

# Yuzi Liu

## List of Publications by Citations

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187  
papers

6,308  
citations

39  
h-index

72  
g-index

199  
ext. papers

7,777  
ext. citations

10.7  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
187	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. <i>Nature Energy</i> , <b>2018</b> , 3, 739-746	62.3	466
186	Making Li-metal electrodes rechargeable by controlling the dendrite growth direction. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	260
185	Morphological and crystalline evolution of nanostructured MnO <sub>2</sub> and its application in lithium-air batteries. <i>ACS Nano</i> , <b>2012</b> , 6, 8067-77	16.7	239
184	Nanostructured Black Phosphorus/Ketjenblack-Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. <i>Nano Letters</i> , <b>2016</b> , 16, 3955-65	11.5	208
183	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. <i>Nature Energy</i> , <b>2019</b> , 4, 484-494	62.3	190
182	Facet-dependent active sites of a single Cu <sub>2</sub> O particle photocatalyst for CO <sub>2</sub> reduction to methanol. <i>Nature Energy</i> , <b>2019</b> , 4, 957-968	62.3	170
181	In situ visualization of self-assembly of charged gold nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3764-7	16.4	164
180	Highly selective electrocatalytic CO <sub>2</sub> reduction to ethanol by metallic clusters dynamically formed from atomically dispersed copper. <i>Nature Energy</i> , <b>2020</b> , 5, 623-632	62.3	159
179	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. <i>Nature Materials</i> , <b>2015</b> , 14, 215-23	27	155
178	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , <b>2016</b> , 16, 2812-7	11.5	148
177	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. <i>ACS Nano</i> , <b>2015</b> , 9, 8194-205	16.7	144
176	Understanding Pt Nanoparticle Anchoring on Graphene Supports through Surface Functionalization. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2642-2653	13.1	133
175	Enhancing the Photon- and Gas-Sensing Properties of a Single SnO <sub>2</sub> Nanowire Based Nanodevice by Nanoparticle Surface Functionalization. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11539-11544	3.8	121
174	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1677-1693	35.4	111
173	Elastic Properties and Buckling of Silicon Nanowires. <i>Advanced Materials</i> , <b>2008</b> , 20, 3919-3923	24	108
172	Ambient-stable tetragonal phase in silver nanostructures. <i>Nature Communications</i> , <b>2012</b> , 3, 971	17.4	106
171	Nanostructured TiO <sub>2</sub> /Polypyrrole for Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15540-15544	3.8	102

170	Superstructures generated from truncated tetrahedral quantum dots. <i>Nature</i> , <b>2018</b> , 561, 378-382	50.4	98
169	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 1512-1519	15.1	93
168	Li <sub>2</sub> S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18026-18032	13	86
167	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. <i>Materials Research Letters</i> , <b>2015</b> , 3, 203-209	7.4	84
166	Efficient photocatalytic H <sub>2</sub> production via rational design of synergistic spatially-separated dual cocatalysts modified Mn <sub>0.5</sub> Cd <sub>0.5</sub> S photocatalyst under visible light irradiation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 480-487	14.7	69
165	Lead-Free CsCuSbCl Layered Double Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11927-11936	16.4	66
164	Visualization of the magnetic structure of sculpted three-dimensional cobalt nanospirals. <i>Nano Letters</i> , <b>2014</b> , 14, 759-64	11.5	62
163	Synthesis of Sm <sub>2</sub> O <sub>3</sub> and Sm <sub>2</sub> O <sub>3</sub> /Fe nanocrystals by reductive annealing of nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 2132-2136	5.7	51
162	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. <i>ACS Nano</i> , <b>2016</b> , 10, 3738-46	16.7	49
161	Hollow Silicon Nanospheres Encapsulated with a Thin Carbon Shell: An Electrochemical Study. <i>Electrochimica Acta</i> , <b>2016</b> , 215, 126-141	6.7	47
160	Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24715-24724	9.5	47
159	Hierarchical polybenzimidazole-grafted graphene hybrids as supports for Pt nanoparticle catalysts with excellent PEMFC performance. <i>Nano Energy</i> , <b>2015</b> , 16, 281-292	17.1	46
158	PVP-Assisted Synthesis of Uniform Carbon Coated Li <sub>2</sub> S/CB for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25748-56	9.5	46
157	Photoinduced electron transfer pathways in hydrogen-evolving reduced graphene oxide-boosted hybrid nano-bio catalyst. <i>ACS Nano</i> , <b>2014</b> , 8, 7995-8002	16.7	46
156	Highly Asymmetric, Interfaced Dimers Made of Au Nanoparticles and Bimetallic Nanoshells: Synthesis and Photo-Enhanced Catalysis. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2828-2836	15.6	44
155	Evolution of self-assembled ZnTe magic-sized nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 742-9	16.4	43
154	Hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over supported Pt <sub>2</sub> O bimetallic catalysts under mild conditions. <i>Green Chemistry</i> , <b>2018</b> , 20, 2894-2902	10	43
153	X-ray micro-beam characterization of lattice rotations and distortions due to an individual dislocation. <i>Nature Communications</i> , <b>2013</b> , 4, 2774	17.4	42

152	Solid-State Lithium/SeleniumSulfur Chemistry Enabled via a Robust Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802235	21.8	42
151	LiNiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12613-12619	16.4	41
150	Quantifying the Nucleation and Growth Kinetics of Microwave Nanochemistry Enabled by in Situ High-Energy X-ray Scattering. <i>Nano Letters</i> , <b>2016</b> , 16, 715-20	11.5	41
149	Revealing mechanism responsible for structural reversibility of single-crystal VO <sub>2</sub> nanorods upon lithiation/delithiation. <i>Nano Energy</i> , <b>2017</b> , 36, 197-205	17.1	40
148	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. <i>Nature Materials</i> , <b>2020</b> , 19, 712-718	27	39
147	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E131	2.5	39
146	Magnetoresistance and anomalous Hall effect in magnetic ZnO films. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 063918	2.5	39
145	Highly Reversible Sodiation/Desodiation from a Carbon-Sandwiched SnS Nanosheet Anode for Sodium Ion Batteries. <i>Nano Letters</i> , <b>2020</b> , 20, 3844-3851	11.5	37
144	Variability and origins of grain boundary electric potential detected by electron holography and atom-probe tomography. <i>Nature Materials</i> , <b>2020</b> , 19, 887-893	27	37
143	Atomic layer deposited Pt-Co bimetallic catalysts for selective hydrogenation of $\alpha,\beta$ -unsaturated aldehydes to unsaturated alcohols. <i>Journal of Catalysis</i> , <b>2018</b> , 366, 61-69	7.3	37
142	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. <i>Nano Letters</i> , <b>2018</b> , 18, 336-346	11.5	37
141	Birnessite-type MnO <sub>2</sub> nanosheets with layered structures under high pressure: elimination of crystalline stacking faults and oriented laminar assembly. <i>Small</i> , <b>2015</b> , 11, 300-5	11	36
140	Material Dimensionality Effects on Electron Transfer Rates Between CsPbBr and CdSe Nanoparticles. <i>Nano Letters</i> , <b>2018</b> , 18, 4771-4776	11.5	36
139	Li-ion battery material under high pressure: amorphization and enhanced conductivity of LiTiO. <i>National Science Review</i> , <b>2019</b> , 6, 239-246	10.8	35
138	An All-Ceramic, Anisotropic, and Flexible Aerogel Insulation Material. <i>Nano Letters</i> , <b>2020</b> , 20, 3828-3835	11.5	33
137	Electron beam induced evolution in Au, Ag, and interfaced heterogeneous Au/Ag nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 13687-93	7.7	32
136	A Low-Current and Analog Memristor with Ru as Mobile Species. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904599	24	32
135	A practical phosphorus-based anode material for high-energy lithium-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 74, 104849	17.1	32

134	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 6013-6021	16.4	31
133	Microstructure analysis of a SmCo/Fe exchange spring bilayer. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 192502	3.4	30
132	In Situ Focused Ion Beam Scanning Electron Microscope Study of Microstructural Evolution of Single Tin Particle Anode for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1733-1738	8.5	30
131	Polyvinylpyrrolidone (PVP)-Capped Pt Nanocubes with Superior Peroxidase-Like Activity. <i>ChemNanoMat</i> , <b>2017</b> , 3, 33-38	3.5	29
130	Enhanced spin signals due to native oxide formation in Ni <sub>80</sub> Fe <sub>20</sub> /Ag lateral spin valves. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 112502	3.4	29
129	H <sub>3</sub> PO <sub>4</sub> treatment to enhance the electrochemical properties of Li(Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> and Li(Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> )O <sub>2</sub> cathodes. <i>Electrochimica Acta</i> , <b>2019</b> , 301, 8-22	6.7	28
128	Semi-artificial Photosynthetic CO Reduction through Purple Membrane Re-engineering with Semiconductor. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11811-11815	16.4	26
127	Synthesis and performance of nanostructured silicon/graphite composites with a thin carbon shell and engineered voids. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 274-283	6.7	26
126	Perpendicular anisotropy dependence of oscillatory interlayer coupling behavior in [Pt/Co] <sub>5</sub> /Ru/[Co/Pt] <sub>5</sub> multilayers. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 023911	2.5	25
125	Enhanced hardness in B-doped ZnO thin films on fused quartz substrates by pulsed-laser deposition. <i>Applied Surface Science</i> , <b>2006</b> , 253, 726-729	6.7	25
124	Li-Substituted Layered Spinel Cathode Material for Sodium Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8145-8154	9.6	25
123	Bottom-up, hard template and scalable approaches toward designing nanostructured Li <sub>2</sub> S for high performance lithium sulfur batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 18071-80	7.7	24
122	Investigations of Si Thin Films as Anode of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3487-3494	9.5	24
121	Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 14540-14548	16.7	24
120	Mesoporous Colloidal Superparticles of Platinum-Group Nanocrystals with Surfactant-Free Surfaces and Enhanced Heterogeneous Catalysis. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1638-1647	15.6	23
119	Elevated Temperature Photophysical Properties and Morphological Stability of CdSe and CdSe/CdS Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 286-293	6.4	23
118	Do thermal fluctuations influence the recoil loops of nanocomposite magnets?. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 042508	3.4	23
117	Disket-Nanorings of K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> Formed by Self-Spiraling of a Nanobelt. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 7547-7551	3.8	22

116	Ultrafine Pt cluster and RuO <sub>2</sub> heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 316-324	10.8	22
115	Oxidation Studies of High-Entropy Alloy Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 15131-15143	16.7	22
114	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. <i>Nano Letters</i> , <b>2016</b> , 16, 3738-47	11.5	22
113	Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations. <i>Nano Letters</i> , <b>2017</b> , 17, 953-962	11.5	21
112	Photoinitiated [corrected] charge separation in a hybrid titanium dioxide metalloporphyrin peptide material. <i>Nature Communications</i> , <b>2014</b> , 5, 4606	17.4	21
111	Kinetic pathway of palladium nanoparticle sulfidation process at high temperatures. <i>Nano Letters</i> , <b>2013</b> , 13, 4893-901	11.5	21
110	Disordered 3 D Multi-layer Graphene Anode Material from CO <sub>2</sub> for Sodium-Ion Batteries. <i>ChemSusChem</i> , <b>2016</b> , 9, 1397-402	8.3	21
109	A revisit to atomic layer deposition of zinc oxide using diethylzinc and water as precursors. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 5236-5248	4.3	21
108	Selenium Nanocomposite Cathode with Long Cycle Life for Rechargeable Lithium-Selenium Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 784-791	5.6	20
107	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , <b>2020</b> , 11, 6373	17.4	20
106	A mechanistic study of mesoporous TiO <sub>2</sub> nanoparticle negative electrode materials with varying crystallinity for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3333-3343	13	20
105	Silicon compatible Sn-based resistive switching memory. <i>Nanoscale</i> , <b>2018</b> , 10, 9441-9449	7.7	20
104	Glancing-incidence focussed ion beam milling: A coherent X-ray diffraction study of 3D nano-scale lattice strains and crystal defects. <i>Acta Materialia</i> , <b>2018</b> , 154, 113-123	8.4	20
103	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. <i>Nanoscale</i> , <b>2014</b> , 6, 15216-21	7.7	20
102	Insight into the Structural Evolution of a High-Voltage Spinel for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4750-4756	9.6	20
101	Silicon Nanoparticles: Stability in Aqueous Slurries and the Optimization of the Oxide Layer Thickness for Optimal Electrochemical Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32727-32736	9.5	20
100	Novel chemoresistive CH <sub>4</sub> sensor with 10 ppm sensitivity based on multiwalled carbon nanotubes functionalized with SnO <sub>2</sub> nanocrystals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 01A131	2.9	20
99	High-Performance High-Loading Lithium Sulfur Batteries by Low Temperature Atomic Layer Deposition of Aluminum Oxide on Nanophase S Cathodes. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700096	4.6	19

98	Stabilized Electrode/Electrolyte Interphase by a Saturated Ionic Liquid Electrolyte for High-Voltage NMC532/Si-Graphite Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23035-23045	9.5	19
97	Synthesis of uniformly distributed single- and double-sided zinc oxide (ZnO) nanocombs. <i>Journal of Crystal Growth</i> , <b>2015</b> , 430, 34-40	1.6	18
96	Improved cyclability of a lithium-sulfur battery using POP-sulfur composite materials. <i>RSC Advances</i> , <b>2014</b> , 4, 27518-27521	3.7	18
95	Effect of hydrogen flow during cooling phase to achieve uniform and repeatable growth of bilayer graphene on copper foils over large area. <i>Carbon</i> , <b>2014</b> , 77, 341-350	10.4	18
94	Boosting Superior Lithium Storage Performance of Alloy-Based Anode Materials via Ultraconformal Sb Coating-Derived Favorable Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903186	21.8	18
93	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> , <b>2020</b> , 8, 750-759	13	17
92	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 547-556	20.1	17
91	Amorphous boron nanorod as an anode material for lithium-ion batteries at room temperature. <i>Nanoscale</i> , <b>2017</b> , 9, 10757-10763	7.7	16
90	Magnetic Damping Modulation in IrMn <sub>3</sub> /Ni <sub>80</sub> Fe <sub>20</sub> via the Magnetic Spin Hall Effect. <i>Physical Review Letters</i> , <b>2020</b> , 124, 087204	7.4	16
89	Capacity Fading Mechanism and Improvement of Cycling Stability of the SiO Anode for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2102-A2107	3.9	16
88	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> heterostructures. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 055001	3	16
87	Fabrication and characterization of high quality n-ZnO/p-GaN heterojunction light emission diodes. <i>Thin Solid Films</i> , <b>2011</b> , 520, 445-447	2.2	16
86	In Situ Small-Angle X-ray Scattering from Pd Nanoparticles Formed by Thermal Decomposition of Organo-Pd Catalyst Precursors Dissolved in Hydrocarbons. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22627-22635	3.8	15
85	A novel multifunctional NiTi/Ag hierarchical composite. <i>Scientific Reports</i> , <b>2014</b> , 4, 5267	4.9	15
84	Effects of elemental distributions on the behavior of MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 103909	2.5	15
83	Effect of annealing and applied bias on barrier shape in CoFe/MgO/CoFe tunnel junctions. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	15
82	Co location and valence state determination in ferromagnetic ZnO:Co thin films by atom-location-by-channeling-enhanced-microanalysis electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 154101	3.4	15
81	Amorphous and crystalline TiO <sub>2</sub> nanoparticle negative electrodes for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 321, 134723	6.7	14

80	Tunable LiAlO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Coating through a Wet-Chemical Method To Improve Cycle Stability of Nano-LiCoO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3098-3113	6.1	13
79	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> , <b>2019</b> , 2, 2441-2446	6.1	13
78	Dynamic Lithium Intercalation/Deintercalation in 18650 Lithium Ion Battery by Time-Resolved High Energy Synchrotron X-Ray Diffraction. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2195-A2200	3.9	13
77	Nanocrystallization in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3617-3621	3.8	13
76	Interfacial control of LaAlO <sub>3</sub> films deposited on Si (100) using a thin LaAlSiO <sub>5</sub> silicate film as the barrier layer. <i>Thin Solid Films</i> , <b>2006</b> , 515, 2722-2725	2.2	13
75	Tunable room-temperature ferromagnetism in Co-doped two-dimensional van der Waals ZnO. <i>Nature Communications</i> , <b>2021</b> , 12, 3952	17.4	13
74	Hydrogen bonding directed co-assembly of polyoxometalates and polymers to core-shell nanoparticles. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2070-2075	7.8	13
73	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16200-16208	9.5	12
72	Effect of proton irradiation on anatase TiO <sub>2</sub> nanotube anodes for lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 13221-13235	4.3	12
71	Enhanced magnetoresistance in naturally oxidized MgO-based magnetic tunnel junctions with ferromagnetic CoFe/CoFeB bilayers. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 232506	3.4	12
70	Spatial and Temporal Analysis of Sodium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 4023-4054	20.1	12
69	Synthesis of Highly Dispersed and Highly Stable Supported AuPt Bimetallic Catalysts by a Two-Step Method. <i>Catalysis Letters</i> , <b>2016</b> , 146, 2606-2613	2.8	11
68	Structure-property relationships in self-assembled metalorganic chemical vapor deposition-grown CoFe <sub>2</sub> O <sub>4</sub> @TiO <sub>3</sub> multiferroic nanocomposites using three-dimensional characterization. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 034103	2.5	11
67	Rapid photoresponse of single-crystalline selenium nanobelts. <i>Solid State Communications</i> , <b>2008</b> , 148, 145-147	1.6	11
66	Inversion domain boundary in a ZnO film. <i>Philosophical Magazine Letters</i> , <b>2007</b> , 87, 687-693	1	11
65	In Situ Construction of an Ultrarobust and Lithiophilic Li-Enriched Li <sub>2</sub> N Nanoshield for High-Performance Ge-Based Anode Materials. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3490-3497	20.1	11
64	Strain Recovery and Defect Characterization in Mg-Implanted Homoepitaxial GaN on High-Quality GaN Substrates. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900705	1.3	10
63	A stable rhodium single-site catalyst encapsulated within dendritic mesoporous nanochannels. <i>Nanoscale</i> , <b>2018</b> , 10, 1047-1055	7.7	10



62	Synergistic Multisites FeMoS Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. <i>ACS Nano</i> , <b>2021</b> , 15, 16887-16895	16.7	10
61	Carbon Free and Noble Metal Free Ni <sub>2</sub> Mo <sub>6</sub> S <sub>8</sub> Electrocatalyst for Selective Electrosynthesis of H <sub>2</sub> O <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104716	15.6	10
60	Revealing Sintering Kinetics of MoS-Supported Metal Nanocatalysts in Atmospheric Gas Environments Transmission Electron Microscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 4074-4086	16.7	9
59	In situ TEM study of reversible and irreversible electroforming in Pt/Ti:NiO/Pt heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 301-306	2.5	9
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