Maximilian Fichtner

List of Publications by Citations

278 papers	10,838 citations	56 h-index	88 g-index
300 ext. papers	12,444 ext. citations	7.2 avg, IF	6.77 L-index

#	Paper	IF	Citations
278	Batteries based on fluoride shuttle. *Journal of Materials Chemistry*, **2011**, 21, 17059		287
277	Synthesis and properties of magnesium tetrahydroborate, Mg(BH4)2. *Journal of Materials Chemistry*, **2007**, 17, 3496		287
276	Performance Improvement of Magnesium Sulfur Batteries with Modified Non-Nucleophilic Electrolytes. *Advanced Energy Materials*, **2015**, 5, 1401155	21.8	241
275	A new class of non-corrosive, highly efficient electrolytes for rechargeable magnesium batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10815-10820	13	219
274	Nanotechnological Aspects in Materials for Hydrogen Storage. *Advanced Engineering Materials*, **2005**, 7, 443-455	3.5	216
273	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. *Nanoscale*, **2016**, 8, 3296-306	7.7	190
272	On the Interaction of Dihydrogen with Aromatic Systems *Journal of Physical Chemistry A*, **2004**, 108, 3019-3023	2.8	169
271	Small Ti clusters for catalysis of hydrogen exchange in NaAlH4. *Nanotechnology*, **2003**, 14, 778-785	3.4	166
270	Altered thermodynamic and kinetic properties of MgH(2) infiltrated in microporous scaffold. *Chemical Communications*, **2010**, 46, 8353-5	5.8	159
269	The Controlled Oxidation of Hydrogen from an Explosive Mixture of Gases Using a Microstructured Reactor/Heat Exchanger and Pt/Al2O3 Catalyst. *Journal of Catalysis*, **2000**, 191, 282-293	7.3	159
268	Toward Highly Reversible Magnesium–Sulfur Batteries with Efficient and Practical Mg[B(hfip)4]2Electrolyte. *ACS Energy Letters*, **2018**, 3, 2005-2013	20.1	149
267	Bisamide based non-nucleophilic electrolytes for rechargeable magnesium batteries. *RSC Advances*, **2013**, 3, 16330	3.7	139
266	Preparation of microstructure compatible porous supports by sol–gel synthesis for catalyst coatings. *Applied Catalysis A: General*, **2001**, 220, 79-92	5.1	139
265	Fluoride ion batteries: Theoretical performance, safety, toxicity, and a combinatorial screening of new electrodes. *Journal of Fluorine Chemistry*, **2016**, 182, 76-90	2.1	136
264	In situ synchrotron diffraction studies of phase transitions and thermal decomposition of Mg(BH4)2 and Ca(BH4)2. *Journal of Materials Chemistry*, **2007**, 17, 4939		135
263	Interface in Solid-State Lithium Battery: Challenges, Progress, and Outlook. *ACS Applied Materials & Interfaces*, **2019**, 11, 22029-22050	9.5	127
262	Single step transformation of sulphur to Li2S2/Li2S in Li-S batteries. *Scientific Reports*, **2015**, 5, 12146	4.9	125

261	Nanostructured Fluorite-Type Fluorides As Electrolytes for Fluoride Ion Batteries. *Journal of Physical Chemistry C*, **2013**, 117, 4943-4950	3.8	122
260	Disordered Lithium-Rich Oxyfluoride as a Stable Host for Enhanced Li+ Intercalation Storage. *Advanced Energy Materials*, **2015**, 5, 1401814	21.8	119
259	Metal oxychlorides as cathode materials for chloride ion batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 13621-4	16.4	116
258	Towards stable and efficient electrolytes for room-temperature rechargeable calcium batteries. *Energy and Environmental Science*, **2019**, 12, 3496-3501	35.4	115
257	Magnesium alanate□ material for reversible hydrogen storage?. *Journal of Alloys and Compounds*, **2003**, 356-357, 418-422	5.7	112
256	Synthesis and structures of magnesium alanate and two solvent adducts. *Journal of Alloys and Compounds*, **2002**, 345, 286-296	5.7	110
255	Chloride ion battery: A new member in the rechargeable battery family. *Journal of Power Sources*, **2014**, 245, 706-711	8.9	108
254	Solid electrolytes for fluoride ion batteries: ionic conductivity in polycrystalline tysonite-type fluorides. *ACS Applied Materials & Interfaces*, **2014**, 6, 2103-10	9.5	102
253	Nanoconfinement effects in energy storage materials. *Physical Chemistry Chemical Physics*, **2011**, 13, 21186-95	3.6	101
252	Chemical State and Local Structure around Titanium Atoms in NaAlH4 Doped with TiCl3 Using X-ray Absorption Spectroscopy. *Journal of Physical Chemistry B*, **2004**, 108, 16372-16376	3.4	101
251	Thermal decomposition of Mg(BH4)2 under He flow and H2 pressure. *Journal of Materials Chemistry* , **2008**, 18, 2611		99
250	Reversible hydrogen storage in LiBH4□Al□iH composite powder. *Scripta Materialia*, **2008**, 58, 963-965	5.6	93
249	Diborane Release from LiBH4/Silica-Gel Mixtures and the Effect of Additives. *Journal of Physical Chemistry C*, **2007**, 111, 14026-14029	3.8	92
248	Effect of Ti catalyst with different chemical form on Li□H hydrogen storage properties. *Journal of Alloys and Compounds*, **2005**, 404-406, 439-442	5.7	90
247	Insight into Sodium Insertion and the Storage Mechanism in Hard Carbon. *ACS Energy Letters*, **2018**, 3, 2851-2857	20.1	89
246	The structure of magnesium alanate. *Inorganic Chemistry*, **2003**, 42, 7060-6	5.1	88
245	Properties of nanoscale metal hydrides. *Nanotechnology*, **2009**, 20, 204009	3.4	87
244	Structure of Ca(BD4)2 beta-phase from combined neutron and synchrotron X-ray powder diffraction data and density functional calculations. *Journal of Physical Chemistry B*, **2008**, 112, 8042-8	3.4	87

243	Double-bridge bonding of aluminium and hydrogen in the crystal structure of gamma-AlH3. *Inorganic Chemistry*, **2007**, 46, 1051-5	5.1	83
242	CuF2 as Reversible Cathode for Fluoride Ion Batteries. *Advanced Functional Materials*, **2017**, 27, 1701051	15.6	81
241	The kinetic properties of Mg(BH4)2 infiltrated in activated carbon. *Nanotechnology*, **2009**, 20, 204029	3.4	81
240	A ferrocene-based carbon□ron lithium fluoride nanocomposite as a stable electrode material in lithium batteries. *Journal of Materials Chemistry*, **2010**, 20, 1871		79
239	Thermodynamic effects in nanoscale NaAlH4. *ChemPhysChem*, **2010**, 11, 789-92	3.2	79
238	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. *Journal of Alloys and Compounds*, **2020**, 817, 153261	5.7	79
237	Development of new anode composite materials for fluoride ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 20861-20872	13	77
236	LiBH4□Mg(BH4)2: A Physical Mixture of Metal Borohydrides as Hydrogen Storage Material. *Journal of Physical Chemistry C*, **2011**, 115, 6095-6101	3.8	73
235	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. *Nature Communications*, **2018**, 9, 5115	17.4	73
234	Nanocrystalline aluminium hydrides for hydrogen storage. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 108, 42-47	3.1	71
233	A Density Functional Study of □Mg(BH4)2. *Chemistry of Materials*, **2008**, 20, 4952-4956	9.6	70
232	Determination of the crystal structure of Mg(AlH4)2 by combined X-ray and neutron diffraction. *Journal of Alloys and Compounds*, **2005**, 387, 47-51	5.7	68
231	Microstructured Rhodium Catalysts for the Partial Oxidation of Methane to Syngas under Pressure. *Industrial & Engineering Chemistry Research*, **2001**, 40, 3475-3483	3.9	65
230	CFx Derived Carbon□eF2 Nanocomposites for Reversible Lithium Storage. *Advanced Energy Materials*, **2013**, 3, 308-313	21.8	63
229	The effect of Al on the hydrogen sorption mechanism of LiBH(4). *Physical Chemistry Chemical Physics*, **2009**, 11, 1515-20	3.6	63
228	Halide-Based Materials and Chemistry for Rechargeable Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 5902-5949	16.4	63
227	Evolution of the local structure around Ti atoms in NaAlH4 doped with TiCl3 or Ti13.6THF by ball milling using X-ray absorption and X-ray photoelectron spectroscopy. *Journal of Physical Chemistry B*, **2006**, 110, 1192-200	3.4	62
226	Thermal coupling of a high temperature PEM fuel cell with a complex hydride tank. *International Journal of Hydrogen Energy*, **2009**, 34, 3457-3466	6.7	61

225	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. *Angewandte Chemie - International Edition*, **2017**, 56, 10341-10346	16.4	57
224	Magnesium anode for chloride ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 10997-1000	9.5	57
223	Selenium and selenium-sulfur cathode materials for high-energy rechargeable magnesium batteries. *Journal of Power Sources*, **2016**, 323, 213-219	8.9	57
222	Thermal decomposition of AlH3 studied by in situ synchrotron X-ray diffraction and thermal desorption spectroscopy. *Journal of Alloys and Compounds*, **2007**, 446-447, 280-289	5.7	56
221	Hydrogen exchange kinetics in NaAlH4 catalyzed in different decomposition states. *Journal of Applied Physics*, **2004**, 95, 7748-7753	2.5	56
220	Synthesis of amorphous Mg(BH4)2 from MgB2 and H2 at room temperature. *Journal of Alloys and Compounds*, **2010**, 508, 212-215	5.7	55
219	Beyond Intercalation Chemistry for Rechargeable Mg Batteries: A Short Review and Perspective. *Frontiers in Chemistry*, **2018**, 6, 656	5	55
218	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 4285-90	16.4	52
217	Development of tysonite-type fluoride conducting thin film electrolytes for fluoride ion batteries. *Solid State Ionics*, **2015**, 272, 39-44	3.3	52
216	A fluoride-doped PEG matrix as an electrolyte for anion transportation in a room-temperature fluoride ion battery. *Journal of Materials Chemistry A*, **2014**, 2, 1214-1218	13	51
215	A facile synthesis of encapsulated CoFe2O4 into carbon nanofibres and its application as conversion anodes for lithium ion batteries. *Journal of Power Sources*, **2014**, 260, 205-210	8.9	51
214	Corrosion Resistance of Current Collector Materials in Bisamide Based Electrolyte for Magnesium Batteries. *ECS Electrochemistry Letters*, **2014**, 4, C8-C10		51
213	The identification of a hitherto unknown intermediate phase CaB2Hx from decomposition of Ca(BH4)2. *Journal of Materials Chemistry*, **2009**, 19, 2754		51
212	Rate limiting steps of the phase transformations in Ti-doped NaAlH4 investigated by isotope exchange. *Physical Review B*, **2007**, 75,	3.3	51
211	Li(+) intercalation in isostructural Li2VO3 and Li2VO2F with O(2-) and mixed O(2-)/F(-) anions. *Physical Chemistry Chemical Physics*, **2015**, 17, 17288-95	3.6	50
210	Effect of several metal chlorides on the thermal decomposition behaviour of □Mg(BH4)2. *International Journal of Hydrogen Energy*, **2011**, 36, 12313-12318	6.7	50
209	Pressure Effect on the 2NaH + MgB2 Hydrogen Absorption Reaction. *Journal of Physical Chemistry C*, **2010**, 114, 21816-21823	3.8	50
208	Vibrational Spectra of Ca(BH 4) 2. *Journal of Physical Chemistry C*, **2008**, 112, 11575-11579	3.8	50

207	Hydrogen sensing with diameter- and chirality-sorted carbon nanotubes. *ACS Nano*, **2011**, 5, 1670-6	16.7	49
206	Room-Temperature, Rechargeable Solid-State Fluoride-Ion Batteries. *ACS Applied Energy Materials*, **2018**, 1, 4766-4775	6.1	48
205	Improved Voltage and Cycling for Li Intercalation in High-Capacity Disordered Oxyfluoride Cathodes. *Advanced Science*, **2015**, 2, 1500128	13.6	48
204	Vanadium oxychloride/magnesium electrode systems for chloride ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 22430-5	9.5	48
203	Structure and Thermodynamic Properties of the NaMgH3 Perovskite: A Comprehensive Study. *Chemistry of Materials*, **2011**, 23, 2317-2326	9.6	48
202	Synthesis and properties of calcium alanate and two solvent adducts. *Inorganic Chemistry*, **2005**, 44, 3479-84	5.1	48
201	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 11483-11490	16.4	47
200	Novel transmetalation reaction for electrolyte synthesis for rechargeable magnesium batteries. *RSC Advances*, **2014**, 4, 26924-26927	3.7	46
199	Altered reaction pathways of eutectic LiBH4–Mg(BH4)2 by nanoconfinement. *Journal of Materials Chemistry A*, **2013**, 1, 3379	13	46
198	Modified synthesis of [Fe/LiF/C] nanocomposite, and its application as conversion cathode material in lithium batteries. *Journal of Power Sources*, **2011**, 196, 5936-5944	8.9	46
197	New Organic Electrode Materials for Ultrafast Electrochemical Energy Storage. *Advanced Materials*, **2019**, 31, e1806599	24	44
196	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. *Small*, **2020**, 16, e2000279	11	41
195	Investigation on the Properties of the Mixture Consisting of Mg(NH2)2, LiH, and LiBH4 as a Hydrogen Storage Material. *Chemistry of Materials*, **2008**, 20, 7089-7094	9.6	41
194	Kinetic studies of the decomposition of NaAlH4 doped with a Ti-based catalyst. *Journal of Alloys and Compounds*, **2005**, 404-406, 339-342	5.7	40
193	Hindered Rotational Energy Barriers of BH4– Tetrahedra in α-Mg(BH4)2 from Quasielastic Neutron Scattering and DFT Calculations. *Journal of Physical Chemistry C*, **2012**, 116, 2013-2023	3.8	39
192	Reaction steps in the Li–Mg–N–H hydrogen storage system. *Journal of Alloys and Compounds*, **2007**, 446-447, 332-335	5.7	39
191	Fe(3)O(4) anchored onto helical carbon nanofibers as high-performance anode in lithium-ion batteries. *ChemSusChem*, **2012**, 5, 1397-400	8.3	38
190	Structural Phase Transitions of Mg(BH4)2 under Pressure. *Journal of Physical Chemistry C*, **2009**, 113, 486-492	3.8	38

189	SSH2S: Hydrogen storage in complex hydrides for an auxiliary power unit based on high temperature proton exchange membrane fuel cells. *Journal of Power Sources*, **2017**, 342, 853-860	8.9	37
188	Chemical state of Ti in sodium alanate doped with TiCl3 using X-ray photoelectron spectroscopy. *Journal of Alloys and Compounds*, **2005**, 404-406, 766-770	5.7	37
187	SEM and TEM characterization of sodium alanate doped with TiCl3 or small Ti clusters (Ti13·6THF). *Journal of Alloys and Compounds*, **2006**, 414, 190-203	5.7	37
186	Conductivity Optimization of Tysonite-type LaBaF Solid Electrolytes for Advanced Fluoride Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 23707-23715	9.5	36
185	Improving the energy density and power density of CFx by mechanical milling: a primary lithium battery electrode. *ACS Applied Materials & Interfaces*, **2013**, 5, 11207-11	9.5	36
184	Investigation of the Nature of a Ti/Al Cluster Formed upon Cycling under Hydrogen in Na Alanate Doped with a Ti-Based Precursor. *Journal of Physical Chemistry C*, **2008**, 112, 12545-12549	3.8	35
183	Development of a water based process for stable conversion cathodes on the basis of FeF3. *Journal of Power Sources*, **2016**, 313, 213-222	8.9	34
182	Catalytic Influence of Various Cerium Precursors on the Hydrogen Sorption Properties of NaAlH4. *Advanced Energy Materials*, **2012**, 2, 560-568	21.8	34
181	Calcined chicken eggshell electrode for battery and supercapacitor applications.. *RSC Advances*, **2019**, 9, 26981-26995	3.7	33
180	Tailored heat transfer characteristics of pelletized LiNH2/MgH2 and NaAlH4 hydrogen storage materials. *Journal of Power Sources*, **2012**, 205, 173-179	8.9	33
179	Structure of the Orthorhombic δ-Phase and Phase Transitions of Ca(BD4)2. *Journal of Physical Chemistry C*, **2009**, 113, 17223-17230	3.8	33
178	Thermal decomposition of Mg(AlH4)2 studied by in situ synchrotron X-ray diffraction. *Journal of Alloys and Compounds*, **2005**, 404-406, 752-756	5.7	33
177	Insights into the electrochemical processes of rechargeable magnesium–sulfur batteries with a new cathode design. *Journal of Materials Chemistry A*, **2019**, 7, 25490-25502	13	33
176	The metamorphosis of rechargeable magnesium batteries. *Joule*, **2021**, 5, 581-617	27.8	32
175	Copper Porphyrin as a Stable Cathode for High-Performance Rechargeable Potassium Organic Batteries. *ChemSusChem*, **2020**, 13, 2286-2294	8.3	31
174	Polysulfides Formation in Different Electrolytes from the Perspective of X-ray Absorption Spectroscopy. *Journal of the Electrochemical Society*, **2018**, 165, A5014-A5019	3.9	31
173	Study of the structural, thermodynamic and cyclic effects of vanadium and titanium substitution in laves-phase AB2 hydrogen storage alloys. *International Journal of Hydrogen Energy*, **2017**, 42, 20103-20110	6.7	31
172	Functions of LiBH4 in the hydrogen sorption reactions of the 2LiH-Mg(NH2)2 system. *Dalton Transactions*, **2010**, 39, 9100-7	4.3	31

171	Formation and Stability of Ternary Imides in the Li–Mg–N–H Hydrogen Storage System. *Chemistry of Materials*, **2009**, 21, 3485-3490	9.6	30
170	Recent developments and future perspectives of anionic batteries. *Journal of Power Sources*, **2021**, 481, 228877	8.9	30
169	Electrochemical fluorination of perovskite type BaFeO2.5. *Dalton Transactions*, **2014**, 43, 15771-8	4.3	29
168	Nanostructured composites of mesoporous carbons and boranates as hydrogen storage materials. *Journal of Alloys and Compounds*, **2011**, 509, S705-S708	5.7	29
167	Conversion materials for hydrogen storage and electrochemical applications—Concepts and similarities. *Journal of Alloys and Compounds*, **2011**, 509, S529-S534	5.7	29
166	Nanocrystalline alanates—Phase transformations, and catalysts. *Journal of Alloys and Compounds*, **2005**, 404-406, 732-737	5.7	29
165	Phase-structural transformations in a metal hydride battery anode La1.5Nd0.5MgNi9 alloy and its electrochemical performance. *International Journal of Hydrogen Energy*, **2016**, 41, 9954-9967	6.7	28
164	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. *International Journal of Hydrogen Energy*, **2020**, 45, 33687-33730	6.7	28
163	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives. *Scientific Reports*, **2018**, 8, 7578	4.9	28
162	Hydrogenation Reaction Pathway in Li2Mg(NH)2. *Journal of Physical Chemistry C*, **2009**, 113, 15772-15777	3.8	27
161	Nitrogen Rich Hierarchically Organized Porous Carbon/Sulfur Composite Cathode Electrode for High Performance Li/S Battery: A Mechanistic Investigation by Operando Spectroscopic Studies. *Advanced Materials Interfaces*, **2016**, 3, 1600372	4.6	27
160	Bio-waste chicken eggshells to store energy. *Dalton Transactions*, **2018**, 47, 16828-16834	4.3	27
159	Insight into Sulfur Confined in Ultramicroporous Carbon. *ACS Omega*, **2018**, 3, 11290-11299	3.9	27
158	Synthesis of a nitrogen rich (2D–1D) hybrid carbon nanomaterial using a MnO2 nanorod template for high performance Li-ion battery applications. *Journal of Materials Chemistry A*, **2015**, 3, 6810-6818	13	26
157	High resolution Raman and neutron investigation of Mg(BH4)2 in an extensive temperature range. *Journal of Physical Chemistry A*, **2010**, 114, 2788-93	2.8	26
156	Synthesis of Fast Fluoride-Ion-Conductive Fluorite-Type BaSb F (0.1 ≤ x ≤ 0.4): A Potential Solid Electrolyte for Fluoride-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 17249-17256	9.5	25
155	Design of Nickel-Based Cation-Disordered Rock-Salt Oxides: The Effect of Transition Metal (M = V, Ti, Zr) Substitution in LiNiMO Binary Systems. *ACS Applied Materials & Interfaces*, **2018**, 10, 21957-21964	9.5	25
154	Hydrogen diffusion in La1.5Nd0.5MgNi9 alloy electrodes of the Ni/MH battery. *Journal of Alloys and Compounds*, **2015**, 645, S288-S291	5.7	25

153	Additive Effects of LiBH4 and ZrCoH3 on the Hydrogen Sorption of the Li-Mg-N-H Hydrogen Storage System. *Journal of Physical Chemistry C*, **2012**, 116, 20246-20253	3.8	25
152	The Role of Ca(BH4)2 Polymorphs. *Journal of Physical Chemistry C*, **2012**, 116, 13472-13479	3.8	25
151	Synthesis of [Co/LiF/C] nanocomposite and its application as cathode in lithium-ion batteries. *Journal of Alloys and Compounds*, **2012**, 530, 121-126	5.7	25
150	Monitoring the Electrochemical Energy Storage Processes of an Organic Full Rechargeable Battery via Operando Raman Spectroscopy: A Mechanistic Study. *Chemistry of Materials*, **2019**, 31, 3239-3247	9.6	24
149	The crystal structure of the first borohydride borate, Ca3(BD4)3(BO3). *Journal of Materials Chemistry*, **2011**, 21, 7188		24
148	Feasibility and performance of the mixture of MgH2 and LiNH2 (1:1) as a hydrogen-storage material. *Acta Materialia*, **2011**, 59, 5821-5831	8.4	24
147	Effects of catalysts on the dehydriding of alanates monitored by proton NMR. *Journal of Alloys and Compounds*, **2005**, 404-406, 738-742	5.7	24
146	Electrochemical performance of all solid-state fluoride-ion batteries based on thin-film electrolyte using alternative conductive additives and anodes. *Journal of Solid State Electrochemistry*, **2018**, 22, 997-1006	2.6	24
145	Study of all solid-state rechargeable fluoride ion batteries based on thin-film electrolyte. *Journal of Solid State Electrochemistry*, **2017**, 21, 1243-1251	2.6	23
144	Improved cycling stability in high-capacity Li-rich vanadium containing disordered rock salt oxyfluoride cathodes. *Journal of Materials Chemistry A*, **2019**, 7, 21244-21253	13	23
143	Oxygen Activity in Li-Rich Disordered Rock-Salt Oxide and the Influence of LiNbO3 Surface Modification on the Electrochemical Performance. *Chemistry of Materials*, **2019**, 31, 4330-4340	9.6	23
142	In situ TEM studies of micron-sized all-solid-state fluoride ion batteries: Preparation, prospects, and challenges. *Microscopy Research and Technique*, **2016**, 79, 615-24	2.8	23
141	Nanoconfined Magnesium Borohydride for Hydrogen Storage Applications Investigated by SANS and SAXS. *Journal of Physical Chemistry C*, **2010**, 114, 18785-18789	3.8	23
140	Experimental evidence of librational vibrations determining the stability of calcium borohydride. *Physical Review B*, **2011**, 83,	3.3	23
139	A new phase in the decomposition of Mg(BH4)2: first-principles simulated annealing. *Journal of Materials Chemistry*, **2009**, 19, 7081		23
138	Synchrotron X-ray studies of Ti-doped NaAlH4. *Journal of Physical Chemistry B*, **2006**, 110, 3051-4	3.4	23
137	Rechargeable Batteries of the Future The State of the Art from a BATTERY 2030+ Perspective. *Advanced Energy Materials*,2102904	21.8	23
136	Introducing Interlayer Electrolytes: Toward Room-Temperature High-Potential Solid-State Rechargeable Fluoride Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 1553-1562	6.1	22

135	On the decomposition of the 0.6LiBH4-0.4Mg(BH4)2 eutectic mixture for hydrogen storage. *International Journal of Hydrogen Energy*, **2011**, 36, 13676-13682	6.7	22
134	Complex hydrides as solid storage materials: First safety tests. *International Journal of Hydrogen Energy*, **2009**, 34, 5981-5985	6.7	22
133	High-Pressure Investigation on Calcium Borohydride. *Journal of Physical Chemistry C*, **2009**, 113, 15087-15090	3.8	22
132	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. *Angewandte Chemie*, **2017**, 129, 10477-10482	3.6	21
131	Unlocking the Potential of Fluoride-Based Solid Electrolytes for Solid-State Lithium Batteries. *ACS Applied Energy Materials*, **2019**, 2, 7196-7203	6.1	21
130	Reversible Delithiation of Disordered Rock Salt LiVO2. *ChemElectroChem*, **2018**, 5, 1484-1490	4.3	21
129	Wide-Line Solid-State NMR Characterizations of Sodium Alanates. *Journal of Physical Chemistry C*, **2009**, 113, 15467-15472	3.8	21
128	Experimental results of an air-cooled lab-scale H2 storage tank based on sodium alanate. *International Journal of Hydrogen Energy*, **2011**, 36, 3556-3565	6.7	21
127	Quantitative analysis of ionic solids by secondary neutral mass spectrometry. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1992**, 10, 362-367	2.9	21
126	Investigation on the formation of Mg metal anode/electrolyte interfaces in Mg/S batteries with electrolyte additives. *Journal of Materials Chemistry A*, **2020**, 8, 22998-23010	13	21
125	Interlayer-Expanded Vanadium Oxychloride as an Electrode Material for Magnesium-Based Batteries. *ChemElectroChem*, **2017**, 4, 738-745	4.3	20
124	Vanadium oxychloride as electrode material for sodium ion batteries. *Electrochemistry Communications*, **2015**, 60, 180-184	5.1	20
123	A review on current anode materials for rechargeable Mg batteries. *Journal of Magnesium and Alloys*, **2020**, 8, 963-979	8.8	20
122	GeCu nanoparticles produced by inert gas condensation and their application as anode material for lithium ion batteries. *Electrochemistry Communications*, **2013**, 35, 116-119	5.1	20
121	Influence of Crystal Structure of Bulk Phase on the Stability of Nanoscale Phases: Investigation on MgH2 Derived Nanostructures. *Journal of Physical Chemistry C*, **2012**, 116, 18965-18972	3.8	20
120	A facile synthesis of a carbon-encapsulated Fe3O4 nanocomposite and its performance as anode in lithium-ion batteries. *Beilstein Journal of Nanotechnology*, **2013**, 4, 699-704	3	20
119	Hydrogen Rotational and Translational Diffusion in Calcium Borohydride from Quasielastic Neutron Scattering and DFT Calculations. *Journal of Physical Chemistry C*, **2010**, 114, 20249-20257	3.8	20
118	Small-angle scattering investigations of Mg-borohydride infiltrated in activated carbon. *Nanotechnology*, **2009**, 20, 505702	3.4	20

117	Degradation Mechanisms in Li2VO2F Li-Rich Disordered Rock-Salt Cathodes. *Chemistry of Materials*, **2019**, 31, 6084-6096	9.6	19
116	Role of hydrogen tanks in the life cycle assessment of fuel cell-based auxiliary power units. *Applied Energy*, **2018**, 215, 1-12	10.7	19
115	Material properties and empirical rate equations for hydrogen sorption reactions in 2 LiNH2□1.1 MgH2□0.1 LiBH4□ wt.% ZrCoH3. *International Journal of Hydrogen Energy*, **2014**, 39, 8283-8292	6.7	19
114	Perspective on ultramicroporous carbon as sulphur host for Li□S batteries. *Journal of Energy Chemistry*, **2021**, 59, 242-256	12	19
113	Cost reduction possibilities of vanadium-based solid solutions □Microstructural, thermodynamic, cyclic and environmental effects of ferrovanadium substitution. *Journal of Alloys and Compounds*, **2015**, 648, 1024-1030	5.7	18
112	Effect of oxygen on the microstructure and hydrogen storage properties of V□TiCr□e quaternary solid solutions. *International Journal of Hydrogen Energy*, **2014**, 39, 20000-20008	6.7	18
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110	Influence of particle size and fluorination ratio of CF x precursor compounds on the electrochemical performance of C-FeF2 nanocomposites for reversible lithium storage. *Beilstein Journal of Nanotechnology*, **2013**, 4, 705-13	3	17
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