

Esther S Takeuchi

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234
papers

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h-index

60
g-index

252
ext. papers

6,692
ext. citations

8.7
avg, IF

5.95
L-index

#	Paper	IF	Citations
234	Reversible epitaxial electrodeposition of metals in battery anodes. <i>Science</i> , 2019 , 366, 645-648	33.3	512
233	Batteries used to Power Implantable Biomedical Devices. <i>Electrochimica Acta</i> , 2012 , 84, 155-155	6.7	198
232	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for High-Performance Lithium Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603922	24	124
231	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 1906-1914	11.5	107
230	Batteries. In situ visualization of Li/AgVPO ₄ batteries revealing rate-dependent discharge mechanism. <i>Science</i> , 2015 , 347, 149-54	33.3	98
229	Synthesis of cryptomelane type KMnO_2 ($\text{K}_x\text{Mn}_8\text{O}_{16}$) cathode materials with tunable K^+ content: the role of tunnel cation concentration on electrochemistry. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16914-16928	13	73
228	Electrochemical reduction of silver vanadium phosphorous oxide, $\text{Ag}_2\text{VO}_2\text{PO}_4$: the formation of electrically conductive metallic silver nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 4934-4939	9.6	73
227	Nanocrystalline iron oxide based electroactive materials in lithium ion batteries: the critical role of crystallite size, morphology, and electrode heterostructure on battery relevant electrochemistry. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 26-40	6.8	70
226	Structural Defects of Silver Hollandite, $\text{Ag}_x\text{Mn}_8\text{O}_y$, Nanorods: Dramatic Impact on Electrochemistry. <i>ACS Nano</i> , 2015 , 9, 8430-9	16.7	68
225	Multiscale Understanding and Architecture Design of High Energy/Power Lithium-Ion Battery Electrodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2000808	21.8	65
224	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. <i>Science Advances</i> , 2020 , 6, eabb1122	14.3	64
223	Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. <i>Nano Letters</i> , 2019 , 19, 8255-8261	11.5	62
222	Magnesium-ion battery-relevant electrochemistry of MgMnO : crystallite size effects and the notable role of electrolyte water content. <i>Chemical Communications</i> , 2017 , 53, 3665-3668	5.8	58
221	SWNT Anchored with Carboxylated Polythiophene "Links" on High-Capacity Li-Ion Battery Anode Materials. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5666-5669	16.4	57
220	Insights into Ionic Transport and Structural Changes in Magnetite during Multiple-Electron Transfer Reactions. <i>Advanced Energy Materials</i> , 2016 , 6, 1502471	21.8	57
219	Interaction of TiS_2 and Sulfur in Li-S Battery System. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1291-A1297	3.9	55
218	Interaction of CuS and Sulfur in Li-S Battery System. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2834-A2839	3.9	55

217	Structural and Electrochemical Characteristics of Ca-Doped Flower-like $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Motifs as High-Rate Anode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 671-684	9.6	51
216	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , 2018 , 12, 820-828	16.7	51
215	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal-substrate bonding. <i>Nature Energy</i> , 2021 , 6, 398-406	62.3	51
214	Battery Electrolytes Based on Unsaturated Ring Ionic Liquids: Conductivity and Electrochemical Stability. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1399-A1405	3.9	50
213	Probing the Li Insertion Mechanism of ZnFe_2O_4 in Li-Ion Batteries: A Combined X-Ray Diffraction, Extended X-Ray Absorption Fine Structure, and Density Functional Theory Study. <i>Chemistry of Materials</i> , 2017 , 29, 4282-4292	9.6	48
212	Synthesis and characterization of sodium vanadium oxide gels: the effects of water (n) and sodium (x) content on the electrochemistry of $\text{Na}_x\text{V}_2\text{O}_5 \cdot n\text{H}_2\text{O}$. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18047-54	3.6	48
211	Carbon nanotube substrate electrodes for lightweight, long-life rechargeable batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 2943	35.4	48
210	Electrochemical Reduction of Silver Vanadium Phosphorous Oxide, $\text{Ag}_2\text{VO}_2\text{PO}_4$: Silver Metal Deposition and Associated Increase in Electrical Conductivity. <i>Journal of Power Sources</i> , 2010 , 195, 6839-6846	8.9	48
209	Morphological and Chemical Tuning of High-Energy-Density Metal Oxides for Lithium Ion Battery Electrode Applications. <i>ACS Energy Letters</i> , 2017 , 2, 1465-1478	20.1	47
208	Electron/Ion Transport Enhancer in High Capacity Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2016 , 28, 6689-6697	9.6	47
207	Crystallite Size Control and Resulting Electrochemistry of Magnetite, Fe_3O_4 . <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A91		47
206	Investigation of MnO Tunneled Structures as Model Cation Hosts for Energy Storage. <i>Accounts of Chemical Research</i> , 2018 , 51, 575-582	24.3	46
205	Ionic Liquid Hybrid Electrolytes for Lithium-Ion Batteries: A Key Role of the Separator-Electrolyte Interface in Battery Electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11724-31	9.5	45
204	Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. <i>Nature Communications</i> , 2017 , 8, 15400	17.4	44
203	Effective recycling of manganese oxide cathodes for lithium based batteries. <i>Green Chemistry</i> , 2016 , 18, 3414-3421	10	44
202	Nanocrystalline Magnetite: Synthetic Crystallite Size Control and Resulting Magnetic and Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1158	3.9	44
201	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by in Situ X-ray Absorption Fingerprints. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16591-16603	16.4	43
200	Evaporation-Induced Vertical Alignment Enabling Directional Ion Transport in a 2D-Nanosheet-Based Battery Electrode. <i>Advanced Materials</i> , 2020 , 32, e1907941	24	43

199	Enhanced Performance of "Flower-like" Li ₄ Ti ₅ O ₁₂ Motifs as Anode Materials for High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2015 , 8, 3304-13	8.3	42
198	Lithiation Mechanism of Tunnel-Structured MnO Electrode Investigated by In Situ Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017 , 29, 1703186	24	41
197	Synthetic control of composition and crystallite size of silver hollandite, Ag(x)Mn ₈ O ₁₆ : impact on electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5547-54	9.5	41
196	Energy dispersive X-ray diffraction of lithium-silver vanadium phosphorous oxide cells: in situ cathode depth profiling of an electrochemical reduction-displacement reaction. <i>Energy and Environmental Science</i> , 2013 , 6, 1465	35.4	41
195	Preparation and Electrochemistry of Silver Vanadium Phosphorous Oxide, Ag ₂ VO ₂ PO ₄ . <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A5		41
194	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. <i>Chemistry of Materials</i> , 2020 , 32, 1684-1692	9.6	40
193	Size dependent behavior of FeO crystals during electrochemical (de)lithiation: an in situ X-ray diffraction, ex situ X-ray absorption spectroscopy, transmission electron microscopy and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20867-20880	3.6	40
192	A Kinetics and Equilibrium Study of Vanadium Dissolution from Vanadium Oxides and Phosphates in Battery Electrolytes: Possible Impacts on ICD Battery Performance. <i>Journal of Power Sources</i> , 2013 , 231, 219-225	8.9	39
191	Dispersion of Nanocrystalline Fe ₃ O ₄ within Composite Electrodes: Insights on Battery-Related Electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11418-30	9.5	39
190	A first principles study of spinel ZnFeO for electrode materials in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26322-26329	3.6	38
189	Modeling the Mesoscale Transport of Lithium-Magnetite Electrodes Using Insight from Discharge and Voltage Recovery Experiments. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2817-A2826	3.9	38
188	2D Cross Sectional Analysis and Associated Electrochemistry of Composite Electrodes Containing Dispersed Agglomerates of Nanocrystalline Magnetite, Fe ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13457-66	9.5	38
187	Synthesis, spectroscopic characterization, and observation of massive metal-insulator transitions in nanowires of a nonstoichiometric vanadium oxide bronze. <i>Nano Letters</i> , 2010 , 10, 2448-53	11.5	38
186	Toward Uniformly Dispersed Battery Electrode Composite Materials: Characteristics and Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3452-63	9.5	37
185	An X-ray Absorption Spectroscopy Study of the Cathodic Discharge of Ag ₂ VO ₂ PO ₄ : Geometric and Electronic Structure Characterization of Intermediate phases and Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14437-14447	3.8	37
184	Investigation of Structural Evolution of Li _{1.1} V ₃ O ₈ by In Situ X-ray Diffraction and Density Functional Theory Calculations. <i>Chemistry of Materials</i> , 2017 , 29, 2364-2373	9.6	36
183	Interaction of FeS ₂ and Sulfur in Li-S Battery System. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6039-A6046	3.9	36
182	Carbon Nanotube Web with Carboxylated Polythiophene "Assist" for High-Performance Battery Electrodes. <i>ACS Nano</i> , 2018 , 12, 3126-3139	16.7	35

181	Investigating the Complex Chemistry of Functional Energy Storage Systems: The Need for an Integrative, Multiscale (Molecular to Mesoscale) Perspective. <i>ACS Central Science</i> , 2016 , 2, 380-7	16.8	35
180	MxMnO ₂ (M = Ag or K) as promising cathode materials for secondary Mg based batteries: the role of the cation M. <i>Chemical Communications</i> , 2016 , 52, 4088-91	5.8	34
179	From Fundamental Understanding to Engineering Design of High-Performance Thick Electrodes for Scalable Energy-Storage Systems. <i>Advanced Materials</i> , 2021 , 33, e2101275	24	34
178	Peering into Batteries: Electrochemical Insight Through In Situ and Operando Methods over Multiple Length Scales. <i>Joule</i> , 2021 , 5, 77-88	27.8	34
177	Holy Grails in Chemistry: Investigating and Understanding Fast Electron/Cation Coupled Transport within Inorganic Ionic Matrices. <i>Accounts of Chemical Research</i> , 2017 , 50, 544-548	24.3	33
176	Lithium Batteries for Biomedical Applications. <i>MRS Bulletin</i> , 2002 , 27, 624-627	3.2	33
175	Silver-Containing β MnO Nanorods: Electrochemistry in Na-Based Battery Systems. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4333-4342	9.5	32
174	Synthesis and Electrochemistry of Silver Hollandite. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, A98		32
173	Variation in the iron oxidation states of magnetite nanocrystals as a function of crystallite size: The impact on electrochemical capacity. <i>Electrochimica Acta</i> , 2013 , 94, 320-326	6.7	31
172	Electrochemical discharge of nanocrystalline magnetite: structure analysis using X-ray diffraction and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18539-48	3.6	30
171	Investigation of Solid Electrolyte Interphase Layer Formation and Electrochemical Reversibility of Magnetite, Fe ₃ O ₄ , Electrodes: A Combined X-ray Absorption Spectroscopy and X-ray Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14257-14271	3.8	28
170	Silver Vanadium Phosphorous Oxide, Ag ₂ VO ₂ (PO ₄): Chimie Douce Preparation and Resulting Lithium Cell Electrochemistry. <i>Journal of Power Sources</i> , 2011 , 196, 6781-6787	8.9	28
169	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/ β MnO ₂ batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 4322-4333	35.4	28
168	Tunnel Structured β MnO ₂ with Different Tunnel Cations (H ⁺ , K ⁺ , Ag ⁺) as Cathode Materials in Rechargeable Lithium Batteries: The Role of Tunnel Cation on Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1983-A1990	3.9	26
167	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , 2019 , 10, 93	17.4	26
166	Correlating Titania Nanostructured Morphologies with Performance as Anode Materials for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6299-6312	8.3	25
165	The Electrochemistry of Silver Hollandite Nanorods, Ag _x Mn ₈ O ₁₆ : Enhancement of Electrochemical Battery Performance via Dimensional and Compositional Control. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A3090-A3094	3.9	25
164	Synthesis and Characterization of CuFeO Nano/Submicron Wire-Carbon Nanotube Composites as Binder-free Anodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8770-8785	9.5	24

163	Revealing and Rationalizing the Rich Polytypism of Todorokite MnO. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6961-6968	16.4	24
162	Synthetic control of composition and crystallite size of silver ferrite composites: profound electrochemistry impacts. <i>Chemical Communications</i> , 2015 , 51, 5120-3	5.8	24
161	Ag(x)VOPO(4): A Demonstration of the Dependence of Battery-Related Electrochemical Properties of Silver Vanadium Phosphorous Oxides on Ag / V Ratios. <i>Journal of Power Sources</i> , 2011 , 196, 3325-3330	8.9	24
160	In situ profiling of lithium/AgVPO primary batteries using energy dispersive X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9138-47	3.6	23
159	Battery electrolytes based on saturated ring ionic liquids: Physical and electrochemical properties. <i>Electrochimica Acta</i> , 2013 , 109, 27-32	6.7	23
158	Unveiling the dimensionality effect of conductive fillers in thick battery electrodes for high-energy storage systems. <i>Applied Physics Reviews</i> , 2020 , 7, 041405	17.3	23
157	Unraveling the Dissolution-Mediated Reaction Mechanism of MnO Cathodes for Aqueous Zn-Ion Batteries. <i>Small</i> , 2020 , 16, e2005406	11	22
156	The challenges and opportunities of battery-powered flight.. <i>Nature</i> , 2022 , 601, 519-525	50.4	22
155	Anode Overpotential Control via Interfacial Modification: Inhibition of Lithium Plating on Graphite Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46864-46874	9.5	22
154	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 271-275	20.1	22
153	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. <i>Chemistry of Materials</i> , 2020 , 32, 2053-2060	9.6	21
152	Lithiation of Magnetite (Fe ₃ O ₄): Analysis Using Isothermal Microcalorimetry and Operando X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10316-10326	3.8	21
151	Ex Situ and Operando XRD and XAS Analysis of MoS ₂ : A Lithiation Study of Bulk and Nanosheet Materials. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7635-7646	6.1	20
150	Systems-level investigation of aqueous batteries for understanding the benefit of water-in-salt electrolyte by synchrotron nanoimaging. <i>Science Advances</i> , 2020 , 6, eaay7129	14.3	20
149	Impact of Multifunctional Bimetallic Materials on Lithium Battery Electrochemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 1864-72	24.3	20
148	Redox chemistry of a binary transition metal oxide (AB ₂ O ₄): a study of the Cu(2+)/Cu(0) and Fe(3+)/Fe(0) interconversions observed upon lithiation in a CuFe ₂ O ₄ battery using X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16930-40	3.6	20
147	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (LiVO) electrode via an operando and in situ energy dispersive X-ray diffraction technique. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14160-14169	3.6	19
146	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. <i>Energy Storage Materials</i> , 2019 , 19, 439-445	19.4	19

145	Silver vanadium oxide and silver vanadium phosphorous oxide dissolution kinetics: a mechanistic study with possible impact on future ICD battery lifetimes. <i>Dalton Transactions</i> , 2013 , 42, 13981-9	4.3	19
144	Tunable Porous Electrode Architectures for Enhanced Li-Ion Storage Kinetics in Thick Electrodes. <i>Nano Letters</i> , 2021 , 21, 5896-5904	11.5	19
143	Essential Role of Spinel ZnFeO Surfaces during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35623-35630	9.5	19
142	Multi-electron transfer enabled by topotactic reaction in magnetite. <i>Nature Communications</i> , 2019 , 10, 1972	17.4	18
141	Probing Sources of Capacity Fade in LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ (NMC622): An Operando XRD Study of Li/NMC622 Batteries during Extended Cycling. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8119-8128	3.8	18
140	Deliberate modification of the solid electrolyte interphase (SEI) during lithiation of magnetite, FeO: impact on electrochemistry. <i>Chemical Communications</i> , 2017 , 53, 13145-13148	5.8	18
139	Insights into Reactivity of Silicon Negative Electrodes: Analysis Using Isothermal Microcalorimetry. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37567-37577	9.5	17
138	Electrochemical reduction of an Ag ₂ VO ₂ PO ₄ particle: dramatic increase of local electronic conductivity. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11204-10	3.6	17
137	Potassium-Based Manganese Dioxide Nanofiber Binder-Free Self-Supporting Electrodes: A Design Strategy for High Energy Density Batteries. <i>Energy Technology</i> , 2016 , 4, 1358-1368	3.5	17
136	Probing Titanium Disulfide-Sulfur Composite Materials for Li-S Batteries via In Situ X-ray Diffraction (XRD). <i>Journal of the Electrochemical Society</i> , 2017 , 164, A897-A901	3.9	16
135	Carbon nanotube/metal oxide composite electrodes for secondary lithium-based batteries. <i>Journal of Composite Materials</i> , 2013 , 47, 41-49	2.7	16
134	Discharge, Relaxation, and Charge Model for the Lithium Trivanadate Electrode: Reactions, Phase Change, and Transport. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2890-A2898	3.9	16
133	Energetics of Lithium Insertion into Magnetite, Defective Magnetite, and Maghemite. <i>Chemistry of Materials</i> , 2018 , 30, 7922-7937	9.6	16
132	The Electrochemistry of Fe ₃ O ₄ /Polypyrrole Composite Electrodes in Lithium-Ion Cells: The Role of Polypyrrole in Capacity Retention. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6260-A6267	3.9	15
131	Operando Study of LiV ₃ O ₈ Cathode: Coupling EDXRD Measurements to Simulations. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A371-A379	3.9	15
130	Mapping the anode surface-electrolyte interphase: investigating a life limiting process of lithium primary batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5429-37	9.5	15
129	Silver Vanadium Phosphorous Oxide, Ag _{0.48} VOPO ₄ : Exploration as a Cathode Material in Primary and Secondary Battery Applications. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1690-A1695	3.9	15
128	Defect Control in the Synthesis of 2 D MoS Nanosheets: Polysulfide Trapping in Composite Sulfur Cathodes for Li-S Batteries. <i>ChemSusChem</i> , 2020 , 13, 1517-1528	8.3	15

127	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20972-20989	3.6	15
126	Ultrahigh-Capacity and Scalable Architected Battery Electrodes Tortuosity Modulation. <i>ACS Nano</i> , 2021 ,	16.7	15
125	Isothermal Microcalorimetry: Insight into the Impact of Crystallite Size and Agglomeration on the Lithiation of Magnetite, FeO. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7074-7086	9.5	14
124	Silver-Containing MnO ₂ Nanorods: Electrochemistry in Rechargeable Aqueous Zn-MnO ₂ Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3575-A3584	3.9	14
123	Silver Vanadium Diphosphate AgVPO: Electrochemistry and Characterization of Reduced Material providing Mechanistic Insights. <i>Journal of Solid State Chemistry</i> , 2013 , 200, 232-240	3.3	14
122	Achieving Stable Molybdenum Oxide Cathodes for Aqueous Zinc-Ion Batteries in Water-in-Salt Electrolyte. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002080	4.6	14
121	Electrochemical reduction of Ag ₂ V ₂ P ₂ O ₈ composite electrodes visualized via in situ energy dispersive X-ray diffraction (EDXRD): unexpected conductive additive effects. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18027-18035	13	13
120	Reliability systems for implantable cardiac defibrillator batteries. <i>Journal of Power Sources</i> , 1995 , 54, 115-119	8.9	13
119	Correlating Preparative Approaches with Electrochemical Performance of Fe ₃ O ₄ -MWNT Composites Used as Anodes in Li-Ion Batteries. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3122-M3131	2	12
118	Structural and silver/vanadium ratio effects on silver vanadium phosphorous oxide solution formation kinetics: impact on battery electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2034-42	3.6	12
117	Ionic liquid hybrids: Progress toward non-corrosive electrolytes with high-voltage oxidation stability for magnesium-ion based batteries. <i>Electrochimica Acta</i> , 2016 , 219, 267-276	6.7	12
116	High capacity Li-ion battery anodes: Impact of crystallite size, surface chemistry and PEG-coating. <i>Electrochimica Acta</i> , 2018 , 260, 235-245	6.7	12
115	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <i>Nano Futures</i> , 2018 , 2, 035008	3.6	12
114	Toward Environmentally Friendly Lithium Sulfur Batteries: Probing the Role of Electrode Design in MoS ₂ -Containing LiS Batteries with a Green Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5209-5222	8.3	11
113	Understanding the Effect of Preparative Approaches in the Formation of Flower-like Li ₄ Ti ₅ O ₁₂ /Multiwalled Carbon Nanotube Composite Motifs with Performance as High-Rate Anode Materials for Li-Ion Battery Applications. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A524-A534	3.9	10
112	Microwave-Assisted Synthesis of Silver Vanadium Phosphorus Oxide, Ag ₂ VO ₂ PO ₄ : Crystallite Size Control and Impact on Electrochemistry. <i>Chemistry of Materials</i> , 2016 , 28, 2191-2199	9.6	10
111	X-ray absorption spectroscopy of lithium insertion and de-insertion in copper birnessite nanoparticle electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2959-67	3.6	10
110	Energy-Dispersive X-ray Diffraction: Operando Visualization of Electrochemical Activity of Thick Electrodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18834-18843	3.8	10

109	Ag ₃ .2VP1.5O7.8: A High Voltage Silver Vanadium Phosphate Cathode Material. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A2207-A2211	3.9	10
108	Galvanostatic interruption of lithium insertion into magnetite: Evidence of surface layer formation. <i>Journal of Power Sources</i> , 2016 , 321, 106-111	8.9	10
107	Unveiling the Structural Evolution of Ag _{1.2} Mn ₈ O ₁₆ under Coulombically Controlled (De)Lithiation. <i>Chemistry of Materials</i> , 2018 , 30, 366-375	9.6	10
106	Atomic Scale Account of the Surface Effect on Ionic Transport in Silver Hollandite. <i>Chemistry of Materials</i> , 2018 , 30, 6124-6133	9.6	10
105	Simulations of Lithium-Magnetite Electrodes Incorporating Phase Change. <i>Electrochimica Acta</i> , 2017 , 238, 384-396	6.7	9
104	Design Principles to Govern Electrode Fabrication for the Lithium Trivanadate Cathode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 100503	3.9	9
103	SWNT Networks with Polythiophene Carboxylate Links for High-Performance Silicon Monoxide Electrodes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2417-2423	6.1	9
102	Understanding How Structure and Crystallinity Affect Performance in Solid-State Batteries Using a Glass Ceramic LiV ₃ O ₈ Cathode. <i>Chemistry of Materials</i> , 2019 , 31, 6135-6144	9.6	9
101	Rationalization of Diversity in Spinel MgFe ₂ O ₄ Surfaces. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901218	4.6	9
100	Tailoring the Ag+Content within the Tunnels and on the Exposed Surfaces of δ -MnO ₂ Nanowires: Impact on Impedance and Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6163-A6170	3.9	8
99	Deliberate Modification of FeO Anode Surface Chemistry: Impact on Electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19920-19932	9.5	8
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- 1 Atomic Scale Analyses of Planar Defects in Cross-section Nanorods of K+ Stabilized α -MnO₂.
Microscopy and Microanalysis, **2018**, 24, 130-131 0.5