

# Tsun-Kong Sham

## List of Publications by Citations

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97  
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256  
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13,122  
ext. citations

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6.25  
L-index

#	Paper	IF	Citations
243	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , <b>2016</b> , 7, 13638	17.4	1085
242	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	589
241	Dopant-induced electron localization drives CO reduction to C hydrocarbons. <i>Nature Chemistry</i> , <b>2018</b> , 10, 974-980	17.6	435
240	Layer by layer assembly of sandwiched graphene/SnO <sub>2</sub> nanorod/carbon nanostructures with ultrahigh lithium ion storage properties. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2900	35.4	318
239	Nitrogen Doping Effects on Carbon Nanotubes and the Origin of the Enhanced Electrocatalytic Activity of Supported Pt for Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3769-3776	3.8	211
238	Promoting the Transformation of Li <sub>2</sub> S to Li <sub>2</sub> S <sub>2</sub> : Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901220	24	186
237	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , <b>2019</b> , 10, 4936	17.4	186
236	LiFePO <sub>4</sub> /graphene as a superior cathode material for rechargeable lithium batteries: impact of stacked graphene and unfolded graphene. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1521	35.4	183
235	Origin of luminescence from porous silicon deduced by synchrotron-light-induced optical luminescence. <i>Nature</i> , <b>1993</b> , 363, 331-334	50.4	180
234	Air-stable Li <sub>3</sub> InCl <sub>6</sub> electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2665-2671	35.4	158
233	Boosting CO <sub>2</sub> Electroreduction to CH <sub>4</sub> via Tuning Neighboring Single-Copper Sites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1044-1053	20.1	154
232	Tuning the electronic behavior of Au nanoparticles with capping molecules. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 736-738	3.4	146
231	Cobalt-Doped SnS <sub>2</sub> with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806724	15.6	139
230	Rational design of atomic-layer-deposited LiFePO <sub>4</sub> as a high-performance cathode for lithium-ion batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 6472-7	24	138
229	On rechargeability and reaction kinetics of sodium-air batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3747-3757	35.4	132
228	L-edge x-ray-absorption systematics of the noble metals Rh, Pd, and Ag and the main-group metals In and Sn: A study of the unoccupied density of states in 4d elements. <i>Physical Review B</i> , <b>1985</b> , 31, 1888-1902	3.3	129
227	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806541	24	129

226	Discharge product morphology and increased charge performance of lithium-oxygen batteries with graphene nanosheet electrodes: the effect of sulphur doping. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20170		127
225	Safe and Durable High-Temperature Lithium-Sulfur Batteries via Molecular Layer Deposited Coating. <i>Nano Letters</i> , <b>2016</b> , 16, 3545-9	11.5	126
224	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31240-31248	9.5	125
223	Defect-Rich Crystalline SnO <sub>2</sub> Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22149-22156	3.8	125
222	Synthesis and synchrotron light-induced luminescence of ZnO nanostructures: nanowires, nanoneedles, nanoflowers, and tubular whiskers. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3120-5	3.4	123
221	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , <b>2018</b> , 9, 4509	17.4	123
220	Charge redistribution and electronic behavior in a series of Au-Cu alloys. <i>Physical Review B</i> , <b>1994</b> , 49, 1647-1661	3.3	114
219	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16427-16432	16.4	113
218	Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20260-20267	3.8	106
217	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> , <b>2013</b> , 15, 3535-42	3.6	104
216	Atomic scale enhancement of metal-support interactions between Pt and ZrC for highly stable electrocatalysts. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1450-1455	35.4	101
215	Soft X-ray XANES studies of various phases related to LiFePO <sub>4</sub> based cathode materials. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7007	35.4	101
214	Charge redistribution in Au-Ag alloys from a local perspective. <i>Physical Review B</i> , <b>1992</b> , 45, 8924-8928	3.3	95
213	Time-resolved x-ray excited optical luminescence from SnO <sub>2</sub> nanoribbons: Direct evidence for the origin of the blue luminescence and the role of surface states. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 213109	3.4	93
212	Enhanced Performance of P2-Na <sub>0.66</sub> (Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> )O <sub>2</sub> Cathode for Sodium-Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701870	15.6	92
211	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703764	24	91
210	Interaction between Pt nanoparticles and carbon nanotubes: An X-ray absorption near edge structures (XANES) study. <i>Chemical Physics Letters</i> , <b>2007</b> , 437, 229-232	2.5	91
209	Electronic structure and optical properties of silicon nanowires: A study using x-ray excited optical luminescence and x-ray emission spectroscopy. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	89

208	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , <b>2018</b> , 9, 4614	17.4	86
207	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2480-2488	20.1	85
206	Surface aging at olivine LiFePO <sub>4</sub> : a direct visual observation of iron dissolution and the protection role of nano-carbon coating. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1579-1586	13	84
205	Three-Dimensional Nanostructured Air Electrode for Sodium-Oxygen Batteries: A Mechanism Study toward the Cyclability of the Cell. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3040-3047	9.6	79
204	X-ray Excited Optical Luminescence Studies of ZnO and Eu-Doped ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10194-10200	3.8	79
203	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902125	21.8	72
202	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39794-39801	9.5	70
201	Commissioning and performance of the variable line spacing plane grating monochromator beamline at the Canadian Light Source. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 083109	1.7	66
200	Tailoring interactions of carbon and sulfur in LiS battery cathodes: significant effects of carbon-heteroatom bonds. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12866	13	65
199	Commissioning of the Spherical Grating Monochromator Soft X-ray Spectroscopy Beamline at the Canadian Light Source. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	64
198	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> , <b>2014</b> , 2, 2306	13	63
197	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1654-1661	9.5	63
196	Electronic structure of TiO <sub>2</sub> nanotube arrays from X-ray absorption near edge structure studies. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6804		61
195	Preliminary Commissioning and Performance of the Soft X-ray Micro-characterization Beamline at the Canadian Light Source <b>2010</b> ,		61
194	Proto-Calcite and Proto-Vaterite in Amorphous Calcium Carbonates. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9073-9075	3.6	61
193	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1900261	12.8	60
192	Observation of Single Tin Dioxide Nanoribbons by Confocal Raman Microspectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18839-18843	3.8	58
191	Nano-scale chemical imaging of a single sheet of reduced graphene oxide. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14622		57

190	Origin of luminescence from Ga <sub>2</sub> O <sub>3</sub> nanostructures studied using x-ray absorption and luminescence spectroscopy. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	54
189	Fe <sub>2</sub> O <sub>3</sub> @CNTs Anode Materials for Lithium Ion Batteries Investigated by Electron Energy Loss Spectroscopy. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3499-3506	9.6	53
188	Immobilization of RuO <sub>2</sub> on Carbon Nanotube: An X-ray Absorption Near-Edge Structure Study. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10747-10750	3.8	52
187	Time-resolved synchrotron radiation excited optical luminescence: light-emission properties of silicon-based nanostructures. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2557-67	3.2	51
186	Electronic Structure of Graphdiyne Probed by X-ray Absorption Spectroscopy and Scanning Transmission X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5931-5936	3.8	50
185	Zero-Thermal Quenching of Mn <sup>2+</sup> Red Luminescence via Efficient Energy Transfer from Eu <sup>2+</sup> in BaMgP <sub>2</sub> O <sub>7</sub> . <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901187	8.1	49
184	A bifunctional solid state catalyst with enhanced cycling stability for Na and LiO <sub>2</sub> cells: revealing the role of solid state catalysts. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 286-295	35.4	47
183	Electronic structure and luminescence center of blue luminescent carbon nanocrystals. <i>Chemical Physics Letters</i> , <b>2009</b> , 474, 320-324	2.5	47
182	Size Effect of Au Nanoparticles on TiO <sub>2</sub> Crystalline Phase of Nanocomposite Thin Films and Their Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6554-6560	3.8	46
181	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm <sup>2</sup> /20 mAh cm <sup>2</sup> Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903753	21.8	44
180	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> , <b>2018</b> , 2, 1700341	12.8	44
179	Effects of in situ vacuum annealing on the surface and luminescent properties of ZnS nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 263115	3.4	44
178	TiSi <sub>2</sub> O <sub>x</sub> Coated N-Doped Carbon Nanotubes as Pt Catalyst Support for the Oxygen Reduction Reaction in PEMFCs. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15457-15467	3.8	43
177	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31786-31793	9.5	43
176	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 16251-16258	3.8	43
175	Electron-Deficient Cu Sites on Cu <sub>3</sub> Ag <sub>1</sub> Catalyst Promoting CO <sub>2</sub> Electroreduction to Alcohols. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001987	21.8	43
174	Double sulfur vacancies by lithium tuning enhance CO electroreduction to n-propanol. <i>Nature Communications</i> , <b>2021</b> , 12, 1580	17.4	43
173	Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. <i>Nature Catalysis</i> , <b>2020</b> , 3, 14-22	36.5	41

172	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16579-16584	3.1	40
171	M3,2-edge x-ray absorption near-edge structure spectroscopy: An alternative probe to the L3,2-edge near-edge structure for the unoccupied densities of d states of 5d metals. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 7134-7138	2.5	40
170	Observation of lithiation-induced structural variations in TiO <sub>2</sub> nanotube arrays by X-ray absorption fine structure. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 412-419	13	39
169	Resonant inelastic x-ray scattering at the Ce L3 edge of CePO <sub>4</sub> and CeO <sub>2</sub> : Implications for the valence of CeO <sub>2</sub> and related phenomena. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	39
168	Microstructure and field-emission characteristics of boron-doped Si nanoparticle chains. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1673-1675	3.4	38
167	Surface reactivity of Si nanowires. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6396-6399	2.5	37
166	Utilizing the full capacity of carbon black as anode for Na-ion batteries via solvent co-intercalation. <i>Nano Research</i> , <b>2017</b> , 10, 4378-4387	10	36
165	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , <b>2020</b> , 16, e2003096	11	36
164	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006577	24	36
163	Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , <b>2020</b> , 20, 4384-4392	11.5	35
162	High Tap Density Co and Ni Containing P2-Na <sub>0.66</sub> MnO <sub>2</sub> Buckyballs: A Promising High Voltage Cathode for Stable Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801898	15.6	33
161	Nanoscale stabilization of Li <sub>2</sub> Sulfur batteries by atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 27126	3.7	33
160	Calcination-Induced Phase Transformation and Accompanying Optical Luminescence of TiO <sub>2</sub> Nanotubes: An X-ray Absorption Near-Edge Structures and X-ray Excited Optical Luminescence Study. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21353-21359	3.8	33
159	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14313-14320	16.4	32
158	Chemical-to-Electricity Carbon: Water Device. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707635	24	32
157	Structural variation and water adsorption of a SnO <sub>2</sub> coated carbon nanotube: a nanoscale chemical imaging study. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5944		32
156	Observation of Surface/Defect States of SnO <sub>2</sub> Nanowires on Different Substrates from X-ray Excited Optical Luminescence. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 397-402	3.5	31
155	Tracking the Interface of an Individual ZnS/ZnO Nano-Heterostructure. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10375-10381	3.8	31

154	The origin and dynamics of soft X-ray-excited optical luminescence of ZnO. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3625-31	3.2	31
153	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> , <b>2017</b> , 27, 1606662	15.6	30
152	Optical emission of biaxial ZnO-ZnS nanoribbon heterostructures. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 084707	3.9	30
151	Nanostructured CdS prepared on porous silicon substrate: Structure, electronic, and optical properties. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 6038-6043	2.5	30
150	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> , <b>2015</b> , 3, 24281-24288	13	29
149	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. <i>Nature Communications</i> , <b>2020</b> , 11, 3685	17.4	28
148	Electronic Structures and Optical Properties of 6H- and 3C-SiC Microstructures and Nanostructures from X-ray Absorption Fine Structures, X-ray Excited Optical Luminescence, and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6966-6975	3.8	27
147	Biaxial ZnO-ZnS Nanoribbon Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4755-4757	3.8	27
146	Influence of sample oxidation on the nature of optical luminescence from porous silicon. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 498-500	3.4	27
145	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> , <b>2020</b> , 32, 7019-7027	9.6	27
144	Atomic layer deposited aluminium phosphate thin films on N-doped CNTs. <i>RSC Advances</i> , <b>2013</b> , 3, 4492	3.7	26
143	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001118	15.6	25
142	Electronic behaviour of Au-Pt alloys and the 4f binding energy shift anomaly in Au bimetallics- X-ray spectroscopy studies. <i>AIP Advances</i> , <b>2018</b> , 8, 065210	1.5	25
141	Electronic structure of Au <sub>3</sub> Ni intermetallics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1993</b> , 11, 2153-2157	2.9	24
140	Titanium Dioxide/Lithium Phosphate Nanocomposite Derived from Atomic Layer Deposition as a High-Performance Anode for Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600369	4.6	24
139	Unveiling the Nature of Pt Single-Atom Catalyst during Electrocatalytic Hydrogen Evolution and Oxygen Reduction Reactions. <i>Small</i> , <b>2021</b> , 17, e2007245	11	24
138	Determination of the local structure of luminescent sites in ZnS nanowires using x-ray excited optical luminescence. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 253105	3.4	23
137	VLS-PGM Beamline at the Canadian Light Source. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	22

- 136 Anisotropic x-ray absorption effects in the optical luminescence yield of ZnO nanostructures. *Applied Physics Letters*, **2006**, 89, 093118 3.4 22
- 135 Fabrication of thiol-capped Pd nanoparticles: An electrochemical method. *Applied Physics Letters*, **2003**, 82, 1778-1780 3.4 22
- 134 Photoluminescence imaging of porous silicon using a confocal scanning laser microscope/microscope. *Applied Physics Letters*, **1995**, 66, 2321-2323 3.4 22
- 133 A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state LiSe batteries. *Journal of Materials Chemistry A*, **2020**, 8, 278-286 13 22
- 132 Ultra-Bright and Stable Pure Blue Light-Emitting Diode from O, N Co-Doped Carbon Dots. *Laser and Photonics Reviews*, **2021**, 15, 2000412 8.3 22
- 131 Selective atomic layer deposition of RuOx catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. *Journal of Materials Chemistry A*, **2018**, 6, 24397-24406 12 22
- 130 Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. *Energy Storage Materials*, **2020**, 30, 238-249 19.4 21
- 129 Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. *Advanced Energy Materials*, **2020**, 10, 2001139 21.8 21
- 128 Photon-in/photon-out spectroscopic techniques for materials analysis: some recent developments. *Advanced Materials*, **2014**, 26, 7896-901 24 21
- 127 2D XANES/EOL Spectroscopy Studies of Morphology-Dependent Phase Transformation and Corresponding Luminescence from Hierarchical TiO2 Nanostructures. *Chemistry of Materials*, **2015**, 27, 3021-3029 9.6 20
- 126 Intrinsic Enzyme-like Activities of Cerium Oxide Nanocomposite and Its Application for Extracellular HO Detection Using an Electrochemical Microfluidic Device. *ACS Omega*, **2020**, 5, 11883-11894 3.9 20
- 125 Visible Emission from GeO2 Nanowires: Site-Specific Insights via X-ray Excited Optical Luminescence. *Journal of Physical Chemistry C*, **2012**, 116, 14163-14169 3.8 20
- 124 The effect of thermal oxidation on the luminescence properties of nanostructured silicon. *Small*, **2012**, 8, 2371-80 11 20
- 123 Bismuth Oxyhydroxide-Pt Inverse Interface for Enhanced Methanol Electrooxidation Performance. *Nano Letters*, **2020**, 20, 7751-7759 11.5 20
- 122 Unfolding the Anatase-to-Rutile Phase Transition in TiO2 Nanotubes Using X-ray Spectroscopy and Spectromicroscopy. *Journal of Physical Chemistry C*, **2016**, 120, 22079-22087 3.8 19
- 121 Medium-energy microprobe station at the SXRMB of the CLS. *Journal of Synchrotron Radiation*, **2017**, 24, 333-337 2.4 19
- 120 2D XAFS/EOL Mapping of Ga1-xZnxN1-xOx Nanostructured Solid Solutions. *Journal of Physical Chemistry C*, **2011**, 115, 20507-20514 3.8 18
- 119 Multichannel detection x-ray absorption near edge structures study on the structural characteristics of dendrimer-stabilized CdS quantum dots. *Journal of Applied Physics*, **2001**, 90, 2755-2759 3.5 18



118	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , <b>2021</b> , 12, 6806	17.4	18
117	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> , <b>2020</b> , 195, 111228	6	17
116	Tracking the Local Effect of Fluorine Self-Doping in Anodic TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 4623-4628	3.8	17
115	Calcium silicate-based drug delivery systems. <i>Expert Opinion on Drug Delivery</i> , <b>2017</b> , 14, 215-228	8	17
114	Synchrotron x-ray fluorescence and secondary ion mass spectrometry in tree ring microanalysis: applications to dendroanalysis. <i>X-Ray Spectrometry</i> , <b>2001</b> , 30, 338-341	0.9	17
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112	Atomic Layer Deposition of Hierarchical CNTs@FePO <sub>4</sub> Architecture as a 3D Electrode for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600468	4.6	16
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