

# Thomas Klassen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249 papers	10,611 citations	49 h-index	96 g-index
270 ext. papers	11,726 ext. citations	4.7 avg, IF	6.16 L-index

#	Paper	IF	Citations
249	A Novel Emergency Gas-to-Power System Based on an Efficient and Long-Lasting Solid-State Hydride Storage System: Modeling and Experimental Validation. <i>Energies</i> , <b>2022</b> , 15, 844	3.1	1
248	De-hydrogenation/Rehydrogenation Properties and Reaction Mechanism of AmZn(NH <sub>2</sub> ) <sub>n</sub> -2nLiH Systems (A = Li, K, Na, and Rb). <i>Sustainability</i> , <b>2022</b> , 14, 1672	3.6	2
247	Tailoring nanocrystalline materials towards potential applications. <i>International Journal of Materials Research</i> , <b>2022</b> , 94, 610-614	0.5	
246	Design of a reference model for fast optimization of photo-electrochemical cells. <i>Sustainable Energy and Fuels</i> , <b>2022</b> , 6, 1489-1498	5.8	
245	Tailoring powder strengths for enhanced quality of cold sprayed Al6061 deposits. <i>Materials and Design</i> , <b>2022</b> , 215, 110494	8.1	0
244	Features of ceramic nanoparticle deformation in aerosol deposition explored by molecular dynamics simulation. <i>Surface and Coatings Technology</i> , <b>2021</b> , 127886	4.4	1
243	Enhanced Hydrogen Storage Properties of Li-RHC System with In-House Synthesized AlTi <sub>3</sub> Nanoparticles. <i>Energies</i> , <b>2021</b> , 14, 7853	3.1	1
242	Aerosol Deposition of Ti <sub>3</sub> SiC <sub>2</sub> -MAX-Phase Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2021</b> , 30, 1121-1125	12.5	0
241	Process Selection for the Fabrication of Cavitation Erosion-Resistant Bronze Coatings by Thermal and Kinetic Spraying in Maritime Applications. <i>Journal of Thermal Spray Technology</i> , <b>2021</b> , 30, 1310	2.5	3
240	Nanoconfinement effects on hydrogen storage properties of MgH <sub>2</sub> and LiBH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 23723-23723	6.7	9
239	Influence of MAX-Phase Deformability on Coating Formation by Cold Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2021</b> , 30, 617-642	2.5	5
238	Aerosol-Deposited BiVO <sub>4</sub> Photoelectrodes for Hydrogen Generation. <i>Journal of Thermal Spray Technology</i> , <b>2021</b> , 30, 603-616	2.5	2
237	A comprehensive study on lithium-based reactive hydride composite (Li-RHC) as a reversible solid-state hydrogen storage system toward potential mobile applications.. <i>RSC Advances</i> , <b>2021</b> , 11, 23122-23135	3.7	15
236	Size Effects of Brittle Particles in Aerosol DepositionMolecular Dynamics Simulation. <i>Journal of Thermal Spray Technology</i> , <b>2021</b> , 30, 503-522	2.5	6
235	Property prediction and crack growth behavior in cold sprayed Cu deposits. <i>Materials and Design</i> , <b>2021</b> , 206, 109826	8.1	5
234	Mg-based materials for hydrogen storage. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 1837-1837	8.8	18
233	Hydrogenation via a low energy mechanochemical approach: the MgB <sub>2</sub> case. <i>JPhys Energy</i> , <b>2021</b> , 3, 044001	0.1	2

232	Modeling the kinetic behavior of the Li-RHC system for energy-hydrogen storage: (I) absorption. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 32110-32125	6.7	2
231	Effects of Ni-loading contents on dehydrogenation kinetics and reversibility of Mg <sub>2</sub> FeH <sub>6</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 32099-32109	6.7	2
230	Solid-state additive manufacturing of porous Ti-6Al-4V by supersonic impact. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100865	6.6	6
229	Designing an AB <sub>2</sub> -Type Alloy (TiZr-CrMnMo) for the Hybrid Hydrogen Storage Concept. <i>Energies</i> , <b>2020</b> , 13, 2751	3.1	11
228	Conversion of magnesium waste into a complex magnesium hydride system: Mg(NH <sub>2</sub> ) <sub>2</sub> LiH. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1915-1923	5.8	12
227	Enhanced Stability of Li-RHC Embedded in an Adaptive TPX/Polymer Scaffold. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
226	Improved kinetic behaviour of Mg(NH) <sub>2</sub> -2LiH doped with nanostructured K-modified-LiTiO for hydrogen storage. <i>Scientific Reports</i> , <b>2020</b> , 10, 8	4.9	12
225	Charge Transfer in c-Si(n)/TiO(A LD) at the Amorphous/Anatase Transition: A Transient Surface Photovoltage Spectroscopy Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3140-3149	9.5	11
224	Using the Emission of Muonic X-rays as a Spectroscopic Tool for the Investigation of the Local Chemistry of Elements. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
223	Chemical and photoelectrochemical instability of amorphous TiO <sub>2</sub> layers quantified by spectroscopic ellipsometry. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18173-18179	13	3
222	Efficient Synthesis of Alkali Borohydrides from Mechanochemical Reduction of Borates Using Magnesium/Aluminum-Based Waste. <i>Metals</i> , <b>2019</b> , 9, 1061	2.3	11
221	Hydrogen sorption kinetics, hydrogen permeability, and thermal properties of compacted 2LiBH <sub>4</sub> MgH <sub>2</sub> doped with activated carbon nanofibers. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 15218-15227	6.7	7
220	Effect of the Process Parameters on the Energy Transfer during the Synthesis of the 2LiBH <sub>4</sub> -MgH <sub>2</sub> Reactive Hydride Composite for Hydrogen Storage. <i>Metals</i> , <b>2019</b> , 9, 349	2.3	7
219	Scale-up of milling in a 100 L device for processing of TiFeMn alloy for hydrogen storage applications: Procedure and characterization. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29282-29290	6.7	12
218	A new mutually destabilized reactive hydride system: LiBH <sub>4</sub> Mg <sub>2</sub> NiH <sub>4</sub> . <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 240-254	12	7
217	Tuning the reaction mechanism and hydrogenation/dehydrogenation properties of 6Mg(NH <sub>2</sub> ) <sub>2</sub> 9LiH system by adding LiBH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 11920-11929	6.7	14
216	Enhancement Effect of Bimetallic Amide K <sub>2</sub> Mn(NH <sub>2</sub> ) <sub>4</sub> and In-Situ Formed KH and Mn <sub>4</sub> N on the Dehydrogenation/Hydrogenation Properties of LiMgNH <sub>2</sub> System. <i>Energies</i> , <b>2019</b> , 12, 2779	3.1	5
215	Optimization of Inconel 718 thick deposits by cold spray processing and annealing. <i>Surface and Coatings Technology</i> , <b>2019</b> , 378, 124997	4.4	11

214	Optimized photoactive coatings prepared with functionalized TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 31800-31807	6.7	3
213	Mechanically induced grain refinement, recovery and recrystallization of cold-sprayed iron aluminide coatings. <i>Surface and Coatings Technology</i> , <b>2019</b> , 380, 125069	4.4	5
212	Application of hydrides in hydrogen storage and compression: Achievements, outlook and perspectives. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 7780-7808	6.7	273
211	Optimization Adhesion in Cold Spraying onto Hard Substrates: A Case Study for Brass Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2019</b> , 28, 124-134	2.5	11
210	Comment on "Adiabatic shear instability is not necessary for adhesion in cold spray" <i>Scripta Materialia</i> , <b>2019</b> , 162, 512-514	5.6	42
209	Characterization of BiVO <sub>4</sub> powders and cold gas sprayed layers by surface photovoltage techniques. <i>Catalysis Today</i> , <b>2019</b> , 321-322, 34-40	5.3	9
208	Insights into the Rb-Mg-N-H System: an Ordered Mixed Amide/Imide Phase and a Disordered Amide/Hydride Solid Solution. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 3197-3205	5.1	8
207	Waste Mg-Al based alloys for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 16738-16748	3.7	44
206	In vitro biodegradation testing of Mg-alloy EZK400 and manufacturing of implant prototypes using PM (powder metallurgy) methods. <i>Bioactive Materials</i> , <b>2018</b> , 3, 213-217	16.7	7
205	Design of a Nanometric AlTi Additive for MgB <sub>2</sub> -Based Reactive Hydride Composites with Superior Kinetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7642-7655	3.8	22
204	Li NH-LiBH : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1342-1347	4.8	10
203	A hydride composite featuring mutual destabilisation and reversible boron exchange: Ca(BH <sub>4</sub> ) <sub>2</sub> /Mg <sub>2</sub> NiH <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17929-17946	13	5
202	Recent Progress and New Perspectives on Metal Amide and Imide Systems for Solid-State Hydrogen Storage. <i>Energies</i> , <b>2018</b> , 11, 1027	3.1	33
201	Fundamental Material Properties of the 2LiBH <sub>4</sub> -MgH <sub>2</sub> Reactive Hydride Composite for Hydrogen Storage: (I) Thermodynamic and Heat Transfer Properties. <i>Energies</i> , <b>2018</b> , 11, 1081	3.1	21
200	In Situ Formation of TiB <sub>2</sub> Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of LiBH <sub>4</sub> /MgH <sub>2</sub> as a Reversible Solid-State Hydrogen Storage Composite System. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11671-11681	3.8	22
199	Metal Injection Molding (MIM) of Mg-Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2018</b> , 239-251	0.3	3
198	Engineering Solutions in Scale-Up and Tank Design for Metal Hydrides. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2220-2225	0.4	2
197	New Insight on the Hydrogen Absorption Evolution of the MgBeH System under Equilibrium Conditions. <i>Metals</i> , <b>2018</b> , 8, 967	2.3	13

196	Fundamental Material Properties of the 2LiBH <sub>4</sub> -MgH <sub>2</sub> Reactive Hydride Composite for Hydrogen Storage: (II) Kinetic Properties. <i>Energies</i> , <b>2018</b> , 11, 1170	3.1	16
195	Air-stable metal hydride-polymer composites of Mg(NH <sub>2</sub> ) <sub>2</sub> LiH and TPX. <i>Materials Today Energy</i> , <b>2018</b> , 10, 98-107	7	12
194	Solid State Hydrogen Storage in Alanates and Alanate-Based Compounds: A Review. <i>Metals</i> , <b>2018</b> , 8, 567	2.3	36
193	Metal Hydride-Based Hydrogen Storage Tank Coupled with an Urban Concept Fuel Cell Vehicle: Off Board Tests. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1800004	5.9	11
192	Phase stability and hydrogen desorption in a quinary equimolar mixture of light-metals borohydrides. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 16793-16803	6.7	14
191	Hydrogenation Study of NaF/NaH/MgB <sub>2</sub> Reactive Hydride Composites. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4093-4102	3.8	3
190	Influence of thermal properties and temperature of substrate on the quality of cold-sprayed deposits. <i>Acta Materialia</i> , <b>2017</b> , 127, 287-301	8.4	56
189	Changing the dehydrogenation pathway of LiBH <sub>4</sub> -MgH <sub>2</sub> via nanosized lithiated TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 7455-7460	3.6	19
188	The Use of Neutron and Synchrotron Research for Aerospace and Automotive Materials and Components <b>2017</b> , 327-364		
187	Synthesis of Mg <sub>2</sub> FeD <sub>6</sub> under low pressure conditions for Mg <sub>2</sub> FeH <sub>6</sub> hydrogen storage studies. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 11422-11428	6.7	7
186	The effect of Sr(OH) on the hydrogen storage properties of the Mg(NH) <sub>2</sub> -2LiH system. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 8457-8464	3.6	13
185	Effects of Stoichiometry on the H <sub>2</sub> -Storage Properties of Mg(NH) <sub>2</sub> -LiH-LiBH <sub>4</sub> Tri-Component Systems. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1758-1764	4.5	11
184	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9766-9771	4.8	18
183	A novel catalytic route for hydrogenation/dehydrogenation of 2LiH + MgB <sub>2</sub> via in situ formed core-shell Li <sub>x</sub> TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12922-12933	13	19
182	Synthesis, structures and thermal decomposition of ammine MBH complexes (M = Li, Na, Ca). <i>Dalton Transactions</i> , <b>2017</b> , 46, 7770-7781	4.3	8
181	Warm Spraying of High-Strength Ni-Al-Bronze: Cavitation Characteristics and Property Prediction. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 265-277	2.5	8
180	Cold sprayed WO and TiO <sub>2</sub> electrodes for photoelectrochemical water and methanol oxidation in renewable energy applications. <i>Dalton Transactions</i> , <b>2017</b> , 46, 12811-12823	4.3	15
179	Kinetic alteration of the 6Mg(NH) <sub>2</sub> -9LiH-LiBH <sub>4</sub> system by co-adding YCl and LiN. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 32105-32115	3.6	8

178	Tetrahydroborates: Development and Potential as Hydrogen Storage Medium. <i>Inorganics</i> , <b>2017</b> , 5, 74	2.9	41
177	In Situ X-ray Diffraction Studies on the De/rehydrogenation Processes of the K <sub>2</sub> [Zn(NH <sub>2</sub> ) <sub>4</sub> ]-8LiH System. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1546-1551	3.8	10
176	Cold gas spraying $\Delta$ promising technique for photoelectrodes. <i>Catalysis Today</i> , <b>2016</b> , 260, 140-147	5.3	12
175	Optimization and comprehensive characterization of metal hydride based hydrogen storage systems using in-situ Neutron Radiography. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 567-577	8.9	5
174	KNH-KH: a metal amide-hydride solid solution. <i>Chemical Communications</i> , <b>2016</b> , 52, 11760-11763	5.8	12
173	Cyclic stability and structure of nanoconfined Ti-doped NaAlH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4159-4167	6.7	12
172	Cold spraying $\Delta$ materials perspective. <i>Acta Materialia</i> , <b>2016</b> , 116, 382-407	8.4	417
171	Metal hydrides for concentrating solar thermal power energy storage. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	71
170	Magnesium Powder Injection Molding (MIM) of Orthopedic Implants for Biomedical Applications. <i>Jom</i> , <b>2016</b> , 68, 1191-1197	2.1	21
169	2LiBH <sub>4</sub> /MgH <sub>2</sub> nanoconfined into carbon aerogel scaffold impregnated with ZrCl <sub>4</sub> for reversible hydrogen storage. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 169, 136-141	4.4	23
168	New synthesis route for ternary transition metal amides as well as ultrafast amide-hydride hydrogen storage materials. <i>Chemical Communications</i> , <b>2016</b> , 52, 5100-3	5.8	16
167	A new potassium-based intermediate and its role in the desorption properties of the K-Mg-N-H system. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3910-20	3.6	8
166	Ca(BH <sub>4</sub> ) <sub>2</sub> -Mg <sub>2</sub> NiH <sub>4</sub> : on the pathway to a Ca(BH <sub>4</sub> ) <sub>2</sub> system with a reversible hydrogen cycle. <i>Chemical Communications</i> , <b>2016</b> , 52, 4836-9	5.8	24
165	Metal Injection Molding (MIM) of Magnesium and Its Alloys. <i>Metals</i> , <b>2016</b> , 6, 118	2.3	23
164	Development of a modular room-temperature hydride storage system for vehicular applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	20
163	First Direct Study of the Ammonolysis Reaction in the Most Common Alkaline and Alkaline Earth Metal Hydrides by in Situ SR-PXD. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 934-943	3.8	17
162	Single Impact Bonding of Cold Sprayed Ti-6Al-4V Powders on Different Substrates. <i>Journal of Thermal Spray Technology</i> , <b>2015</b> , 24, 644-658	2.5	59
161	Scattering influences in quantitative fission neutron radiography for the in situ analysis of hydrogen distribution in metal hydrides. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 797, 158-164	1.2	3



160	Synchrotron Diffraction Studies of Hydrogen Absorption/Desorption on CaH <sub>2</sub> + MgB <sub>2</sub> Reactive Hydride Composite Mixed With Fluorinated Compounds. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11430-11437	3.8	47
159	Effect of Fe additive on the hydrogenation-dehydrogenation properties of 2LiH/2MgB <sub>2</sub> /2LiBH <sub>4</sub> /MgH <sub>2</sub> system. <i>Journal of Power Sources</i> , <b>2015</b> , 284, 606-616	8.9	26
158	Strain-Induced Phase Transformation of MCrAlY. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 723-731	3.5	14
157	Determination of plastic constitutive properties of microparticles through single particle compression. <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 1544-1554	4.6	20
156	On the Hydrogenation of a NaH/AlB <sub>2</sub> Mixture. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 22826-22831	3.8	2
155	In situ X-ray diffraction environments for high-pressure reactions. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 1234-1241	3.8	60
154	Influence of milling parameters on the sorption properties of the LiH/MgB <sub>2</sub> system doped with TiCl <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, S299-S303	5.7	10
153	Improvement of thermal stability and reduction of LiBH <sub>4</sub> /polymer host interaction of nanoconfined LiBH <sub>4</sub> for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 392-402	6.7	21
152	Influence of spraying parameters on cold gas spraying of iron aluminide intermetallics. <i>Surface and Coatings Technology</i> , <b>2015</b> , 268, 99-107	4.4	21
151	Inkjet Printing of Functionalized TiO <sub>2</sub> Catalytic Layer for Water Oxidation Reaction. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1776, 13-17		2
150	Simultaneous desorption behavior of M borohydrides and Mg <sub>2</sub> FeH <sub>6</sub> reactive hydride composites (M = Mg, then Li, Na, K, Ca). <i>Applied Physics Letters</i> , <b>2015</b> , 107, 073905	3.4	13
149	Sorption properties and reversibility of Ti(IV) and Nb(V)-fluoride doped-Ca(BH <sub>4</sub> ) <sub>2</sub> /MgH <sub>2</sub> system. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 622, 989-994	5.7	14
148	Ternary Amides Containing Transition Metals for Hydrogen Storage: A Case Study with Alkali Metal Amidozincates. <i>ChemSusChem</i> , <b>2015</b> , 8, 3777-82	8.3	12
147	Structural and kinetic investigation of the hydride composite Ca(BH <sub>4</sub> ) <sub>2</sub> + MgH <sub>2</sub> system doped with NbF <sub>5</sub> for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27328-42	3.6	21
146	Coating formation, fracture mode and cavitation performance of Fe <sub>40</sub> Al deposited by cold gas spraying. <i>Surface Engineering</i> , <b>2015</b> , 31, 853-859	2.6	4
145	Design, sorption behaviour and energy management in a sodium alanate-based lightweight hydrogen storage tank. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2984-2988	6.7	27
144	Transport phenomena versus intrinsic kinetics: Hydrogen sorption limiting sub-process in metal hydride beds. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 18952-18957	6.7	10
143	Effective nanoconfinement of 2LiBH <sub>4</sub> /MgH <sub>2</sub> via simply MgH <sub>2</sub> premilling for reversible hydrogen storages. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 15614-15626	6.7	34

142	Hydrogen storage systems from waste Mg alloys. <i>Journal of Power Sources</i> , <b>2014</b> , 270, 554-563	8.9	60
141	2LiBH <sub>4</sub> /MgH <sub>2</sub> /0.13TiCl <sub>4</sub> confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 599, 78-86	5.7	33
140	NaAlH <sub>4</sub> production from waste aluminum by reactive ball milling. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 9877-9882	6.7	5
139	Hydrogen storage in Mg/LiBH <sub>4</sub> composites catalyzed by FeF <sub>3</sub> . <i>Journal of Power Sources</i> , <b>2014</b> , 267, 799-805	8.1	33
138	Structural analysis of calcium reactive hydride composite for solid state hydrogen storage. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 67-75	3.8	16
137	Cold Spraying of Amorphous Cu <sub>50</sub> Zr <sub>50</sub> Alloys. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 24, 108	2.5	9
136	Cold Spraying of Cu-Al-Bronze for Cavitation Protection in Marine Environments. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 24, 126	2.5	5
135	Effect of the Partial Replacement of CaH <sub>2</sub> with CaF <sub>2</sub> in the Mixed System CaH <sub>2</sub> + MgB <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28409-28417	3.8	15
134	Cold spraying of Cu-Al-Bronze for cavitation protection in marine environments. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2014</b> , 45, 708-716	0.9	5
133	Cold Gas Sprayed TiO <sub>2</sub> -Based Electrodes for the Photo-Induced Water Oxidation. <i>ECS Transactions</i> , <b>2014</b> , 58, 21-30	1	5
132	Magnesium powder injection moulding for biomedical application. <i>Powder Metallurgy</i> , <b>2014</b> , 57, 331-340	1.9	21
131	Effect of NaH/MgB <sub>2</sub> ratio on the hydrogen absorption kinetics of the system NaH + MgB <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 5030-5036	6.7	12
130	Destabilization of LiBH <sub>4</sub> by nanoconfinement in PMMA/BoBM polymer matrix for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 5019-5029	6.7	50
129	Characterization of metal hydrides by in-situ XRD. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 9899-9903	6.7	34
128	Analysis of Thermal History and Residual Stress in Cold-Sprayed Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 23, 84-90	2.5	53
127	Structural study of a new B-rich phase obtained by partial hydrogenation of 2NaH/3MgB <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 10479-10484	6.7	14
126	Sorption behavior of the MgH <sub>2</sub> /Mg <sub>2</sub> FeH <sub>6</sub> hydride storage system synthesized by mechanical milling followed by sintering. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 14618-14630	6.7	31
125	MgH <sub>2</sub> as dopant for improved activation of commercial Mg ingot. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 575, 364-369	5.7	18



124	Nanoconfined 2LiBH <sub>4</sub> /MgH <sub>2</sub> /TiCl <sub>3</sub> in carbon aerogel scaffold for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 3275-3282	6.7	45
123	Nanoconfined 2LiBH <sub>4</sub> /MgH <sub>2</sub> for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1932-1942	6.7	43
122	Effect of nitrogen flow rate on microstructures and mechanical properties of metallic coatings by warm spray deposition. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 587-599	4.4	12
121	Photocatalytic degradation of oxalic and dichloroacetic acid on TiO <sub>2</sub> coated metal substrates. <i>Catalysis Today</i> , <b>2013</b> , 209, 84-90	5.3	22
120	Effect of Substrate Temperature on Cold-Gas-Sprayed Coatings on Ceramic Substrates. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 422-432	2.5	34
119	Mechanical characterization of mechanically alloyed ultrafine-grained Ti <sub>5</sub> Si <sub>3</sub> +40vol% TiAl composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 579, 18-25	5.3	8
118	Cold Spraying of Ti <sub>2</sub> AlC MAX-Phase Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 406-412	2.5	40
117	Compaction pressure influence on material properties and sorption behaviour of LiBH <sub>4</sub> /MgH <sub>2</sub> composite. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 8357-8366	6.7	31
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114	Cold gas spraying of semiconductor coatings for the photooxidation of water <b>2013</b> ,		1
113	Patterned CoCrMo and Al <sub>2</sub> O <sub>3</sub> surfaces for reduced free wear debris in artificial joint arthroplasty. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3447-56	5.4	14
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109	Differential Scanning Calorimetry (DSC) and Synchrotron X-ray Diffraction Study of Unmilled and Milled LiBH <sub>4</sub> : A Partial Release of Hydrogen at Moderate Temperatures. <i>Crystals</i> , <b>2012</b> , 2, 1-21	2.3	11
108	Impact Conditions for Cold Spraying of Hard Metallic Glasses. <i>Journal of Thermal Spray Technology</i> , <b>2012</b> , 21, 531-540	2.5	35
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