	Bromide substitution in lithium borohydride, LiBH4â€“LiBr. International Journal of Hydrogen Energy, 2011, 36, 15664-15672.	3.8	54
79	Pressure Effect on the 2NaH + MgB₂ Hydrogen Absorption Reaction. Journal of Physical Chemistry C, 2010, 114, 21816-21823.	1.5	53
80	Ammine Magnesium Borohydride Nanocomposites for All-Solid-State Magnesium Batteries. ACS Applied Energy Materials, 2020, 3, 9264-9270.	2.5	53
81	Dehydrogenation kinetics of air-exposed MgH2/Mg2Cu and MgH2/MgCu2 studied with in situ X-ray powder diffraction. Applied Physics A: Materials Science and Processing, 2006, 82, 515-521.	1.1	52
82	Nanoconfined NaAlH₄: Determination of Distinct Prolific Effects from Pore Size, Crystallite Size, and Surface Interactions. Journal of Physical Chemistry C, 2012, 116, 21046-21051.	1.5	52
83	MgH2â€“Nb2O5 investigated by in situ synchrotron X-ray diffraction. International Journal of Hydrogen Energy, 2012, 37, 13409-13416.	3.8	52
84	Hydrogenâ€“fluorine exchange in NaBH4â€“NaBF4. Physical Chemistry Chemical Physics, 2013, 15, 18185.	1.3	52
85	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.	1.6	52
86	Trimetallic Borohydride Li₃MZn₅(BH₄)₁₅ (M = Mg,) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	51
87	Structural Properties and Interactions of Thin Films at the Air-Liquid Interface Explored by Synchrotron X-Ray Scattering. Studies in Interface Science, 2001, , 205-254.	0.0	50
88	Nanoconfined 2LiBH4â€“MgH2â€“TiCl3 in carbon aerogel scaffold for reversible hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 3275-3282.	3.8	49
89	Novel methods for studying lipids and lipases and their mutual interaction at interfaces. Part II. Surface sensitive synchrotron X-ray scattering. Biochimie, 2001, 83, 399-408.	1.3	48
90	Mixedâ€Anion and Mixedâ€Cation Borohydride KZn(BH₄)Cl₂: Synthesis, Structure and Thermal Decomposition. European Journal of Inorganic Chemistry, 2010, 2010, 1608-1612.	1.0	48

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91	Eutectic melting of LiBH₄â€“KBH₄. Physical Chemistry Chemical Physics, 2014, 16, 24194-24199.	1.3	48
92	Hydrothermal transformation of the calcium aluminum oxide hydrates CaAl2O4Â·10H2O and Ca2Al2O5Â·8H2O to Ca3Al2(OH)12 investigated by in situ synchrotron X-ray powder diffraction. Cement and Concrete Research, 2005, 35, 2300-2309.	4.6	47
93	Nanoconfined NaAlH₄: prolific effects from increased surface area and pore volume. Nanoscale, 2014, 6, 599-607.	2.8	47
94	Nanoconfined 2LiBH4â€“MgH2 for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics. International Journal of Hydrogen Energy, 2013, 38, 1932-1942.	3.8	46
95	Manganese borohydride; synthesis and characterization. Dalton Transactions, 2015, 44, 3988-3996.	1.6	46
96	Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887.	3.8	46
97	Hydrogen Storage Capacity Loss in a LiBH₄â€“Al Composite. Journal of Physical Chemistry C, 2013, 117, 7423-7432.	1.5	45
98	From Metal Hydrides to Metal Borohydrides. Inorganic Chemistry, 2018, 57, 10768-10780.	1.9	45
99	Reversible hydrogen storage in NaFâ€“Al composites. Journal of Alloys and Compounds, 2009, 477, 76-80.	2.8	44
100	Chloride substitution in sodium borohydride. Journal of Solid State Chemistry, 2011, 184, 1858-1866.	1.4	44
101	2LiBH₄â€“MgH₂ in a Resorcinolâ€“Furfural Carbon Aerogel Scaffold for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2012, 116, 1526-1534.	1.5	44
102	Mg2NiH4 synthesis and decomposition reactions. International Journal of Hydrogen Energy, 2013, 38, 4003-4010.	3.8	44
103	Hydrogen storage and phase transformations in Mgâ€“Pd nanoparticles. Journal of Applied Physics, 2010, 108, 073513.	1.1	43
104	Synthesis and Structural Investigation of Zr(BH₄)₄. Journal of Physical Chemistry C, 2012, 116, 20239-20245.	1.5	43
105	Tuning hydrogen storage properties and reactivity: Investigation of the LiBH4â€“NaAlH4 system. Journal of Physics and Chemistry of Solids, 2010, 71, 1144-1149.	1.9	42
106	Novel Alkali Earth Borohydride Sr(BH₄)₂ and Borohydride-Chloride Sr(BH₄)Cl. Inorganic Chemistry, 2013, 52, 10877-10885.	1.9	42
107	Crystal structure and in situ decomposition of Eu(BH₄)₂ and Sm(BH₄)₂. Journal of Materials Chemistry A, 2015, 3, 691-698.	5.2	42
108	Hydrogen Storage Properties of Nanoconfined LiBH₄â€“Mg₂NiH₄ Reactive Hydride Composites. Journal of Physical Chemistry C, 2015, 119, 5819-5826.	1.5	42

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109	Orientation and Conformation of a Lipase at an Interface Studied by Molecular Dynamics Simulations. Biophysical Journal, 2002, 83, 98-111.	0.2	41
110	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.	1.5	41
111	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.	1.9	41
112	Anion Substitution in Ca(BH₄)₂â"CaI₂: Synthesis, Structure and Stability of Three New Compounds. Journal of Physical Chemistry C, 2011, 115, 7768-7777.	1.5	40
113	Structural studies of lithium zinc borohydride by neutron powder diffraction, Raman and NMR spectroscopy. Journal of Alloys and Compounds, 2011, 509, S698-S704.	2.8	40
114	Nuclear Magnetic Resonance Studies of Reorientational Motion and Li Diffusion in LiBH₄â€"LiI Solid Solutions. Journal of Physical Chemistry C, 2012, 116, 26177-26184.	1.5	40
115	Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metalâ€"Organic Framework. ACS Nano, 2020, 14, 10294-10304.	7.3	40
116	Enhanced hydrogen reversibility of nanoconfined LiBH4â€"Mg(BH4)2. International Journal of Hydrogen Energy, 2014, 39, 9871-9876.	3.8	39
117	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.	3.8	39
118	Sorption behavior of the MgH2â€"Mg2FeH6 hydride storage system synthesized by mechanical milling followed by sintering. International Journal of Hydrogen Energy, 2013, 38, 14618-14630.	3.8	37
119	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.	5.2	37
120	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.	2.8	36
121	Hydrogen storage in Mgâ€"LiBH4 composites catalyzed by FeF3. Journal of Power Sources, 2014, 267, 799-811.	4.0	36
122	Halide Substitution in Magnesium Borohydride. Journal of Physical Chemistry C, 2012, 116, 12482-12488.	1.5	35
123	Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarbaborate Anions. Chemistry of Materials, 2020, 32, 1475-1487.	3.2	35
124	Oligopeptides with Homochiral Sequences Generated from Racemic Precursors that Spontaneously Separate into Enantiomorphous Two-Dimensional Crystalline Domains on Water Surface. Journal of the American Chemical Society, 2002, 124, 9093-9104.	6.6	34
125	Formation and Structure of Conjugated Salen-Cross-Linked Polymers and Their Application in Asymmetric Heterogeneous Catalysis. European Journal of Organic Chemistry, 2005, 2005, 342-347.	1.2	34
126	Nano size crystals of goethite, Î±-FeOOH: Synthesis and thermal transformation. Journal of Solid State Chemistry, 2007, 180, 1431-1435.	1.4	34

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127	Synthesis and decomposition mechanisms of ternary Mg2CoH5 studied using in situ synchrotron X-ray diffraction. International Journal of Hydrogen Energy, 2011, 36, 10760-10770.	3.8	34
128	Potassium Zinc Borohydrides Containing Triangular [Zn(BH₄)₃]^{â^'} and Tetrahedral [Zn(BH₄)_xCl_{4â€“x}]^{2â€“} Anions. Journal of Physical Chemistry C, 2012, 116, 1563-1571.	1.5	34
129	Hydrogen storage properties of nanoconfined LiBH 4 â€“NaBH 4. International Journal of Hydrogen Energy, 2015, 40, 14916-14924.	3.8	34
130	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	1.6	34
131	Reorientational Motion in Alkali-Metal Borohydrides: NMR Data for RbBH₄ and CsBH₄ and Systematics of the Activation Energy Variations. Journal of Physical Chemistry C, 2011, 115, 10305-10309.	1.5	33
132	NMR Study of Reorientational Motion in Alkaline-Earth Borohydrides: Î² and Î³ Phases of Mg(BH₄)₂ and Î± and Î² Phases of Ca(BH₄)₂. Journal of Physical Chemistry C, 2012, 116, 4913-4920.	1.5	33
133	A mixed-cation mixed-anion borohydride NaY(BH4)2Cl2. International Journal of Hydrogen Energy, 2012, 37, 8428-8438.	3.8	33
134	Characterization of Gasâ€“Solid Reactions using In Situ Powder Xâ€“ray Diffraction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3029-3043.	0.6	33
135	Nanoconfinement degradation in NaAlH4/CMK-1. International Journal of Hydrogen Energy, 2014, 39, 11103-11109.	3.8	33
136	Ammine-Stabilized Transition-Metal Borohydrides of Iron, Cobalt, and Chromium: Synthesis and Characterization. Inorganic Chemistry, 2015, 54, 10477-10482.	1.9	32
137	From M(BH4)3 (M = La, Ce) Borohydride Frameworks to Controllable Synthesis of Porous Hydrides and Ion Conductors. Inorganic Chemistry, 2016, 55, 9748-9756.	1.9	32
138	Synthesis, Structure, and Li-Ion Conductivity of LiLa(BH₄)₃X, X = Cl, Br, I. Journal of Physical Chemistry C, 2017, 121, 19010-19021.	1.5	32
139	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.	1.7	31
140	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.	1.5	31
141	Trends in Synthesis, Crystal Structure, and Thermal and Magnetic Properties of Rare-Earth Metal Borohydrides. Inorganic Chemistry, 2019, 58, 5503-5517.	1.9	31
142	Theoretical and Experimental Study of LiBH4-LiCl Solid Solution. Crystals, 2012, 2, 144-158.	1.0	30
143	2LiBH4â€“MgH2 nanoconfined into carbon aerogel scaffold impregnated with ZrCl4 for reversible hydrogen storage. Materials Chemistry and Physics, 2016, 169, 136-141.	2.0	30
144	Fluoride substitution in LiBH₄; destabilization and decomposition. Physical Chemistry Chemical Physics, 2017, 19, 30157-30165.	1.3	30

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145	Hydrogen storage properties of Mgâ€“Ni nanoparticles. International Journal of Hydrogen Energy, 2013, 38, 12207-12212.	3.8	29
146	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.	1.5	29
147	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. Progress in Energy, 2022, 4, 032007.	4.6	29
148	A new polymorph of LiZnPO4Â·H2O; synthesis, crystal structure and thermal transformation. Journal of the Chemical Society Dalton Transactions, 1998, , 2261-2266.	1.1	28
149	Self-Assembly of Crystalline Films of Interdigitated Long-Chain Cholesteryl Esters at the Airâ^'Water Interface. Journal of Physical Chemistry B, 2001, 105, 8563-8568.	1.2	28
150	Mechanism for reversible hydrogen storage in LiBH4â€“Al. Journal of Applied Physics, 2012, 111, 112621.	1.1	27
151	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.	1.5	27
152	Alkali metal â€“ yttrium borohydrides: The link between coordination of small and large rare-earth. Journal of Solid State Chemistry, 2015, 225, 231-239.	1.4	27
153	Homochiral Oligopeptides by Chiral Amplification within Two-Dimensional Crystalline Self-Assemblies at the Airâ€“Water Interface; Relevance to Biomolecular Handedness. Chemistry - A European Journal, 2003, 9, 1782-1794.	1.7	26
154	Magnesium nanoparticles with transition metal decoration for hydrogen storage. Journal of Nanoparticle Research, 2011, 13, 5727-5737.	0.8	26
155	The influence of LiH on the rehydrogenation behavior of halide free rare earth (RE) borohydrides (RE) Tj ETQq1 1 0.784314 rgBT /Over	1.3	26
156	Iodine-Substituted Lithium/Sodium closo-Decaborates: Syntheses, Characterization, and Solid-State Ionic Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 17554-17564.	4.0	26
157	Metallic and complex hydride-based electrochemical storage of energy. Progress in Energy, 2022, 4, 032001.	4.6	26
158	Preparation, Structure Determination and Thermal Transformation of a New Lithium Zinc Phosphate, Î´1-LiZnPO4. Journal of Solid State Chemistry, 1995, 117, 39-47.	1.4	25
159	Characterization of Hydrogen Storage Materials and Systems with Photons and Neutrons. Advanced Engineering Materials, 2011, 13, 730-736.	1.6	25
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