Yuzi Liu

List of Publications by Year
in descending order

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195	9,371	41258	46693
papers	citations	49 h-index	89 g-index

199	199	199	14478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. Nature Energy, 2018, 3, 739-746.	19.8	767
2	Highly selective electrocatalytic CO2 reduction to ethanol by metallic clusters dynamically formed from atomically dispersed copper. Nature Energy, 2020, 5, 623-632.	19.8	393
3	Making Li-metal electrodes rechargeable by controlling the dendrite growth direction. Nature Energy, 2017, 2, .	19.8	355
4	Facet-dependent active sites of a single Cu2O particle photocatalyst for CO2 reduction to methanol. Nature Energy, 2019, 4, 957-968.	19.8	349
5	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. Nature Energy, 2019, 4, 484-494.	19.8	345
6	Morphological and Crystalline Evolution of Nanostructured MnO₂ and Its Application in Lithiumâ€“Air Batteries. ACS Nano, 2012, 6, 8067-8077.	7.3	266
7	Nanostructured Black Phosphorus/Ketjenblackâ€“Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3955-3965.	4.5	246
8	Heterogeneous nucleation and shape transformation of multicomponent metallicÂnanostructures. Nature Materials, 2015, 14, 215-223.	13.3	187
9	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. Nano Letters, 2016, 16, 2812-2817.	4.5	187
10	In Situ Visualization of Self-Assembly of Charged Gold Nanoparticles. Journal of the American Chemical Society, 2013, 135, 3764-3767.	6.6	183
11	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. ACS Nano, 2015, 9, 8194-8205.	7.3	181
12	Understanding Pt Nanoparticle Anchoring on Graphene Supports through Surface Functionalization. ACS Catalysis, 2016, 6, 2642-2653.	5.5	172
13	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1677-1693.	15.6	143
14	Superstructures generated from truncated tetrahedral quantum dots. Nature, 2018, 561, 378-382.	13.7	143
15	Lead-Free Cs₄CuSb₂Cl₁₂ Layered Double Perovskite Nanocrystals. Journal of the American Chemical Society, 2020, 142, 11927-11936.	6.6	131
16	Enhancing the Photon- and Gas-Sensing Properties of a Single SnO₂Nanowire Based Nanodevice by Nanoparticle Surface Functionalization. Journal of Physical Chemistry C, 2008, 112, 11539-11544.	1.5	128
17	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. Materials Research Letters, 2015, 3, 203-209.	4.1	127
18	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. Nano Letters, 2017, 17, 1512-1519.	4.5	122

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19	Nanostructured TiO₂/Polypyrrole for Visible Light Photocatalysis. Journal of Physical Chemistry C, 2013, 117, 15540-15544.	1.5	121
20	Elastic Properties and Buckling of Silicon Nanowires. Advanced Materials, 2008, 20, 3919-3923.	11.1	119
21	Ambient-stable tetragonal phase in silver nanostructures. Nature Communications, 2012, 3, 971.	5.8	119
22	Li_xNiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. Journal of the American Chemical Society, 2020, 142, 12613-12619.	6.6	103
23	Efficient photocatalytic H2 production via rational design of synergistic spatially-separated dual cocatalysts modified Mn0.5Cd0.5S photocatalyst under visible light irradiation. Chemical Engineering Journal, 2018, 337, 480-487.	6.6	102
24	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. Nature Materials, 2020, 19, 712-718.	13.3	95
25	Li₂S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 18026-18032.	5.2	90
26	An All-Ceramic, Anisotropic, and Flexible Aerogel Insulation Material. Nano Letters, 2020, 20, 3828-3835.	4.5	79
27	Visualization of the Magnetic Structure of Sculpted Three-Dimensional Cobalt Nanospirals. Nano Letters, 2014, 14, 759-764.	4.5	73
28	Hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over supported Ptâ€“Co bimetallic catalysts under mild conditions. Green Chemistry, 2018, 20, 2894-2902.	4.6	73
29	Variability and origins of grain boundary electric potential detected by electron holography and atom-probe tomography. Nature Materials, 2020, 19, 887-893.	13.3	72
30	In Situ Oxidation Studies of High-Entropy Alloy Nanoparticles. ACS Nano, 2020, 14, 15131-15143.	7.3	71
31	Highly Reversible Sodiation/Desodiation from a Carbon-Sandwiched SnS₂ Nanosheet Anode for Sodium Ion Batteries. Nano Letters, 2020, 20, 3844-3851.	4.5	69
32	Electrochemically induced amorphous-to-rock-salt phase transformation in niobium oxide electrode for Li-ion batteries. Nature Materials, 2022, 21, 795-803.	13.3	69
33	Revealing mechanism responsible for structural reversibility of single-crystal VO2 nanorods upon lithiation/delithiation. Nano Energy, 2017, 36, 197-205.	8.2	65
34	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	5.8	65
35	Solidâ€State Lithium/Seleniumâ€“Sulfur Chemistry Enabled via a Robust Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1802235.	10.2	63
36	Hollow Silicon Nanospheres Encapsulated with a Thin Carbon Shell: An Electrochemical Study. Electrochimica Acta, 2016, 215, 126-141.	2.6	62

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37	Spatial and Temporal Analysis of Sodium-Ion Batteries. ACS Energy Letters, 2021, 6, 4023-4054.	8.8	62
38	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. ACS Nano, 2016, 10, 3738-3746.	7.3	61
39	Atomic layer deposited Pt-Co bimetallic catalysts for selective hydrogenation of Î±, Î²-unsaturated aldehydes to unsaturated alcohols. Journal of Catalysis, 2018, 366, 61-69.	3.1	61
40	Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 24715-24724.	4.0	60
41	A Lowâ€Current and Analog Memristor with Ru as Mobile Species. Advanced Materials, 2020, 32, e1904599.	11.1	59
42	Evolution of Self-Assembled ZnTe Magic-Sized Nanoclusters. Journal of the American Chemical Society, 2015, 137, 742-749.	6.6	58
43	PVP-Assisted Synthesis of Uniform Carbon Coated Li₂S/CB for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25748-25756.	4.0	56
44	A practical phosphorus-based anode material for high-energy lithium-ion batteries. Nano Energy, 2020, 74, 104849.	8.2	56
45	Synthesis of Smâ€“Co and Smâ€“Co/Fe nanocrystals by reductive annealing of nanoparticles. Journal of Alloys and Compounds, 2011, 509, 2132-2136.	2.8	55
46	Photoinduced Electron Transfer Pathways in Hydrogen-Evolving Reduced Graphene Oxide-Boosted Hybrid Nano-Bio Catalyst. ACS Nano, 2014, 8, 7995-8002.	7.3	55
47	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	19.8	55
48	Tunable room-temperature ferromagnetism in Co-doped two-dimensional van der Waals ZnO. Nature Communications, 2021, 12, 3952.	5.8	54
49	Hierarchical polybenzimidazole-grafted graphene hybrids as supports for Pt nanoparticle catalysts with excellent PEMFC performance. Nano Energy, 2015, 16, 281-292.	8.2	50
50	Quantifying the Nucleation and Growth Kinetics of Microwave Nanochemistry Enabled by in Situ High-Energy X-ray Scattering. Nano Letters, 2016, 16, 715-720.	4.5	50
51	H3PO4 treatment to enhance the electrochemical properties of Li(Ni1/3Mn1/3Co1/3)O2 and Li(Ni0.5Mn0.3Co0.2)O2 cathodes. Electrochimica Acta, 2019, 301, 8-22.	2.6	50
52	Material Dimensionality Effects on Electron Transfer Rates Between CsPbBr₃ and CdSe Nanoparticles. Nano Letters, 2018, 18, 4771-4776.	4.5	49
53	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. Journal of the American Chemical Society, 2019, 141, 6013-6021.	6.6	49
54	Li-ion battery material under high pressure: amorphization and enhanced conductivity of Li4Ti5O12. National Science Review, 2019, 6, 239-246.	4.6	49

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55	Highly Asymmetric, Interfaced Dimers Made of Au Nanoparticles and Bimetallic Nanoshells: Synthesis and Photoâ€Enhanced Catalysis. Advanced Functional Materials, 2014, 24, 2828-2836.	7.8	47
56	X-ray micro-beam characterization of lattice rotations and distortions due to an individual dislocation. Nature Communications, 2013, 4, 2774.	5.8	46
57	Semi-artificial Photosynthetic CO₂ Reduction through Purple Membrane Re-engineering with Semiconductor. Journal of the American Chemical Society, 2019, 141, 11811-11815.	6.6	44
58	Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. ACS Nano, 2019, 13, 14540-14548.	7.3	44
59	Magnetic Damping Modulation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>IrMn</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> via the Magnetic Spin Hall Effect. Physical Review Letters, 2020, 124, 087204.	2.9	44
60	Carbon Free and Noble Metal Free Ni₂Mo₆S₈ Electrocatalyst for Selective Electrosynthesis of H₂O₂. Advanced Functional Materials, 2021, 31, 2104716.	7.8	44
61	Magnetoresistance and anomalous Hall effect in magnetic ZnO films. Journal of Applied Physics, 2007, 101, 063918.	1.1	43
62	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	1.1	43
63	In Situ Focused Ion Beam Scanning Electron Microscope Study of Microstructural Evolution of Single Tin Particle Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 1733-1738.	4.0	42
64	Electron beam induced evolution in Au, Ag, and interfaced heterogeneous Au/Ag nanoparticles. Nanoscale, 2015, 7, 13687-13693.	2.8	41
65	Birnessite-Type MnO₂Nanosheets with Layered Structures Under High Pressure: Elimination of Crystalline Stacking Faults and Oriented Laminar Assembly. Small, 2015, 11, 300-305.	5.2	41
66	Investigations of Si Thin Films as Anode of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3487-3494.	4.0	40
67	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. Nano Letters, 2018, 18, 336-346.	4.5	40
68	A revisit to atomic layer deposition of zinc oxide using diethylzinc and water as precursors. Journal of Materials Science, 2019, 54, 5236-5248.	1.7	40
69	Polyvinylpyrrolidone (PVP)â€Capped Pt Nanocubes with Superior Peroxidaseâ€Like Activity. ChemNanoMat, 2017, 3, 33-38.	1.5	37
70	Li-Substituted Layered Spinel Cathode Material for Sodium Ion Batteries. Chemistry of Materials, 2018, 30, 8145-8154.	3.2	37
71	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	1.5	35
72	Ultrafine Pt cluster and RuO₂ heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. Nanoscale Horizons, 2020, 5, 316-324.	4.1	34

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73	Synthesis and performance of nanostructured silicon/graphite composites with a thin carbon shell and engineered voids. Electrochimica Acta, 2017, 258, 274-283.	2.6	33
74	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. ACS Energy Letters, 2021, 6, 547-556.	8.8	33
75	A mechanistic study of mesoporous TiO2 nanoparticle negative electrode materials with varying crystallinity for lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 3333-3343.	5.2	32
76	One-Step Chemical Vapor Deposition Synthesis of Hierarchical Ni and N Co-Doped Carbon Nanosheet/Nanotube Hybrids for Efficient Electrochemical CO₂ Reduction at Commercially Viable Current Densities. ACS Catalysis, 2021, 11, 10333-10344.	5.5	32
77	Enhanced spin signals due to native oxide formation in Ni80Fe20/Ag lateral spin valves. Applied Physics Letters, 2010, 97, .	1.5	31
78	Selenium Nanocomposite Cathode with Long Cycle Life for Rechargeable Lithiumâ€Selenium Batteries. Batteries and Supercaps, 2019, 2, 784-791.	2.4	31
79	Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations. Nano Letters, 2017, 17, 953-962.	4.5	30
80	Perpendicular anisotropy dependence of oscillatory interlayer coupling behavior in [Pt/Co]5/Ru/[Co/Pt]5 multilayers. Journal of Applied Physics, 2008, 104, .	1.1	29
81	Boosting Superior Lithium Storage Performance of Alloyâ€Based Anode Materials via Ultraconformal Sb Coatingâ€"Derived Favorable Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2020, 10, 1903186.	10.2	29
82	In Situ Construction of an Ultrarobust and Lithiophilic Li-Enriched Liâ€"N Nanoshield for High-Performance Ge-Based Anode Materials. ACS Energy Letters, 2020, 5, 3490-3497.	8.8	29
83	Native lattice strain induced structural earthquake in sodium layered oxide cathodes. Nature Communications, 2022, 13, 436.	5.8	29
84	Enhanced hardness in B-doped ZnO thin films on fused quartz substrates by pulsed-laser deposition. Applied Surface Science, 2006, 253, 726-729.	3.1	28
85	Glancing-incidence focussed ion beam milling: A coherent X-ray diffraction study of 3D nano-scale lattice strains and crystal defects. Acta Materialia, 2018, 154, 113-123.	3.8	28
86	Amorphous and crystalline TiO2 nanoparticle negative electrodes for sodium-ion batteries. Electrochimica Acta, 2019, 321, 134723.	2.6	28
87	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. Nanoscale, 2014, 6, 15216-15221.	2.8	27
88	Elevated Temperature Photophysical Properties and Morphological Stability of CdSe and CdSe/CdS Nanoplatelets. Journal of Physical Chemistry Letters, 2018, 9, 286-293.	2.1	27
89	Synergistic Multisites Fe₂Mo₆S₈ Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. ACS Nano, 2021, 15, 16887-16895.	7.3	27
90	Bottom-up, hard template and scalable approaches toward designing nanostructured Li₂S for high performance lithium sulfur batteries. Nanoscale, 2015, 7, 18071-18080.	2.8	26

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91	Silicon Nanoparticles: Stability in Aqueous Slurries and the Optimization of the Oxide Layer Thickness for Optimal Electrochemical Performance. ACS Applied Materials & Interfaces, 2017, 9, 32727-32736.	4.0	26
92	Stabilized Electrode/Electrolyte Interphase by a Saturated Ionic Liquid Electrolyte for High-Voltage NMC532/Si-Graphite Cells. ACS Applied Materials & Interfaces, 2020, 12, 23035-23045.	4.0	26
93	Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles via In Situ Transmission Electron Microscopy. Nano Letters, 2021, 21, 1742-1748.	4.5	26
94	Improved cyclability of a lithiumâ€“sulfur battery using POPâ€“Sulfur composite materials. RSC Advances, 2014, 4, 27518-27521.	1.7	25
95	Novel chemoresistive CH4 sensor with 10â€‰ppm sensitivity based on multiwalled carbon nanotubes functionalized with SnO2 nanocrystals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	25
96	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. Nano Letters, 2016, 16, 3738-3747.	4.5	25
97	Tunable LiAlO₂/Al₂O₃Coating through a Wet-Chemical Method To Improve Cycle Stability of Nano-LiCoO₂. ACS Applied Energy Materials, 2019, 2, 3098-3113.	2.5	25
98	Silicon compatible Sn-based resistive switching memory. Nanoscale, 2018, 10, 9441-9449.	2.8	24
99	Do thermal fluctuations influence the recoil loops of nanocomposite magnets?. Applied Physics Letters, 2008, 93, .	1.5	23
100	Insight into the Structural Evolution of a High-Voltage Spinel for Lithium-Ion Batteries. Chemistry of Materials, 2014, 26, 4750-4756.	3.2	23
101	Photoinitiated charge separation in a hybrid titanium dioxide metalloporphyrin peptide material. Nature Communications, 2014, 5, 4606.	5.8	23
102	Mesoporous Colloidal Superparticles of Platinumâ€Group Nanocrystals with Surfactantâ€Free Surfaces and Enhanced Heterogeneous Catalysis. Advanced Functional Materials, 2015, 25, 1638-1647.	7.8	23
103	Disordered 3â€‰D Multiâ€layer Graphene Anode Material from CO₂ for Sodiumâ€Ion Batteries. ChemSusChem, 2016, 9, 1397-1402.	3.6	23
104	Amorphous boron nanorod as an anode material for lithium-ion batteries at room temperature. Nanoscale, 2017, 9, 10757-10763.	2.8	23
105	Disket-Nanorings of K₂Ti₆O₁₃ Formed by Self-Spiraling of a Nanobelt. Journal of Physical Chemistry C, 2008, 112, 7547-7551.	1.5	22
106	Kinetic Pathway of Palladium Nanoparticle Sulfidation Process at High Temperatures. Nano Letters, 2013, 13, 4893-4901.	4.5	22
107	Highâ€Performance Highâ€Loading Lithiumâ€“Sulfur Batteries by Low Temperature Atomic Layer Deposition of Aluminum Oxide on Nanophase S Cathodes. Advanced Materials Interfaces, 2017, 4, 1700096.	1.9	22
108	Capacity Fading Mechanism and Improvement of Cycling Stability of the SiO Anode for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A2102-A2107.	1.3	22

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109	In situ and operando investigation of the dynamic morphological and phase changes of a selenium-doped germanium electrode during (de)lithiation processes. Journal of Materials Chemistry A, 2020, 8, 750-759.	5.2	21
110	A novel multifunctional NiTi/Ag hierarchical composite. Scientific Reports, 2014, 4, 5267.	1.6	19
111	Effect of proton irradiation on anatase TiO2 nanotube anodes for lithium-ion batteries. Journal of Materials Science, 2019, 54, 13221-13235.	1.7	19
112	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe₂O₄/BaTiO₃ heterostructures. Journal Physics D: Applied Physics, 2013, 46, 055001.	1.3	18
113	Effect of hydrogen flow during cooling phase to achieve uniform and repeatable growth of bilayer graphene on copper foils over large area. Carbon, 2014, 77, 341-350.	5.4	18
114	Synthesis of uniformly distributed single- and double-sided zinc oxide (ZnO) nanocombs. Journal of Crystal Growth, 2015, 430, 34-40.	0.7	18
115	In Situ Monitoring of the Growth of Nickel, Manganese, and Cobalt Hydroxide Precursors during Co-Precipitation Synthesis of Li-Ion Cathode Materials. Journal of the Electrochemical Society, 2018, 165, A3077-A3083.	1.3	18
116	Fabrication and characterization of high quality n-ZnO/p-GaN heterojunction light emission diodes. Thin Solid Films, 2011, 520, 445-447.	0.8	17
117	Dynamic Lithium Intercalation/Deintercalation in 18650 Lithium Ion Battery by Time-Resolved High Energy Synchrotron X-Ray Diffraction. Journal of the Electrochemical Society, 2015, 162, A2195-A2200.	1.3	17
118	A stable rhodium single-site catalyst encapsulated within dendritic mesoporous nanochannels. Nanoscale, 2018, 10, 1047-1055.	2.8	17
119	Crack-Free Silicon Monoxide as Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57141-57145.	4.0	17
120	Co location and valence state determination in ferromagnetic ZnO:Co thin films by atom-location-by-channeling-enhanced-microanalysis electron energy-loss spectroscopy. Applied Physics Letters, 2007, 90, 154101.	1.5	16
121	Effect of annealing and applied bias on barrier shape in CoFe/MgO/CoFe tunnel junctions. Physical Review B, 2011, 83, .	1.1	16
122	In Situ Small-Angle X-ray Scattering from Pd Nanoparticles Formed by Thermal Decomposition of Organo-Pd Catalyst Precursors Dissolved in Hydrocarbons. Journal of Physical Chemistry C, 2013, 117, 22627-22635.	1.5	16
123	Hydrogen bonding directed co-assembly of polyoxometalates and polymers to coreâ€“shell nanoparticles. Materials Chemistry Frontiers, 2018, 2, 2070-2075.	3.2	16
124	In Situ Focused Ion Beam-Scanning Electron Microscope Study of Crack and Nanopore Formation in Germanium Particle During (De)lithiation. ACS Applied Energy Materials, 2019, 2, 2441-2446.	2.5	16
125	Effects of elemental distributions on the behavior of MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2011, 109, 103909.	1.1	15
126	Investigation towards scalable processing of silicon/graphite nanocomposite anodes with good cycle stability and specific capacity. Nano Materials Science, 2020, 2, 297-308.	3.9	15

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127	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. ACS Applied Materials & Interfaces, 2020, 12, 16200-16208.	4.0	15
128	Revealing Sintering Kinetics of MoS₂-Supported Metal Nanocatalysts in Atmospheric Gas Environments via Operando Transmission Electron Microscopy. ACS Nano, 2020, 14, 4074-4086.	7.3	15
129	Morphological Control of Chromophore Spin State in Zinc Porphyrinâ€“Peptide Assemblies. Journal of the American Chemical Society, 2020, 142, 233-241.	6.6	14
130	Strain Recovery and Defect Characterization in Mgâ€Implanted Homoepitaxial GaN on Highâ€Quality GaN Substrates. Physica Status Solidi (B): Basic Research, 2020, 257, 1900705.	0.7	14
131	Interfacial control of LaAlO3 films deposited on Si (100) using a thin Laâ€“Alâ€“Siâ€“O silicate film as the barrier layer. Thin Solid Films, 2006, 515, 2722-2725.	0.8	13
132	Inversion domain boundary in a ZnO film. Philosophical Magazine Letters, 2007, 87, 687-693.	0.5	13
133	Rapid photoresponse of single-crystalline selenium nanobelts. Solid State Communications, 2008, 148, 145-147.	0.9	13
134	Nanocrystallization in Fluorochlorozirconate Glassâ€Ceramics. Journal of the American Ceramic Society, 2013, 96, 3617-3621.	1.9	13
135	Synthesis of Highly Dispersed and Highly Stable Supported Auâ€“Pt Bimetallic Catalysts by a Two-Step Method. Catalysis Letters, 2016, 146, 2606-2613.	1.4	13
136	Silicon Microreactor as a Fast Charge, Long Cycle Life Anode with High Initial Coulombic Efficiency Synthesized via a Scalable Method. ACS Applied Energy Materials, 2021, 4, 4744-4757.	2.5	13
137	Enhanced magnetoresistance in naturally oxidized MgO-based magnetic tunnel junctions with ferromagnetic CoFe/CoFeB bilayers. Applied Physics Letters, 2011, 98, 232506.	1.5	12
138	Structure-property relationships in self-assembled metalorganic chemical vapor depositionâ€“grown CoFe2O4â€“PbTiO3 multiferroic nanocomposites using three-dimensional characterization. Journal of Applied Physics, 2011, 110, 034103.	1.1	12
139	Thermal transformation of Î´-MnO2 nanoflowers studied by in-situ TEM. Science China Chemistry, 2012, 55, 2346-2352.	4.2	12
140	Engineering the Si Anode Interface via Particle Surface Modification: Embedded Organic Carbonates Lead to Enhanced Performance. ACS Applied Energy Materials, 2021, 4, 8193-8200.	2.5	11
141	In situ TEM study of reversible and irreversible electroforming in Pt/Ti:NiO/Pt heterostructures. Physica Status Solidi - Rapid Research Letters, 2015, 9, 301-306.	1.2	10
142	Size-dependent phase transition of Er2O3 under high pressure. Applied Physics Letters, 2018, 112, 143102.	1.5	10
143	Structural underpinnings of cathode protection by in situ generated lithium oxyfluorophosphates. Journal of Power Sources, 2019, 438, 227039.	4.0	10
144	Inâ€Situ Characterization of Dynamic Morphological and Phase Changes of Seleniumâ€doped Germanium Using a Single Particle Cell and Synchrotron Transmission Xâ€ray Microscopy. ChemSusChem, 2021, 14, 1370-1376.	3.6	10

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145	The 30Â° rotation domains in wurtzite ZnO films. Journal of Crystal Growth, 2006, 290, 631-636.	0.7	9
146	Formation of metastable MgO structures on type-III oxide surfaces: Effect of periodic out-of-plane electric dipole moment of substrates. Journal of Crystal Growth, 2009, 311, 425-428.	0.7	9
147	Lithium Assisted â€œDissolutionâ€“Alloyingâ€•Synthesis of Nanoalloys from Individual Bulk Metals. Chemistry of Materials, 2016, 28, 2267-2277.	3.2	9
148	Evaluation of the microstructure and property of TiNi SMA prepared using VIM in BaZrO3 crucible. Vacuum, 2019, 168, 108843.	1.6	9
149	Microfluidic, One-Batch Synthesis of Pd Nanocrystals on N-Doped Carbon in Surfactant-Free Deep Eutectic Solvents for Formic Acid Electrochemical Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 42704-42710.	4.0	9
150	Synergistics of Fe₃C and Fe on Mesoporous Feâ€“Nâ€“C Sulfur Host for Nearly Complete and Fast Lithium Polysulfide Conversion. ACS Applied Materials & Interfaces, 2021, 13, 17791-17799.	4.0	9
151	Microstructure and polarity of epitaxial ZnO films grown on LSAT(111) substrate studied by transmission electron microscopy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 497-502.	0.9	8
152	Quantifying mean inner potential of ZnO nanowires by off-axis electron holography. Micron, 2015, 78, 67-72.	1.1	8
153	Bottom-up direct writing approach for controlled fabrication of WS₂/MoS₂ heterostructure systems. RSC Advances, 2016, 6, 66589-66594.	1.7	8
154	In Situ and Operando Morphology Study of Germaniumâ€“Selenium Alloy Anode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 6115-6120.	2.5	8
155	Anisotropic Transient Disordering of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. Nano Letters, 2021, 21, 1288-1294.	4.5	8
156	Metastable rocksalt ZnO interfacial layer and its influence on polarity selection of Zn-polar ZnO films. Journal of Crystal Growth, 2010, 312, 263-266.	0.7	7
157	Leakage current suppression in solution-deposited barium titanate films on copper foils. Journal of Materials Science: Materials in Electronics, 2012, 23, 901-908.	1.1	7
158	Unexpected compositional and structural modification of CoPt3 nanoparticles by extensive surface purification. Nanoscale, 2018, 10, 6382-6392.	2.8	7
159	Synergetic effect of carbon and AlF3 coatings on the lithium titanium oxide anode material for high power lithium-ion batteries. Journal of Electroanalytical Chemistry, 2019, 837, 240-245.	1.9	7
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