

Charles Buddie Mullins

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

236
papers

13,153
citations

65
h-index

106
g-index

244
ext. papers

14,898
ext. citations

9.7
avg, IF

6.97
L-index

#	Paper	IF	Citations
236	A phase transition-induced photocathodic p-CuFeO ₂ nanocolumnar film by reactive ballistic deposition. <i>New Journal of Chemistry</i> , 2022 , 46, 1238-1245	3.6	1
235	Unraveling porogenesis in nitrogen rich K ⁺ -activated carbons. <i>Carbon</i> , 2022 , 186, 711-723	10.4	0
234	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , 2021 , 12, 6552	17.4	28
233	Catalytic Reactions on Pd-Au Bimetallic Model Catalysts. <i>Accounts of Chemical Research</i> , 2021 , 54, 379-387	14.3	8
232	CO Dissociation on model Co/SiO ₂ catalysts: Effect of adsorbed hydrogen. <i>Surface Science</i> , 2021 , 705, 121783	1.8	2
231	Recent Developments in Dendrite-Free Lithium-Metal Deposition through Tailoring of Micro- and Nanoscale Artificial Coatings. <i>ACS Nano</i> , 2021 , 15, 29-46	16.7	25
230	Electrochemical behavior of a Ni ₃ N OER precatalyst in Fe-purified alkaline media: the impact of self-oxidation and Fe incorporation. <i>Materials Advances</i> , 2021 , 2, 2299-2309	3.3	2
229	Mass transport-enhanced electrodeposition of Ni ₃ BPDC films on nickel foam for electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7736-7749	13	15
228	Li-Zn Overlayer to Facilitate Uniform Lithium Deposition for Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9985-9993	9.5	5
227	In-Situ Characterization of Dynamic Morphological and Phase Changes of Selenium-doped Germanium Using a Single Particle Cell and Synchrotron Transmission X-ray Microscopy. <i>ChemSusChem</i> , 2021 , 14, 1370-1376	8.3	3
226	Lithium trapping in germanium nanopores during delithiation process. <i>Applied Materials Today</i> , 2021 , 24, 101140	6.6	1
225	Anodized Nickel Foam for Oxygen Evolution Reaction in Fe-Free and Unpurified Alkaline Electrolytes at High Current Densities. <i>ACS Nano</i> , 2021 , 15, 3468-3480	16.7	19
224	Highly active and stable nickel-molybdenum nitride (Ni ₂ Mo ₃ N) electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4945-4951	13	15
223	Blade-Type Reaction Front in Micrometer-Sized Germanium Particles during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47574-47579	9.5	3
222	Stabilization of a Highly Ni-Rich Layered Oxide Cathode through Flower-Petal Grain Arrays. <i>ACS Nano</i> , 2020 ,	16.7	23
221	CaCl ₂ -Activated Carbon Nitride: Hierarchically Nanoporous Carbons with Ultrahigh Nitrogen Content for Selective CO ₂ Adsorption. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5965-5977	5.6	8
220	Moisture-Driven Formation and Growth of Quasi-2-D Organolead Halide Perovskite Crystallites. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6280-6290	6.1	6

219	In Situ and Operando Morphology Study of GermaniumSelenium Alloy Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6115-6120	6.1	5
218	Cobalt MetalCobalt Carbide Composite Microspheres for Water Reduction Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3909-3918	6.1	11
217	Lithium Fluoride Coated Silicon Nanocolumns as Anodes for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18465-18472	9.5	18
216	Methanol Oxidation Catalyzed by Copper Nanoclusters Incorporated in Vacuum-Deposited HKUST-1 Thin Films. <i>ACS Catalysis</i> , 2020 , 10, 4997-5007	13.1	20
215	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. <i>ACS Energy Letters</i> , 2020 , 5, 1136-1146	20.1	161
214	Hydrogen desorption from the surface and subsurface of cobalt. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15281-15287	3.6	4
213	Sulfur-Rich Molybdenum Sulfide as a Cathode Material for Room Temperature SodiumSulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6121-6126	6.1	6
212	Metal-free photocatalysts for hydrogen evolution. <i>Chemical Society Reviews</i> , 2020 , 49, 1887-1931	58.5	190
211	Spatially Controlled Molecular Analysis of Biological Samples Using Nanodroplet Arrays and Direct Droplet Aspiration. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 418-428	3.5	4
210	Separator-free and concentrated LiNO ₃ electrolyte cells enable uniform lithium electrodeposition. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3999-4006	13	13
209	Effects of Alkylammonium Choice on Stability and Performance of Quasi-2D Organolead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10887-10897	3.8	3
208	Effect of Selenium Content on Nickel Sulfoselenide-Derived Nickel (Oxy)hydroxide Electrocatalysts for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20366-20375	9.5	9
207	Evaluation of Two Potassium-Based Activation Agents for the Production of Oxygen- and Nitrogen-Doped Porous Carbons. <i>Energy & Fuels</i> , 2020 , 34, 6101-6112	4.1	6
206	Low temperature dissociation of CO on manganese promoted cobalt(poly). <i>Chemical Communications</i> , 2020 , 56, 2865-2868	5.8	2
205	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 1243-1295	16.7	209
204	In situ and operando investigation of the dynamic morphological and phase changes of a selenium-doped germanium electrode during (de)lithiation processes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 750-759	13	17
203	Sulfur-Rich Molybdenum Sulfide as an Anode Coating to Improve Performance of Lithium Metal Batteries. <i>ChemElectroChem</i> , 2020 , 7, 222-228	4.3	3
202	Hydrogen Evolution by Ni ₂ P Catalysts Derived from Phosphine MOFs. <i>ACS Applied Energy Materials</i> , 2020 , 3, 176-183	6.1	18

201	A Stable Lead (II) Oxide-Carbon Composite Anode Candidate for Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 060509	3.9	2
200	A Perspective on the Electrochemical Oxidation of Methane to Methanol in Membrane Electrode Assemblies. <i>ACS Energy Letters</i> , 2020 , 5, 2954-2963	20.1	21
199	Current Progress and Future Directions in Gas-Phase Metal-Organic Framework Thin-Film Growth. <i>ChemSusChem</i> , 2020 , 13, 5433-5442	8.3	8
198	Modulating Charge Transfer Efficiency of Hematite Photoanode with Hybrid Dual-Metal-Organic Frameworks for Boosting Photoelectrochemical Water Oxidation. <i>Advanced Science</i> , 2020 , 7, 2002563	13.6	18
197	Simultaneous Sulfite Electrolysis and Hydrogen Production Using Ni Foam-Based Three-Dimensional Electrodes. <i>Environmental Science & Technology</i> , 2020 , 54, 12511-12520	10.3	8
196	Evaluation of a V8C7 Anode for Oxygen Evolution in Alkaline Media: Unusual Morphological Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14101-14108	8.3	4
195	Boosting Photoelectrochemical Performance of BiVO ₄ through Photoassisted Self-Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4403-4410	6.1	18
194	CuSnS-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. <i>ACS Nano</i> , 2019 , 13, 10671-10681	16.7	10
193	Facile Synthesis of a Tin Oxide-Carbon Composite Lithium-Ion Battery Anode with High Capacity Retention. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7244-7255	6.1	7
192	Understanding the Mechanism of Stress Mitigation in Selenium-Doped Germanium Electrodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A364-A377	3.9	4
191	The effect of local lithium surface chemistry and topography on solid electrolyte interphase composition and dendrite nucleation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14882-14894	13	31
190	Electrodeposition of the NaK Alloy with a Liquid Organic Electrolyte. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3009-3012	6.1	6
189	Oxidative Cross-Esterification and Related Pathways of Co-Adsorbed Oxygen and Ethanol on Pd/Au. <i>ACS Catalysis</i> , 2019 , 9, 4516-4525	13.1	22
188	Selective Oxidation of Acetaldehyde to Acetic Acid on Pd/Au Bimetallic Model Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 4360-4368	13.1	13
187	Lead Oxide Microparticles Coated by Ethylenediamine-Cross-Linked Graphene Oxide for Lithium Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3017-3020	6.1	14
186	In Situ Focused Ion Beam-Scanning Electron Microscope Study of Crack and Nanopore Formation in Germanium Particle During (De)lithiation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2441-2446	6.1	13
185	Carbon Nitride Transforms into a High Lithium Storage Capacity Nitrogen-Rich Carbon. <i>ACS Nano</i> , 2019 , 13, 9279-9291	16.7	32
184	Electrodeposition of MoS Hydrogen Evolution Catalysts from Sulfur-Rich Precursors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32879-32886	9.5	27

183	Solvent-free vacuum growth of oriented HKUST-1 thin films. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19396-19406	13	29
182	Nanorod Gradient Cathode: Preventing Electrolyte Penetration into Cathode Particles. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6002-6011	6.1	30
181	In situ formation of a multicomponent inorganic-rich SEI layer provides a fast charging and high specific energy Li-metal battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17782-17789	13	55
180	Controlled Prelithiation of PbS to Pb/Li ₂ S for High Initial Coulombic Efficiency in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1939-A1943	3.9	5
179	Probing the Degradation Chemistry and Enhanced Stability of 2D Organolead Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18170-18181	16.4	31
178	Infrared Light-Driven LaW(O,N) ₃ OER Photoelectrocatalysts from Chloride Flux-Grown La ₄ W ₃ O ₁₅ Templating Precursors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 913-922	6.1	2
177	Facet effect on the photoelectrochemical performance of a WO ₃ /BiVO ₄ heterojunction photoanode. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 227-239	21.8	97
176	Understanding Charge Transport in Carbon Nitride for Enhanced Photocatalytic Solar Fuel Production. <i>Accounts of Chemical Research</i> , 2019 , 52, 248-257	24.3	65
175	Compact Lithium-Ion Battery Electrodes with Lightweight Reduced Graphene Oxide/Poly(Acrylic Acid) Current Collectors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 905-912	6.1	8
174	Enhanced Activity Promoted by CeO _x on a CoO _x Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 4257-4265	13.1	98
173	Oxygen-Electrode Catalysis on Oxoperovskites at 700 °C versus 20 °C. <i>Chemistry of Materials</i> , 2018 , 30, 629-635	9.6	8
172	The interplay between ceria particle size, reducibility, and ethanol oxidation activity of ceria-supported gold catalysts. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 75-85	4.9	11
171	Interface Engineering and its Effect on WO ₃ -Based Photoanode and Tandem Cell. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12639-12650	9.5	44
170	Surface Alloy Composition Controlled O ₂ Activation on PdAu Bimetallic Model Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 3641-3649	13.1	38
169	Enhanced Electrochemical Performance of a TinAntimony Alloy/N-Doped Carbon Nanocomposite as a Sodium-Ion Battery Anode. <i>ChemElectroChem</i> , 2018 , 5, 391-396	4.3	18
168	Chloride Flux Growth of Idiomorphic AWO ₄ (A = Sr, Ba) Single Microcrystals. <i>Crystal Growth and Design</i> , 2018 , 18, 5301-5310	3.5	7
167	Tuning the Intrinsic Properties of Carbon Nitride for High Quantum Yield Photocatalytic Hydrogen Production. <i>Advanced Science</i> , 2018 , 5, 1800820	13.6	72
166	An active nanoporous Ni(Fe) OER electrocatalyst via selective dissolution of Cd in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 1-7	21.8	74

165	Capacity Degradation Mechanism and Cycling Stability Enhancement of AlF-Coated Nanorod Gradient Na[NiCoMn]O Cathode for Sodium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 12912-12922	16.7	47
164	Phase transition systematics in BiVO ₄ by means of high-pressure/high-temperature Raman experiments. <i>Physical Review B</i> , 2018 , 98,	3.3	15
163	Transformation of a Cobalt Carbide (Co ₃ C) Oxygen Evolution Precatalyst. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	12
162	Catalyst or Precatalyst? The Effect of Oxidation on Transition Metal Carbide, Pnictide, and Chalcogenide Oxygen Evolution Catalysts. <i>ACS Energy Letters</i> , 2018 , 3, 2956-2966	20.1	196
161	Effect of the Electrolyte on the Cycling Efficiency of Lithium-Limited Cells and their Morphology Studied Through in Situ Optical Imaging. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5830-5835	6.1	14
160	p-Type BP nanosheet photocatalyst with AQE of 3.9% in the absence of a noble metal cocatalyst: investigation and elucidation of photophysical properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18403-18408	13.1	18
159	Sulfur-Rich MoS ₆ as an Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4453-4458	6.1	24
158	Ethanol Decomposition on Pd/Au Alloy Catalysts. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22024-22032, 8	3.8	59
157	Simple Microwave-Assisted Synthesis of Delafossite CuFeO ₂ as an Anode Material for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 2419-2423	4.3	12
156	A Simplified Successive Ionic Layer Adsorption and Reaction (s-SILAR) Method for Growth of Porous BiVO ₄ Thin Films for Photoelectrochemical Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H119-H125	3.9	11
155	In Situ Growth of Fe(Ni)OOH Catalyst on Stainless Steel for Water Oxidation. <i>ChemistrySelect</i> , 2017 , 2, 2230-2234	1.8	30
154	Apparatus for efficient utilization of isotopically-labeled gases in pulse transient studies of heterogeneously catalyzed gas phase reactions. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 512-520	4.9	4
153	Reduced-Graphene Oxide/Poly(acrylic acid) Aerogels as a Three-Dimensional Replacement for Metal-Foil Current Collectors in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22641-22651	9.5	21
152	NH ₃ -assisted chloride flux-coating method for direct fabrication of visible-light-responsive SrNbO ₂ N crystal layers. <i>CrystEngComm</i> , 2017 , 19, 5532-5541	3.3	21
151	Enhanced Photoelectrochemical Performance of Porous Bi ₂ MoO ₆ Photoanode by an Electrochemical Treatment. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H299-H306	3.9	12
150	HO-Improved O activation on the Pd-Au bimetallic surface. <i>Chemical Communications</i> , 2017 , 53, 3990-3993	3.3	4
149	Water Influences the Activity and Selectivity of Ceria-Supported Gold Catalysts for Oxidative Dehydrogenation and Esterification of Ethanol. <i>ACS Catalysis</i> , 2017 , 7, 1216-1226	13.1	23
148	Mechanistic insights on ethanol dehydrogenation on Pd-Au model catalysts: a combined experimental and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30578-30589	3.6	46

147	Self-Assembled Cu-Sn-S Nanotubes with High (De)Lithiation Performance. <i>ACS Nano</i> , 2017 , 11, 10347-10356	3.6	24
146	Heterogeneity in Mixed Cerium Oxides and Its Influence on the Behavior of Gold Catalysts for the Selective Oxidation of Ethanol. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19269-19279	3.8	5
145	Activation of a Nickel-Based Oxygen Evolution Reaction Catalyst on a Hematite Photoanode via Incorporation of Cerium for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30654-30661	9.5	46
144	In Situ Optical Imaging of Sodium Electrodeposition: Effects of Fluoroethylene Carbonate. <i>ACS Energy Letters</i> , 2017 , 2, 2051-2057	20.1	71
143	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO/BiVO Nanoporous Sphere Arrays. <i>Nano Letters</i> , 2017 , 17, 8012-8017	11.5	131
142	Tunable Syn-gas ratio via bireforming over coke-resistant Ni/Mo ₂ C catalyst. <i>Fuel Processing Technology</i> , 2016 , 153, 111-120	7.2	13
141	Improved Charge Carrier Transport of Hydrogen-Treated Copper Tungstate: Photoelectrochemical and Computational Study. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H970-H975	3.9	14
140	Simple Synthesis of Nanocrystalline Tin Sulfide/N-Doped Reduced Graphene Oxide Composites as Lithium Ion Battery Anodes. <i>ACS Nano</i> , 2016 , 10, 10778-10788	16.7	146
139	A soft X-ray spectroscopic perspective of electron localization and transport in tungsten doped bismuth vanadate single crystals. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31958-31965	3.6	11
138	Investigation of Reversible Li Insertion into LiY(WO ₄) ₂ . <i>Chemistry of Materials</i> , 2016 , 28, 4641-4645	9.6	7
137	The Role of Anions in Metal Chalcogenide Oxygen Evolution Catalysis: Electrodeposited Thin Films of Nickel Sulfide as Pre-catalysts. <i>ACS Energy Letters</i> , 2016 , 1, 195-201	20.1	237
136	Formation of an Electroactive Polymer Gel Film upon Lithiation and Delithiation of PbSe. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1666-A1671	3.9	9
135	Unravelling Small-Polaron Transport in Metal Oxide Photoelectrodes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 471-9	6.4	181
134	Bandgap engineering of Fe ₂ O ₃ with Cr - application to photoelectrochemical oxidation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1644-8	3.6	23
133	Simple Synthesis of Nanostructured Sn/Nitrogen-Doped Carbon Composite Using Nitrilotriacetic Acid as Lithium Ion Battery Anode. <i>Chemistry of Materials</i> , 2016 , 28, 1343-1347	9.6	106
132	Mixing Super P-Li with N-Doped Mesoporous Templated Carbon Improves the High Rate Performance of a Potential Lithium Ion Battery Anode. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A953-A957	3.9	7
131	Structural and Catalytic Effects of Iron- and Scandium-Doping on a Strontium Cobalt Oxide Electrocatalyst for Water Oxidation. <i>ACS Catalysis</i> , 2016 , 6, 1122-1133	13.1	29
130	Synthesis, electronic transport and optical properties of Si:Fe ₂ O ₃ single crystals. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 559-567	7.1	24

129	Facile growth of porous Fe ₂ V ₄ O ₁₃ films for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3034-3042	13	36
128	Communication Stages in the Dynamic Electrochemical Lithiation of Lead. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1027-A1029	3.9	13
127	Evidence of methane adsorption over Mo ₂ C involving single C-H bond dissociation instead of facile carbon exchange. <i>Reaction Chemistry and Engineering</i> , 2016 , 1, 667-674	4.9	3
126	Facile Synthesis of Ge/N-Doped Carbon Spheres with Varying Nitrogen Content for Lithium Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27788-27794	9.5	46
125	K ⁺ Reduces Lithium Dendrite Growth by Forming a Thin, Less-Resistive Solid Electrolyte Interphase. <i>ACS Energy Letters</i> , 2016 , 1, 414-419	20.1	57
124	High tap density microparticles of selenium-doped germanium as a high efficiency, stable cycling lithium-ion battery anode material. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5829-5834	13	47
123	Effect of annealing in oxygen on alloy structures of Pd-Au bimetallic model catalysts. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20588-96	3.6	21
122	Anisotropic small-polaron hopping in W:BiVO ₄ single crystals. <i>Applied Physics Letters</i> , 2015 , 106, 022106	3.4	60
121	Control of selectivity in allylic alcohol oxidation on gold surfaces: the role of oxygen adatoms and hydroxyl species. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4730-8	3.6	22
120	Oxygen Activation and Reaction on Pd/Au Bimetallic Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11754-11762	3.8	50
119	Obviating the need for nanocrystallites in the extended lithiation/de-lithiation of germanium. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23442-23447	13	6
118	SILAR Growth of Ag ₃ VO ₄ and Characterization for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26803-26808	3.8	29
117	Synthesis and Characterization of CuV ₂ O ₆ and Cu ₂ V ₂ O ₇ : Two Photoanode Candidates for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27220-27227	3.8	88
116	Visible-Light-Active NiV ₂ O ₆ Films for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14524-14531	3.8	20
115	High-rate oxygen evolution reaction on Al-doped LiNiO ₂ . <i>Advanced Materials</i> , 2015 , 27, 6063-7	24	59
114	Lithiation and Delithiation of Lead Sulfide (PbS). <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1182-A1185	3.9	16
113	Tin microparticles for a lithium ion battery anode with enhanced cycling stability and efficiency derived from Se-doping. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13500-13506	13	35
112	Improvement of the sodiation/de-sodiation stability of Sn(C) by electrochemically inactive Na ₂ Se. <i>RSC Advances</i> , 2015 , 5, 82012-82017	3.7	2

111	Conditions for Ta(IV)-Ta(IV) bonding in trirutile Li(x)MTa ₂ O ₆ . <i>Inorganic Chemistry</i> , 2015 , 54, 2009-16	5.1	2
110	Model studies with gold: a versatile oxidation and hydrogenation catalyst. <i>Accounts of Chemical Research</i> , 2014 , 47, 750-60	24.3	29
109	Interactions of Hydrogen and Carbon Monoxide on Pd/Au Bimetallic Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2129-2137	3.8	16
108	Pulsed Laser Deposition of Epitaxial and Polycrystalline Bismuth Vanadate Thin Films. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26543-26550	3.8	39
107	Sub-stoichiometric germanium sulfide thin-films as a high-rate lithium storage material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19011-19018	13	24
106	A free-standing, flexible lithium-ion anode formed from an air-dried slurry cast of high tap density SnO ₂ , CMC polymer binder and Super-P Li. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14459	13	7
105	Electrodeposition of Ni-doped FeOOH oxygen evolution reaction catalyst for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14957	13	73
104	Fast lithium transport in PbTe for lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7238	13	20
103	Li- and Na-reduction products of meso-Co ₃ O ₄ form high-rate, stably cycling battery anode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14209-14221	13	42
102	Tin-germanium alloys as anode materials for sodium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15860-7	9.5	77
101	p-Si/W ₂ C and p-Si/W ₂ C/Pt photocathodes for the hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1535-44	16.4	70
100	Thin Nanocolumnar Ge _{0.9} Se _{0.1} Films Are Rapidly Lithiated/Delithiated. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17407-17412	3.8	18
99	Selective hydrogen production from formic acid decomposition on Pd-Au bimetallic surfaces. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11070-8	16.4	176
98	Evaluating Electrocatalysts for the Hydrogen Evolution Reaction Using Bipolar Electrode Arrays: Bi- and Trimetallic Combinations of Co, Fe, Ni, Mo, and W. <i>ACS Catalysis</i> , 2014 , 4, 1332-1339	13.1	72
97	Improved Visible Light Harvesting of WO ₃ by Incorporation of Sulfur or Iodine: A Tale of Two Impurities. <i>Chemistry of Materials</i> , 2014 , 26, 1670-1677	9.6	71
96	Amorphous FeOOH oxygen evolution reaction catalyst for photoelectrochemical water splitting. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2843-50	16.4	424
95	Chemistry. Water's place in Au catalysis. <i>Science</i> , 2014 , 345, 1564-5	33.3	8
94	Oxygen and hydroxyl species induce multiple reaction pathways for the partial oxidation of allyl alcohol on gold. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6489-98	16.4	33

93	Antimony-doped tin oxide nanorods as a transparent conducting electrode for enhancing photoelectrochemical oxidation of water by hematite. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5494-9	9.5	56
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