

# Esther S Takeuchi

## 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.

234  
papers

5,323  
citations

41  
h-index

60  
g-index

252  
ext. papers

6,692  
ext. citations

8.7  
avg, IF

5.95  
L-index

#	Paper	IF	Citations
234	The challenges and opportunities of battery-powered flight.. <i>Nature</i> , <b>2022</b> , 601, 519-525	50.4	22
233	Dimensionality effect of conductive carbon fillers in LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> cathode. <i>Carbon</i> , <b>2022</b> , 188, 114-125	10.4	0
232	Gradient Architecture Design in Scalable Porous Battery Electrodes.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	5
231	Low-Tortuosity Thick Electrodes with Active Materials Gradient Design for Enhanced Energy Storage.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	7
230	Heterostructured Lepidocrocite Titanate-Carbon Nanosheets for Electrochemical Applications. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 678-690	5.6	1
229	The Dopamine Assisted Synthesis of MoO/Carbon Electrodes With Enhanced Capacitance in Aqueous Electrolyte.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 873462	5	0
228	Parameter Estimation for Electrode Degradation: Learning in the Face of Model-Experiment Discrepancies. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 050517	3.9	0
227	Building Efficient Ion Pathway in Highly Densified Thick Electrodes with High Gravimetric and Volumetric Energy Densities. <i>Nano Letters</i> , <b>2021</b> , 21, 9339-9346	11.5	7
226	Thermodynamic Analysis of LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> (NMC622) Voltage Hysteresis Induced through High Voltage Charge. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 12067-12073	6.1	2
225	Impact of Charge Voltage on Factors Influencing Capacity Fade in Layered NMC622: Multimodal X-ray and Electrochemical Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50920-50935	9.5	3
224	Transport In and Optimization of Aligned-Channel Li-Ion Electrode Architectures. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 100536	3.9	2
223	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal-substrate bonding. <i>Nature Energy</i> , <b>2021</b> , 6, 398-406	62.3	51
222	From Fundamental Understanding to Engineering Design of High-Performance Thick Electrodes for Scalable Energy-Storage Systems. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101275	24	34
221	Stable Molybdenum Oxide Cathodes: Achieving Stable Molybdenum Oxide Cathodes for Aqueous Zinc-Ion Batteries in Water-in-Salt Electrolyte (Adv. Mater. Interfaces 9/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170052	4.6	0
220	Structural and electrochemical investigation of crystallite size controlled zinc ferrite (ZnFeO). <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
219	Structural Investigation of Silver Vanadium Phosphorus Oxide (Ag <sub>2</sub> VO <sub>2</sub> PO <sub>4</sub> ) and Its Reduction Products. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4425-4434	9.6	
218	Quantifying Uncertainty in Tortuosity Estimates for Porous Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 070537	3.9	2

217	Tunable Porous Electrode Architectures for Enhanced Li-Ion Storage Kinetics in Thick Electrodes. <i>Nano Letters</i> , <b>2021</b> , 21, 5896-5904	11.5	19
216	Multiscale Understanding and Architecture Design of High Energy/Power Lithium-Ion Battery Electrodes. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2000808	21.8	65
215	Lithium vanadium oxide (LiVO) thick porous electrodes with high rate capacity: utilization and evolution upon extended cycling elucidated energy dispersive X-ray diffraction and continuum simulation. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 139-150	3.6	6
214	Peering into Batteries: Electrochemical Insight Through In Situ and Operando Methods over Multiple Length Scales. <i>Joule</i> , <b>2021</b> , 5, 77-88	27.8	34
213	Nickel-rich Nickel Manganese Cobalt (NMC622) Cathode Lithiation Mechanism and Extended Cycling Effects Using Operando X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 58-73	3.8	5
212	Impact of sodium vanadium oxide (NaVO, NVO) material synthesis conditions on charge storage mechanism in Zn-ion aqueous batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 8607-8617	3.6	3
211	Self-Healing, Improved Efficiency Solid State Rechargeable Li/I <sub>2</sub> Based Battery. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 010519	3.9	2
210	Achieving Stable Molybdenum Oxide Cathodes for Aqueous Zinc-Ion Batteries in Water-in-Salt Electrolyte. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2002080	4.6	14
209	Local and Bulk Probe of Vanadium-Substituted $\delta$ -Manganese Oxide ( $\delta$ KVMnO) Lithium Electrochemistry. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 10398-10414	5.1	0
208	Optimal electrode-scale design of Li-ion electrodes: A general correlation. <i>Energy Storage Materials</i> , <b>2021</b> , 39, 176-185	19.4	8
207	Ultrahigh-Capacity and Scalable Architected Battery Electrodes Tortuosity Modulation. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
206	Probing Kinetics of Water-in-Salt Aqueous Batteries with Thick Porous Electrodes. <i>ACS Central Science</i> , <b>2021</b> , 7, 1676-1687	16.8	3
205	Active Material Interfacial Chemistry and Its Impact on Composite Magnetite Electrodes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 9836-9847	6.1	1
204	Toward the Understanding of the Reaction Mechanism of Zn/MnO <sub>2</sub> Batteries Using Non-alkaline Aqueous Electrolytes. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7283-7289	9.6	4
203	Characterization of Materials Used as Face Coverings for Respiratory Protection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47996-48008	9.5	1
202	Potassium-Containing $\delta$ MnO <sub>2</sub> Nanotubes: The Impact of Hollow Regions on Electrochemistry. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090559	3.9	0
201	Discharging Behavior of Hollandite $\delta$ MnO in a Hydrated Zinc-Ion Battery.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 59937-59949	9.5	2
200	Unraveling the Dissolution-Mediated Reaction Mechanism of $\delta$ MnO Cathodes for Aqueous Zn-Ion Batteries. <i>Small</i> , <b>2020</b> , 16, e2005406	11	22

199	Electrodeposition of MoS <sub>x</sub> : Tunable Fabrication of Sulfur Equivalent Electrodes for High Capacity or High Power. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 050513	3.9	3
198	Essential Role of Spinel MgFe <sub>2</sub> O <sub>4</sub> Surfaces during Discharge. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 090506	3.9	5
197	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. <i>Science Advances</i> , <b>2020</b> , 6, eabb1122	14.3	64
196	Systems-level investigation of aqueous batteries for understanding the benefit of water-in-salt electrolyte by synchrotron nanoimaging. <i>Science Advances</i> , <b>2020</b> , 6, eaay7129	14.3	20
195	Probing Sources of Capacity Fade in LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> (NMC622): An Operando XRD Study of Li/NMC622 Batteries during Extended Cycling. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8119-8128	3.8	18
194	Vanadium-Substituted Tunnel Structured Silver Hollandite (AgVMnO): Impact on Morphology and Electrochemistry. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 3783-3793	5.1	2
193	Design Principles to Govern Electrode Fabrication for the Lithium Trivanadate Cathode. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100503	3.9	9
192	Solution-Based, Anion-Doping of Li Ti O Nanoflowers for Lithium-Ion Battery Applications. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 9389-9402	4.8	7
191	The effects of vanadium substitution on one-dimensional tunnel structures of cryptomelane: Combined TEM and DFT study. <i>Nano Energy</i> , <b>2020</b> , 71, 104571	17.1	5
190	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2053-2060	9.6	21
189	Evaporation-Induced Vertical Alignment Enabling Directional Ion Transport in a 2D-Nanosheet-Based Battery Electrode. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907941	24	43
188	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1684-1692	9.6	40
187	Water-induced formation of an alkali-ion dimer in cryptomelane nanorods. <i>Chemical Science</i> , <b>2020</b> , 11, 4991-4998	9.4	2
186	Improved Capacity Retention of Lithium Ion Batteries under Fast Charge via Metal-Coated Graphite Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 160503	3.9	5
185	Defect Control in the Synthesis of 2 D MoS Nanosheets: Polysulfide Trapping in Composite Sulfur Cathodes for Li-S Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 1517-1528	8.3	15
184	The Systematic Refinement for the Phase Change and Conversion Reactions Arising from the Lithiation of Magnetite Nanocrystals. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907337	15.6	4
183	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/βMnO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4322-4333	35.4	28
182	Magnesium Todorokite: Influence of Morphology on Electrochemistry in Lithium, Sodium and Magnesium Based Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110528	3.9	2

181	Elucidating the evolution of silicon anodes in lithium based batteries. <i>MRS Advances</i> , <b>2020</b> , 5, 2525-2534	0.7	2
180	(De)lithiation of spinel ferrites FeO, MgFeO, and ZnFeO: a combined spectroscopic, diffraction and theory study. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 26200-26215	3.6	7
179	Unveiling the dimensionality effect of conductive fillers in thick battery electrodes for high-energy storage systems. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041405	17.3	23
178	The effect of chemically preintercalated alkali ion on structure of layered titanates and their electrochemistry in aqueous energy storage systems. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18220-18231	13.1	6
177	Microwave-Based Synthesis of Functional Morphological Variants and Carbon Nanotube-Based Composites of VS <sub>4</sub> for Electrochemical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16397-16412	8.3	
176	Optimization of nonatitanate electrodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19917-19926	13	4
175	The Effects of Vanadium Substitution on One-dimensional Tunnel Structures of Cryptomelane: Combined TEM and DFT Study. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 3162-3164	0.5	
174	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 20972-20989	3.6	15
173	Transition Metal Substitution of Hollandite $\text{EMnO}_2$ : Enhanced Potential and Structural Stability on Lithiation from First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25042-25051	3.8	7
172	Insights into Reactivity of Silicon Negative Electrodes: Analysis Using Isothermal Microcalorimetry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37567-37577	9.5	17
171	Tomographic 3D Analysis of Reduction Displacement Reaction with Associated Formation of a Conductive Network in High Energy Primary Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3210-A3216	3.9	1
170	Ex Situ and Operando XRD and XAS Analysis of MoS <sub>2</sub> : A Lithiation Study of Bulk and Nanosheet Materials. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7635-7646	6.1	20
169	Tuning Conjugated Polymers for Binder Applications in High-Capacity Magnetite Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7584-7593	6.1	7
168	Isothermal Microcalorimetry: Insight into the Impact of Crystallite Size and Agglomeration on the Lithiation of Magnetite, FeO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7074-7086	9.5	14
167	High capacity vanadium oxide electrodes: effective recycling through thermal treatment. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2615-2626	5.8	3
166	Examining the Role of Anisotropic Morphology: Comparison of Free-Standing Magnetite Nanorods versus Spherical Magnetite Nanoparticles for Electrochemical Lithium-Ion Storage. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4801-4812	6.1	6
165	Multi-electron transfer enabled by topotactic reaction in magnetite. <i>Nature Communications</i> , <b>2019</b> , 10, 1972	17.4	18
164	Interface effects on self-forming rechargeable Li/I <sub>2</sub> -based solid state batteries. <i>MRS Communications</i> , <b>2019</b> , 9, 657-662	2.7	2

163	Deliberate Modification of FeO Anode Surface Chemistry: Impact on Electrochemistry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19920-19932	9.5	8
162	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 439-445	19.4	19
161	Synthesis and Characterization of 2D Tunnel Structured Manganese Dioxides as Cathodes in Rechargeable Li, Na, and Mg Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A670-A678	3.9	4
160	Impact of Synthesis Method on Phase Transformations of Layered Lithium Vanadium Oxide upon Electrochemical (De)lithiation. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A771-A778	3.9	8
159	Temporally and Spatially Resolved Visualization of Electrochemical Conversion: Monitoring Phase Distribution During Lithiation of Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) Electrodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2561-2569	6.1	8
158	Toward Environmentally Friendly Lithium Sulfur Batteries: Probing the Role of Electrode Design in MoS <sub>2</sub> -Containing LiS Batteries with a Green Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5209-5222	8.3	11
157	Inhomogeneous structural evolution of silver-containing Alpha-MnO <sub>2</sub> nanorods in sodium-ion batteries investigated by comparative transmission electron microscopy approach. <i>Journal of Power Sources</i> , <b>2019</b> , 435, 226779	8.9	5
156	Energy-Dispersive X-ray Diffraction: Operando Visualization of Electrochemical Activity of Thick Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 18834-18843	3.8	10
155	Understanding How Structure and Crystallinity Affect Performance in Solid-State Batteries Using a Glass Ceramic LiV <sub>3</sub> O <sub>8</sub> Cathode. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6135-6144	9.6	9
154	Reversible epitaxial electrodeposition of metals in battery anodes. <i>Science</i> , <b>2019</b> , 366, 645-648	33.3	512
153	Silver-Containing MnO <sub>2</sub> Nanorods: Electrochemistry in Rechargeable Aqueous Zn-MnO <sub>2</sub> Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3575-A3584	3.9	14
152	Carboxylated Poly(thiophene) Binders for High-Performance Magnetite Anodes: Impact of Cation Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44046-44057	9.5	7
151	Rationalization of Diversity in Spinel MgFe <sub>2</sub> O <sub>4</sub> Surfaces. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901218	4.6	9
150	Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. <i>Nano Letters</i> , <b>2019</b> , 19, 8255-8261	11.5	62
149	Progress and Outlook on Few Component Composite Solid State Electrolytes. <i>MRS Advances</i> , <b>2019</b> , 4, 2635-2540	0.7	2
148	Spinel Magnesium Ferrite: Rationalization of Diversity in Spinel MgFe <sub>2</sub> O <sub>4</sub> Surfaces (Adv. Mater. Interfaces 22/2019). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1970141	4.6	
147	Anode Overpotential Control via Interfacial Modification: Inhibition of Lithium Plating on Graphite Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46864-46874	9.5	22
146	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , <b>2019</b> , 10, 93	17.4	26

145	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 271-275	20.1	22
144	Synthesis and Characterization of CuFeO Nano/Submicron Wire-Carbon Nanotube Composites as Binder-free Anodes for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8770-8785	9.5	24
143	SWNT Anchored with Carboxylated Polythiophene "Links" on High-Capacity Li-Ion Battery Anode Materials. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5666-5669	16.4	57
142	The Effect of Silver Ion Occupancy on Hollandite Lattice Structure. <i>MRS Advances</i> , <b>2018</b> , 3, 547-552	0.7	6
141	Material Design Strategies to Achieve Simultaneous High Power and High Energy Density. <i>MRS Advances</i> , <b>2018</b> , 3, 1269-1275	0.7	2
140	Investigation of MnO Tunneled Structures as Model Cation Hosts for Energy Storage. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 575-582	24.3	46
139	Carbon Nanotube Web with Carboxylated Polythiophene "Assist" for High-Performance Battery Electrodes. <i>ACS Nano</i> , <b>2018</b> , 12, 3126-3139	16.7	35
138	Operando Study of LiV <sub>3</sub> O <sub>8</sub> Cathode: Coupling EDXRD Measurements to Simulations. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A371-A379	3.9	15
137	Structural and Electrochemical Characteristics of Ca-Doped Flower-like Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Motifs as High-Rate Anode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 671-684	9.6	51
136	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , <b>2018</b> , 12, 820-828	16.7	51
135	Reversible Electrochemical Lithium-Ion Insertion into the Rhenium Cluster Chalcogenide-Halide ReSeCl. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4812-4815	5.1	5
134	Lithiation of Magnetite (Fe <sub>3</sub> O <sub>4</sub> ): Analysis Using Isothermal Microcalorimetry and Operando X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10316-10326	3.8	21
133	Electrochemically Induced Phase Evolution of Lithium Vanadium Oxide: Complementary Insights Gained via Ex-Situ, In-Situ, and Operando Experiments and Density Functional Theory. <i>MRS Advances</i> , <b>2018</b> , 3, 1255-1260	0.7	3
132	Synthesis and Characterization of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Anode Materials with Enhanced High-Rate Performance in Lithium-Ion Batteries. <i>MRS Advances</i> , <b>2018</b> , 3, 575-580	0.7	4
131	Surface Electrolyte Interphase Control on Magnetite, Fe <sub>3</sub> O <sub>4</sub> , Electrodes: Impact on Electrochemistry. <i>MRS Advances</i> , <b>2018</b> , 3, 581-586	0.7	2
130	A Combined Experimental and Theoretical Study of Lithiation Mechanism in ZnFe <sub>2</sub> O <sub>4</sub> Anode Materials. <i>MRS Advances</i> , <b>2018</b> , 3, 773-778	0.7	4
129	Communication Demonstration and Electrochemistry of a Self-Forming Solid State Rechargeable LiI(HPN) <sub>2</sub> Based Li/I <sub>2</sub> Battery. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2115-A2118	3.9	6
128	Revealing and Rationalizing the Rich Polytypism of Todorokite MnO. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6961-6968	16.4	24

127	SWNT Networks with Polythiophene Carboxylate Links for High-Performance Silicon Monoxide Electrodes. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2417-2423	6.1	9
126	Investigation of Solid Electrolyte Interphase Layer Formation and Electrochemical Reversibility of Magnetite, Fe <sub>3</sub> O <sub>4</sub> , Electrodes: A Combined X-ray Absorption Spectroscopy and X-ray Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14257-14271	3.8	28
125	Silver ferrite/maghemite composites and mixtures: Impact of one-pot composite preparation on battery-relevant electrochemistry. <i>Applied Materials Today</i> , <b>2018</b> , 10, 142-152	6.6	7
124	Deliberately Designed Atomic-Level Silver-Containing Interface Results in Improved Rate Capability and Utilization of Silver Hollandite for Lithium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 400-407	9.5	5
123	High capacity Li-ion battery anodes: Impact of crystallite size, surface chemistry and PEG-coating. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 235-245	6.7	12
122	Unveiling the Structural Evolution of Ag <sub>1.2</sub> Mn <sub>8</sub> O <sub>16</sub> under Coulombically Controlled (De)Lithiation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 366-375	9.6	10
121	The Importance of Combined Spatio-Temporal Characterization: From in situ to operando Diffraction Measurements of Li/Li <sub>1.1</sub> V <sub>3</sub> O <sub>8</sub> Batteries. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1478-1479	0.5	
120	Revealing the Surface Effect at Atomic Scale in Silver Hollandite. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 56-57	0.5	
119	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <i>Nano Futures</i> , <b>2018</b> , 2, 035008	3.6	12
118	In-situ Probe of Lithium-ion Transport and Phase Evolution Within and Between Silver Hollandite Nanorods. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1516-1517	0.5	
117	Atomic Scale Analyses of Planar Defects in Cross-section Nanorods of K <sup>+</sup> Stabilized $\alpha$ -MnO <sub>2</sub> . <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 130-131	0.5	
116	Investigation of Conductivity and Ionic Transport of VO <sub>2</sub> (M) and VO <sub>2</sub> (R) via Electrochemical Study. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7535-7544	9.6	3
115	Energetics of Lithium Insertion into Magnetite, Defective Magnetite, and Maghemite. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7922-7937	9.6	16
114	Essential Role of Spinel ZnFeO Surfaces during Lithiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35623-35630	9.5	19
113	Capacity Retention for (De)lithiation of Silver Containing $\beta$ -MnO <sub>2</sub> : Impact of Structural Distortion and Transition Metal Dissolution. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2849-A2858	3.9	7
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