

Tsun-Kong Sham

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.

243
papers

10,847
citations

54
h-index

97
g-index

256
ext. papers

13,122
ext. citations

8.8
avg. IF

6.25
L-index

#	Paper	IF	Citations
243	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021 , 12, 6806	17.4	18
242	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level Electrosynthesis of Formate from CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25741-25745	16.4	7
241	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level Electrosynthesis of Formate from CO ₂ . <i>Angewandte Chemie</i> , 2021 , 133, 25945	3.6	1
240	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. <i>Chemistry of Materials</i> , 2021 , 33, 2029-2036	2.036	4
239	Insight into Ion Diffusion Dynamics/Mechanisms and Electronic Structure of Highly Conductive Sodium-Rich NaLaZrSiPO (0-0.5) Solid-State Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13132-13138	9.5	5
238	Double sulfur vacancies by lithium tuning enhance CO electroreduction to n-propanol. <i>Nature Communications</i> , 2021 , 12, 1580	17.4	43
237	Highly Textured Assembly of Engineered Si Nanowires for Artificial Synapses Model. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1375-1383	4	1
236	Origin of High Ionic Conductivity of Sc-Doped Sodium-Rich NASICON Solid-State Electrolytes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102129	15.6	9
235	Electronic and relating behavior of Mn-doped ZnO nanostructures: An x-ray absorption spectroscopy study. <i>AIP Advances</i> , 2021 , 11, 065027	1.5	1
234	CuO/Cu-MOF nanocomposite for highly sensitive detection of nitric oxide released from living cells using an electrochemical microfluidic device. <i>Mikrochimica Acta</i> , 2021 , 188, 240	5.8	7
233	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101259	24	14
232	Stabilizing Oxygen Vacancies in ZrO ₂ by Ga ₂ O ₃ Boosts the Direct Dehydrogenation of Light Alkanes. <i>ACS Catalysis</i> , 2021 , 11, 10159-10169	13.1	2
231	Strain and ligand effects in Pt-Ni alloys studied by valence-to-core X-ray emission spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 13698	4.9	1
230	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021 , 14, 4085-4094	35.4	15
229	Ultra-Bright and Stable Pure Blue Light-Emitting Diode from O, N Co-Doped Carbon Dots. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000412	8.3	22
228	Unveiling the Nature of Pt Single-Atom Catalyst during Electrocatalytic Hydrogen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2021 , 17, e2007245	11	24
227	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2100836	21.8	17

226	Retrieving Tarnished Daguerreotype Content Using X-ray Fluorescence Imaging Recent Observations on the Effect of Chemical and Electrochemical Cleaning Methods. <i>Heritage</i> , 2021 , 4, 1605-1615	16	0
225	Hierarchical Co(OH) ₂ /FeOOH/WO ₃ ternary nanoflowers as a dual-function enzyme with pH-switchable peroxidase and catalase mimic activities for cancer cell detection and enhanced photodynamic therapy. <i>Chemical Engineering Journal</i> , 2021 , 417, 129134	14.7	12
224	Construction of Single-Atom Platinum Catalysts Enabled by CsPbBr Nanocrystals. <i>ACS Nano</i> , 2021 ,	16.7	13
223	Direct Observation of Optical Band Gap Components in Ga _{1-x} Zn _x N _{1-x} O _x Solid-Solution Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19438-19444	3.8	
222	High Energy Resolution Fluorescence Detection of the Pt L _{3,2} -Edge Whitelines of Pt-Based Bimetallic Systems: Implications for the Pt 5d _{5/2,3/2} Density of States. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2327-2333	3.8	2
221	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006577	24	36
220	Lithium Vacancy-Tuned [CuO] Sites for Selective CO Electroreduction to C Products.. <i>Small</i> , 2021 , e2106483	4.3	3
219	Exploring the DZI Bead with Synchrotron Light: XRD, XRF Imaging and EXANES Analysis. <i>Heritage</i> , 2020 , 3, 1035-1045	1.6	1
218	Intrinsic Enzyme-like Activities of Cerium Oxide Nanocomposite and Its Application for Extracellular HO Detection Using an Electrochemical Microfluidic Device. <i>ACS Omega</i> , 2020 , 5, 11883-11894	3.9	20
217	Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020 , 20, 4384-4392	11.5	35
216	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. <i>Energy Storage Materials</i> , 2020 , 30, 238-249	19.4	21
215	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie</i> , 2020 , 132, 14419-14426	3.6	7
214	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14313-14320	16.4	32
213	Understanding the Critical Role of Binders in Phosphorus/Carbon Anode for Sodium-Ion Batteries through Unexpected Mechanism. <i>Advanced Functional Materials</i> , 2020 , 30, 2000060	15.6	15
212	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
211	CuO nanorods as a laccase mimicking enzyme for highly sensitive colorimetric and electrochemical dual biosensor: Application in living cell epinephrine analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 195, 111228	6	17
210	Phosphorene Nanosheets Exfoliated from Low-Cost and High-Quality Black Phosphorus for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7508-7515	5.6	6
209	Elucidating the Many-Body Effect and Anomalous Pt and Ni Core Level Shifts in X-ray Photoelectron Spectroscopy of Pt _n Ni Alloys. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2313-2318	3.8	10

208	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm ² /20 mAh cm ² Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , 2020 , 10, 1903753	21.8	44
207	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020 , 32, 1272-1280	9.6	8
206	Transport Properties of a Molybdenum Disulfide and Carbon Dot Nanohybrid Transistor and Its Applications as a Hg ²⁺ Aptasensor. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 635-645	4	8
205	Boosting CO ₂ Electroreduction to CH ₄ via Tuning Neighboring Single-Copper Sites. <i>ACS Energy Letters</i> , 2020 , 5, 1044-1053	20.1	154
204	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001118	15.6	25
203	Glovebox-integrated XES and XAS station for in situ studies in tender x-ray region. <i>Electronic Structure</i> , 2020 , 2, 047001	2.6	1
202	Correlative imaging of ionic transport and electronic structure in nano LiFePO electrodes. <i>Chemical Communications</i> , 2020 , 56, 984-987	5.8	4
201	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state LiBe batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 278-286	13	22
200	Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. <i>Nature Catalysis</i> , 2020 , 3, 14-22	36.5	41
199	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , 2020 , 16, e2003096	11	36
198	Molecular-layer-deposited tincone: a new hybrid organic-inorganic anode material for three-dimensional microbatteries. <i>Chemical Communications</i> , 2020 , 56, 13221-13224	5.8	4
197	Bromine, a possible marine diet indicator? A hypothesis revisited. <i>Archaeometry</i> , 2020 , 62, 1267-1279	1.6	0
196	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. <i>Nature Communications</i> , 2020 , 11, 3685	17.4	28
195	Unraveling the Origin of Moisture Stability of Halide Solid-State Electrolytes by In Situ and Operando Synchrotron X-ray Analytical Techniques. <i>Chemistry of Materials</i> , 2020 , 32, 7019-7027	9.6	27
194	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37116-37127	9.5	8
193	Bismuth Oxyhydroxide-Pt Inverse Interface for Enhanced Methanol Electrooxidation Performance. <i>Nano Letters</i> , 2020 , 20, 7751-7759	11.5	20
192	Phase Evolution of a Prenucleator for Fast Li Nucleation in All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001191	21.8	10
191	Electron-Deficient Cu Sites on Cu ₃ Ag ₁ Catalyst Promoting CO ₂ Electroreduction to Alcohols. <i>Advanced Energy Materials</i> , 2020 , 10, 2001987	21.8	43

190	Fast Charging All Solid-State Lithium Batteries Enabled by Rational Design of Dual Vertically-Aligned Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005357	15.6	13
189	Air-stable Li ₃ InCl ₆ electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2665-2671	35.4	158
188	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2480-2488	20.1	85
187	Cobalt-Doped SnS ₂ with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806724	15.6	139
186	Promoting the Transformation of Li S to Li ₂ S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901220	24	186
185	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
184	Visualization of the secondary phase in LiFePO ₄ ingots with advanced mapping techniques. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2218-2223	2.3	1
183	Recovering Past Reflections: X-Ray Fluorescence Imaging of Electrocleaned 19th Century Daguerreotypes. <i>Heritage</i> , 2019 , 2, 568-586	1.6	1
182	A Comprehensive Investigation of a Zwitterionic Ge Dimer with a 1,2-Dicationic Core. <i>Chemistry - A European Journal</i> , 2019 , 25, 14790-14800	4.8	2
181	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902125	21.8	72
180	Unveiling the Interfacial Instability of the Phosphorus/Carbon Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30763-30773	9.5	16
179	Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C ₃ products. <i>Nature Communications</i> , 2019 , 10, 4807	17.4	13
178	Zero-Thermal Quenching of Mn ²⁺ Red Luminescence via Efficient Energy Transfer from Eu ²⁺ in BaMgP ₂ O ₇ . <i>Advanced Optical Materials</i> , 2019 , 7, 1901187	8.1	49
177	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie</i> , 2019 , 131, 16579-16584	3.6	40
176	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16427-16432	16.4	113
175	Boosting the sodium storage behaviors of carbon materials in ether-based electrolyte through the artificial manipulation of microstructure. <i>Nano Energy</i> , 2019 , 66, 104177	17.1	11
174	Reaktitelbild: Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte (Angew. Chem. 46/2019). <i>Angewandte Chemie</i> , 2019 , 131, 16852-16852	3.6	
173	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4936	17.4	186

172	Eyeing the past: synchrotron μ -XANES and XRF imaging of tarnish distribution on 19th century daguerreotypes. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1679-1686	2.4	2
171	X-ray Absorption Near-Edge Structure Spectroscopy of a Stable 6-Oxoverdazyl Radical and Its Diamagnetic Precursor. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 323-328	2.8	4
170	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , 2019 , 31, e1806541	24	129
169	Chemical-to-Electricity Carbon: Water Device. <i>Advanced Materials</i> , 2018 , 30, e1707635	24	32
168	Probing the CZTS/CdS heterojunction utilizing photoelectrochemistry and x-ray absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2018 , 148, 134702	3.9	3
167	Photon-In Photon-Out Spectroscopic Techniques for Materials Analysis: Some Recent Developments 2018 , 123-136		3
166	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. <i>Small Methods</i> , 2018 , 2, 1700341	12.8	44
165	High Tap Density Co and Ni Containing P2-Na _{0.66} MnO ₂ Buckyballs: A Promising High Voltage Cathode for Stable Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801898	15.6	33
164	Imaging the Surface of a Hand-Colored 19th Century Daguerreotype. <i>Applied Spectroscopy</i> , 2018 , 72, 1215-1224	3.1	2
163	Electronic behaviour of Au-Pt alloys and the 4f binding energy shift anomaly in Au bimetallics- X-ray spectroscopy studies. <i>AIP Advances</i> , 2018 , 8, 065210	1.5	25
162	Designing High-Performance Nanostructured P2-type Cathode Based on a Template-free Modified Pechini Method for Sodium-Ion Batteries. <i>ACS Omega</i> , 2018 , 3, 8309-8316	3.9	11
161	Antimony-Functionalized Phosphine-Based Photopolymer Networks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13252-13256	16.4	8
160	Dopant-induced electron localization drives CO reduction to C hydrocarbons. <i>Nature Chemistry</i> , 2018 , 10, 974-980	17.6	435
159	Exploring tarnished daguerreotypes with synchrotron light: XRF and μ XANES analysis. <i>Heritage Science</i> , 2018 , 6,	2.5	11
158	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31240-31248	9.5	125
157	Loading across the Periodic Table: Introducing 14 Different Metal Ions To Enhance Metal-Organic Framework Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30296-30305	9.5	13
156	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1654-1661	9.5	63
155	Selective atomic layer deposition of RuOx catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24397-24406	12	22

154	Imaging of Individual Eu Doped Y2O3 Sub-microspheres Using Photoluminescence Yield: An Application of Scanning Transmission X-ray Microscopy in Luminescent Materials. <i>Microscopy and Microanalysis</i> , 2018 , 24, 480-481	0.5	2
153	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018 , 9, 4614	17.4	86
152	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39794-39801	9.5	70
151	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018 , 9, 4509	17.4	123
150	Antimony-Functionalized Phosphine-Based Photopolymer Networks. <i>Angewandte Chemie</i> , 2018 , 130, 13436-13440	3.6	5
149	Recovery of Degraded-Beyond-Recognition 19 Century Daguerreotypes with Rapid High Dynamic Range Elemental X-ray Fluorescence Imaging of Mercury L Emission. <i>Scientific Reports</i> , 2018 , 8, 9565	4.9	5
148	Effects of polymer intercalation in calcium silicate hydrates on drug loading capacities and drug release kinetics: an X-ray absorption near edge structure study. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1122-1129	0.9	2
147	Scanning transmission X-ray microscopy studies of chromium hydroxide hollow spheres and nanoparticles formed by gamma radiation. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1146-1150	0.9	6
146	A bifunctional solid state catalyst with enhanced cycling stability for Na and LiO2 cells: revealing the role of solid state catalysts. <i>Energy and Environmental Science</i> , 2017 , 10, 286-295	35.4	47
145	Large-scale hollow nanoparticle identification by X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1151-1155	0.9	
144	Investigation of amorphous to crystalline phase transition of sodium titanate by X-ray absorption spectroscopy and scanning transmission X-ray microscopy. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1163-1169	0.9	2
143	Fe2O3@CNTs Anode Materials for Lithium Ion Batteries Investigated by Electron Energy Loss Spectroscopy. <i>Chemistry of Materials</i> , 2017 , 29, 3499-3506	9.6	53
142	Atomic Layer Deposited Non-Noble Metal Oxide Catalyst for Sodium-Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. <i>Advanced Functional Materials</i> , 2017 , 27, 1606662	15.6	30
141	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017 , 29, 1703764	24	91
140	Utilizing the full capacity of carbon black as anode for Na-ion batteries via solvent co-intercalation. <i>Nano Research</i> , 2017 , 10, 4378-4387	10	36
139	Cr doped ZnO nanostructures: synthesis, electronic structures, and magnetic properties. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1225-1232	0.9	2
138	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31786-31793	9.5	43
137	Enhanced Performance of P2-Na0.66(Mn0.54Co0.13Ni0.13)O2 Cathode for Sodium-Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2017 , 27, 1701870	15.6	92

136	Calcium silicate-based drug delivery systems. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 215-228	8	17
135	Medium-energy microprobe station at the SXRMB of the CLS. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 333-337	2.4	19
134	Unfolding the Anatase-to-Rutile Phase Transition in TiO ₂ Nanotubes Using X-ray Spectroscopy and Spectromicroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22079-22087	3.8	19
133	Atomic Layer Deposition of Hierarchical CNTs@FePO ₄ Architecture as a 3D Electrode for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600468	4.6	16
132	Microfluidic Synthesis and Angiogenic Activity of Ginsenoside Rg-Loaded PPF Microspheres. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1872-1882	5.5	8
131	Tracking the Local Effect of Fluorine Self-Doping in Anodic TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4623-4628	3.8	17
130	The origin of luminescence from di[4-(4-diphenylaminophenyl)phenyl]sulfone (DAPSF), a blue light emitter: an X-ray excited optical luminescence (XEOL) and X-ray absorption near edge structure (XANES) study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6406-10	3.6	2
129	Effect of ferrous ion concentration on the kinetics of radiation-induced iron-oxide nanoparticle formation and growth. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 695-708	3.6	16
128	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , 2016 , 7, 13638	17.4	1085
127	Identifying barriers to charge-carriers in the bulk and surface regions of CuZnSnS nanocrystal films by x-ray absorption fine structures (XAFSs). <i>Journal of Chemical Physics</i> , 2016 , 145, 204702	3.9	3
126	Influence of hydrogen passivation on the luminescence of Si quantum dots embedded in Si ₃ N ₄ . <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 061202	1.3	1
125	Safe and Durable High-Temperature Lithium-Sulfur Batteries via Molecular Layer Deposited Coating. <i>Nano Letters</i> , 2016 , 16, 3545-9	11.5	126
124	Pressure induced structural transformations of anatase TiO ₂ nanotubes probed by Raman spectroscopy and synchrotron X-ray diffraction. <i>RSC Advances</i> , 2016 , 6, 76142-76150	3.7	12
123	Titanium Dioxide/Lithium Phosphate Nanocomposite Derived from Atomic Layer Deposition as a High-Performance Anode for Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600369	4.6	24
122	Three-Dimensional Nanostructured Air Electrode for Sodium-Oxygen Batteries: A Mechanism Study toward the Cyclability of the Cell. <i>Chemistry of Materials</i> , 2015 , 27, 3040-3047	9.6	79
121	Tracking the transformations of mesoporous microspheres of calcium silicate hydrate at the nanoscale upon ibuprofen release: a XANES and STXM study. <i>CrystEngComm</i> , 2015 , 17, 4117-4124	3.3	8
120	2D XANES/XEOL Spectroscopy Studies of Morphology-Dependent Phase Transformation and Corresponding Luminescence from Hierarchical TiO ₂ Nanostructures. <i>Chemistry of Materials</i> , 2015 , 27, 3021-3029	9.6	20
119	Atomically precise growth of sodium titanates as anode materials for high-rate and ultralong cycle-life sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24281-24288	13	29

118	Observation of lithiation-induced structural variations in TiO ₂ nanotube arrays by X-ray absorption fine structure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 412-419	13	39
117	Tracking Drug Loading Capacities of Calcium Silicate Hydrate Carrier: A Comparative X-ray Absorption Near Edge Structures Study. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10052-9	3.4	9
116	Near-band-gap luminescence from TiO ₂ nanograss/nanotube hierarchical membranes. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 106-112	0.9	5
115	Atomic scale enhancement of metal-support interactions between Pt and ZrC for highly stable electrocatalysts. <i>Energy and Environmental Science</i> , 2015 , 8, 1450-1455	35.4	101
114	Characterization of tribofilms derived from zinc dialkyl dithiophosphate and serpentine by X-ray absorption spectroscopy. <i>Tribology International</i> , 2014 , 73, 167-176	4.9	8
113	Photon-in/photon-out spectroscopic techniques for materials analysis: some recent developments. <i>Advanced Materials</i> , 2014 , 26, 7896-901	24	21
112	Lithium-Ion Batteries: Rational Design of Atomic-Layer-Deposited LiFePO ₄ as a High-Performance Cathode for Lithium-Ion Batteries (Adv. Mater. 37/2014). <i>Advanced Materials</i> , 2014 , 26, 6358-6358	24	5
111	Magnetic anisotropy induced in NiCo granular nanostructures by ZnO nanorods deposited on a polymer substrate. <i>RSC Advances</i> , 2014 , 4, 47987-47991	3.7	3
110	Atomic layer deposited coatings to significantly stabilize anodes for Li ion batteries: effects of coating thickness and the size of anode particles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2306	13	63
109	Tailoring interactions of carbon and sulfur in LiS battery cathodes: significant effects of carbon-heteroatom bonds. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12866	13	65
108	Nanoscale stabilization of Li-Sulfur batteries by atomic layer deposited Al ₂ O ₃ . <i>RSC Advances</i> , 2014 , 4, 27126	3.7	33
107	On rechargeability and reaction kinetics of sodium-air batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3747-3757	35.4	132
106	Rational design of atomic-layer-deposited LiFePO ₄ as a high-performance cathode for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 6472-7	24	138
105	TiSi ₂ O _x Coated N-Doped Carbon Nanotubes as Pt Catalyst Support for the Oxygen Reduction Reaction in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15457-15467	3.8	43
104	Hierarchical nanostructured core-shell Sn@C nanoparticles embedded in graphene nanosheets: spectroscopic view and their application in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3535-42	3.6	104
103	Characterization of Tribofilms Generated from Serpentine and Commercial Oil Using X-ray Absorption Spectroscopy. <i>Tribology Letters</i> , 2013 , 50, 287-297	2.8	12
102	Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20260-20267	3.8	106
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