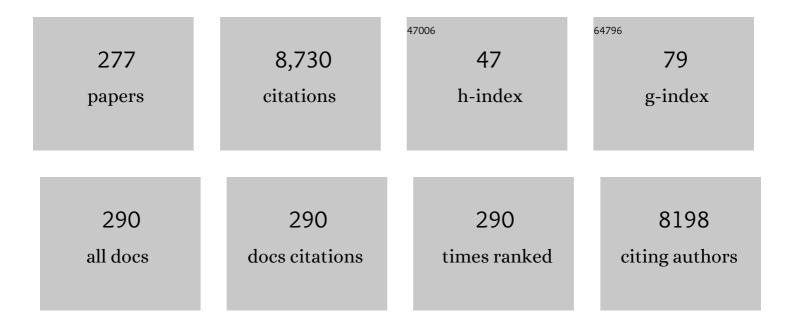
Amy C Marschilok

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reversible epitaxial electrodeposition of metals in battery anodes. Science, 2019, 366, 645-648.	12.6	1,097
2	Cathode materials for magnesium and magnesium-ion based batteries. Coordination Chemistry Reviews, 2015, 287, 15-27.	18.8	341
3	Batteries used to power implantable biomedical devices. Electrochimica Acta, 2012, 84, 155-164.	5.2	293
4	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2017, 29, 1603922.	21.0	175
5	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal–substrate bonding. Nature Energy, 2021, 6, 398-406.	39.5	169
6	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. Science Advances, 2020, 6, eabb1122.	10.3	143
7	Multiscale Understanding and Architecture Design of High Energy/Power Lithiumâ€lon Battery Electrodes. Advanced Energy Materials, 2021, 11, 2000808.	19.5	143
8	Transition-Metal Complexes Containing trans-Spanning Diphosphine Ligands. Chemical Reviews, 2001, 101, 1031-1066.	47.7	138
9	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. Nano Letters, 2017, 17, 1906-1914.	9.1	131
10	In situ visualization of Li/Ag ₂ VP ₂ O ₈ batteries revealing rate-dependent discharge mechanism. Science, 2015, 347, 149-154.	12.6	106
11	Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. Nano Letters, 2019, 19, 8255-8261.	9.1	104
12	Synthesis of cryptomelane type α-MnO ₂ (K _x Mn ₈ O ₁₆) cathode materials with tunable K ⁺ content: the role of tunnel cation concentration on electrochemistry. Journal of Materials Chemistry A, 2017, 5, 16914-16928.	10.3	91
13	From Fundamental Understanding to Engineering Design of Highâ€Performance Thick Electrodes for Scalable Energyâ€Storage Systems. Advanced Materials, 2021, 33, e2101275.	21.0	89
14	Nanocrystalline iron oxide based electroactive materials in lithium ion batteries: the critical role of crystallite size, morphology, and electrode heterostructure on battery relevant electrochemistry. Inorganic Chemistry Frontiers, 2016, 3, 26-40.	6.0	83
15	Structural Defects of Silver Hollandite, Ag _{<i>x</i>} Mn ₈ O _{<i>y</i>,} Nanorods: Dramatic Impact on Electrochemistry. ACS Nano, 2015, 9, 8430-8439.	14.6	81
16	SWNT Anchored with Carboxylated Polythiophene "Links―on High-Capacity Li-Ion Battery Anode Materials. Journal of the American Chemical Society, 2018, 140, 5666-5669.	13.7	80
17	Magnesium-ion battery-relevant electrochemistry of MgMn ₂ O ₄ : crystallite size effects and the notable role of electrolyte water content. Chemical Communications, 2017, 53, 3665-3668.	4.1	79
18	Electrochemical Reduction of Silver Vanadium Phosphorus Oxide, Ag ₂ VO ₂ PO ₄ : The Formation of Electrically Conductive Metallic Silver Nanoparticles. Chemistry of Materials, 2009, 21, 4934-4939.	6.7	78

#	Article	IF	CITATIONS
19	Progress towards high-power Li/CF _x batteries: electrode architectures using carbon nanotubes with CF _x . Physical Chemistry Chemical Physics, 2015, 17, 22504-22518.	2.8	76
20	Structural and Electrochemical Characteristics of Ca-Doped "Flower-like― Li ₄ Ti ₅ O ₁₂ Motifs as High-Rate Anode Materials for Lithium-Ion Batteries. Chemistry of Materials, 2018, 30, 671-684.	6.7	76
21	Insights into Ionic Transport and Structural Changes in Magnetite during Multipleâ€Electron Transfer Reactions. Advanced Energy Materials, 2016, 6, 1502471.	19.5	72
22	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/α-MnO ₂ batteries. Energy and Environmental Science, 2020, 13, 4322-4333.	30.8	72
23	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. Chemistry of Materials, 2020, 32, 1684-1692.	6.7	68
24	Evaporationâ€Induced Vertical Alignment Enabling Directional Ion Transport in a 2Dâ€Nanosheetâ€Based Battery Electrode. Advanced Materials, 2020, 32, e1907941.	21.0	66
25	Tunable Porous Electrode Architectures for Enhanced Li-Ion Storage Kinetics in Thick Electrodes. Nano Letters, 2021, 21, 5896-5904.	9.1	66
26	Investigation of α-MnO ₂ Tunneled Structures as Model Cation Hosts for Energy Storage. Accounts of Chemical Research, 2018, 51, 575-582.	15.6	64
27	Interaction of CuS and Sulfur in Li-S Battery System. Journal of the Electrochemical Society, 2015, 162, A2834-A2839.	2.9	62
28	Probing the Li Insertion Mechanism of ZnFe ₂ O ₄ in Li-Ion Batteries: A Combined X-Ray Diffraction, Extended X-Ray Absorption Fine Structure, and Density Functional Theory Study. Chemistry of Materials, 2017, 29, 4282-4292.	6.7	62
29	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles <i>via</i> Block Copolymers: From Synthesis to Energy Storage Property. ACS Nano, 2018, 12, 820-828.	14.6	62
30	Electron/Ion Transport Enhancer in High Capacity Li-Ion Battery Anodes. Chemistry of Materials, 2016, 28, 6689-6697.	6.7	60
31	Interaction of TiS ₂ and Sulfur in Li-S Battery System. Journal of the Electrochemical Society, 2017, 164, A1291-A1297.	2.9	60
32	Ionic Liquid Hybrid Electrolytes for Lithium-Ion Batteries: A Key Role of the Separator–Electrolyte Interface in Battery Electrochemistry. ACS Applied Materials & Interfaces, 2015, 7, 11724-11731.	8.0	59
33	Synthesis and characterization of sodium vanadium oxide gels: the effects of water (n) and sodium (x) content on the electrochemistry of NaxV2O5·nH2O. Physical Chemistry Chemical Physics, 2011, 13, 18047.	2.8	58
34	Unraveling the Dissolutionâ€Mediated Reaction Mechanism of αâ€MnO ₂ Cathodes for Aqueous Znâ€ion Batteries. Small, 2020, 16, e2005406.	10.0	58
35	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by <i>in Situ</i> X-ray Absorption Fingerprints. Journal of the American Chemical Society, 2017, 139, 16591-16603.	13.7	57
36	Peering into Batteries: Electrochemical Insight Through In Situ and Operando Methods over Multiple Length Scales. Joule, 2021, 5, 77-88.	24.0	57

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37	Morphological and Chemical Tuning of High-Energy-Density Metal Oxides for Lithium Ion Battery Electrode Applications. ACS Energy Letters, 2017, 2, 1465-1478.	17.4	56
38	Effective recycling of manganese oxide cathodes for lithium based batteries. Green Chemistry, 2016, 18, 3414-3421.	9.0	55
39	Size dependent behavior of Fe ₃ O ₄ crystals during electrochemical (de)lithiation: an in situ X-ray diffraction, ex situ X-ray absorption spectroscopy, transmission electron microscopy and theoretical investigation. Physical Chemistry Chemical Physics, 2017, 19, 20867-20880.	2.8	54
40	Gradient Design for Highâ€Energy and Highâ€Power Batteries. Advanced Materials, 2022, 34, .	21.0	53
41	Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. Nature Communications, 2017, 8, 15400.	12.8	52
42	Lithiation Mechanism of Tunnel tructured MnO ₂ Electrode Investigated by In Situ Transmission Electron Microscopy. Advanced Materials, 2017, 29, 1703186.	21.0	52
43	Low-Tortuosity Thick Electrodes with Active Materials Gradient Design for Enhanced Energy Storage. ACS Nano, 2022, 16, 4805-4812.	14.6	52
44	Electrochemical reduction of silver vanadium phosphorous oxide, Ag2VO2PO4: Silver metal deposition and associated increase in electrical conductivity. Journal of Power Sources, 2010, 195, 6839-6846.	7.8	51
45	Carbon nanotube substrate electrodes for lightweight, long-life rechargeable batteries. Energy and Environmental Science, 2011, 4, 2943.	30.8	51
46	Battery Electrolytes Based on Unsaturated Ring Ionic Liquids: Conductivity and Electrochemical Stability. Journal of the Electrochemical Society, 2013, 160, A1399-A1405.	2.9	51
47	Carbon Nanotube Web with Carboxylated Polythiophene "Assist―for High-Performance Battery Electrodes. ACS Nano, 2018, 12, 3126-3139.	14.6	51
48	Crystallite Size Control and Resulting Electrochemistry of Magnetite, Fe[sub 3]O[sub 4]. Electrochemical and Solid-State Letters, 2009, 12, A91.	2.2	49
49	Enhanced Performance of "Flowerâ€like―Li ₄ Ti ₅ O ₁₂ Motifs as Anode Materials for Highâ€Rate Lithiumâ€lon Batteries. ChemSusChem, 2015, 8, 3304-3313.	6.8	49
50	Ultrahigh-Capacity and Scalable Architected Battery Electrodes <i>via</i> Tortuosity Modulation. ACS Nano, 2021, 15, 19109-19118.	14.6	48
51	A kinetics and equilibrium study of vanadium dissolution from vanadium oxides and phosphates in battery electrolytes: Possible impacts on ICD battery performance. Journal of Power Sources, 2013, 231, 219-225.	7.8	47
52	Toward Uniformly Dispersed Battery Electrode Composite Materials: Characteristics and Performance. ACS Applied Materials & amp; Interfaces, 2016, 8, 3452-3463.	8.0	47
53	Nanocrystalline Magnetite: Synthetic Crystallite Size Control and Resulting Magnetic and Electrochemical Properties. Journal of the Electrochemical Society, 2010, 157, A1158.	2.9	46
54	Interaction of FeS ₂ and Sulfur in Li-S Battery System. Journal of the Electrochemical Society, 2017, 164, A6039-A6046.	2.9	46

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55	Dispersion of Nanocrystalline Fe ₃ O ₄ within Composite Electrodes: Insights on Battery-Related Electrochemistry. ACS Applied Materials & Interfaces, 2016, 8, 11418-11430.	8.0	45
56	A first principles study of spinel ZnFe ₂ O ₄ for electrode materials in lithium-ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 26322-26329.	2.8	45
57	Synthesis, Structural Characterization, and Electronic Structure of Single-Crystalline CuxV2O5 Nanowires. Inorganic Chemistry, 2009, 48, 3145-3152.	4.0	44
58	Synthetic Control of Composition and Crystallite Size of Silver Hollandite, Ag _{<i>x</i>} Mn ₈ O ₁₆ : Impact on Electrochemistry. ACS Applied Materials & Interfaces, 2012, 4, 5547-5554.	8.0	44
59	Modeling the Mesoscale Transport of Lithium-Magnetite Electrodes Using Insight from Discharge and Voltage Recovery Experiments. Journal of the Electrochemical Society, 2015, 162, A2817-A2826.	2.9	44
60	Preparation and Electrochemistry of Silver Vanadium Phosphorous Oxide, Ag[sub 2]VO[sub 2]PO[sub 4]. Electrochemical and Solid-State Letters, 2009, 12, A5.	2.2	43
61	Energy dispersive X-ray diffraction of lithium–silver vanadium phosphorous oxide cells: in situ cathode depth profiling of an electrochemical reduction–displacement reaction. Energy and Environmental Science, 2013, 6, 1465.	30.8	43
62	2D Cross Sectional Analysis and Associated Electrochemistry of Composite Electrodes Containing Dispersed Agglomerates of Nanocrystalline Magnetite, Fe ₃ O ₄ . ACS Applied Materials & Interfaces, 2015, 7, 13457-13466.	8.0	43
63	Unveiling the dimensionality effect of conductive fillers in thick battery electrodes for high-energy storage systems. Applied Physics Reviews, 2020, 7, .	11.3	43
64	Holy Grails in Chemistry: Investigating and Understanding Fast Electron/Cation Coupled Transport within Inorganic Ionic Matrices. Accounts of Chemical Research, 2017, 50, 544-548.	15.6	42
65	Synthesis and Characterization of CuFe ₂ O ₄ Nano/Submicron Wire–Carbon Nanotube Composites as Binder-free Anodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 8770-8785.	8.0	42
66	Ex Situ and Operando XRD and XAS Analysis of MoS ₂ : A Lithiation Study of Bulk and Nanosheet Materials. ACS Applied Energy Materials, 2019, 2, 7635-7646.	5.1	42
67	Investigation of Structural Evolution of Li _{1.1} V ₃ O ₈ by <i>In Situ</i> X-ray Diffraction and Density Functional Theory Calculations. Chemistry of Materials, 2017, 29, 2364-2373.	6.7	40
68	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. Journal of Physical Chemistry C, 2011, 115, 14437-14447.	3.1	39
69	Investigating the Complex Chemistry of Functional Energy Storage Systems: The Need for an Integrative, Multiscale (Molecular to Mesoscale) Perspective. ACS Central Science, 2016, 2, 380-387.	11.3	39
70	M _x Mn ₈ O ₁₆ (M = Ag or K) as promising cathode materials for secondary Mg based batteries: the role of the cation M. Chemical Communications, 2016, 52, 4088-4091.	4.1	39
71	Silver-Containing α-MnO ₂ Nanorods: Electrochemistry in Na-Based Battery Systems. ACS Applied Materials & Interfaces, 2017, 9, 4333-4342.	8.0	39
72	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. Nature Communications, 2019, 10, 93.	12.8	39

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73	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. Journal of Physical Chemistry C, 2018, 122, 14257-14271.	3.1	37
74	Probing Sources of Capacity Fade in LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ (NMC622): An <i>Operando</i> XRD Study of Li/NMC622 Batteries during Extended Cycling. Journal of Physical Chemistry C, 2020, 124, 8119-8128.	3.1	37
75	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. Chemistry of Materials, 2020, 32, 2053-2060.	6.7	37
76	Gradient Architecture Design in Scalable Porous Battery Electrodes. Nano Letters, 2022, 22, 2521-2528.	9.1	37
77	Revealing and Rationalizing the Rich Polytypism of Todorokite MnO ₂ . Journal of the American Chemical Society, 2018, 140, 6961-6968.	13.7	36
78	Systems-level investigation of aqueous batteries for understanding the benefit of water-in-salt electrolyte by synchrotron nanoimaging. Science Advances, 2020, 6, eaay7129.	10.3	35
79	Electrochemical discharge of nanocrystalline magnetite: structure analysis using X-ray diffraction and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 18539.	2.8	33
80	Variation in the iron oxidation states of magnetite nanocrystals as a function of crystallite size: The impact on electrochemical capacity. Electrochimica Acta, 2013, 94, 320-326.	5.2	33
81	Tunnel Structured α-MnO ₂ with Different Tunnel Cations (H ⁺ , K ⁺ ,) Tj ET Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A1983-A1990.	Qq1 1 0.7 2.9	34314 rgBT 33
82	Achieving Stable Molybdenum Oxide Cathodes for Aqueous Zincâ€lon Batteries in Waterâ€lnâ€Salt Electrolyte. Advanced Materials Interfaces, 2021, 8, 2002080.	3.7	33
83	Synthesis and Electrochemistry of Silver Hollandite. Electrochemical and Solid-State Letters, 2010, 13, A98.	2.2	32
84	Effect of Carbon and Binder on High Sulfur Loading Electrode for Li-S Battery Technology. Electrochimica Acta, 2017, 235, 399-408.	5.2	32
85	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. Energy Storage Materials, 2019, 19, 439-445.	18.0	32
86	Anode Overpotential Control via Interfacial Modification: Inhibition of Lithium Plating on Graphite Anodes. ACS Applied Materials & Interfaces, 2019, 11, 46864-46874.	8.0	32
87	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. ACS Energy Letters, 2019, 4, 271-275.	17.4	32
88	Building Efficient Ion Pathway in Highly Densified Thick Electrodes with High Gravimetric and Volumetric Energy Densities. Nano Letters, 2021, 21, 9339-9346.	9.1	31
89	Silver vanadium phosphorous oxide, Ag2VO2PO4: Chimie douce preparation and resulting lithium cell electrochemistry. Journal of Power Sources, 2011, 196, 6781-6787.	7.8	30
90	Correlating Titania Nanostructured Morphologies with Performance as Anode Materials for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 6299-6312.	6.7	29

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91	Lithiation of Magnetite (Fe ₃ O ₄): Analysis Using Isothermal Microcalorimetry and Operando X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 10316-10326.	3.1	29
92	Battery electrolytes based on saturated ring ionic liquids: Physical and electrochemical properties. Electrochimica Acta, 2013, 109, 27-32.	5.2	28
93	Communication—Sol-Gel Synthesized Magnesium Vanadium Oxide, Mg _x V ₂ O ₅ · nH ₂ O: The Role of Structural Mg ²⁺ on Battery Performance. Journal of the Electrochemical Society, 2016, 163, A1941-A1943.	2.9	28
94	Effect of Electrolyte on High Sulfur Loading Li-S Batteries. Journal of the Electrochemical Society, 2018, 165, A416-A423.	2.9	28
95	Insights into Reactivity of Silicon Negative Electrodes: Analysis Using Isothermal Microcalorimetry. ACS Applied Materials & Interfaces, 2019, 11, 37567-37577.	8.0	28
96	Multi-electron transfer enabled by topotactic reaction in magnetite. Nature Communications, 2019, 10, 1972.	12.8	28
97	Discharging Behavior of Hollandite α-MnO ₂ in a Hydrated Zinc-Ion Battery. ACS Applied Materials & Interfaces, 2021, 13, 59937-59949.	8.0	28
98	Advanced lithium batteries for implantable medical devices: mechanistic study of SVO cathode synthesis. Journal of Power Sources, 2003, 119-121, 973-978.	7.8	27
99	Nickel-rich Nickel Manganese Cobalt (NMC622) Cathode Lithiation Mechanism and Extended Cycling Effects Using <i>Operando</i> X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 58-73.	3.1	27
100	Toward the Understanding of the Reaction Mechanism of Zn/MnO ₂ Batteries Using Non-alkaline Aqueous Electrolytes. Chemistry of Materials, 2021, 33, 7283-7289.	6.7	27
101	Synthetic control of composition and crystallite size of silver ferrite composites: profound electrochemistry impacts. Chemical Communications, 2015, 51, 5120-5123.	4.1	26
102	Deliberate modification of the solid electrolyte interphase (SEI) during lithiation of magnetite, Fe ₃ O ₄ : impact on electrochemistry. Chemical Communications, 2017, 53, 13145-13148.	4.1	26
103	Energetics of Lithium Insertion into Magnetite, Defective Magnetite, and Maghemite. Chemistry of Materials, 2018, 30, 7922-7937.	6.7	26
104	Defect Control in the Synthesis of 2 D MoS ₂ Nanosheets: Polysulfide Trapping in Composite Sulfur Cathodes for Li–S Batteries. ChemSusChem, 2020, 13, 1517-1528.	6.8	26
105	The Electrochemistry of Silver Hollandite Nanorods, Ag _x Mn ₈ O ₁₆ : Enhancement of Electrochemical Battery Performance via Dimensional and Compositional Control. Journal of the Electrochemical Society, 2013, 160, A3090-A3094.	2.9	25
106	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (Li _{1.1} V ₃ O ₈) electrode via an operando and in situ energy dispersive X-ray diffraction technique. Physical Chemistry Chemical Physics, 2017, 19, 14160-14169.	2.8	25
107	Supervised Learning of Synthetic Big Data for Liâ€lon Battery Degradation Diagnosis. Batteries and Supercaps, 2022, 5, .	4.7	25
108	AgxVOPO4: A demonstration of the dependence of battery-related electrochemical properties of silver vanadium phosphorous oxides on Ag/V ratios. Journal of Power Sources, 2011, 196, 3325-3330.	7.8	24

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109	Essential Role of Spinel ZnFe ₂ O ₄ Surfaces during Lithiation. ACS Applied Materials & Interfaces, 2018, 10, 35623-35630.	8.0	24
110	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. Physical Chemistry Chemical Physics, 2020, 22, 20972-20989.	2.8	24
111	In situ profiling of lithium/Ag ₂ VP ₂ O ₈ primary batteries using energy dispersive X-ray diffraction. Physical Chemistry Chemical Physics, 2014, 16, 9138-9147.	2.8	23
112	Thick Electrode Design for Facile Electron and Ion Transport: Architectures, Advanced Characterization, and Modeling. Accounts of Materials Research, 2022, 3, 472-483.	11.7	23
113	Impact of Multifunctional Bimetallic Materials on Lithium Battery Electrochemistry. Accounts of Chemical Research, 2016, 49, 1864-1872.	15.6	21
114	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. Physical Chemistry Chemical Physics, 2016, 18, 16930-16940.	2.8	21
115	The Electrochemistry of Fe ₃ O ₄ /Polypyrrole Composite Electrodes in Lithium-Ion Cells: The Role of Polypyrrole in Capacity Retention. Journal of the Electrochemical Society, 2017, 164, A6260-A6267.	2.9	21
116	Silver-Containing α-MnO ₂ ÂNanorods: Electrochemistry in Rechargeable Aqueous Zn-MnO ₂ Batteries. Journal of the Electrochemical Society, 2019, 166, A3575-A3584.	2.9	21
117	Silver vanadium oxide and silver vanadium phosphorous oxide dissolution kinetics: a mechanistic study with possible impact on future ICD battery lifetimes. Dalton Transactions, 2013, 42, 13981.	3.3	20
118	Toward Environmentally Friendly Lithium Sulfur Batteries: Probing the Role of Electrode Design in MoS2-Containing Li–S Batteries with a Green Electrolyte. ACS Sustainable Chemistry and Engineering, 2019, 7, 5209-5222.	6.7	20
119	Electrochemical reduction of an Ag ₂ VO ₂ PO ₄ particle: dramatic increase of local electronic conductivity. Physical Chemistry Chemical Physics, 2015, 17, 11204-11210.	2.8	19
120	Probing Titanium Disulfide-Sulfur Composite Materials for Li-S Batteries via In Situ X-ray Diffraction (XRD). Journal of the Electrochemical Society, 2017, 164, A897-A901.	2.9	19
121	Isothermal Microcalorimetry: Insight into the Impact of Crystallite Size and Agglomeration on the Lithiation of Magnetite, Fe ₃ O ₄ . ACS Applied Materials & Interfaces, 2019, 11, 7074-7086.	8.0	19
122	Solutionâ€Based, Anionâ€Doping of Li ₄ Ti ₅ O ₁₂ Nanoflowers for Lithiumâ€Ion Battery Applications. Chemistry - A European Journal, 2020, 26, 9389-9402.	3.3	19
123	Remarkable Spectator Ligand Effect on the Rate Constant of Ligand Substitution of (Aqua)ruthenium(II) Complexes. Journal of the American Chemical Society, 2001, 123, 8780-8784.	13.7	18
124	Metal–Air Electrochemical Cells: Silver–Polymer–Carbon Composite Air Electrodes. Electrochemical and Solid-State Letters, 2010, 13, A162.	2.2	18
125	Tuning Conjugated Polymers for Binder Applications in High-Capacity Magnetite Anodes. ACS Applied Energy Materials, 2019, 2, 7584-7593.	5.1	18
126	Potassiumâ€Based αâ€Manganese Dioxide Nanofiber Binderâ€Free Selfâ€Supporting Electrodes: A Design Strategy for High Energy Density Batteries. Energy Technology, 2016, 4, 1358-1368.	3.8	17

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127	Discharge, Relaxation, and Charge Model for the Lithium Trivanadate Electrode: Reactions, Phase Change, and Transport. Journal of the Electrochemical Society, 2016, 163, A2890-A2898.	2.9	17
128	Electrodes for Nonaqueous Oxygen Reduction Based upon Conductive Polymer-Silver Composites. Journal of the Electrochemical Society, 2011, 158, A223.	2.9	16
129	Silver Vanadium Phosphorous Oxide, Ag0.48VOPO4: Exploration as a Cathode Material in Primary and Secondary Battery Applications. Journal of the Electrochemical Society, 2012, 159, A1690-A1695.	2.9	16
130	Carbon nanotube–metal oxide composite electrodes for secondary lithium-based batteries. Journal of Composite Materials, 2013, 47, 41-49.	2.4	16
131	Mapping the Anode Surface-Electrolyte Interphase: Investigating a Life Limiting Process of Lithium Primary Batteries. ACS Applied Materials & Interfaces, 2015, 7, 5429-5437.	8.0	16
132	Operando Study of LiV ₃ O ₈ Cathode: Coupling EDXRD Measurements to Simulations. Journal of the Electrochemical Society, 2018, 165, A371-A379.	2.9	16
133	High capacity Li-ion battery anodes: Impact of crystallite size, surface chemistry and PEG-coating. Electrochimica Acta, 2018, 260, 235-245.	5.2	16
134	Optimal electrode-scale design of Li-ion electrodes: A general correlation. Energy Storage Materials, 2021, 39, 176-185.	18.0	16
135	Silver vanadium diphosphate Ag2VP2O8: Electrochemistry and characterization of reduced material providing mechanistic insights. Journal of Solid State Chemistry, 2013, 200, 232-240.	2.9	15
136	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitectured electrodes. Nano Futures, 2018, 2, 035008.	2.2	15
137	Ionic liquid hybrids: Progress toward non-corrosive electrolytes with high-voltage oxidation stability for magnesium-ion based batteries. Electrochimica Acta, 2016, 219, 267-276.	5.2	14
138	Understanding the Effect of Preparative Approaches in the Formation of "Flower-like― Li4Ti5O12—Multiwalled Carbon Nanotube Composite Motifs with Performance as High-Rate Anode Materials for Li-Ion Battery Applications. Journal of the Electrochemical Society, 2017, 164, A524-A534.	2.9	14
139	Hybrid Ag ₂ VO ₂ PO ₄ /CF _x as a High Capacity and Energy Cathode for Primary Batteries. Journal of the Electrochemical Society, 2017, 164, A2457-A2467.	2.9	14
140	Unveiling the Structural Evolution of Ag _{1.2} Mn ₈ O ₁₆ under Coulombically Controlled (De)Lithiation. Chemistry of Materials, 2018, 30, 366-375.	6.7	14
141	Atomic Scale Account of the Surface Effect on Ionic Transport in Silver Hollandite. Chemistry of Materials, 2018, 30, 6124-6133.	6.7	14
142	Rationalization of Diversity in Spinel MgFe ₂ O ₄ Surfaces. Advanced Materials Interfaces, 2019, 6, 1901218.	3.7	14
143	Transition Metal Substitution of Hollandite α-MnO ₂ : Enhanced Potential and Structural Stability on Lithiation from First-Principles Calculation. Journal of Physical Chemistry C, 2019, 123, 25042-25051.	3.1	14
144	Carbon structure/function relationships: Characterization and electrochemistry of carbon nanofibers. Journal of Power Sources, 2006, 157, 543-549.	7.8	13

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145	Electrochemical reduction of Ag ₂ VP ₂ O ₈ composite electrodes visualized via in situ energy dispersive X-ray diffraction (EDXRD): unexpected conductive additive effects. Journal of Materials Chemistry A, 2015, 3, 18027-18035.	10.3	13
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