

Maximilian Fichtner

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.

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	Dual Role of Mo S in Polysulfide Conversion and Shuttle for Mg-S Batteries.. <i>Advanced Science</i> , 2022 , e2104605	13.6	7
277	Visualization of structural changes and degradation of porphyrin-based battery electrodes. <i>Journal of Power Sources</i> , 2022 , 522, 231002	8.9	1
276	Structural and Electrochemical Insights from the Fluorination of Disordered Mn-Based Rock Salt Cathode Materials. <i>Chemistry of Materials</i> , 2022 , 34, 2268-2281	9.6	3
275	Designing Gel Polymer Electrolyte with Synergetic Properties for Rechargeable Magnesium Batteries. <i>Energy Storage Materials</i> , 2022 , 48, 155-163	19.4	3
274	Development of Magnesium Borate Electrolytes: Explaining the Success of Mg[B(hfip)4]2 Salt. <i>Energy Storage Materials</i> , 2021 , 45, 1133-1133	19.4	7
273	Mitigating self-discharge and improving the performance of MgS battery in Mg[B(hfip)4]2 electrolyte with a protective interlayer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 25150-25159	13	3
272	The metamorphosis of rechargeable magnesium batteries. <i>Joule</i> , 2021 , 5, 581-617	27.8	32
271	A Self-Conditioned Metalloporphyrin as a Highly Stable Cathode for Fast Rechargeable Magnesium Batteries. <i>ChemSusChem</i> , 2021 , 14, 1840-1846	8.3	8
270	Polyoxometalate Modified Separator for Performance Enhancement of MagnesiumSulfur Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100868	15.6	10
269	Degradation Effects in MetalSulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2365-2376	6.1	7
268	Magnesium-Sulfur Batteries: Polyoxometalate Modified Separator for Performance Enhancement of MagnesiumSulfur Batteries (Adv. Funct. Mater. 26/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170189	15.6	1
267	Establishing a Stable Anode-Electrolyte Interface in Mg Batteries by Electrolyte Additive. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33123-33132	9.5	13
266	Recent developments and future perspectives of anionic batteries. <i>Journal of Power Sources</i> , 2021 , 481, 228877	8.9	30
265	Perspective on ultramicroporous carbon as sulphur host for LiS batteries. <i>Journal of Energy Chemistry</i> , 2021 , 59, 242-256	12	19
264	Biowaste eggshells as efficient electrodes for energy storage 2021 , 475-495		
263	Performance Study of MXene/Carbon Nanotube Composites for Current Collector- and Binder-Free Mg-S Batteries. <i>ChemSusChem</i> , 2021 , 14, 1864-1873	8.3	10
262	Surface Engineering of a Mg Electrode via a New Additive to Reduce Overpotential. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37044-37051	9.5	5

261	Modeling of Electron-Transfer Kinetics in Magnesium Electrolytes: Influence of the Solvent on the Battery Performance. <i>ChemSusChem</i> , 2021 , 14, 4820-4835	8.3	3
260	A review on current anode materials for rechargeable Mg batteries. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 963-979	8.8	20
259	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5937-5948	6.1	10
258	Pseudo-ternary LiBH ₄ /LiCl/PS system as structurally disordered bulk electrolyte for all-solid-state lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13872-13879	3.6	12
257	Influence of Electrolyte Additives on the Degradation of Li ₂ VO ₂ F Li-Rich Cathodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12956-12967	3.8	3
256	Insights into Structural Transformations in the Local Structure of LiVOF Using X-ray Diffraction and Total Scattering: Amorphization and Recrystallization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27010-27016	9.5	8
255	Modeling of Ion Agglomeration in Magnesium Electrolytes and its Impacts on Battery Performance. <i>ChemSusChem</i> , 2020 , 13, 3599-3604	8.3	9
254	Copper Porphyrin as a Stable Cathode for High-Performance Rechargeable Potassium Organic Batteries. <i>ChemSusChem</i> , 2020 , 13, 2286-2294	8.3	31
253	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11483-11490	16.4	47
252	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 11580-11587	3.6	5
251	Understanding the Origin of Higher Capacity for Ni-Based Disordered Rock-Salt Cathodes. <i>Chemistry of Materials</i> , 2020 , 32, 3447-3461	9.6	8
250	Alkali metal insertion into hard carbon [the full picture]. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14205-14213	14.213	11
249	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. <i>Small</i> , 2020 , 16, e2000279	11	41
248	First results from in situ transmission electron microscopy studies of all-solid-state fluoride ion batteries. <i>Journal of Power Sources</i> , 2020 , 466, 228283	8.9	9
247	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153261	5.7	79
246	Effects of Ball Milling and TiF ₃ Addition on the Dehydrogenation Temperature of Ca(BH ₄) ₂ Polymorphs. <i>Energies</i> , 2020 , 13, 4828	3.1	1
245	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33687-33730	6.7	28
244	Calcium/Sulfur Batteries: Rechargeable Calcium/Sulfur Batteries Enabled by an Efficient Borate-Based Electrolyte (Small 39/2020). <i>Small</i> , 2020 , 16, 2070216	11	2

243	Electrochemical and compositional characterization of solid interphase layers in an interface-modified solid-state LiSulfur battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16451-16462	13	17
242	Superoxide formation in Li ₂ VO ₂ F cathode material – a combined computational and experimental investigation of anionic redox activity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16551-16559	13	9
241	Short-range ordering in the Li-rich disordered rock salt cathode material Li ₂ VO ₂ F revealed by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 2095-2101	2.3	6
240	Electrochemical synthesis of carbon-metal fluoride nanocomposites as cathode materials for lithium batteries. <i>Electrochemistry Communications</i> , 2020 , 120, 106846	5.1	8
239	Investigation on the formation of Mg metal anode/electrolyte interfaces in Mg/S batteries with electrolyte additives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22998-23010	13	21
238	Insights into Self-Discharge of Lithium– and Magnesium–Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8457-8474	6.1	14
237	Rechargeable Calcium-Sulfur Batteries Enabled by an Efficient Borate-Based Electrolyte. <i>Small</i> , 2020 , 16, e2001806	11	12
236	Halogenid-basierte Materialien und Chemie für wiederaufladbare Batterien. <i>Angewandte Chemie</i> , 2020 , 132, 5954-6004	3.6	4
235	Halide-Based Materials and Chemistry for Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5902-5949	16.4	63
234	Improved cycling stability in high-capacity Li-rich vanadium containing disordered rock salt oxyfluoride cathodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21244-21253	13	23
233	Suppressing Dissolution of Vanadium from Cation-Disordered Li ₂ VVO ₂ F via a Concentrated Electrolyte Approach. <i>Chemistry of Materials</i> , 2019 , 31, 7941-7950	9.6	17
232	Calcined chicken eggshell electrode for battery and supercapacitor applications.. <i>RSC Advances</i> , 2019 , 9, 26981-26995	3.7	33
231	Unlocking the Potential of Fluoride-Based Solid Electrolytes for Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7196-7203	6.1	21
230	Design and Tuning of the Electrochemical Properties of Vanadium-Based Cation-Disordered Rock-Salt Oxide Positive Electrode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39848-39858	9.5	15
229	Introducing Interlayer Electrolytes: Toward Room-Temperature High-Potential Solid-State Rechargeable Fluoride Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1553-1562	6.1	22
228	A quasielastic and inelastic neutron scattering study of the alkaline and alkaline-earth borohydrides LiBH and Mg(BH) and the mixture LiBH + Mg(BH). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 718-728	3.6	12
227	Oxygen Activity in Li-Rich Disordered Rock-Salt Oxide and the Influence of LiNbO ₃ Surface Modification on the Electrochemical Performance. <i>Chemistry of Materials</i> , 2019 , 31, 4330-4340	9.6	23
226	Interface in Solid-State Lithium Battery: Challenges, Progress, and Outlook. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22029-22050	9.5	127

225	Degradation Mechanisms in Li ₂ VO ₂ F Li-Rich Disordered Rock-Salt Cathodes. <i>Chemistry of Materials</i> , 2019 , 31, 6084-6096	9.6	19
224	Toward Improving the Areal Energy Density of Lithium-Sulfur Batteries with Ultramicroporous Carbon-Sulfur Composite Electrodes. <i>Energy Technology</i> , 2019 , 7, 1900183	3.5	3
223	Monitoring the Electrochemical Energy Storage Processes of an Organic Full Rechargeable Battery via Operando Raman Spectroscopy: A Mechanistic Study. <i>Chemistry of Materials</i> , 2019 , 31, 3239-3247	9.6	24
222	Understanding Structure Changes during Cycling of MoS ₂ -based Mg Batteries. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2042-2043	0.5	
221	Towards stable and efficient electrolytes for room-temperature rechargeable calcium batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 3496-3501	35.4	115
220	A Lithium-Free Energy-Storage Device Based on an Alkyne-Substituted-Porphyrin Complex. <i>ChemSusChem</i> , 2019 , 12, 3737-3741	8.3	15
219	New Organic Electrode Materials for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1806599	24	44
218	Insights into the electrochemical processes of rechargeable magnesium-sulfur batteries with a new cathode design. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25490-25502	13	33
217	Differentiating Molecular and Solid-State Vanadium Oxides as Active Materials in Battery Electrodes. <i>ChemElectroChem</i> , 2019 , 6, 398-403	4.3	15
216	Role of hydrogen tanks in the life cycle assessment of fuel cell-based auxiliary power units. <i>Applied Energy</i> , 2018 , 215, 1-12	10.7	19
215	Reversible Delithiation of Disordered Rock Salt LiVO ₂ . <i>ChemElectroChem</i> , 2018 , 5, 1484-1490	4.3	21
214	Polysulfides Formation in Different Electrolytes from the Perspective of X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A5014-A5019	3.9	31
213	Performance Improvement of V-Fe-Cr-Ti Solid State Hydrogen Storage Materials in Impure Hydrogen Gas. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1662-1671	9.5	8
212	Toward Highly Reversible Magnesium-Sulfur Batteries with Efficient and Practical Mg[B(hfip) ₄] ₂ Electrolyte. <i>ACS Energy Letters</i> , 2018 , 3, 2005-2013	20.1	149
211	Synthesis of Fast Fluoride-Ion-Conductive Fluorite-Type BaSb F (0.1 to 0.4): A Potential Solid Electrolyte for Fluoride-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17249-17256	9.5	25
210	Room-Temperature, Rechargeable Solid-State Fluoride-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4766-4775	6.1	48
209	Design of Nickel-Based Cation-Disordered Rock-Salt Oxides: The Effect of Transition Metal (M = V, Ti, Zr) Substitution in LiNiMO Binary Systems. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21957-21964	9.5	25
208	Beyond Intercalation Chemistry for Rechargeable Mg Batteries: A Short Review and Perspective. <i>Frontiers in Chemistry</i> , 2018 , 6, 656	5	55

207	Electrochemical performance of all solid-state fluoride-ion batteries based on thin-film electrolyte using alternative conductive additives and anodes. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 997-1006	2.6	24
206	Bio-waste chicken eggshells to store energy. <i>Dalton Transactions</i> , 2018 , 47, 16828-16834	4.3	27
205	Facile synthesis of C-FeF nanocomposites from CFx: influence of carbon precursor on reversible lithium storage.. <i>RSC Advances</i> , 2018 , 8, 36802-36811	3.7	10
204	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. <i>Nature Communications</i> , 2018 , 9, 5115	17.4	73
203	Insight into Sodium Insertion and the Storage Mechanism in Hard Carbon. <i>ACS Energy Letters</i> , 2018 , 3, 2851-2857	20.1	89
202	Insight into Sulfur Confined in Ultramicroporous Carbon. <i>ACS Omega</i> , 2018 , 3, 11290-11299	3.9	27
201	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives. <i>Scientific Reports</i> , 2018 , 8, 7578	4.9	28
200	SSH2S: Hydrogen storage in complex hydrides for an auxiliary power unit based on high temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2017 , 342, 853-860	8.9	37
199	Interlayer-Expanded Vanadium Oxychloride as an Electrode Material for Magnesium-Based Batteries. <i>ChemElectroChem</i> , 2017 , 4, 738-745	4.3	20
198	CuF ₂ as Reversible Cathode for Fluoride Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1701051	15.6	81
197	Study of all solid-state rechargeable fluoride ion batteries based on thin-film electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1243-1251	2.6	23
196	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. <i>Angewandte Chemie</i> , 2017 , 129, 10477-10482	3.6	21
195	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10341-10346	16.4	57
194	Preparation of Li-Mg-N-H hydrogen storage materials for an auxiliary power unit. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17144-17148	6.7	9
193	Conductivity Optimization of Tysonite-type LaBaF Solid Electrolytes for Advanced Fluoride Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23707-23715	9.5	36
192	A new class of non-corrosive, highly efficient electrolytes for rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10815-10820	13	219
191	Lithium-Magnesium Hybrid Battery with Vanadium Oxychloride as Electrode Material. <i>ChemistrySelect</i> , 2017 , 2, 7558-7564	1.8	6
190	A novel conversion anode composite for lithium ion batteries based on MnF ₂ /carbon nanotubes with hierarchical structure. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 1101-1108	5.7	11

189	Study of the structural, thermodynamic and cyclic effects of vanadium and titanium substitution in laves-phase AB ₂ hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20103-20110	6.7	31
188	Konzept zur chemischen Wärmespeicherung mit flüssigen organischen Hydriden. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 341-345	0.8	2
187	In situ TEM studies of micron-sized all-solid-state fluoride ion batteries: Preparation, prospects, and challenges. <i>Microscopy Research and Technique</i> , 2016 , 79, 615-24	2.8	23
186	Phase-structural transformations in a metal hydride battery anode La _{1.5} Nd _{0.5} MgNi ₉ alloy and its electrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9954-9967	6.7	28
185	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4285-90	16.4	52
184	Development of a water based process for stable conversion cathodes on the basis of FeF ₃ . <i>Journal of Power Sources</i> , 2016 , 313, 213-222	8.9	34
183	Mechanical Milling Assisted Synthesis and Electrochemical Performance of High Capacity LiFeBO ₃ for Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2166-72	9.5	14
182	Fluoride ion batteries: Theoretical performance, safety, toxicity, and a combinatorial screening of new electrodes. <i>Journal of Fluorine Chemistry</i> , 2016 , 182, 76-90	2.1	136
181	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. <i>Nanoscale</i> , 2016 , 8, 3296-306	7.7	190
180	Ionic Conductivity of Nanocrystalline Metal Fluorides 2016 , 449-463		5
179	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 4357-4362	3.6	14
178	Facile Synthesis of Carbon/Metal Fluoride Nanocomposites for Lithium-Ion Batteries. <i>Energy Technology</i> , 2016 , 4, 201-211	3.5	11
177	Vanadium Oxyfluoride/Few-Layer Graphene Composite as a High-Performance Cathode Material for Lithium Batteries. <i>Inorganic Chemistry</i> , 2016 , 55, 3789-96	5.1	15
176	Thermochemical Energy Storage through De/Hydrogenation of Organic Liquids: Reactions of Organic Liquids on Metal Hydrides. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13993-4003	9.5	10
175	Development of dense solid state thin-film electrolyte for fluoride ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 733-738	5.7	15
174	Selenium and selenium-sulfur cathode materials for high-energy rechargeable magnesium batteries. <i>Journal of Power Sources</i> , 2016 , 323, 213-219	8.9	57
173	Hydrogen dynamics in β -Mg(BH ₄) ₂ on the picosecond timescale. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14323-32	3.6	12
172	Electrochemical Behavior of Layered Vanadium Oxychloride in Rechargeable Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2326-A2332	3.9	6

171	Nitrogen Rich Hierarchically Organized Porous Carbon/Sulfur Composite Cathode Electrode for High Performance Li/S Battery: A Mechanistic Investigation by Operando Spectroscopic Studies. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600372	4.6	27
170	Fluoride Cathodes for Secondary Batteries 2015 , 51-76		7
169	Cost reduction possibilities of vanadium-based solid solutions [Microstructural, thermodynamic, cyclic and environmental effects of ferrovanadium substitution. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 1024-1030	5.7	18
168	On the rehydrogenation of decomposed Ca(BH ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2015 , 632, 800-804	5.7	10
167	Fluorescence X-ray Absorption Study of ScCl ₃ -Doped Sodium Alanate. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15810-15815	3.8	2
166	Single step transformation of sulphur to Li ₂ S ₂ /Li ₂ S in Li-S batteries. <i>Scientific Reports</i> , 2015 , 5, 12146	4.9	125
165	Synthesis of a nitrogen rich (2D/1D) hybrid carbon nanomaterial using a MnO ₂ nanorod template for high performance Li-ion battery applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6810-6818	13	26
164	Vanadium oxychloride as electrode material for sodium ion batteries. <i>Electrochemistry Communications</i> , 2015 , 60, 180-184	5.1	20
163	Performance Improvement of Magnesium Sulfur Batteries with Modified Non-Nucleophilic Electrolytes. <i>Advanced Energy Materials</i> , 2015 , 5, 1401155	21.8	241
162	Li(+) intercalation in isostructural Li ₂ VO ₃ and Li ₂ VO ₂ F with O(2-) and mixed O(2-)/F(-) anions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17288-95	3.6	50
161	Batteries: Performance Improvement of Magnesium Sulfur Batteries with Modified Non-Nucleophilic Electrolytes (Adv. Energy Mater. 3/2015). <i>Advanced Energy Materials</i> , 2015 , 5,	21.8	1
160	Improved Voltage and Cycling for Li Intercalation in High-Capacity Disordered Oxyfluoride Cathodes. <i>Advanced Science</i> , 2015 , 2, 1500128	13.6	48
159	Hydrogen diffusion in La _{1.5} Nd _{0.5} MgNi ₉ alloy electrodes of the Ni/MH battery. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S288-S291	5.7	25
158	Development of tysonite-type fluoride conducting thin film electrolytes for fluoride ion batteries. <i>Solid State Ionics</i> , 2015 , 272, 39-44	3.3	52
157	Disordered Lithium-Rich Oxyfluoride as a Stable Host for Enhanced Li ⁺ Intercalation Storage. <i>Advanced Energy Materials</i> , 2015 , 5, 1401814	21.8	119
156	A fluoride-doped PEG matrix as an electrolyte for anion transportation in a room-temperature fluoride ion battery. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1214-1218	13	51
155	Oxidation state and local structure of a high-capacity LiF/Fe(V ₂ O ₅) conversion cathode for Li-ion batteries. <i>Acta Materialia</i> , 2014 , 68, 179-188	8.4	9
154	Effect of oxygen on the microstructure and hydrogen storage properties of V _{0.5} Cr _{0.5} Be quaternary solid solutions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20000-20008	6.7	18

153	Electrochemical fluorination of perovskite type BaFeO _{2.5} . <i>Dalton Transactions</i> , 2014 , 43, 15771-8	4.3	29
152	Beneficial effects of stoichiometry and nanostructure for a LiBH ₄ /MgH ₂ hydrogen storage system. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 66-72	13	15
151	Novel transmetalation reaction for electrolyte synthesis for rechargeable magnesium batteries. <i>RSC Advances</i> , 2014 , 4, 26924-26927	3.7	46
150	Development of new anode composite materials for fluoride ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20861-20872	13	77
149	Magnesium anode for chloride ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10997-10000	9.5	57
148	A facile synthesis of encapsulated CoFe ₂ O ₄ into carbon nanofibres and its application as conversion anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 260, 205-210	8.9	51
147	Material properties and empirical rate equations for hydrogen sorption reactions in 2 LiNH ₂ /1.1 MgH ₂ /0.1 LiBH ₄ wt.% ZrCoH ₃ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8283-8292	6.7	19
146	Chloride ion battery: A new member in the rechargeable battery family. <i>Journal of Power Sources</i> , 2014 , 245, 706-711	8.9	108
145	Solid electrolytes for fluoride ion batteries: ionic conductivity in polycrystalline tysonite-type fluorides. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2103-10	9.5	102
144	Production of nanocrystalline lithium fluoride by planetary ball-milling. <i>Powder Technology</i> , 2014 , 264, 409-417	5.2	11
143	LiF/Fe/V ₂ O ₅ nanocomposite as high capacity cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 267, 203-211	8.9	9
142	A simple synthesis of Mn ₂ O ₃ @C nanocomposite: characterization and application as battery material. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	10
141	Corrosion Resistance of Current Collector Materials in Bisamide Based Electrolyte for Magnesium Batteries. <i>ECS Electrochemistry Letters</i> , 2014 , 4, C8-C10		51
140	Vanadium oxychloride/magnesium electrode systems for chloride ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22430-5	9.5	48
139	Reversible In-Situ TEM Electrochemical studies of Fluoride Ion Battery. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1620-1621	0.5	3
138	Effect of NaH/MgB ₂ ratio on the hydrogen absorption kinetics of the system NaH + MgB ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 5030-5036	6.7	12
137	Konversionsmaterialien für die Energiespeicherung. <i>Chemie in Unserer Zeit</i> , 2013 , 47, 230-238	0.2	4
136	Bisamide based non-nucleophilic electrolytes for rechargeable magnesium batteries. <i>RSC Advances</i> , 2013 , 3, 16330	3.7	139

135	Ge ₂ Ti nanoparticles produced by inert gas condensation and their application as anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , 2013 , 35, 116-119	5.1	20
134	Improving the energy density and power density of CF _x by mechanical milling: a primary lithium battery electrode. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11207-11	9.5	36
133	Altered reaction pathways of eutectic LiBH ₄ /Mg(BH ₄) ₂ by nanoconfinement. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3379	13	46
132	Preparation, scale-up and testing of nanoscale, doped amide systems for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1439-1449	6.7	11
131	Nanostructured Fluorite-Type Fluorides As Electrolytes for Fluoride Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4943-4950	3.8	122
130	CF _x Derived Carbon/FeF ₂ Nanocomposites for Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013 , 3, 308-313	21.8	63
129	Metal oxychlorides as cathode materials for chloride ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13621-4	16.4	116
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