

Torben Rene Jensen

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#	Paper	IF	Citations
292	Complex hydrides for hydrogen storage [New perspectives]. <i>Materials Today</i> , 2014 , 17, 122-128	21.8	328
291	Hydrogen sorption properties of MgH ₂ /LiBH ₄ composites. <i>Acta Materialia</i> , 2007 , 55, 3951-3958	8.4	325
290	Hydrogen - A sustainable energy carrier. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 34-40	3.6	297
289	Mechanochemical synthesis of hydrogen storage materials. <i>Progress in Materials Science</i> , 2013 , 58, 30-75	42.2	294
288	Magnesium based materials for hydrogen based energy storage: Past, present and future. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7809-7859	6.7	264
287	Materials for hydrogen-based energy storage [Past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 153548	5.7	264
286	Metal borohydrides and derivatives - synthesis, structure and properties. <i>Chemical Society Reviews</i> , 2017 , 46, 1565-1634	58.5	249
285	Nanoconfined hydrides for energy storage. <i>Nanoscale</i> , 2011 , 3, 2086-98	7.7	240
284	Tailoring properties of borohydrides for hydrogen storage: A review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1754-1773	1.6	218
283	Review of magnesium hydride-based materials: development and optimisation. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	212
282	A series of mixed-metal borohydrides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6659-63	16.4	210
281	Water in contact with extended hydrophobic surfaces: direct evidence of weak dewetting. <i>Physical Review Letters</i> , 2003 , 90, 086101	7.4	208
280	Confinement of MgH ₂ nanoclusters within nanoporous aerogel scaffold materials. <i>ACS Nano</i> , 2009 , 3, 3521-8	16.7	206
279	A reversible nanoconfined chemical reaction. <i>ACS Nano</i> , 2010 , 4, 3903-8	16.7	173
278	Role of additives in LiBH ₄ /MgH ₂ reactive hydride composites for sorption kinetics. <i>Acta Materialia</i> , 2010 , 58, 3381-3389	8.4	170
277	Chiral amplification of oligopeptides in two-dimensional crystalline self-assemblies on water. <i>Science</i> , 2002 , 295, 1266-9	33.3	166
276	Porous and dense magnesium borohydride frameworks: synthesis, stability, and reversible absorption of guest species. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11162-6	16.4	151

275	Boron-Nitrogen based hydrides and reactive composites for hydrogen storage. <i>Materials Today</i> , 2014 , 17, 129-135	21.8	145
274	Structure and properties of complex hydride perovskite materials. <i>Nature Communications</i> , 2014 , 5, 5706-7.4	14.4	143
273	Versatile in situ powder X-ray diffraction cells for solid-gas investigations. <i>Journal of Applied Crystallography</i> , 2010 , 43, 1456-1463	3.8	141
272	Two-Dimensional Order in Sheet Peptide Monolayers. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12523-12529	16.4	138
271	NaSc(BH ₄) ₄ : A Novel Scandium-Based Borohydride. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1357-1364.8	3.8	130
270	Dehydrogenation kinetics of pure and nickel-doped magnesium hydride investigated by in situ time-resolved powder X-ray diffraction. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 2052-2062	6.7	129
269	Formation of Fe ₂ O ₃ nanoparticles and vacancy ordering: An in situ X-ray powder diffraction study. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 180-185	3.3	125
268	LiCe(BH ₄) ₃ Cl, a New Lithium-Ion Conductor and Hydrogen Storage Material with Isolated Tetranuclear Anionic Clusters. <i>Chemistry of Materials</i> , 2012 , 24, 1654-1663	9.6	123
267	Reactivity of LiBH ₄ : In Situ Synchrotron Radiation Powder X-ray Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1299-1303	3.8	122
266	Mg-based compounds for hydrogen and energy storage. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	121
265	Structure and Dynamics for LiBH ₄ -LiCl Solid Solutions. <i>Chemistry of Materials</i> , 2009 , 21, 5772-5782	9.6	120
264	Pressure and Temperature Influence on the Desorption Pathway of the LiBH ₄ -MgH ₂ Composite System. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15212-15217	3.8	114
263	Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. <i>Energies</i> , 2017 , 10, 1645	3.1	104
262	Decomposition Reactions and Reversibility of the LiBH ₄ -Ca(BH ₄) ₂ Composite. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15080-15086	3.8	102
261	Improved hydrogen storage kinetics of nanoconfined NaAlH ₄ catalyzed with TiCl ₄ nanoparticles. <i>ACS Nano</i> , 2011 , 5, 4056-64	16.7	99
260	Formation of Ca(BH ₄) ₂ from Hydrogenation of CaH ₂ +MgB ₂ Composite. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2743-2749	3.8	99
259	Eutectic melting in metal borohydrides. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19774-89	3.6	98
258	Metal boranes: Progress and applications. <i>Coordination Chemistry Reviews</i> , 2016 , 323, 60-70	23.2	94

- 257 Thermal polymorphism and decomposition of $\text{Y}(\text{BH}_4)_3$. *Inorganic Chemistry*, **2010**, 49, 3801-9 5.1 93
- 256 Structure and Characterization of $\text{KSc}(\text{BH}_4)_4$. *Journal of Physical Chemistry C*, **2010**, 114, 19540-19549 3.8 91
- 255 New Li Ion Conductors and Solid State Hydrogen Storage Materials: $\text{LiM}(\text{BH}_4)_3\text{Cl}$, M = La, Gd. *Journal of Physical Chemistry C*, **2012**, 116, 21267-21276 3.8 89
- 254 Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. *International Journal of Hydrogen Energy*, **2019**, 44, 7746-7767 6.7 87
- 253 Hydrogen sorption in TiZrNbHfTa high entropy alloy. *Journal of Alloys and Compounds*, **2019**, 775, 667-674 7.4 86
- 252 Complex hydrides for energy storage. *International Journal of Hydrogen Energy*, **2019**, 44, 7860-7874 6.7 82
- 251 Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. *Inorganic Chemistry*, **2018**, 57, 2103-2110 5.1 80
- 250 Formation of ettringite, $\text{Ca}_6\text{Al}_2(\text{SO}_4)_3(\text{OH})_{12} \cdot 6\text{H}_2\text{O}$, AFt, and monosulfate, $\text{Ca}_4\text{Al}_2\text{O}_6(\text{SO}_4) \cdot 4\text{H}_2\text{O}$, AFm-14, in hydrothermal hydration of Portland cement and of calcium aluminum oxide-calcium sulfate dihydrate mixtures studied by in situ synchrotron X-ray powder diffraction. *Journal of Solid State Chemistry*, **2001**, 175, 1814-1821 3.3 80
- 249 Formation and Transformation of Five Different Phases in the $\text{CaSO}_4 \cdot \text{H}_2\text{O}$ System: Crystal Structure of the Subhydrate $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$ and Soluble Anhydrite CaSO_4 . *Chemistry of Materials*, **2008**, 20, 2124-2132 9.6 78
- 248 Future perspectives of thermal energy storage with metal hydrides. *International Journal of Hydrogen Energy*, **2019**, 44, 7738-7745 6.7 75
- 247 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 6.7 74
- 246 Synthesis and decomposition mechanisms of Mg_2FeH_6 studied by in-situ synchrotron X-ray diffraction and high-pressure DSC. *International Journal of Hydrogen Energy*, **2010**, 35, 3578-3582 6.7 73
- 245 Iodide substitution in lithium borohydride, LiBH_4I . *Journal of Alloys and Compounds*, **2011**, 509, 8299-8305 3.7 71
- 244 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, 4894-901 4.8 70
- 243 Screening of metal borohydrides by mechanochemistry and diffraction. *Angewandte Chemie - International Edition*, **2012**, 51, 3582-6 16.4 69
- 242 Anisotropic Crystal Growth Kinetics of Anatase TiO_2 Nanoparticles Synthesized in a Nonaqueous Medium. *Chemistry of Materials*, **2010**, 22, 6044-6055 9.6 69
- 241 Nanoconfined $2\text{LiBH}_4 \cdot \text{MgH}_2$ Prepared by Direct Melt Infiltration into Nanoporous Materials. *Journal of Physical Chemistry C*, **2011**, 115, 10903-10910 3.8 69
- 240 Nuclear Magnetic Resonance Studies of BH_4 Reorientations and Li Diffusion in $\text{LiLa}(\text{BH}_4)_3\text{Cl}$. *Journal of Physical Chemistry C*, **2013**, 117, 14965-14972 3.8 68

239	Powder diffraction methods for studies of borohydride-based energy storage materials. <i>Zeitschrift für Kristallographie</i> , 2010 , 225, 557-569		66
238	Intermediate phases observed during decomposition of LiBH ₄ . <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 301-305	5.7	65
237	Complex and liquid hydrides for energy storage. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	64
236	Bimetallic Borohydrides in the System M(BH ₄) ₂ ·nBH ₄ (M = Mg, Mn): On the Structural Diversity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10829-10840	3.8	62
235	In situ X-ray diffraction environments for high-pressure reactions. <i>Journal of Applied Crystallography</i> , 2015 , 48, 1234-1241	3.8	60
234	Hydrogen storage systems from waste Mg alloys. <i>Journal of Power Sources</i> , 2014 , 270, 554-563	8.9	60
233	Structure and thermal properties of composites with RE-borohydrides (RE = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Er, Yb or Lu) and LiBH ₄ . <i>RSC Advances</i> , 2014 , 4, 1570-1582	3.7	56
232	Interaction of hydrogen with an Mg-Al alloy. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 323-326	5.7	56
231	Synthesis of amorphous Mg(BH ₄) ₂ from MgB ₂ and H ₂ at room temperature. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 212-215	5.7	55
230	Li/MgB ₂ System for Reversible Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10291-10298	3.8	54
229	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH ₄) ₂ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2497-2504	3.8	54
228	Novel methods for studying lipids and lipases and their mutual interaction at interfaces. Part I. Atomic force microscopy. <i>Biochimie</i> , 2001 , 83, 387-97	4.6	52
227	Hydrogen storage properties of nanoconfined LiBH ₄ /Ca(BH ₄) ₂ . <i>Nano Energy</i> , 2015 , 11, 96-103	17.1	51
226	Assembly of triple-stranded beta-sheet peptides at interfaces. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9342-3	16.4	51
225	Halogenated Sodium-closo-Dodecaboranes as Solid-State Ion Conductors. <i>Chemistry of Materials</i> , 2017 , 29, 3423-3430	9.6	50
224	Pressure Effect on the 2NaH + MgB ₂ Hydrogen Absorption Reaction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21816-21823	3.8	50
223	In Situ Synchrotron X-ray Powder Diffraction Studies of Crystallization of Microporous Aluminophosphates and Me ₂ -Substituted Aluminophosphates. <i>Chemistry of Materials</i> , 1998 , 10, 1688-1693	9.6	50
222	Multifunctionality of silver closo-boranes. <i>Nature Communications</i> , 2017 , 8, 15136	17.4	48

221	Novel solvates $M(BH_4)_3(CH_3)_n$ and properties of halide-free $M(BH_4)_3$ ($M = Y$ or Gd). <i>Dalton Transactions</i> , 2014 , 43, 13333-42	4.3	47
220	Tailoring the properties of ammine metal borohydrides for solid-state hydrogen storage. <i>ChemSusChem</i> , 2015 , 8, 1452-63	8.3	47
219	Nanoconfined $NaAlH_4$: Determination of Distinct Prolific Effects from Pore Size, Crystallite Size, and Surface Interactions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21046-21051	3.8	47
218	MgH_2/b_2O_5 investigated by in situ synchrotron X-ray diffraction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13409-13416	6.7	46
217	Bromide substitution in lithium borohydride, $LiBH_4 \cdot nBr$. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15664-15672	6.7	46
216	Structural Properties and Interactions of Thin Films at the Air-Liquid Interface Explored by Synchrotron X-Ray Scattering. <i>Studies in Interface Science</i> , 2001 , 205-254		46
215	Bed geometries, fueling strategies and optimization of heat exchanger designs in metal hydride storage systems for automotive applications: A review. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 17054-17074	6.7	45
214	Nanoconfined $2LiBH_4 \cdot MgH_2 \cdot nCl_3$ in carbon aerogel scaffold for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3275-3282	6.7	45
213	Hydrogen-fluorine exchange in $NaBH_4 \cdot NaBF_4$. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18185-94	3.6	44
212	Dehydrogenation kinetics of air-exposed MgH_2/Mg_2Cu and $MgH_2/MgCu_2$ studied with in situ X-ray powder diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 515-521	2.6	44
211	Novel methods for studying lipids and lipases and their mutual interaction at interfaces. Part II. Surface sensitive synchrotron X-ray scattering. <i>Biochimie</i> , 2001 , 83, 399-408	4.6	44
210	$Mg \cdot n$ nanoparticles with superior kinetics for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14447-14454	6.7	44
209	Eutectic melting of $LiBH_4 \cdot KBH_4$. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24194-9	3.6	43
208	Nanoconfined $2LiBH_4 \cdot MgH_2$ for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1932-1942	6.7	43
207	Mixed-Anion and Mixed-Cation Borohydride $KZn(BH_4)Cl_2$: Synthesis, Structure and Thermal Decomposition. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1608-1612	2.3	43
206	Trimetallic borohydride $Li_3MZn_5(BH_4)_{15}$ ($M = Mg, Mn$) containing two weakly interconnected frameworks. <i>Inorganic Chemistry</i> , 2013 , 52, 9941-7	5.1	42
205	Mechanochemistry of Metal Hydrides: Recent Advances. <i>Materials</i> , 2019 , 12,	3.5	41
204	Hydrogen Storage Capacity Loss in a $LiBH_4 \cdot Al$ Composite. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7423-7432	3.8	41

203	2LiBH ₄ /MgH ₂ in a Resorcinol-Formaldehyde Carbon Aerogel Scaffold for Reversible Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1526-1534	3.8	41
202	Tuning hydrogen storage properties and reactivity: Investigation of the LiBH ₄ /NaAlH ₄ system. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1144-1149	3.9	41
201	Manganese borohydride; synthesis and characterization. <i>Dalton Transactions</i> , 2015 , 44, 3988-96	4.3	40
200	Crystal structure and in situ decomposition of Eu(BH ₄) ₂ and Sm(BH ₄) ₂ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 691-698	13	39
199	Nanoconfined NaAlH ₄ : prolific effects from increased surface area and pore volume. <i>Nanoscale</i> , 2014 , 6, 599-607	7.7	39
198	Hydrogen storage and phase transformations in MgPd nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 108, 073513	2.5	39
197	Chloride substitution in sodium borohydride. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1858-1866	3.3	39
196	Reversible hydrogen storage in NaFAl composites. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 76-80	5.7	39
195	Kinetics and thermodynamics of hydrogenation-dehydrogenation for Mg-25%TM (TM = Ti, Nb or V) composites synthesized by reactive ball milling in hydrogen. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16804-16814	6.7	38
194	Novel alkali earth borohydride Sr(BH ₄) ₂ and borohydride-chloride Sr(BH ₄)Cl. <i>Inorganic Chemistry</i> , 2013 , 52, 10877-85	5.1	38
193	Synthesis and Structural Investigation of Zr(BH ₄) ₄ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20239-20248	4.8	38
192	Anion Substitution in Ca(BH ₄) ₂ /CaI ₂ : Synthesis, Structure and Stability of Three New Compounds. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7768-7777	3.8	38
191	Full-cell hydride-based solid-state Li batteries for energy storage. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7875-7887	6.7	37
190	Structural studies of lithium zinc borohydride by neutron powder diffraction, Raman and NMR spectroscopy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S698-S704	5.7	37
189	Hydrothermal transformation of the calcium aluminum oxide hydrates CaAl ₂ O ₄ ·10H ₂ O and Ca ₂ Al ₂ O ₅ ·8H ₂ O to Ca ₃ Al ₂ (OH) ₁₂ investigated by in situ synchrotron X-ray powder diffraction. <i>Cement and Concrete Research</i> , 2005 , 35, 2300-2309	10.3	37
188	Trends in Syntheses, Structures, and Properties for Three Series of Ammine Rare-Earth Metal Borohydrides, M(BH ₄) ₃ ·nNH ₃ (M = Y, Gd, and Dy). <i>Inorganic Chemistry</i> , 2015 , 54, 7402-14	5.1	36
187	Hydrogen Storage Properties of Nanoconfined LiBH ₄ /Mg ₂ NiH ₄ Reactive Hydride Composites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5819-5826	3.8	36
186	Nuclear Magnetic Resonance Studies of Reorientational Motion and Li Diffusion in LiBH ₄ /Li Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26177-26184	3.8	36

185	Orientation and conformation of a lipase at an interface studied by molecular dynamics simulations. <i>Biophysical Journal</i> , 2002 , 83, 98-111	2.9	36
184	Effective nanoconfinement of 2LiBH ₄ /MgH ₂ via simply MgH ₂ premilling for reversible hydrogen storages. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15614-15626	6.7	34
183	Mg ₂ NiH ₄ synthesis and decomposition reactions. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4003-4010	6.7	34
182	Formation and Structure of Conjugated Salen-Cross-Linked Polymers and Their Application in Asymmetric Heterogeneous Catalysis. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 342-347	3.2	34
181	The mechanism of Mg conduction in ammine magnesium borohydride promoted by a neutral molecule. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9204-9209	3.6	33
180	Synthesis, Crystal Structure, Thermal Decomposition, and 11B MAS NMR Characterization of Mg(BH ₄) ₂ (NH ₃ BH ₃) ₂ . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12141-12153	3.8	33
179	2LiBH ₄ /MgH ₂ ·1.3TiCl ₄ confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2014 , 599, 78-86	5.7	33
178	Hydrogen storage in Mg/LiBH ₄ composites catalyzed by FeF ₃ . <i>Journal of Power Sources</i> , 2014 , 267, 799-881	3.9	33
177	Enhanced hydrogen reversibility of nanoconfined LiBH ₄ /Mg(BH ₄) ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9871-9876	6.7	32
176	Potassium Zinc Borohydrides Containing Triangular [Zn(BH ₄) ₃] ⁻ and Tetrahedral [Zn(BH ₄) ₄] ²⁻ Anions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1563-1571	3.8	32
175	Solid state synthesis, structural characterization and ionic conductivity of bimetallic alkali-metal yttrium borohydrides MY(BH ₄) ₄ (M = Li and Na). <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8793-8802	13	31
174	A mixed-cation mixed-anion borohydride NaY(BH ₄) ₂ Cl ₂ . <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8428-8438	6.7	31
173	Sorption behavior of the MgH ₂ /Mg ₂ FeH ₆ hydride storage system synthesized by mechanical milling followed by sintering. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14618-14630	6.7	31
172	Synthesis and decomposition mechanisms of ternary Mg ₂ CoH ₅ studied using in situ synchrotron X-ray diffraction. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10760-10770	6.7	31
171	Ammonia-assisted fast Li-ion conductivity in a new hemiammine lithium borohydride, LiBH ₄ /2NH ₃ . <i>Chemical Communications</i> , 2020 , 56, 3971-3974	5.8	30
170	From Metal Hydrides to Metal Borohydrides. <i>Inorganic Chemistry</i> , 2018 , 57, 10768-10780	5.1	30
169	Nano size crystals of goethite, FeOOH: Synthesis and thermal transformation. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1431-1435	3.3	30
168	Nanoconfinement degradation in NaAlH ₄ /CMK-1. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11103-11109	6.7	29

167	Halide Substitution in Magnesium Borohydride. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12482-12488	3.8	29
166	Reorientational Motion in Alkali-Metal Borohydrides: NMR Data for RbBH ₄ and CsBH ₄ and Systematics of the Activation Energy Variations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10305-10309	3.8	29
165	Oligopeptides with homochiral sequences generated from racemic precursors that spontaneously separate into enantiomorphous two-dimensional crystalline domains on water surface. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9093-104	16.4	29
164	Characterization of Gas-Solid Reactions using In Situ Powder X-ray Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 3029-3043	1.3	28
163	Synthesis, Structure, and Li-Ion Conductivity of LiLa(BH ₄) ₃ X, X = Cl, Br, I. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19010-19021	3.8	28
162	Hydrogen storage properties of nanoconfined LiBH ₄ and NaBH ₄ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14916-14924	6.7	28
161	NMR Study of Reorientational Motion in Alkaline-Earth Borohydrides: α and β Phases of Mg(BH ₄) ₂ and α and β Phases of Ca(BH ₄) ₂ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4913-4920	3.8	27
160	From M(BH) (M = La, Ce) Borohydride Frameworks to Controllable Synthesis of Porous Hydrides and Ion Conductors. <i>Inorganic Chemistry</i> , 2016 , 55, 9748-9756	5.1	26
159	Effect of Eutectic Melting, Reactive Hydride Composites, and Nanoconfinement on Decomposition and Reversibility of LiBH ₄ /KBH ₄ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25818-25825	3.8	26
158	A new polymorph of LiZnPO ₄ ·H ₂ O; synthesis, crystal structure and thermal transformation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 2261-2266		26
157	A composite of complex and chemical hydrides yields the first Al-based amidoborane with improved hydrogen storage properties. <i>Chemistry - A European Journal</i> , 2015 , 21, 14562-70	4.8	25
156	Theoretical and Experimental Study of LiBH ₄ -LiCl Solid Solution. <i>Crystals</i> , 2012 , 2, 144-158	2.3	25
155	Self-Assembly of Crystalline Films of Interdigitated Long-Chain Cholesteryl Esters at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8563-8568	3.4	25
154	Trends in Synthesis, Crystal Structure, and Thermal and Magnetic Properties of Rare-Earth Metal Borohydrides. <i>Inorganic Chemistry</i> , 2019 , 58, 5503-5517	5.1	24
153	Ammine-Stabilized Transition-Metal Borohydrides of Iron, Cobalt, and Chromium: Synthesis and Characterization. <i>Inorganic Chemistry</i> , 2015 , 54, 10477-82	5.1	24
152	Hydrogen storage properties of Mg/Al nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12207-12212	6.7	24
151	Alkali metal Yttrium borohydrides: The link between coordination of small and large rare-earth. <i>Journal of Solid State Chemistry</i> , 2015 , 225, 231-239	3.3	24
150	The influence of LiH on the rehydrogenation behavior of halide free rare earth (RE) borohydrides (RE = Pr, Er). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 24387-95	3.6	23

- 149 2LiBH₄/MgH₂ nanoconfined into carbon aerogel scaffold impregnated with ZrCl₄ for reversible hydrogen storage. *Materials Chemistry and Physics*, **2016**, 169, 136-141 4.4 23
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