

Yuzi Liu

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.

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	Native lattice strain induced structural earthquake in sodium layered oxide cathodes.. <i>Nature Communications</i> , 2022 , 13, 436	17.4	3
186	Thermal dynamics of P2-Na _{0.67} Ni _{0.33} Mn _{0.67} O ₂ cathode materials for sodium ion batteries studied by in situ analysis. <i>Journal of Materials Research</i> , 2022 , 37, 1156-1163	2.5	1
185	Electrochemically induced amorphous-to-rock-salt phase transformation in niobium oxide electrode for Li-ion batteries.. <i>Nature Materials</i> , 2022 ,	27	8
184	Synergistic Multisites FeMoS Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. <i>ACS Nano</i> , 2021 , 15, 16887-16895	16.7	10
183	Spatial and Temporal Analysis of Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 4023-4054	20.1	12
182	Synergistics of FeC and Fe on Mesoporous Fe-N-C Sulfur Host for Nearly Complete and Fast Lithium Polysulfide Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17791-17799	9.5	2
181	Silicon Microreactor as a Fast Charge, Long Cycle Life Anode with High Initial Coulombic Efficiency Synthesized via a Scalable Method. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4744-4757	6.1	1
180	Tunable room-temperature ferromagnetism in Co-doped two-dimensional van der Waals ZnO. <i>Nature Communications</i> , 2021 , 12, 3952	17.4	13
179	Study of Functional Materials by Correlative Electron and Synchrotron X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 364-366	0.5	
178	Operando Investigation of Energy Storage Material by FIB-SEM System. <i>Microscopy and Microanalysis</i> , 2021 , 27, 440-442	0.5	
177	Selective volatile organic compound gas sensor based on carbon nanotubes functionalized with ZnO nanoparticles. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021 , 39, 042803	1.3	2
176	A Unified test for the Intercept of a Predictive Regression Model*. <i>Oxford Bulletin of Economics and Statistics</i> , 2021 , 83, 571-588	2.5	0
175	The effect of annealing on optical transmittance and structure of ZLANI fluorozirconate glass thin films. <i>Micron</i> , 2021 , 140, 102977	2.3	0
174	Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. <i>Nano Letters</i> , 2021 , 21, 1288-1294	11.5	4
173	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
172	Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles Transmission Electron Microscopy. <i>Nano Letters</i> , 2021 , 21, 1742-1748	11.5	8
171	Carbon Free and Noble Metal Free Ni ₂ Mo ₆ S ₈ Electrocatalyst for Selective Electrosynthesis of H ₂ O ₂ . <i>Advanced Functional Materials</i> , 2021 , 31, 2104716	15.6	10

170	One-Step Chemical Vapor Deposition Synthesis of Hierarchical Ni and N Co-Doped Carbon Nanosheet/Nanotube Hybrids for Efficient Electrochemical CO ₂ Reduction at Commercially Viable Current Densities. <i>ACS Catalysis</i> , 2021 , 11, 10333-10344	13.1	4
169	Engineering the Si Anode Interface via Particle Surface Modification: Embedded Organic Carbonates Lead to Enhanced Performance. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8193-8200	6.1	7
168	Lithium trapping in germanium nanopores during delithiation process. <i>Applied Materials Today</i> , 2021 , 24, 101140	6.6	1
167	Investigations on the effect of current density on SiO/Si composite electrodes. <i>Electrochimica Acta</i> , 2021 , 393, 139072	6.7	3
166	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 547-556	20.1	17
165	Blade-Type Reaction Front in Micrometer-Sized Germanium Particles during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47574-47579	9.5	3
164	Crack-Free Silicon Monoxide as Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57141-57145	9.5	6
163	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020 , 11, 6373	17.4	20
162	In Situ and Operando Morphology Study of GermaniumBelenium Alloy Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6115-6120	6.1	5
161	Lead-Free CsCuSbCl Layered Double Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11927-11936	16.4	66
160	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. <i>Nature Materials</i> , 2020 , 19, 712-718	27	39
159	A macromolecular assembly directed ceramic aerogel monolith material. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10319-10324	7.1	3
158	Synthesis and Characterization of Bio-Active GFP-P4VP CoreShell Nanoparticles. <i>Catalysts</i> , 2020 , 10, 627	4	2
157	Unusual Reduction of Graphene Oxide by Titanium Dioxide Electrons Produced by Ionizing Radiation: Reaction Products and Mechanism. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5425-5435	3.8	2
156	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16200-16208	9.5	12
155	Magnetic Damping Modulation in IrMn ₃ /Ni ₈₀ Fe ₂₀ via the Magnetic Spin Hall Effect. <i>Physical Review Letters</i> , 2020 , 124, 087204	7.4	16
154	Strain Recovery and Defect Characterization in Mg-Implanted Homoepitaxial GaN on High-Quality GaN Substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900705	1.3	10
153	LiNiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12613-12619	16.4	41

152	A Low-Current and Analog Memristor with Ru as Mobile Species. <i>Advanced Materials</i> , 2020 , 32, e1904599	24	32
151	A mechanistic study of mesoporous TiO ₂ nanoparticle negative electrode materials with varying crystallinity for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3333-3343	13	20
150	An All-Ceramic, Anisotropic, and Flexible Aerogel Insulation Material. <i>Nano Letters</i> , 2020 , 20, 3828-3835	11.5	33
149	Highly Reversible Sodiation/Desodiation from a Carbon-Sandwiched SnS Nanosheet Anode for Sodium Ion Batteries. <i>Nano Letters</i> , 2020 , 20, 3844-3851	11.5	37
148	Variability and origins of grain boundary electric potential detected by electron holography and atom-probe tomography. <i>Nature Materials</i> , 2020 , 19, 887-893	27	37
147	A practical phosphorus-based anode material for high-energy lithium-ion batteries. <i>Nano Energy</i> , 2020 , 74, 104849	17.1	32
146	Stabilized Electrode/Electrolyte Interphase by a Saturated Ionic Liquid Electrolyte for High-Voltage NMC532/Si-Graphite Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23035-23045	9.5	19
145	Revealing Sintering Kinetics of MoS-Supported Metal Nanocatalysts in Atmospheric Gas Environments Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 4074-4086	16.7	9
144	Operando Investigation of Energy Storage Material by FIB-SEM System. <i>Microscopy and Microanalysis</i> , 2020 , 26, 416-418	0.5	
143	Ultrafine Pt cluster and RuO ₂ heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. <i>Nanoscale Horizons</i> , 2020 , 5, 316-324	10.8	22
142	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
141	Morphological Control of Chromophore Spin State in Zinc Porphyrin-Peptide Assemblies. <i>Journal of the American Chemical Society</i> , 2020 , 142, 233-241	16.4	8
140	Boosting Superior Lithium Storage Performance of Alloy-Based Anode Materials via Ultraconformal Sb Coating Derived Favorable Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2020 , 10, 1903186	21.8	18
139	Investigation towards scalable processing of silicon/graphite nanocomposite anodes with good cycle stability and specific capacity. <i>Nano Materials Science</i> , 2020 , 2, 297-308	10.2	4
138	In Situ Construction of an Ultrarobust and Lithiophilic Li-Enriched Li ₂ N Nanoshield for High-Performance Ge-Based Anode Materials. <i>ACS Energy Letters</i> , 2020 , 5, 3490-3497	20.1	11
137	Oxidation Studies of High-Entropy Alloy Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 15131-15143	16.7	22
136	Highly selective electrocatalytic CO ₂ reduction to ethanol by metallic clusters dynamically formed from atomically dispersed copper. <i>Nature Energy</i> , 2020 , 5, 623-632	62.3	159
135	Microfluidic, One-Batch Synthesis of Pd Nanocrystals on N-Doped Carbon in Surfactant-Free Deep Eutectic Solvents for Formic Acid Electrochemical Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42704-42710	9.5	3

134	Structural underpinnings of cathode protection by in situ generated lithium oxyfluorophosphates. <i>Journal of Power Sources</i> , 2019 , 438, 227039	8.9	6
133	H3PO4 treatment to enhance the electrochemical properties of Li(Ni1/3Mn1/3Co1/3)O2 and Li(Ni0.5Mn0.3Co0.2)O2 cathodes. <i>Electrochimica Acta</i> , 2019 , 301, 8-22	6.7	28
132	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. <i>Nature Energy</i> , 2019 , 4, 484-494	62.3	190
131	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6013-6021	16.4	31
130	Selenium Nanocomposite Cathode with Long Cycle Life for Rechargeable Lithium-Selenium Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 784-791	5.6	20
129	Tunable LiAlO2/Al2O3 Coating through a Wet-Chemical Method To Improve Cycle Stability of Nano-LiCoO2. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3098-3113	6.1	13
128	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
127	Synergetic effect of carbon and AlF3 coatings on the lithium titanium oxide anode material for high power lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 837, 240-245	4.1	5
126	Amorphous and crystalline TiO2 nanoparticle negative electrodes for sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 321, 134723	6.7	14
125	Evaluation of the microstructure and property of TiNi SMA prepared using VIM in BaZrO3 crucible. <i>Vacuum</i> , 2019 , 168, 108843	3.7	4
124	Semi-artificial Photosynthetic CO Reduction through Purple Membrane Re-engineering with Semiconductor. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11811-11815	16.4	26
123	Effect of proton irradiation on anatase TiO2 nanotube anodes for lithium-ion batteries. <i>Journal of Materials Science</i> , 2019 , 54, 13221-13235	4.3	12
122	Mask-free patterning and selective CVD-growth of 2D-TMDCs semiconductors. <i>Semiconductor Science and Technology</i> , 2019 , 34, 085010	1.8	1
121	Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 14540-14548	16.7	24
120	Hypoxia-induced biosynthesis of gold nanoparticles in the living brain. <i>Nanoscale</i> , 2019 , 11, 19285-19290	7.7	1
119	Facet-dependent active sites of a single Cu2O particle photocatalyst for CO2 reduction to methanol. <i>Nature Energy</i> , 2019 , 4, 957-968	62.3	170
118	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 & Interfaces</i> , 2019 , 11, 1733-1738	8.5	30
117	A revisit to atomic layer deposition of zinc oxide using diethylzinc and water as precursors. <i>Journal of Materials Science</i> , 2019 , 54, 5236-5248	4.3	21

116	Solid-State Lithium/SeleniumSulfur Chemistry Enabled via a Robust Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2019 , 9, 1802235	21.8	42
115	Li-ion battery material under high pressure: amorphization and enhanced conductivity of LiTiO. <i>National Science Review</i> , 2019 , 6, 239-246	10.8	35
114	Unexpected compositional and structural modification of CoPt nanoparticles by extensive surface purification. <i>Nanoscale</i> , 2018 , 10, 6382-6392	7.7	5
113	Silicon compatible Sn-based resistive switching memory. <i>Nanoscale</i> , 2018 , 10, 9441-9449	7.7	20
112	Efficient photocatalytic H ₂ production via rational design of synergistic spatially-separated dual cocatalysts modified Mn _{0.5} Cd _{0.5} S photocatalyst under visible light irradiation. <i>Chemical Engineering Journal</i> , 2018 , 337, 480-487	14.7	69
111	Elevated Temperature Photophysical Properties and Morphological Stability of CdSe and CdSe/CdS Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 286-293	6.4	23
110	A stable rhodium single-site catalyst encapsulated within dendritic mesoporous nanochannels. <i>Nanoscale</i> , 2018 , 10, 1047-1055	7.7	10
109	Investigations of Si Thin Films as Anode of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3487-3494	9.5	24
108	Size-dependent phase transition of Er ₂ O ₃ under high pressure. <i>Applied Physics Letters</i> , 2018 , 112, 143103-4	3.4	3
107	Capacity Fading Mechanism and Improvement of Cycling Stability of the SiO Anode for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2102-A2107	3.9	16
106	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> , 2018 , 154, 113-123	8.4	20
105	Atomic layer deposited Pt-Co bimetallic catalysts for selective hydrogenation of α,β -unsaturated aldehydes to unsaturated alcohols. <i>Journal of Catalysis</i> , 2018 , 366, 61-69	7.3	37
104	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. <i>Nano Letters</i> , 2018 , 18, 336-346	11.5	37
103	Transfer of Graphene with Protective Oxide Layers. <i>ChemEngineering</i> , 2018 , 2, 58	2.6	3
102	In Situ Monitoring of the Growth of Nickel, Manganese, and Cobalt Hydroxide Precursors during Co-Precipitation Synthesis of Li-Ion Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3077-A3083	3.9	8
101	Li-Substituted Layered Spinel Cathode Material for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 8145-8154	9.6	25
100	Superstructures generated from truncated tetrahedral quantum dots. <i>Nature</i> , 2018 , 561, 378-382	50.4	98
99	Hydrogen bonding directed co-assembly of polyoxometalates and polymers to core-shell nanoparticles. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2070-2075	7.8	13

98	Hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over supported Pt ₁₀ bimetallic catalysts under mild conditions. <i>Green Chemistry</i> , 2018 , 20, 2894-2902	10	43
97	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. <i>Nature Energy</i> , 2018 , 3, 739-746	46.3	466
96	Material Dimensionality Effects on Electron Transfer Rates Between CsPbBr and CdSe Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 4771-4776	11.5	36
95	Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24715-24724	9.5	47
94	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> , 2017 , 17, 953-962	11.5	21
93	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 1512-1519	11.5	93
92	Revealing mechanism responsible for structural reversibility of single-crystal VO ₂ nanorods upon lithiation/delithiation. <i>Nano Energy</i> , 2017 , 36, 197-205	17.1	40
91	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> , 2017 , 4, 1700096	4.6	19
90	Amorphous boron nanorod as an anode material for lithium-ion batteries at room temperature. <i>Nanoscale</i> , 2017 , 9, 10757-10763	7.7	16
89	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1677-1693	35.4	111
88	Polyvinylpyrrolidone (PVP)-Capped Pt Nanocubes with Superior Peroxidase-Like Activity. <i>ChemNanoMat</i> , 2017 , 3, 33-38	3.5	29
87	Silicon Nanoparticles: Stability in Aqueous Slurries and the Optimization of the Oxide Layer Thickness for Optimal Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32727-32736	9.5	20
86	Novel colloidal materials from functionalized polyoxometalates. <i>Inorganic Chemistry Communication</i> , 2017 , 84, 20-23	3.1	2
85	Synthesis and performance of nanostructured silicon/graphite composites with a thin carbon shell and engineered voids. <i>Electrochimica Acta</i> , 2017 , 258, 274-283	6.7	26
84	Making Li-metal electrodes rechargeable by controlling the dendrite growth direction. <i>Nature Energy</i> , 2017 , 2,	62.3	260
83	Hollow Silicon Nanospheres Encapsulated with a Thin Carbon Shell: An Electrochemical Study. <i>Electrochimica Acta</i> , 2016 , 215, 126-141	6.7	47
82	Synthesis of Highly Dispersed and Highly Stable Supported Au/Pt Bimetallic Catalysts by a Two-Step Method. <i>Catalysis Letters</i> , 2016 , 146, 2606-2613	2.8	11
81	Quantifying the Nucleation and Growth Kinetics of Microwave Nanochemistry Enabled by in Situ High-Energy X-ray Scattering. <i>Nano Letters</i> , 2016 , 16, 715-20	11.5	41

80	Understanding Pt Nanoparticle Anchoring on Graphene Supports through Surface Functionalization. <i>ACS Catalysis</i> , 2016 , 6, 2642-2653	13.1	133
79	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , 2016 , 16, 2812-7	11.5	148
78	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. <i>ACS Nano</i> , 2016 , 10, 3738-46	16.7	49
77	Bottom-up direct writing approach for controlled fabrication of WS ₂ /MoS ₂ heterostructure systems. <i>RSC Advances</i> , 2016 , 6, 66589-66594	3.7	8
76	Disordered 3 D Multi-layer Graphene Anode Material from CO ₂ for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2016 , 9, 1397-402	8.3	21
75	Novel chemoresistive CH ₄ sensor with 10 ppm sensitivity based on multiwalled carbon nanotubes functionalized with SnO ₂ nanocrystals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A131	2.9	20
74	Visualization of Magnetization in CoFe Nanofibers by Lorentz TEM and Electron Holography. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1692-1693	0.5	1
73	Lithium Assisted Dissolution-Alloying-Synthesis of Nanoalloys from Individual Bulk Metals. <i>Chemistry of Materials</i> , 2016 , 28, 2267-2277	9.6	9
72	Nanostructured Black Phosphorus/Ketjenblack-Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016 , 16, 3955-65	11.5	208
71	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. <i>Nano Letters</i> , 2016 , 16, 3738-47	11.5	22
70	Hierarchical polybenzimidazole-grafted graphene hybrids as supports for Pt nanoparticle catalysts with excellent PEMFC performance. <i>Nano Energy</i> , 2015 , 16, 281-292	17.1	46
69	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. <i>ACS Nano</i> , 2015 , 9, 8194-205	16.7	144
68	Electron beam induced evolution in Au, Ag, and interfaced heterogeneous Au/Ag nanoparticles. <i>Nanoscale</i> , 2015 , 7, 13687-93	7.7	32
67	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. <i>Materials Research Letters</i> , 2015 , 3, 203-209	7.4	84
66	Mesoporous Colloidal Superparticles of Platinum-Group Nanocrystals with Surfactant-Free Surfaces and Enhanced Heterogeneous Catalysis. <i>Advanced Functional Materials</i> , 2015 , 25, 1638-1647	15.6	23
65	Bottom-up, hard template and scalable approaches toward designing nanostructured Li ₂ S for high performance lithium sulfur batteries. <i>Nanoscale</i> , 2015 , 7, 18071-80	7.7	24
64	PVP-Assisted Synthesis of Uniform Carbon Coated Li ₂ S/CB for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25748-56	9.5	46
63	Quantifying mean inner potential of ZnO nanowires by off-axis electron holography. <i>Micron</i> , 2015 , 78, 67-72	2.3	4

62	Synthesis of uniformly distributed single- and double-sided zinc oxide (ZnO) nanocombs. <i>Journal of Crystal Growth</i> , 2015 , 430, 34-40	1.6	18
61	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> , 2015 , 162, A2195-A2200	3.9	13
60	Birnessite-type MnO ₂ nanosheets with layered structures under high pressure: elimination of crystalline stacking faults and oriented laminar assembly. <i>Small</i> , 2015 , 11, 300-5	11	36
59	Evolution of self-assembled ZnTe magic-sized nanoclusters. <i>Journal of the American Chemical Society</i> , 2015 , 137, 742-9	16.4	43
58	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. <i>Nature Materials</i> , 2015 , 14, 215-23	27	155
57	In situ TEM study of reversible and irreversible electroforming in Pt/Ti:NiO/Pt heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 301-306	2.5	9
56	Highly Asymmetric, Interfaced Dimers Made of Au Nanoparticles and Bimetallic Nanoshells: Synthesis and Photo-Enhanced Catalysis. <i>Advanced Functional Materials</i> , 2014 , 24, 2828-2836	15.6	44
55	Visualization of the magnetic structure of sculpted three-dimensional cobalt nanospirals. <i>Nano Letters</i> , 2014 , 14, 759-64	11.5	62
54	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. <i>Nanoscale</i> , 2014 , 6, 15216-21	7.7	20
53	Insight into the Structural Evolution of a High-Voltage Spinel for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 4750-4756	9.6	20
52	Photoinduced electron transfer pathways in hydrogen-evolving reduced graphene oxide-boosted hybrid nano-bio catalyst. <i>ACS Nano</i> , 2014 , 8, 7995-8002	16.7	46
51	Improved cyclability of a lithium-sulfur battery using POP-sulfur composite materials. <i>RSC Advances</i> , 2014 , 4, 27518-27521	3.7	18
50	Photoinitiated [corrected] charge separation in a hybrid titanium dioxide metalloporphyrin peptide material. <i>Nature Communications</i> , 2014 , 5, 4606	17.4	21
49	Li ₂ S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18026-18032	13	86
48	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> , 2014 , 77, 341-350	10.4	18
47	A novel multifunctional NiTi/Ag hierarchical composite. <i>Scientific Reports</i> , 2014 , 4, 5267	4.9	15
46	Nanostructured TiO ₂ /Polypyrrole for Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15540-15544	3.8	102
45	Nanocrystallization in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3617-3621	3.8	13

44	Kinetic pathway of palladium nanoparticle sulfidation process at high temperatures. <i>Nano Letters</i> , 2013 , 13, 4893-901	11.5	21
43	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> , 2013 , 117, 22627-22635	3.8	15
42	X-ray micro-beam characterization of lattice rotations and distortions due to an individual dislocation. <i>Nature Communications</i> , 2013 , 4, 2774	17.4	42
41	In situ visualization of self-assembly of charged gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3764-7	16.4	164
40	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe ₂ O ₄ /BaTiO ₃ heterostructures. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 055001	3	16
39	A unique approach to accurately measure thickness in thick multilayers. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 425-7	2.4	1
38	Morphological and crystalline evolution of nanostructured MnO ₂ and its application in lithium-air batteries. <i>ACS Nano</i> , 2012 , 6, 8067-77	16.7	239
37	Three-dimensional characterization of near-field transducers by electron tomography. <i>Materials Characterization</i> , 2012 , 72, 104-110	3.9	
36	Thermal transformation of γ -MnO ₂ nanoflowers studied by in-situ TEM. <i>Science China Chemistry</i> , 2012 , 55, 2346-2352	7.9	9
35	Leakage current suppression in solution-deposited barium titanate films on copper foils. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 901-908	2.1	5
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33	Ambient-stable tetragonal phase in silver nanostructures. <i>Nature Communications</i> , 2012 , 3, 971	17.4	106
32	Synthesis of Sm ₂ Co and Sm ₂ Co/Fe nanocrystals by reductive annealing of nanoparticles. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2132-2136	5.7	51
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