

Haimei Zheng

List of Publications by Year in descending order

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all docs

179
docs citations

179
times ranked

24643
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient CO ₂ reduction MOFs derivatives transformation mechanism revealed by in-situ liquid phase TEM. Applied Catalysis B: Environmental, 2022, 307, 121164.	20.2	9
2	Efficient Enhancement of Stability and Luminescence of Three-Dimensional CsPbBr ₃ Nanoparticles via Ligand-Triggered Transformation into Zero-Dimensional Cs ₄ PbBr ₆ Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 4172-4181.	3.1	4
3	Defect-mediated ripening of core-shell nanostructures. Nature Communications, 2022, 13, 2211.	12.8	17
4	Solid-liquid gas reaction accelerated by gas molecule tunnelling-like effect. Nature Materials, 2022, 21, 859-863.	27.5	19
5	Dynamics of Polymer Nanocapsule Buckling and Collapse Revealed by <i>In Situ</i> Liquid-Phase TEM. Langmuir, 2022, 38, 7168-7178.	3.5	5
6	Identification of a quasi-liquid phase at solid-liquid interface. Nature Communications, 2022, 13, .	12.8	15
7	Generating and Capturing Secondary Hot Carriers in Monolayer Tungsten Dichalcogenides. Journal of Physical Chemistry Letters, 2022, 13, 5703-5710.	4.6	2
8	Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279.	27.5	130
9	Imaging, understanding, and control of nanoscale materials transformations. MRS Bulletin, 2021, 46, 443-450.	3.5	13
10	Insights into the Defect Structure Resulting from the Hydrogen Absorption in Palladium Nanocubes Using Liquid Cell Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 2100-2101.	0.4	1
11	Diffraction imaging of organic materials in extreme environments. Microscopy and Microanalysis, 2021, 27, 1802-1803.	0.4	0
12	Development of liquid cells for high resolution imaging and chemical analysis in situ with Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 804-806.	0.4	0
13	Observation of Surface Ligands-Controlled Etching of Palladium Nanocrystals. Nano Letters, 2021, 21, 6640-6647.	9.1	10
14	Radiolysis Characterization in Liquid Cell STEM Using Ultra Low-Dose Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2021, 27, 2626-2628.	0.4	0
15	In situ TEM observation of calcium silicate hydrate nanostructure at high temperatures. Cement and Concrete Research, 2021, 149, 106579.	11.0	28
16	Chemically Stable Polyarylether-Based Metallophthalocyanine Frameworks with High Carrier Mobilities for Capacitive Energy Storage. Journal of the American Chemical Society, 2021, 143, 17701-17707.	13.7	42
17	Influence of sub-zero temperature on nucleation and growth of copper nanoparticles in electrochemical reactions. IScience, 2021, 24, 103289.	4.1	3
18	A unique pathway of PtNi nanoparticle formation observed with liquid cell transmission electron microscopy. Nanoscale, 2020, 12, 1414-1418.	5.6	7

#	ARTICLE	IF	CITATIONS
19	Tracking the Effects of Ligands on Oxidative Etching of Gold Nanorods in Graphene Liquid Cell Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 10239-10250.	14.6	35
20	Hybrid nanocapsules for <i>in situ</i> TEM imaging of gas evolution reactions in confined liquids. <i>Nanoscale</i> , 2020, 12, 18606-18615.	5.6	4
21	Liquid phase transmission electron microscopy for imaging of nanoscale processes in solution. <i>MRS Bulletin</i> , 2020, 45, 704-712.	3.5	26
22	Unveiling the mechanisms of lithium dendrite suppression by cationic polymer film induced solid-liquid electrolyte interphase modification. <i>Energy and Environmental Science</i> , 2020, 13, 1832-1842.	30.8	45
23	Understanding the role of water-soluble guar gum binder in reducing capacity fading and voltage decay of Li-rich cathode for Li-ion batteries. <i>Electrochimica Acta</i> , 2020, 351, 136401.	5.2	16
24	Controlled oxidative etching of gold nanorods revealed through in-situ liquid cell electron microscopy. <i>Science China Materials</i> , 2020, 63, 2599-2605.	6.3	8
25	Electrode roughness dependent electrodeposition of sodium at the nanoscale. <i>Nano Energy</i> , 2020, 72, 104721.	16.0	54
26	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , 2020, 11, 3293.	12.8	92
27	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. <i>CheM</i> , 2020, 6, 933-944.	11.7	123
28	Liquid Pockets Encapsulated in MoS ₂ Liquid Cells. <i>Microscopy and Microanalysis</i> , 2019, 25, 1406-1407.	0.4	3
29	Formation of two-dimensional transition metal oxide nanosheets with nanoparticles as intermediates. <i>Nature Materials</i> , 2019, 18, 970-976.	27.5	169
30	In situ TEM observation of neck formation during oriented attachment of PbSe nanocrystals. <i>Nano Research</i> , 2019, 12, 2549-2553.	10.4	20
31	Real time imaging of two-dimensional iron oxide spherulite nanostructure formation. <i>Nano Research</i> , 2019, 12, 2889-2893.	10.4	8
32	Identifying surface structural changes in a newly-developed Ga-based alloy with melting temperature below 10 ^{−2} °C. <i>Applied Surface Science</i> , 2019, 492, 143-149.	6.1	21
33	Dynamic deformability of individual PbSe nanocrystals during superlattice phase transitions. <i>Science Advances</i> , 2019, 5, eaaw5623.	10.3	52
34	Visualization of facet-dependent pseudo-photocatalytic behavior of TiO ₂ nanorods for water splitting using In situ liquid cell TEM. <i>Nano Energy</i> , 2019, 62, 507-512.	16.0	44
35	Anomalously high electronic thermal conductivity and Lorenz ratio in Bi ₂ Te ₃ nanoribbons far from the bipolar condition. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	5
36	Revealing of the Activation Pathway and Cathode Electrolyte Interphase Evolution of Li-Rich 0.5Li ₂ MnO ₃ ·0.5LiNi _{0.3} Co _{0.3} Mn _{0.4} O ₂ Cathode by in Situ Electrochemical Quartz Crystal Microbalance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16214-16222.	8.0	23

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37	MoS ₂ Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS ₂ Transfer. Nano Letters, 2019, 19, 1788-1795.	9.1	45
38	Nickel sulfide nanostructures prepared by laser irradiation for efficient electrocatalytic hydrogen evolution reaction and supercapacitors. Chemical Engineering Journal, 2019, 367, 115-122.	12.7	90
39	Crystallization of Mordenite Platelets using Cooperative Organic Structure-Directing Agents. Journal of the American Chemical Society, 2019, 141, 20155-20165.	13.7	42
40	Dynamic behavior of nanoscale liquids in graphene liquid cells revealed by in situ transmission electron microscopy. Micron, 2019, 116, 22-29.	2.2	31
41	Anomalous Shape Evolution of Ag ₂ O Nanocrystals Modulated by Surface Adsorbates during Electron Beam Etching. Nano Letters, 2019, 19, 591-597.	9.1	2
42	In Situ TEM Study of the Degradation of PbSe Nanocrystals in Air. Chemistry of Materials, 2019, 31, 190-199.	6.7	18
43	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. Nature Communications, 2018, 9, 421.	12.8	171
44	Selective nitrogen doping of graphene oxide by laser irradiation for enhanced hydrogen evolution activity. Chemical Communications, 2018, 54, 13726-13729.	4.1	28
45	Nanocrystal Dynamics: Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination (Small 48/2018). Small, 2018, 14, 1870231.	10.0	0
46	Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination. Small, 2018, 14, e1803231.	10.0	10
47	Dynamics of Nanoscale Dendrite Formation in Solution Growth Revealed Through in Situ Liquid Cell Electron Microscopy. Nano Letters, 2018, 18, 6427-6433.	9.1	38
48	Surface-Confining Fabrication of Ultrathin Nickel Cobalt Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. Advanced Functional Materials, 2018, 28, 1803272.	14.9	215
49	In-situ TEM Study on Sub-10 nm Materials. Microscopy and Microanalysis, 2018, 24, 1650-1651.	0.4	0
50	Growth mechanism of core-shell PtNi-Ni nanoparticles using in situ transmission electron microscopy. Nanoscale, 2018, 10, 11281-11286.	5.6	15
51	Spring-Like Pseudoelasticity of Monocrystalline Cu ₂ S Nanowire. Nano Letters, 2018, 18, 5070-5077.	9.1	11
52	Liquid Cell TEM Study of Nucleation and Growth of Dendrites. Microscopy and Microanalysis, 2018, 24, 250-251.	0.4	0
53	Nanocomposites from Solution-Synthesized PbTe-BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (500-600 K). Advanced Materials, 2017, 29, 1605140.	21.0	70
54	In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. Scientific Reports, 2017, 7, 42527.	3.3	20

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55	Electrically driven cation exchange for in situ fabrication of individual nanostructures. <i>Nature Communications</i> , 2017, 8, 14889.	12.8	29
56	An investigation of ultrathin nickel-iron layered double hydroxide nanosheets grown on nickel foam for high-performance supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2017, 714, 63-70.	5.5	101
57	Recent progress in thermoelectric nanocomposites based on solution-synthesized nanoheterostructures. <i>Nano Research</i> , 2017, 10, 1498-1509.	10.4	6
58	Perspectives on in situ electron microscopy. <i>Ultramicroscopy</i> , 2017, 180, 188-196.	1.9	26
59	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 9192-9199.	6.7	19
60	A spongy nickel-organic CO ₂ reduction photocatalyst for nearly 100% selective CO production. <i>Science Advances</i> , 2017, 3, e1700921.	10.3	175
61	Electrical Breakdown of Suspended Mono- and Few-Layer Tungsten Disulfide <i>via</i> Sulfur Depletion Identified by <i>In Situ</i> Atomic Imaging. <i>ACS Nano</i> , 2017, 11, 9435-9444.	14.6	16
62	Growth and assembly of cobalt oxide nanoparticle rings at liquid nanodroplets with solid junction. <i>Nanoscale</i> , 2017, 9, 13915-13921.	5.6	10
63	Visualization of Colloidal Nanocrystal Formation and Electrode-Electrolyte Interfaces in Liquids Using TEM. <i>Accounts of Chemical Research</i> , 2017, 50, 1808-1817.	15.6	40
64	Transmission Electron Microscopy for Chemists. <i>Accounts of Chemical Research</i> , 2017, 50, 1795-1796.	15.6	9
65	Liquid Cell TEM Observation of Platinum Based Alloy Nanoparticle Growth. <i>Microscopy and Microanalysis</i> , 2017, 23, 1980-1981.	0.4	0
66	Visualization of Electrochemical Reaction Dynamics in Liquids Using TEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 884-885.	0.4	0
67	Tracking Nanoparticle Diffusion and Interaction during Self-Assembly in a Liquid Cell. <i>Nano Letters</i> , 2017, 17, 15-20.	9.1	82
68	Aggregation dynamics of nanoparticles at solid-liquid interfaces. <i>Nanoscale</i> , 2017, 9, 10044-10050.	5.6	24
69	Real time observation of gold nanoparticle aggregation dynamics on a 2D membrane. <i>Microscopy and Microanalysis</i> , 2016, 22, 808-809.	0.4	3
70	Preparation of Single-Layer MoS ₂ and Se ₂ (Te ₂) ₂ and Mo ₂ WTe ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016, 12, 1866-1874.	10.0	126
71	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 2563-2570.	30.8	216
72	Negative Electro-conductance in Suspended 2D WS ₂ Nanoscale Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32963-32970.	8.0	10

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73	Liquid Cell TEM Study of Nanoparticle Diffusion and Interaction in Liquids. <i>Microscopy and Microanalysis</i> , 2016, 22, 742-743.	0.4	0
74	Strain-Mediated Interfacial Dynamics during Au@PbS Core-Shell Nanostructure Formation. <i>ACS Nano</i> , 2016, 10, 6235-6240.	14.6	21
75	Liquid Cell Transmission Electron Microscopy. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 719-747.	10.8	120
76	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie</i> , 2016, 128, 14484-14488.	2.0	2
77	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14272-14276.	13.8	11
78	The Two Dimensional Nanoplate Dynamics Revealed by in situ Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 261-262.	0.4	0
79	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , 2015, 27, 6841-6847.	21.0	24
80	Growth of Transition Metal Oxides in Solution under Liquid Cell Electron Microscopy and Electron Beam Effects. <i>Microscopy and Microanalysis</i> , 2015, 21, 1123-1124.	0.4	2
81	Structural and Chemical Evolution of Amorphous Nickel Iron Complex Hydroxide upon Lithiation/Delithiation. <i>Chemistry of Materials</i> , 2015, 27, 1583-1589.	6.7	20
82	Tuning Complex Transition Metal Hydroxide Nanostructures as Active Catalysts for Water Oxidation by a Laser-Chemical Route. <i>Nano Letters</i> , 2015, 15, 2498-2503.	9.1	42
83	Frontiers of <i>in situ</i> electron microscopy. <i>MRS Bulletin</i> , 2015, 40, 12-18.	3.5	109
84	In Situ Study of Lithiation and Delithiation of MoS ₂ Nanosheets Using Electrochemical Liquid Cell Transmission Electron Microscopy. <i>Nano Letters</i> , 2015, 15, 5214-5220.	9.1	135
85	Highly porous non-precious bimetallic electrocatalysts for efficient hydrogen evolution. <i>Nature Communications</i> , 2015, 6, 6567.	12.8	440
86	Bubble nucleation and migration in a lead-iron hydr(oxide) core-shell nanoparticle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12928-12932.	7.1	19
87	Partial Dislocations in Graphene and Their Atomic Level Migration Dynamics. <i>Nano Letters</i> , 2015, 15, 5950-5955.	9.1	37
88	In Situ Study of Spinel Ferrite Nanocrystal Growth Using Liquid Cell Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2015, 27, 8146-8152.	6.7	39
89	In Situ Study of Fe ₃ Pt@Fe ₂ O ₃ Core-Shell Nanoparticle Formation. <i>Journal of the American Chemical Society</i> , 2015, 137, 14850-14853.	13.7	51
90	Electrochemical conversion and storage systems: general discussion. <i>Faraday Discussions</i> , 2014, 176, 153-184.	3.2	1

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91	Self-assembled vertical heteroepitaxial nanostructures: from growth to functionalities. MRS Communications, 2014, 4, 31-44.	1.8	29
92	In situ TEM study of the Li ⁺ Au reaction in an electrochemical liquid cell. Faraday Discussions, 2014, 176, 95-107.	3.2	60
93	Visualization of Electrode-Electrolyte Interfaces in LiPF ₆ /EC/DEC Electrolyte for Lithium Ion Batteries via in Situ TEM. Nano Letters, 2014, 14, 1745-1750.	9.1	304
94	Nanostructured flexible Mg-modified LiMnPO ₄ matrix as high-rate cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 6368-6373.	10.3	47
95	Facet development during platinum nanocube growth. Science, 2014, 345, 916-919.	12.6	429
96	Revealing the Atomic Restructuring of Pt-Co Nanoparticles. Nano Letters, 2014, 14, 3203-3207.	9.1	162
97	Visualization of the Coalescence of Bismuth Nanoparticles. Microscopy and Microanalysis, 2014, 20, 416-424.	0.4	58
98	In-situ Electrochemical Liquid Cell TEM Visualization of Electrode-Electrolyte Interfaces. Microscopy and Microanalysis, 2014, 20, 424-425.	0.4	0
99	Liquid Cell Transmission Electron Microscopy Study of Platinum Iron Nanocrystal Growth and Shape Evolution. Journal of the American Chemical Society, 2013, 135, 5038-5043.	13.7	117
100	One-pot synthesis of carbon coated-SnO ₂ /graphene-sheet nanocomposite with highly reversible lithium storage capability. Journal of Power Sources, 2013, 232, 152-158.	7.8	91
101	Observation of growth of metal nanoparticles. Chemical Communications, 2013, 49, 11720.	4.1	128
102	Selective Placement of Faceted Metal Tips on Semiconductor Nanorods. Angewandte Chemie - International Edition, 2013, 52, 980-982.	13.8	43
103	Controlling electron beam-induced structure modifications and cation exchange in cadmium sulfide-copper sulfide heterostructured nanorods. Ultramicroscopy, 2013, 134, 207-213.	1.9	13
104	Using molecular tweezers to move and image nanoparticles. Nanoscale, 2013, 5, 4070.	5.6	24
105	Revealing Bismuth Oxide Hollow Nanoparticle Formation by the Kirkendall Effect. Nano Letters, 2013, 13, 5715-5719.	9.1	157
106	Scanning Confocal Electron Energy-Loss Microscopy Using Valence-Loss Signals. Microscopy and Microanalysis, 2013, 19, 1036-1049.	0.4	7
107	Structural and Morphological Evolution of Lead Dendrites during Electrochemical Migration. Scientific Reports, 2013, 3, 3227.	3.3	83
108	In Situ TEM Study of Catalytic Nanoparticle Reactions in Atmospheric Pressure Gas Environment. Microscopy and Microanalysis, 2013, 19, 1558-1568.	0.4	72

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109	Direct observation of stick-slip movements of water nanodroplets induced by an electron beam. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7187-7190.	7.1	97
110	Revealing Dynamic Processes of Materials in Liquids Using Liquid Cell Transmission Electron Microscopy. Journal of Visualized Experiments, 2012, , .	0.3	7
111	Quantitative Confocal Sectioning in Double-Corrected STEM Utilizing Electron Energy Loss Spectroscopy and Post-Specimen Cc Correction. Microscopy and Microanalysis, 2012, 18, 1026-1027.	0.4	1
112	Imaging of Pt ₃ Fe Nanowire Growth in Liquids by In situ TEM. Microscopy and Microanalysis, 2012, 18, 1092-1093.	0.4	2
113	Revealing Correlation of Valence State with Structural Coarsening in Nanoporous Co/Silica Catalysts by in situ Environmental TEM and EELS. Microscopy and Microanalysis, 2012, 18, 1116-1117.	0.4	0
114	Transmission Electron Microscopy Imaging of Structural Transformation Dynamics in a Single Nanocrystal. Microscopy Today, 2012, 20, 18-22.	0.3	0
115	Electron Beam Manipulation of Nanoparticles. Nano Letters, 2012, 12, 5644-5648.	9.1	80
116	Direct Observation of Nanoparticle Superlattice Formation by Using Liquid Cell Transmission Electron Microscopy. ACS Nano, 2012, 6, 2078-2085.	14.6	152
117	Determination of the Quantum Dot Band Gap Dependence on Particle Size from Optical Absorbance and Transmission Electron Microscopy Measurements. ACS Nano, 2012, 6, 9021-9032.	14.6	138
118	On-Column $2p$ Bound State with Topological Charge ± 1 Excited by an Atomic-Size Vortex Beam in an Aberration-Corrected Scanning Transmission Electron Microscope. Microscopy and Microanalysis, 2012, 18, 711-719.	0.4	24
119	Revealing Correlation of Valence State with Nanoporous Structure in Cobalt Catalyst Nanoparticles by <i>In Situ</i> Environmental TEM. ACS Nano, 2012, 6, 4241-4247.	14.6	84
120	In Situ Observation of Oscillatory Growth of Bismuth Nanoparticles. Nano Letters, 2012, 12, 1470-1474.	9.1	114
121	Response to "Electron Microscopy of Biological Specimens in Liquid Water" Biophysical Journal, 2012, 103, 165-166.	0.5	1
122	Imaging Protein in Water with Nanometer Resolution. Biophysical Journal, 2012, 102, 386a-387a.	0.5	1
123	SnS ₂ nanoparticle loaded graphene nanocomposites for superior energy storage. Physical Chemistry Chemical Physics, 2012, 14, 6981.	2.8	79
124	Real-Time Imaging of Pt ₃ Fe Nanorod Growth in Solution. Science, 2012, 336, 1011-1014.	12.6	649
125	Imaging Protein Structure in Water at 2.7 Ånm Resolution by Transmission Electron Microscopy. Biophysical Journal, 2012, 102, L15-L17.	0.5	105
126	SnS ₂ -Graphene Nanocomposite for Advanced Lithium-Ion Battery. ECS Meeting Abstracts, 2012, , .	0.0	0

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127	Graphene Oxide as a Sulfur Immobilizer in High Performance Lithium/Sulfur Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 18522-18525.	13.7	1,415
128	Size-Dependent Polar Ordering in Colloidal GeTe Nanocrystals. <i>Nano Letters</i> , 2011, 11, 1147-1152.	9.1	84
129	Assembled Monolayer Nanorod Heterojunctions. <i>ACS Nano</i> , 2011, 5, 3811-3816.	14.6	109
130	Observation of Dynamic Structural Transformations in a Copper Sulfide Nanorod by TEM. <i>Microscopy and Microanalysis</i> , 2011, 17, 1644-1645.	0.4	0
131	Nanometer-Scale Electron Microscopy of Proteins in Liquid. <i>Microscopy and Microanalysis</i> , 2011, 17, 120-121.	0.4	0
132	Observation of Single Nanocrystal Growth Trajectories in Solution Using Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , 2011, 17, 1716-1717.	0.4	0
133	Controlled Synthesis and Size-Dependent Polarization Domain Structure of Colloidal Germanium Telluride Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 2044-2047.	13.7	49
134	Observation of Transient Structural-Transformation Dynamics in a Cu ₂ S Nanorod. <i>Science</i> , 2011, 333, 206-209.	12.6	220
135	CO ₂ Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. <i>Topics in Catalysis</i> , 2011, 54, 778-785.	2.8	103
136	Facile synthesis of well-defined pH-tunable Schiff-base-type photosensitive polymers via visible-light-activated ambient temperature RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6668-6681.	2.3	13
137	Strain engineering and one-dimensional organization of metal-insulator domains in single-crystal vanadium dioxide beams. <i>Nature Nanotechnology</i> , 2009, 4, 732-737.	31.5	562
138	Observation of Single Colloidal Platinum Nanocrystal Growth Trajectories. <i>Science</i> , 2009, 324, 1309-1312.	12.6	1,200
139	Synthesis of PbS Nanorods and Other Ionic Nanocrystals of Complex Morphology by Sequential Cation Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 16851-16857.	13.7	329
140	Selective Facet Reactivity during Cation Exchange in Cadmium Sulfide Nanorods. <i>Journal of the American Chemical Society</i> , 2009, 131, 5285-5293.	13.7	372
141	Photovoltaic Devices Employing Ternary PbS _x Se _{1-x} Nanocrystals. <i>Nano Letters</i> , 2009, 9, 1699-1703.	9.1	433
142	Hetero-Epitaxial Anion Exchange Yields Single-Crystalline Hollow Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 13943-13945.	13.7	221
143	Nanocrystal Diffusion in a Liquid Thin Film Observed by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2009, 9, 2460-2465.	9.1	282
144	Thermoelectric Effect across the Metal-Insulator Domain Walls in VO ₂ Microbeams. <i>Nano Letters</i> , 2009, 9, 4001-4006.	9.1	77

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145	Sulfidation of Cadmium at the Nanoscale. ACS Nano, 2008, 2, 1452-1458.	14.6	113
146	Nanoscale x-ray magnetic circular dichroism probing of electric-field-induced magnetic switching in multiferroic nanostructures. Applied Physics Letters, 2007, 90, 123104.	3.3	23
147	Heteroepitaxially enhanced magnetic anisotropy in BaTiO ₃ /CoFe ₂ O ₄ nanostructures. Applied Physics Letters, 2007, 90, 113113.	3.3	88
148	Local dielectric measurements of BaTiO ₃ /CoFe ₂ O ₄ nanocomposites through microwave microscopy. Journal of Materials Research, 2007, 22, 1193-1199.	2.6	7
149	Ferroelectric size effects in multiferroic BiFeO ₃ thin films. Applied Physics Letters, 2007, 90, 252906.	3.3	180
150	Electrically Assisted Magnetic Recording in Multiferroic Nanostructures. Nano Letters, 2007, 7, 1586-1590.	9.1	268
151	Highly efficient and well-controlled ambient temperature RAFT polymerization of glycidyl methacrylate under visible light radiation. Journal of Polymer Science Part A, 2007, 45, 5091-5102.	2.3	45
152	Controlling Self-Assembled Perovskite/Spinel Nanostructures. Nano Letters, 2006, 6, 1401-1407.	9.1	256
153	Self-Assembled Growth of BiFeO ₃ /CoFe ₂ O ₄ Nanostructures. Advanced Materials, 2006, 18, 2747-2752.	21.0	317
154	Magneto-Optical Kerr Effect in Multiferroic Nanostructures. Materials Research Society Symposia Proceedings, 2006, 966, 1.	0.1	0
155	Structure and interface chemistry of perovskite-spinel nanocomposite thin films. Applied Physics Letters, 2006, 89, 172902.	3.3	122
156	Size and shape evolution of embedded single-crystal Fe nanowires. Applied Physics Letters, 2005, 87, 203110.	3.3	14
157	Electric Field Effect in Diluted Magnetic Insulator Anatase Co _{0.05} Ti _{0.95} O ₂ . Physical Review Letters, 2005, 94, 126601.	7.8	100
158	Electric Field-Induced Magnetization Switching in Epitaxial Columnar Nanostructures. Nano Letters, 2005, 5, 1793-1796.	9.1	426
159	High-performance carbon nanotube transistors on SrTiO ₃ /Si substrates. Applied Physics Letters, 2004, 84, 1946-1948.	3.3	70
160	Suppression of antiphase domain boundary formation in Ba _{0.5} Sr _{0.5} TiO ₃ films grown on vicinal MgO substrates. Applied Physics Letters, 2004, 85, 2905-2907.	3.3	13
161	Modification of critical current density of MgB ₂ films irradiated with 200 MeV Ag ions. Applied Physics Letters, 2004, 84, 2352-2354.	3.3	37
162	Epitaxially induced high temperature (>900K) cubic-tetragonal structural phase transition in BaTiO ₃ thin films. Applied Physics Letters, 2004, 85, 4109-4111.	3.3	19

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163	Self-assembled single-crystal ferromagnetic iron nanowires formed by decomposition. Nature Materials, 2004, 3, 533-538.	27.5	165
164	Size effects in ultrathin epitaxial ferroelectric heterostructures. Applied Physics Letters, 2004, 84, 5225-5227.	3.3	112
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