Keith J. Stevenson

List of Publications by Year
in descending order

364 papers	19,132 citations	13068 68 h-index	17055 122 g-index
377 all docs	377 docs citations	377 times ranked	24162 citing authors

#	Article	IF	Citations
1	Synthesis and characterization of Pt-H MoO3 catalysts for CO-tolerant PEMFCs. Catalysis Today, 2022, 388-389, 147-157.	2.2	6
2	Fluoropolymer impregnated graphite foil as a bipolar plates of vanadium flow battery. International Journal of Energy Research, 2022, 46, 10123-10132.	2.2	5
3	Composite lithium-conductive LATP+PVdF membranes: Development, optimization, and applicability for Li-TEMPO hybrid redox flow batteries. Journal of Membrane Science, 2022, 643, 120002.	4.1	8
4	Electrochemical sensors for detection of Pseudomonas aeruginosa virulence biomarkers: Principles of design and characterization. Sensors and Actuators Reports, 2022, 4, 100072.	2.3	10
5	Nickel tetrathiooxalate as a cathode material for potassium batteries. Mendeleev Communications, 2022, 32, 226-227.	0.6	1
6	Improving stability of perovskite solar cells using fullerene-polymer composite electron transport layer. Synthetic Metals, 2022, 286, 117028.	2.1	9
7	Non-Markovian diffusion of excitons in layered perovskites and transition metal dichalcogenides. Physical Chemistry Chemical Physics, 2022, 24, 13941-13950.	1.3	12
8	Cycling-Driven Electrochemical Activation of Li-Rich NMC Positive Electrodes for Li-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 7758-7769.	2.5	21
9	Influence of conductive additives in a nano-impact electrochemistry study of single LiMn2O4 particles. Electrochemistry Communications, 2022, 139, 107304.	2.3	0
10	Prospect of modeling industrial scale flow batteries â€" From experimental data to accurate overpotential identification. Renewable and Sustainable Energy Reviews, 2022, 167, 112559.	8.2	8
11	Charge storage mechanisms of a Ï€â€"d conjugated polymer for advanced alkali-ion battery anodes. Chemical Science, 2022, 13, 8161-8170.	3.7	7
12	Organic Redox Flow Batteries: Insights from Experimental and Numerical Study. ECS Meeting Abstracts, 2022, MA2022-01, 2020-2020.	0.0	0
13	Development of vanadium-based polyanion positive electrode active materials for high-voltage sodium-based batteries. Nature Communications, 2022, 13, .	5.8	35
14	Identification of Overpotentials in Vanadium Redox Flow Battery with Reference Electrodes and Determination of Apparent Electrochemical Rate Constants. ECS Meeting Abstracts, 2022, MA2022-01, 2033-2033.	0.0	0
15	(Invited) Composite Lithium-Conductive Latp+Pvdf Membranes: Development, Optimization, and Applicability for Li-Hybrid Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 1994-1994.	0.0	0
16	(Digital Presentation) Novel Organic Materials for Non-Aqueous Redox Flow Batteries: Implementation of Triarylamine and Phenazine Core Structures. ECS Meeting Abstracts, 2022, MA2022-01, 2039-2039.	0.0	0
17	Dihydrophenazineâ€Based Copolymers as Promising Cathode Materials for Dualâ€Ion Batteries. Energy Technology, 2021, 9, .	1.8	16
18	Strength of attraction: pyrene-based hole-transport materials with effective Ï€â€"Ï€ stacking for dopant-free perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 283-288.	2.5	6

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19	Solution-based chemical pre-alkaliation of metal-ion battery cathode materials for increased capacity. Journal of Materials Chemistry A, 2021, 9, 11771-11777.	5.2	11
20	Understanding the interplay between the crystal structure and charge transport in alloyed lead-free perovskites. Sustainable Energy and Fuels, 2021, 5, 5454-5460.	2.5	1
21	Polydiphenylamine as a promising high-energy cathode material for dual-ion batteries. Journal of Materials Chemistry A, 2021, 9, 2864-2871.	5.2	27
22	New phenazine based anolyte material for high voltage organic redox flow batteries. Chemical Communications, 2021, 57, 2986-2989.	2.2	33
23	Highly sensitive and selective ammonia gas sensor based on FAPbCl₃ lead halide perovskites. Journal of Materials Chemistry C, 2021, 9, 2561-2568.	2.7	24
24	Reversible Pb²⁺/Pb⁰ and I^{âˆ’}/I₃^{âˆ’} Redox Chemistry Drives the Lightâ€Induced Phase Segregation in Allâ€Inorganic Mixed Halide Perovskites. Advanced Energy Materials, 2021, 11, 2002934.	10.2	56
25	<i>m</i>-Phenylenediamine as a Building Block for Polyimide Battery Cathode Materials. ACS Applied Energy Materials, 2021, 4, 4465-4472.	2.5	21
26	Influence of hydrazinium iodide on the intrinsic photostability of MAPbI3 thin films and solar cells. Journal of Materials Research, 2021, 36, 1846-1854.	1.2	1
27	Hydroxyl Defects in LiFePO₄ Cathode Material: DFT+<i>U</i> and an Experimental Study. Inorganic Chemistry, 2021, 60, 5497-5506.	1.9	11
28	When iodide meets bromide: Halide mixing facilitates the light-induced decomposition of perovskite absorber films. Nano Energy, 2021, 86, 106082.	8.2	12
29	Novel Polyamine-Based Cathodes for Dual-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 51-51.	0.0	0
30	(Invited) Wearable Electrochemical Sensor for Detection of Multianalyte Biomarkers in Wound Healing Efficacy. ECS Meeting Abstracts, 2021, MA2021-01, 1108-1108.	0.0	0
31	Reactive modification of zinc oxide with methylammonium iodide boosts the operational stability of perovskite solar cells. Nano Energy, 2021, 83, 105774.	8.2	22
32	Raman Spectroelectrochemical Studies of Vanadyl-Ion Oxidation on Carbon Paper Electrodes for Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 1784-1784.	0.0	0
33	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. Mendeleev Communications, 2021, 31, 319-322.	0.6	3
34	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. Mendeleev Communications, 2021, 31, 319-322.	0.6	1
35	Photochemically-Induced Phase Segregation of Mixed Halide Perovskite Solar Cells. ECS Meeting Abstracts, 2021, MA2021-01, 1809-1809.	0.0	1
36	Impact of Synthetic Route on Photovoltaic Properties of Isoindigoâ€Containing Conjugated Polymers. Macromolecular Chemistry and Physics, 2021, 222, 2100136.	1.1	1

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37	The Progress of Additive Engineering for CH3NH3PbI3 Photo-Active Layer in the Context of Perovskite Solar Cells. Crystals, 2021, 11, 814.	1.0	17
38	In situ spectroelectrochemical Raman studies of vanadyl-ion oxidation mechanisms on carbon paper electrodes for vanadium flow batteries. Electrochimica Acta, 2021, 383, 138300.	2.6	15
39	Combination of Metal Oxide and Polytriarylamine: A Design Principle to Improve the Stability of Perovskite Solar Cells. Energies, 2021, 14, 5115.	1.6	9
40	Chemical space mapping for multicomponent gas mixtures. Journal of Electroanalytical Chemistry, 2021, 895, 115472.	1.9	3
41	Rationalizing the effect of overstoichiometric PbI2 on the stability of perovskite solar cells in the context of precursor solution formulation. Synthetic Metals, 2021, 278, 116823.	2.1	5
42	Using structure-function relationships to understand the mechanism of phenazine-mediated extracellular electron transfer in Escherichia coli. IScience, 2021, 24, 103033.	1.9	27
43	Conjugated Ladder-Type Polymer with Hexaazatriphenylene Units as a Cathode Material for Lithium, Sodium, and Potassium Batteries. ACS Applied Energy Materials, 2021, 4, 10423-10427.	2.5	11
44	New highly soluble triarylamine-based materials as promising catholytes for redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 8303-8307.	5.2	16
45	Partial Substitution of Pb²⁺ in CsPbI₃ as an Efficient Strategy To Design Fairly Stable All-Inorganic Perovskite Formulations. ACS Applied Materials & Interfaces, 2021, 13, 5184-5194.	4.0	21
46	Facile Method for Cross-Linking Aromatic Polyamines to Engender beyond Lithium Ion Cathodes for Dual-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 11827-11835.	2.5	7
47	Effect of Polymer Binders with Single-Walled Carbon Nanotubes on the Electrochemical and Physicochemical Properties of the LiFePO₄ Cathode. ACS Applied Energy Materials, 2021, 4, 12310-12318.	2.5	7
48	Synthesis and Characterization of Lithium-Conducting Composite Polymerâ€“Ceramic Membranes for Use in Nonaqueous Redox Flow Batteries. ACS Applied Materials & Interfaces, 2021, 13, 53746-53757.	4.0	3
49	Trapping-influenced photoluminescence intensity decay in semiconductor nanoplatelets. Journal of Physics: Conference Series, 2021, 2015, 012103.	0.3	1
50	Revisited Ti₂Nb₂O₉ as an Anode Material for Advanced Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 56366-56374.	4.0	8
51	Electrochemical Analysis of the Mechanism of Potassiumâ€‐Ion Insertion into Kâ€‐rich Prussian Blue Materials. ChemElectroChem, 2020, 7, 761-769.	1.7	13
52	TEMPOL-promoted oxygen doping of a polytriarylamine hole-transport layer for efficient and stable lead halide perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 2419-2424.	2.7	5
53	A nickel coordination polymer derived from 1,2,4,5-tetraaminobenzene for fast and stable potassium battery anodes. Chemical Communications, 2020, 56, 1541-1544.	2.2	20
54	Phenyl-C₆₁-butyric Acid as an Interface Passivation Layer for Highly Efficient and Stable Perovskite Solar Cells. Journal of Physical Chemistry C, 2020, 124, 1872-1877.	1.5	32

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55	Correlating structure and transport properties in pristine and environmentally-aged superionic conductors based on Li1.3Al0.3Ti1.7(PO4)3 ceramics. Journal of Power Sources, 2020, 448, 227367.	4.0	25
56	Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate Li_{1+Î´}Fe_{1âˆ'Î´}PO₄. Journal of Physical Chemistry C, 2020, 124, 126-134.	1.5	12
57	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. Journal of Physical Chemistry Letters, 2020, 11, 333-339.	2.1	85
58	Thermal Effects and Halide Mixing of Hybrid Perovskites: MD and XPS Studies. Journal of Physical Chemistry A, 2020, 124, 135-140.	1.1	14
59	Reduction of Methylammonium Cations as a Major Electrochemical Degradation Pathway in MAPbI₃ Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 221-228.	2.1	33
60	Complex diffusion-based kinetics of photoluminescence in semiconductor nanoplatelets. Physical Chemistry Chemical Physics, 2020, 22, 24686-24696.	1.3	23
61	Tellurium complex polyhalides: narrow bandgap photoactive materials for electronic applications. Journal of Materials Chemistry A, 2020, 8, 21988-21992.	5.2	8
62	Phase boundary propagation kinetics predominately limit the rate capability of NASICON-type Na3+xMnxV2-x(PO4)3 (0â‰xâ‰1) materials. Electrochimica Acta, 2020, 354, 136761.	2.6	26
63	Efficient and Stable MAPbI₃-Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. Journal of Physical Chemistry Letters, 2020, 11, 6772-6778.	2.1	48
64	A Composite Membrane Based on Sulfonated Polystyrene Implanted in a Stretched PTFE Film for Vanadium Flow Batteries. ChemPlusChem, 2020, 85, 2580-2585.	1.3	6
65	Electrochemical Detection of Multianalyte Biomarkers in Wound Healing Efficacy. ACS Sensors, 2020, 5, 3547-3557.	4.0	40
66	Perylenetetracarboxylic dianhydride as organic electron transport layer for n-i-p perovskite solar cells. Synthetic Metals, 2020, 268, 116497.	2.1	8
67	Electrochemical instability of bis(trifluoromethylsulfonyl)imide based ionic liquids as solvents in high voltage electrolytes for potassium ion batteries. Mendeleev Communications, 2020, 30, 679-682.	0.6	3
68	Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI₃ Perovskite Films. Journal of Physical Chemistry C, 2020, 124, 21378-21385.	1.5	22
69	Redox-Active Aqueous Microgels for Energy Storage Applications. Journal of Physical Chemistry Letters, 2020, 11, 10561-10565.	2.1	11
70	Decoupling Contributions of Chargeâ€Transport Interlayers to Lightâ€Induced Degradation of pâ€iâ€n Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000191.	3.1	18
71	Incorporation of Vanadium(V) Oxide in Hybrid Hole Transport Layer Enables Long-term Operational Stability of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 5563-5568.	2.1	28
72	Electrochemical properties and evolution of the phase transformation behavior in the NASICON-type Na3+xMnxV2-x(PO4)3 (0â‰xâ‰1) cathodes for Na-ion batteries. Journal of Power Sources, 2020, 470, 228231.	4.0	48

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73	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI₃ Breaks the Records. Journal of Physical Chemistry Letters, 2020, 11, 2630-2636.	2.1	35
74	Titanium-based potassium-ion battery positive electrode with extraordinarily high redox potential. Nature Communications, 2020, 11, 1484.	5.8	86
75	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and pâ€“iâ€“n Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 19161-19173.	4.0	35
76	Toward Standardization of Electrochemical Impedance Spectroscopy Studies of Li-Ion Conductive Ceramics. Chemistry of Materials, 2020, 32, 2232-2241.	3.2	43
77	Active learning-based framework for optimal reaction mechanism selection from microkinetic modeling: a case study of electrocatalytic oxygen reduction reaction on carbon nanotubes. Physical Chemistry Chemical Physics, 2020, 22, 4581-4591.	1.3	5
78	Metalâ€Ion Coupled Electron Transfer Kinetics in Intercalationâ€Based Transition Metal Oxides. Advanced Energy Materials, 2020, 10, 1903933.	10.2	59
79	Complex Investigation of Water Impact on Li-Ion Conductivity of Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃â€"Electrochemical, Chemical, Structural, and Morphological Aspects. Chemistry of Materials, 2020, 32, 3723-3732.	3.2	24
80	Anomalously High Proton Conduction of Interfacial Water. Journal of Physical Chemistry Letters, 2020, 11, 3623-3628.	2.1	21
81	Intrinsic thermal decomposition pathways of lead halide perovskites APbX3. Solar Energy Materials and Solar Cells, 2020, 213, 110559.	3.0	45
82	Solid-electrolyte interphase nucleation and growth on carbonaceous negative electrodes for Li-ion batteries visualized with in situ atomic force microscopy. Scientific Reports, 2020, 10, 8550.	1.6	57
83	Origins of irreversible capacity loss in hard carbon negative electrodes for potassium-ion batteries. Journal of Chemical Physics, 2020, 152, 194704.	1.2	23
84	Oxygen Reduction Reaction Mechanism Study Via the Mean-Field Microkinetic Modeling and Uncertainty Quantification of Model Parameters. ECS Transactions, 2020, 97, 757-762.	0.3	1
85	Tuning the Crystal Structure of A₂CoPO₄F (A = Li, Na) Fluorideâ€Phosphates: A New Layered Polymorph of LiNaCoPO₄F. European Journal of Inorganic Chemistry, 2019, 2019, 4365-4372.	1.0	7
86	Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6051-6059.	2.5	44
87	Molecular Engineering of the Fullereneâ€Based Electron Transport Layer Materials for Improving Ambient Stability of Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900223.	3.1	20
88	A new polytriarylamine derivative for dopant-free high-efficiency perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 2627-2632.	2.5	32
89	Electrochemical monitoring of the impact of polymicrobial infections on Pseudomonas aeruginosa and growth dependent medium. Biosensors and Bioelectronics, 2019, 142, 111538.	5.3	36
90	Impact of charge transport layers on the photochemical stability of MAPbI₃ in thin films and perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 2705-2716.	2.5	22

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91	New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. Journal of Power Sources, 2019, 435, 226724.	4.0	35
92	â€œHydrotriphylitesâ€• Li_{1â€“<i>x</i>}Fe_{1+<i>x</i>}(PO₄)_{1â€“}<i>_y</i>(OH)<sub>4<i>y</i></s as Cathode Materials for Li-ion Batteries. Chemistry of Materials, 2019, 31, 5035-5046.	3.2	13
93	Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 26862-26869.	1.5	36
94	Influence of Carbon Coating on Intercalation Kinetics and Transport Properties of LiFePO₄. ChemElectroChem, 2019, 6, 5090-5100.	1.7	33
95	Tuning Redox Transitions via the Inductive Effect in LaNi_{1â€“<i>x</i>}Fe_{<i>x</i>}O_{3âˆ'Î´} Perovskites for High-Power Asymmetric and Symmetric Pseudocapacitors. ACS Applied Energy Materials, 2019, 2, 6558-6568.	2.5	23
96	Î²-NaVP₂O₇ as a Superior Electrode Material for Na-Ion Batteries. Chemistry of Materials, 2019, 31, 7463-7469.	3.2	31
97	Comparison of perovskite and perovskite derivatives for use in anion-based pseudocapacitor applications. Journal of Materials Chemistry A, 2019, 7, 21222-21231.	5.2	21
98	High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. Journal of Physical Chemistry Letters, 2019, 10, 5440-5445.	2.1	68
99	Metal-ion batteries meet supercapacitors: high capacity and high rate capability rechargeable batteries with organic cathodes and a Na/K alloy anode. Chemical Communications, 2019, 55, 11758-11761.	2.2	26
100	Bifunctional OER/ORR catalytic activity in the tetrahedral YBaCo₄O_{7.3}oxide. Journal of Materials Chemistry A, 2019, 7, 330-341.	5.2	42
101	Decoupling the roles of carbon and metal oxides on the electrocatalytic reduction of oxygen on La_{1âˆ'x}Sr_xCoO_{3âˆ'Î´} perovskite composite electrodes. Physical Chemistry Chemical Physics, 2019, 21, 3327-3338.	1.3	26
102	Theoretical and experimental evidence for irreversible lithiation of the conformationally flexible polyimide: Impact on battery performance. Journal of Electroanalytical Chemistry, 2019, 836, 143-148.	1.9	9
103	Polymeric iodobismuthates {[Bi₃I₁₀]} and {[BiI₄]} with N-heterocyclic cations: promising perovskite-like photoactive materials for electronic devices. Journal of Materials Chemistry A, 2019, 7, 5957-5966.	5.2	53
104	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 5197-5205.	3.2	52
105	New Naphthaleneâ€Based Polyimide as an Environmentâ€Friendly Organic Cathode Material for Lithium Batteries. Energy Technology, 2019, 7, 1801016.	1.8	21
106	Impressive Radiation Stability of Organic Solar Cells Based on Fullerene Derivatives and Carbazole-Containing Conjugated Polymers. ACS Applied Materials & Interfaces, 2019, 11, 21741-21748.	4.0	18
107	Efficient and stable all-inorganic perovskite solar cells based on nonstoichiometric Cs_xPbI₂Br_x (<i>x</i> > 1) alloys. Journal of Materials Chemistry C, 2019, 7, 5314-5323.	2.7	30
108	Î±-VPO₄: A Novel Many Monovalent Ion Intercalation Anode Material for Metal-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 12431-12440.	4.0	20

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109	An ultrafast charging polyphenylamine-based cathode material for high rate lithium, sodium and potassium batteries. Journal of Materials Chemistry A, 2019, 7, 11430-11437.	5.2	62
110	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesdenâ€“Popper Catalysts for the Oxidation of Urea and Small Alcohols. ACS Catalysis, 2019, 9, 2664-2673.	5.5	99
111	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 22596-22603.	5.2	80
112	Electrochemical sensors for rapid diagnosis of pathogens in real time. Analyst, The, 2019, 144, 6461-6478.	1.7	102
113	Sol-gel-modified membranes for all-organic battery based on bis-(tert-butylphenyl)nitroxide. Colloid and Polymer Science, 2019, 297, 317-323.	1.0	3
114	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid)â€“polymer composites as functional cathode binders for high power LiFePO4 batteries. Colloid and Polymer Science, 2019, 297, 475-484.	1.0	18
115	Î³-Ray-Induced Degradation in the Triple-Cation Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 813-818.	2.1	38
116	Anion-Based Pseudocapacitance of the Perovskite Library La_{1â€“<i>x</i>}Sr<i>_x</i>BO_{3âˆ’Î´} (B = Fe, Mn, Co). ACS Applied Materials & Interfaces, 2019, 11, 5084-5094.	4.0	60
117	Real-Time Electrochemical Detection of <i>Pseudomonas aeruginosa</i> Phenazine Metabolites Using Transparent Carbon Ultramicroelectrode Arrays. ACS Sensors, 2019, 4, 170-179.	4.0	61
118	The Role of Semilabile Oxygen Atoms for Intercalation Chemistry of the Metal-Ion Battery Polyanion Cathodes. Journal of the American Chemical Society, 2018, 140, 3994-4003.	6.6	34
119	Hybrid Solar Cells: Antimony (V) Complex Halides: Leadâ€Free Perovskiteâ€Like Materials for Hybrid Solar Cells (Adv. Energy Mater. 6/2018). Advanced Energy Materials, 2018, 8, 1870026.	10.2	1
120	Preparation and morphology characterization of core-shell water-dispersible polystyrene/poly(3,4-ethylenedioxythiophene) microparticles. Colloid and Polymer Science, 2018, 296, 737-744.	1.0	3
121	Spatial determinants of quorum signaling in a <i>Pseudomonas aeruginosa</i> infection model. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4779-4784.	3.3	118
122	On the Origin of Extended Resolution in Kelvin Probe Force Microscopy with a Worn Tip Apex. Microscopy and Microanalysis, 2018, 24, 126-131.	0.2	2
123	Towards understanding the origin of the hysteresis effects and threshold voltage shift in organic field-effect transistors based on the electrochemically grown AlOx dielectric. Thin Solid Films, 2018, 649, 7-11.	0.8	5
124	Teaching through Research: Alignment of Core Chemistry Competencies and Skills within a Multidisciplinary Research Framework. Journal of Chemical Education, 2018, 95, 248-258.	1.1	20
125	Improving salt-to-solvent ratio to enable high-voltage electrolyte stability for advanced Li-ion batteries. Electrochimica Acta, 2018, 263, 127-133.	2.6	19
126	Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO₃ Composite Electrodes in Alkaline Solution. ACS Applied Energy Materials, 2018, 1, 1549-1558.	2.5	40

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127	Advanced porous polybenzimidazole membranes for vanadium redox batteries synthesized via a supercritical phase-inversion method. Journal of Supercritical Fluids, 2018, 137, 111-117.	1.6	37
128	Antimony (V) Complex Halides: Leadâ€Free Perovskiteâ€Like Materials for Hybrid Solar Cells. Advanced Energy Materials, 2018, 8, 1701140.	10.2	72
129	Cobalt and Vanadium Trimetaphosphate Polyanions: Synthesis, Characterization, and Electrochemical Evaluation for Non-aqueous Redox-Flow Battery Applications. Journal of the American Chemical Society, 2018, 140, 538-541.	6.6	59
130	Pretreatment of Celgard Matrices with Peroxycarbonic Acid for Subsequent Deposition of a Polydopamine Layer. Colloid Journal, 2018, 80, 761-770.	0.5	5
131	Hydrazinium-assisted stabilisation of methylammonium tin iodide for lead-free perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 21389-21395.	5.2	59
132	Theoretical study of the structure and specific capacity of an organic cathode based on poly(2,5-diaza-1,4-benzoquinone) in a lithiated state. Mendeleev Communications, 2018, 28, 239-241.	0.6	3
133	Influence of halide mixing on thermal and photochemical stability of hybrid perovskites: XPS studies. Mendeleev Communications, 2018, 28, 381-383.	0.6	10
134	Enhancing Na⁺ Extraction Limit through High Voltage Activation of the NASICON-Type Na₄MnV(PO₄)₃ Cathode. ACS Applied Energy Materials, 2018, 1, 5842-5846.	2.5	87
135	Reversible facile Rb⁺and K⁺ions de/insertion in a KTiOPO₄-type RbVPO₄F cathode material. Journal of Materials Chemistry A, 2018, 6, 14420-14430.	5.2	34
136	A Novel Family of Polyiodoâ€Bromoantimonate(III) Complexes: Cationâ€Driven Selfâ€Assembly of Photoconductive Metalâ€Polyhalide Frameworks. Chemistry - A European Journal, 2018, 24, 14707-14711.	1.7	60
137	Understanding migration barriers for monovalent ion insertion in transition metal oxide and phosphate based cathode materials: A DFT study. Computational Materials Science, 2018, 154, 449-458.	1.4	52
138	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in La0.5Sr1.5Ni1âˆ'xFexO4Â±Î´ Ruddlesden-Popper oxides. Nature Communications, 2018, 9, 3150.	5.8	161
139	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 1211-1218.	2.1	216
140	Structural origins of capacity fading in lithium-polyimide batteries. Journal of Materials Chemistry A, 2017, 5, 6532-6537.	5.2	29
141	Reversible and Irreversible Electric Field Induced Morphological and Interfacial Transformations of Hybrid Lead Iodide Perovskites. ACS Applied Materials & Interfaces, 2017, 9, 33478-33483.	4.0	27
142	Electrically conducting polymeric microspheres comprised of sulfonated polystyrene cores coated with poly(3,4-ethylenedioxythiophene). Colloid and Polymer Science, 2017, 295, 1049-1058.	1.0	6
143	Lithium Ion Coupled Electron-Transfer Rates in Superconcentrated Electrolytes: Exploring the Bottlenecks for Fast Charge-Transfer Rates with LiMn₂O₄ Cathode Materials. Langmuir, 2017, 33, 9378-9389.	1.6	29
144	Effect of Electronâ€Transport Material on Lightâ€Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700476.	10.2	103

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145	Transparent Carbon Ultramicroelectrode Arrays for the Electrochemical Detection of a Bacterial Warfare Toxin, Pyocyanin. Analytical Chemistry, 2017, 89, 6285-6289.	3.2	56
146	Revealing the Chemistry and Morphology of Buried Donor/Acceptor Interfaces in Organic Photovoltaics. Journal of Physical Chemistry Letters, 2017, 8, 2764-2773.	2.1	15
147	Electrodeposition of Amorphous Molybdenum Chalcogenides from Ionic Liquids and Their Activity for the Hydrogen Evolution Reaction. Langmuir, 2017, 33, 9354-9360.	1.6	41
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