

Keith J. Stevenson

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.

342
papers

15,232
citations

62
h-index

111
g-index

377
ext. papers

17,185
ext. citations

7.1
avg, IF

7
L-index

#	Paper	IF	Citations
342	Electrochemical sensors for detection of <i>Pseudomonas aeruginosa</i> virulence biomarkers: Principles of design and characterization. <i>Sensors and Actuators Reports</i> , 2022 , 4, 100072	4.7	2
341	Nickel tetrathiooxalate as a cathode material for potassium batteries. <i>Mendeleev Communications</i> , 2022 , 32, 226-227	1.9	
340	Metallbn-Coupled Electron Transfer Kinetics in Intercalation-Based Transition Metal Oxides* 2022 , 9-31		
339	Improving stability of perovskite solar cells using fullerene-polymer composite electron transport layer. <i>Synthetic Metals</i> , 2022 , 286, 117028	3.6	1
338	Synthesis and Characterization of Lithium-Conducting Composite Polymer-Ceramic Membranes for Use in Nonaqueous Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53746-53757	9.5	1
337	Trapping-influenced photoluminescence intensity decay in semiconductor nanoplatelets. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012103	0.3	
336	Revisited TiNbO as an Anode Material for Advanced Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56366-56374	9.5	3
335	Facile Method for Cross-Linking Aromatic Polyamines to Engender beyond Lithium Ion Cathodes for Dual-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11827-11835	6.1	1
334	Composite lithium-conductive LATP+PVdF membranes: Development, optimization, and applicability for Li-TEMPO hybrid redox flow batteries. <i>Journal of Membrane Science</i> , 2021 , 643, 120002	9.6	3
333	m-Phenylenediamine as a Building Block for Polyimide Battery Cathode Materials. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4465-4472	6.1	3
332	Influence of hydrazinium iodide on the intrinsic photostability of MAPbI3 thin films and solar cells. <i>Journal of Materials Research</i> , 2021 , 36, 1846-1854	2.5	1
331	Hydroxyl Defects in LiFePO Cathode Material: DFT+ and an Experimental Study. <i>Inorganic Chemistry</i> , 2021 , 60, 5497-5506	5.1	3
330	When iodide meets bromide: Halide mixing facilitates the light-induced decomposition of perovskite absorber films. <i>Nano Energy</i> , 2021 , 86, 106082	17.1	3
329	Reactive modification of zinc oxide with methylammonium iodide boosts the operational stability of perovskite solar cells. <i>Nano Energy</i> , 2021 , 83, 105774	17.1	13
328	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322	1.9	1
327	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322	1.9	
326	Impact of Synthetic Route on Photovoltaic Properties of Isoindigo-Containing Conjugated Polymers. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2100136	2.6	0

325	The Progress of Additive Engineering for CH ₃ NH ₃ PbI ₃ Photo-Active Layer in the Context of Perovskite Solar Cells. <i>Crystals</i> , 2021 , 11, 814	2.3	3
324	In situ spectroelectrochemical Raman studies of vanadyl-ion oxidation mechanisms on carbon paper electrodes for vanadium flow batteries. <i>Electrochimica Acta</i> , 2021 , 383, 138300	6.7	2
323	Dihydrophenazine-Based Copolymers as Promising Cathode Materials for Dual-Ion Batteries. <i>Energy Technology</i> , 2021 , 9, 2000772	3.5	8
322	Strength of attraction: pyrene-based hole-transport materials with effective π -stacking for dopant-free perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 283-288	5.8	4
321	Solution-based chemical pre-alkaliation of metal-ion battery cathode materials for increased capacity. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11771-11777	13	3
320	Polydiphenylamine as a promising high-energy cathode material for dual-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2864-2871	13	13
319	New phenazine based anolyte material for high voltage organic redox flow batteries. <i>Chemical Communications</i> , 2021 , 57, 2986-2989	5.8	10
318	Highly sensitive and selective ammonia gas sensor based on FAPbCl ₃ lead halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2561-2568	7.1	5
317	Reversible Pb ²⁺ /Pb ⁰ and I ⁻ /I ₃ ⁻ Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. <i>Advanced Energy Materials</i> , 2021 , 11, 2002934	21.8	22
316	Combination of Metal Oxide and Polytriarylamine: A Design Principle to Improve the Stability of Perovskite Solar Cells. <i>Energies</i> , 2021 , 14, 5115	3.1	3
315	Chemical space mapping for multicomponent gas mixtures. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115472	4.1	0
314	Rationalizing the effect of overstoichiometric PbI ₂ on the stability of perovskite solar cells in the context of precursor solution formulation. <i>Synthetic Metals</i> , 2021 , 278, 116823	3.6	2
313	Using structure-function relationships to understand the mechanism of phenazine-mediated extracellular electron transfer in. <i>IScience</i> , 2021 , 24, 103033	6.1	3
312	New highly soluble triarylamine-based materials as promising catholytes for redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8303-8307	13	3
311	Partial Substitution of Pb in CsPbI ₃ as an Efficient Strategy To Design Fairly Stable All-Inorganic Perovskite Formulations. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5184-5194	9.5	6
310	Redox-Active Aqueous Microgels for Energy Storage Applications. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1-5	6.4	5
309	Decoupling Contributions of Charge-Transport Interlayers to Light-Induced Degradation of p-i-n Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000191	7.1	9
308	Incorporation of Vanadium(V) Oxide in Hybrid Hole Transport Layer Enables Long-term Operational Stability of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5563-5568	6.4	12

307	Electrochemical properties and evolution of the phase transformation behavior in the NASICON-type $\text{Na}_{3+x}\text{Mn}_x\text{V}_{2-x}(\text{PO}_4)_3$ (0 \leq x \leq 1) cathodes for Na-ion batteries. <i>Journal of Power Sources</i> , 2020 , 470, 228231	8.9	24
306	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI ₃ Breaks the Records. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2630-2636	6.4	18
305	Titanium-based potassium-ion battery positive electrode with extraordinarily high redox potential. <i>Nature Communications</i> , 2020 , 11, 1484	17.4	43
304	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and p-i-n Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19161-19173	9.5	28
303	Toward Standardization of Electrochemical Impedance Spectroscopy Studies of Li-Ion Conductive Ceramics. <i>Chemistry of Materials</i> , 2020 , 32, 2232-2241	9.6	23
302	Active learning-based framework for optimal reaction mechanism selection from microkinetic modeling: a case study of electrocatalytic oxygen reduction reaction on carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 4581-4591	3.6	1
301	Metal-Ion Coupled Electron Transfer Kinetics in Intercalation-Based Transition Metal Oxides. <i>Advanced Energy Materials</i> , 2020 , 10, 1903933	21.8	26
300	Complex Investigation of Water Impact on Li-Ion Conductivity of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ Electrochemical, Chemical, Structural, and Morphological Aspects. <i>Chemistry of Materials</i> , 2020 , 32, 3723-3732	9.6	13
299	Anomalously High Proton Conduction of Interfacial Water. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3623-3628	6.4	11
298	Intrinsic thermal decomposition pathways of lead halide perovskites APbX_3 . <i>Solar Energy Materials and Solar Cells</i> , 2020 , 213, 110559	6.4	27
297	Solid-electrolyte interphase nucleation and growth on carbonaceous negative electrodes for Li-ion batteries visualized with in situ atomic force microscopy. <i>Scientific Reports</i> , 2020 , 10, 8550	4.9	28
296	Origins of irreversible capacity loss in hard carbon negative electrodes for potassium-ion batteries. <i>Journal of Chemical Physics</i> , 2020 , 152, 194704	3.9	11
295	Electrochemical Analysis of the Mechanism of Potassium-Ion Insertion into K-rich Prussian Blue Materials. <i>ChemElectroChem</i> , 2020 , 7, 761-769	4.3	11
294	TEMPOL-promoted oxygen doping of a polytriarylamine hole-transport layer for efficient and stable lead halide perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2419-2424	7.1	3
293	A nickel coordination polymer derived from 1,2,4,5-tetraaminobenzene for fast and stable potassium battery anodes. <i>Chemical Communications</i> , 2020 , 56, 1541-1544	5.8	12
292	Phenyl-C61-butyric Acid as an Interface Passivation Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1872-1877	3.8	21
291	Correlating structure and transport properties in pristine and environmentally-aged superionic conductors based on $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ ceramics. <i>Journal of Power Sources</i> , 2020 , 448, 227367	8.9	16
290	Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate $\text{Li}_{1+\delta}\text{Fe}_2\text{BO}_4$. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 126-134	3.8	6

289	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 333-339	6.4	54
288	Thermal Effects and Halide Mixing of Hybrid Perovskites: MD and XPS Studies. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 135-140	2.8	4
287	Reduction of Methylammonium Cations as a Major Electrochemical Degradation Pathway in MAPbI Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 221-228	6.4	18
286	Complex diffusion-based kinetics of photoluminescence in semiconductor nanoplatelets. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 24686-24696	3.6	8
285	Tellurium complex polyhalides: narrow bandgap photoactive materials for electronic applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21988-21992	13	1
284	Phase boundary propagation kinetics predominately limit the rate capability of NASICON-type $\text{Na}_{3+x}\text{Mn}_x\text{V}_{2-x}(\text{PO}_4)_3$ materials. <i>Electrochimica Acta</i> , 2020 , 354, 136761	6.7	13
283	Efficient and Stable MAPbI-Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6772-6778	6.4	26
282	A Composite Membrane Based on Sulfonated Polystyrene Implanted in a Stretched PTFE Film for Vanadium Flow Batteries. <i>ChemPlusChem</i> , 2020 , 85, 2580-2585	2.8	1
281	Electrochemical Detection of Multianalyte Biomarkers in Wound Healing Efficacy. <i>ACS Sensors</i> , 2020 , 5, 3547-3557	9.2	20
280	Perylenetetracarboxylic dianhydride as organic electron transport layer for n-i-p perovskite solar cells. <i>Synthetic Metals</i> , 2020 , 268, 116497	3.6	3
279	Electrochemical instability of bis(trifluoromethylsulfonyl)imide based ionic liquids as solvents in high voltage electrolytes for potassium ion batteries. <i>Mendeleev Communications</i> , 2020 , 30, 679-682	1.9	2
278	Synthesis and characterization of Pt-HxMoO ₃ catalysts for CO-tolerant PEMFCs. <i>Catalysis Today</i> , 2020 , 388-389, 147-147	5.3	1
277	Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21378-21385	3.8	10
276	Influence of Carbon Coating on Intercalation Kinetics and Transport Properties of LiFePO ₄ . <i>ChemElectroChem</i> , 2019 , 6, 5090-5100	4.3	18
275	Tuning Redox Transitions via the Inductive Effect in LaNi _{1-x} Fe _x O ₃ Perovskites for High-Power Asymmetric and Symmetric Pseudocapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6558-6568	6.1	12
274	ENaVP2O ₇ as a Superior Electrode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 7463-7469	4.69	18
273	Comparison of perovskite and perovskite derivatives for use in anion-based pseudocapacitor applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21222-21231	13	8
272	High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5440-5445	6.4	44

271	Metal-ion batteries meet supercapacitors: high capacity and high rate capability rechargeable batteries with organic cathodes and a Na/K alloy anode. <i>Chemical Communications</i> , 2019 , 55, 11758-11761	5.8	16
270	Bifunctional OER/ORR catalytic activity in the tetrahedral YBaCo4O7.3 oxide. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 330-341	13	23
269	Decoupling the roles of carbon and metal oxides on the electrocatalytic reduction of oxygen on LaSrCoO perovskite composite electrodes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3327-3338	3.6	17
268	Theoretical and experimental evidence for irreversible lithiation of the conformationally flexible polyimide: Impact on battery performance. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 836, 143-148	4.1	4
267	Polymeric iodobismuthates {[Bi3I10]} and {[BiI4]} with N-heterocyclic cations: promising perovskite-like photoactive materials for electronic devices. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5957-5966	13	40
266	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5197-5205	9.6	34
265	New Naphthalene-Based Polyimide as an Environment-Friendly Organic Cathode Material for Lithium Batteries. <i>Energy Technology</i> , 2019 , 7, 1801016	3.5	16
264	Impressive Radiation Stability of Organic Solar Cells Based on Fullerene Derivatives and Carbazole-Containing Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21741-21748	9.5	13
263	Efficient and stable all-inorganic perovskite solar cells based on nonstoichiometric Cs _x PbI ₂ Br _x (x > 1) alloys. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5314-5323	7.1	20
262	ϒVPO: A Novel Many Monovalent Ion Intercalation Anode Material for Metal-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12431-12440	9.5	11
261	An ultrafast charging polyphenylamine-based cathode material for high rate lithium, sodium and potassium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11430-11437	13	40
260	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesden-Popper Catalysts for the Oxidation of Urea and Small Alcohols. <i>ACS Catalysis</i> , 2019 , 9, 2664-2673	13.1	60
259	Tuning the Crystal Structure of A ₂ CoPO ₄ F (A = Li, Na) Fluoride-Phosphates: A New Layered Polymorph of LiNaCoPO ₄ F. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 4365-4372	2.3	5
258	Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6051-6059	6.1	28
257	Molecular Engineering of the Fullerene-Based Electron Transport Layer Materials for Improving Ambient Stability of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900223	7.1	9
256	A new polytriarylamine derivative for dopant-free high-efficiency perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2627-2632	5.8	21
255	Electrochemical monitoring of the impact of polymicrobial infections on <i>Pseudomonas aeruginosa</i> and growth dependent medium. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111538	11.8	19
254	Impact of charge transport layers on the photochemical stability of MAPbI ₃ in thin films and perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2705-2716	5.8	14

253	New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226724	8.9	20
252	Hydrotriphylites $\text{Li}_{1-x}\text{Fe}_{1+x}(\text{PO}_4)_1(\text{OH})_{4y}$ as Cathode Materials for Li-ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5035-5046	9.6	10
251	Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26862-26869	3.8	20
250	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22596-22603	13	46
249	Electrochemical sensors for rapid diagnosis of pathogens in real time. <i>Analyst, The</i> , 2019 , 144, 6461-6478	5	55
248	Sol-gel-modified membranes for all-organic battery based on bis-(tert-butylphenyl)nitroxide. <i>Colloid and Polymer Science</i> , 2019 , 297, 317-323	2.4	2
247	Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid) polymer composites as functional cathode binders for high power LiFePO_4 batteries. <i>Colloid and Polymer Science</i> , 2019 , 297, 475-484	2.4	8
246	Ray-Induced Degradation in the Triple-Cation Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 813-818	6.4	24
245	Anion-Based Pseudocapacitance of the Perovskite Library LaSrBO (B = Fe, Mn, Co). <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5084-5094	9.5	36
244	Real-Time Electrochemical Detection of <i>Pseudomonas aeruginosa</i> Phenazine Metabolites Using Transparent Carbon Ultramicroelectrode Arrays. <i>ACS Sensors</i> , 2019 , 4, 170-179	9.2	35
243	The Role of Semilabile Oxygen Atoms for Intercalation Chemistry of the Metal-Ion Battery Polyanion Cathodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3994-4003	16.4	20
242	Hybrid Solar Cells: Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells (Adv. Energy Mater. 6/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870026	21.8	0
241	Preparation and morphology characterization of core-shell water-dispersible polystyrene/poly(3,4-ethylenedioxythiophene) microparticles. <i>Colloid and Polymer Science</i> , 2018 , 296, 737-744	2.4	1
240	Spatial determinants of quorum signaling in a infection model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4779-4784	11.5	67
239	On the Origin of Extended Resolution in Kelvin Probe Force Microscopy with a Worn Tip Apex. <i>Microscopy and Microanalysis</i> , 2018 , 24, 126-131	0.5	2
238	Towards understanding the origin of the hysteresis effects and threshold voltage shift in organic field-effect transistors based on the electrochemically grown AlO_x dielectric. <i>Thin Solid Films</i> , 2018 , 649, 7-11	2.2	3
237	Teaching through Research: Alignment of Core Chemistry Competencies and Skills within a Multidisciplinary Research Framework. <i>Journal of Chemical Education</i> , 2018 , 95, 248-258	2.4	12
236	Improving salt-to-solvent ratio to enable high-voltage electrolyte stability for advanced Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 263, 127-133	6.7	15

235	Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO ₃ Composite Electrodes in Alkaline Solution. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1549-1558	6.1	29
234	Advanced porous polybenzimidazole membranes for vanadium redox batteries synthesized via a supercritical phase-inversion method. <i>Journal of Supercritical Fluids</i> , 2018 , 137, 111-117	4.2	29
233	Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701140	21.8	57
232	A Novel Family of Polyiodo-Bromoantimonate(III) Complexes: Cation-Driven Self-Assembly of Photoconductive Metal-Polyhalide Frameworks. <i>Chemistry - A European Journal</i> , 2018 , 24, 14707-14711	4.8	33
231	Understanding migration barriers for monovalent ion insertion in transition metal oxide and phosphate based cathode materials: A DFT study. <i>Computational Materials Science</i> , 2018 , 154, 449-458	3.2	31
230	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in LaSrNiFeO Ruddlesden-Popper oxides. <i>Nature Communications</i> , 2018 , 9, 3150	17.4	108
229	Cobalt and Vanadium Trimetaphosphate Polyanions: Synthesis, Characterization, and Electrochemical Evaluation for Non-aqueous Redox-Flow Battery Applications. <i>Journal of the American Chemical Society</i> , 2018 , 140, 538-541	16.4	44
228	Pretreatment of Celgard Matrices with Peroxycarbonic Acid for Subsequent Deposition of a Polydopamine Layer. <i>Colloid Journal</i> , 2018 , 80, 761-770	1.1	4
227	Hydrazinium-assisted stabilisation of methylammonium tin iodide for lead-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21389-21395	13	45
226	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. <i>Mendeleev Communications</i> , 2018 , 28, 239-241	1.9	3
225	Influence of halide mixing on thermal and photochemical stability of hybrid perovskites: XPS studies. <i>Mendeleev Communications</i> , 2018 , 28, 381-383	1.9	7
224	Enhancing Na ⁺ Extraction Limit through High Voltage Activation of the NASICON-Type Na ₄ MnV(PO ₄) ₃ Cathode. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5842-5846	6.1	51
223	Reversible facile Rb ⁺ and K ⁺ ions de/insertion in a KTiOPO ₄ -type RbVPO ₄ F cathode material. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14420-14430	13	26
222	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1211-1218	6.4	160
221	Structural origins of capacity fading in lithium-polyimide batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6532-6537	13	23
220	Reversible and Irreversible Electric Field Induced Morphological and Interfacial Transformations of Hybrid Lead Iodide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33478-33483	9.5	20
219	Electrically conducting polymeric microspheres comprised of sulfonated polystyrene cores coated with poly(3,4-ethylenedioxythiophene). <i>Colloid and Polymer Science</i> , 2017 , 295, 1049-1058	2.4	4
218	Lithium Ion Coupled Electron-Transfer Rates in Superconcentrated Electrolytes: Exploring the Bottlenecks for Fast Charge-Transfer Rates with LiMnO Cathode Materials. <i>Langmuir</i> , 2017 , 33, 9378-9389	4	21

217	Effect of Electron-Transport Material on Light-Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700476	21.8	80
216	Transparent Carbon Ultramicroelectrode Arrays for the Electrochemical Detection of a Bacterial Warfare Toxin, Pyocyanin. <i>Analytical Chemistry</i> , 2017 , 89, 6285-6289	7.8	38
215	Revealing the Chemistry and Morphology of Buried Donor/Acceptor Interfaces in Organic Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2764-2773	6.4	12
214	Electrodeposition of Amorphous Molybdenum Chalcogenides from Ionic Liquids and Their Activity for the Hydrogen Evolution Reaction. <i>Langmuir</i> , 2017 , 33, 9354-9360	4	29
213	Unprecedented thermal condensation of tetracyanocyclopropanes to triazaphenalenenes: a facile route for the design of novel materials for electronic applications. <i>Chemical Communications</i> , 2017 , 53, 4830-4833	5.8	1
212	Synthesis and charge storage properties of templated LaMnO-SiO composite materials. <i>Dalton Transactions</i> , 2017 , 46, 977-984	4.3	12
211	Highly Efficient All-Inorganic Planar Heterojunction Perovskite Solar Cells Produced by Thermal Coevaporation of CsI and PbI. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 67-72	6.4	214
210	Gold Nanoparticle Modified Transparent Carbon Ultramicroelectrode Arrays for the Selective and Sensitive Electroanalytical Detection of Nitric Oxide. <i>Analytical Chemistry</i> , 2017 , 89, 1267-1274	7.8	26
209	Liquid-processed transition metal dichalcogenide films for field-effect transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 18106-18112	2.1	1
208	Preface to the Fundamental Interfacial Science for Energy Applications Special Issue. <i>Langmuir</i> , 2017 , 33, 9245	4	1
207	A materials driven approach for understanding single entity nano impact electrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017 , 6, 38-45	7.2	74
206	Membranes based on carboxyl-containing polyacrylonitrile for applications in vanadium redox-flow batteries. <i>Mendeleev Communications</i> , 2017 , 27, 390-391	1.9	6
205	Spatially-resolved nanoscale measurements of grain boundary enhanced photocurrent in inorganic CsPbBr ₃ perovskite films. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 171, 205-212	6.4	32
204	Influence of aminosilane precursor concentration on physicochemical properties of composite Nafion membranes for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 2017 , 340, 32-39	8.9	29
203	Direct Visualization of the Solid Electrolyte Interphase and Its Effects on Silicon Electrochemical Performance. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600438	4.6	43
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