

# Haimei Zheng

## List of Publications by Citations

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166  
papers

20,161  
citations

60  
h-index

141  
g-index

179  
ext. papers

21,927  
ext. citations

10.1  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
166	Epitaxial BiFeO <sub>3</sub> multiferroic thin film heterostructures. <i>Science</i> , <b>2003</b> , 299, 1719-22	33.3	4944
165	Multiferroic BaTiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> Nanostructures. <i>Science</i> , <b>2004</b> , 303, 661-3	33.3	1872
164	Graphene oxide as a sulfur immobilizer in high performance lithium/sulfur cells. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18522-5	16.4	1303
163	Observation of single colloidal platinum nanocrystal growth trajectories. <i>Science</i> , <b>2009</b> , 324, 1309-12	33.3	1050
162	Real-time imaging of Pt <sub>3</sub> Fe nanorod growth in solution. <i>Science</i> , <b>2012</b> , 336, 1011-4	33.3	563
161	Strain engineering and one-dimensional organization of metal-insulator domains in single-crystal vanadium dioxide beams. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 732-7	28.7	480
160	Photovoltaic devices employing ternary PbS <sub>x</sub> Se <sub>1-x</sub> nanocrystals. <i>Nano Letters</i> , <b>2009</b> , 9, 1699-703	11.5	401
159	Electric field-induced magnetization switching in epitaxial columnar nanostructures. <i>Nano Letters</i> , <b>2005</b> , 5, 1793-6	11.5	398
158	Highly porous non-precious bimetallic electrocatalysts for efficient hydrogen evolution. <i>Nature Communications</i> , <b>2015</b> , 6, 6567	17.4	359
157	Nanoparticle growth. Facet development during platinum nanocube growth. <i>Science</i> , <b>2014</b> , 345, 916-9	33.3	347
156	Selective facet reactivity during cation exchange in cadmium sulfide nanorods. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5285-93	16.4	336
155	Co-occurrence of superparamagnetism and anomalous hall effect in highly reduced cobalt-doped rutile TiO <sub>2</sub> -delta films. <i>Physical Review Letters</i> , <b>2004</b> , 92, 166601	7.4	336
154	Synthesis of PbS nanorods and other ionic nanocrystals of complex morphology by sequential cation exchange reactions. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16851-7	16.4	309
153	Self-Assembled Growth of BiFeO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> Nanostructures. <i>Advanced Materials</i> , <b>2006</b> , 18, 2747-2752	24	293
152	Visualization of electrode-electrolyte interfaces in LiPF <sub>6</sub> /EC/DEC electrolyte for lithium ion batteries via in situ TEM. <i>Nano Letters</i> , <b>2014</b> , 14, 1745-50	11.5	252
151	Electrically assisted magnetic recording in multiferroic nanostructures. <i>Nano Letters</i> , <b>2007</b> , 7, 1586-90	11.5	249
150	Controlling self-assembled perovskite-spinel nanostructures. <i>Nano Letters</i> , <b>2006</b> , 6, 1401-7	11.5	240

149	Nanocrystal diffusion in a liquid thin film observed by in situ transmission electron microscopy. <i>Nano Letters</i> , <b>2009</b> , 9, 2460-5	11.5	238
148	Epitaxial BiFeO <sub>3</sub> thin films on Si. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2574-2576	3.4	227
147	Observation of transient structural-transformation dynamics in a Cu <sub>2</sub> S nanorod. <i>Science</i> , <b>2011</b> , 333, 206-9	3.3	202
146	Hetero-epitaxial anion exchange yields single-crystalline hollow nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13943-5	16.4	201
145	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2563-2570	35.4	183
144	Ferroelectric size effects in multiferroic BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 252906	3.4	167
143	Self-assembled single-crystal ferromagnetic iron nanowires formed by decomposition. <i>Nature Materials</i> , <b>2004</b> , 3, 533-8	27	154
142	Surface-Confined Fabrication of Ultrathin Nickel Cobalt-Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803272	15.6	149
141	Revealing bismuth oxide hollow nanoparticle formation by the Kirkendall effect. <i>Nano Letters</i> , <b>2013</b> , 13, 5715-9	11.5	137
140	Revealing the atomic restructuring of Pt-Co nanoparticles. <i>Nano Letters</i> , <b>2014</b> , 14, 3203-7	11.5	136
139	Direct observation of nanoparticle superlattice formation by using liquid cell transmission electron microscopy. <i>ACS Nano</i> , <b>2012</b> , 6, 2078-85	16.7	134
138	Three-dimensional heteroepitaxy in self-assembled BaTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2035-2037	3.4	125
137	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. <i>Science Advances</i> , <b>2017</b> , 3, e1700921	14.3	124
136	Structure and interface chemistry of perovskite-spinel nanocomposite thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 172902	3.4	118
135	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. <i>Nature Communications</i> , <b>2018</b> , 9, 421	17.4	117
134	In Situ Study of Lithiation and Delithiation of MoS <sub>2</sub> Nanosheets Using Electrochemical Liquid Cell Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2015</b> , 15, 5214-20	11.5	115
133	Formation of two-dimensional transition metal oxide nanosheets with nanoparticles as intermediates. <i>Nature Materials</i> , <b>2019</b> , 18, 970-976	27	114
132	Observation of growth of metal nanoparticles. <i>Chemical Communications</i> , <b>2013</b> , 49, 11720-7	5.8	113

131	Sulfidation of cadmium at the nanoscale. <i>ACS Nano</i> , <b>2008</b> , 2, 1452-8	16.7	106
130	Determination of the quantum dot band gap dependence on particle size from optical absorbance and transmission electron microscopy measurements. <i>ACS Nano</i> , <b>2012</b> , 6, 9021-32	16.7	105
129	Evidence for power-law frequency dependence of intrinsic dielectric response in the CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	103
128	Size effects in ultrathin epitaxial ferroelectric heterostructures. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5225-5227	3.4	100
127	Assembled monolayer nanorod heterojunctions. <i>ACS Nano</i> , <b>2011</b> , 5, 3811-6	16.7	98
126	Liquid cell transmission electron microscopy study of platinum iron nanocrystal growth and shape evolution. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5038-43	16.4	96
125	In situ observation of oscillatory growth of bismuth nanoparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 1470-4	11.5	95
124	Frontiers of in situ electron microscopy. <i>MRS Bulletin</i> , <b>2015</b> , 40, 12-18	3.2	93
123	Electric field effect in diluted magnetic insulator anatase Co: TiO <sub>2</sub> . <i>Physical Review Letters</i> , <b>2005</b> , 94, 126601	7.4	93
122	Preparation of Single-Layer MoS <sub>2</sub> (1-x)Se <sub>2</sub> (1-x) and Mo(x)W(1-x)S <sub>2</sub> Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , <b>2016</b> , 12, 1866-74	11	91
121	One-pot synthesis of carbon coated-SnO <sub>2</sub> /graphene-sheet nanocomposite with highly reversible lithium storage capability. <i>Journal of Power Sources</i> , <b>2013</b> , 232, 152-158	8.9	88
120	CO <sub>2</sub> Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 778-785	2.3	88
119	Liquid Cell Transmission Electron Microscopy. <i>Annual Review of Physical Chemistry</i> , <b>2016</b> , 67, 719-47	15.7	86
118	Imaging protein structure in water at 2.7 nm resolution by transmission electron microscopy. <i>Biophysical Journal</i> , <b>2012</b> , 102, L15-7	2.9	83
117	Direct observation of stick-slip movements of water nanodroplets induced by an electron beam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7187-90	11.5	83
116	Heteroepitaxially enhanced magnetic anisotropy in BaTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 113113	3.4	83
115	Size-dependent polar ordering in colloidal GeTe nanocrystals. <i>Nano Letters</i> , <b>2011</b> , 11, 1147-52	11.5	77
114	Revealing correlation of valence state with nanoporous structure in cobalt catalyst nanoparticles by in situ environmental TEM. <i>ACS Nano</i> , <b>2012</b> , 6, 4241-7	16.7	76

113	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> , <b>2017</b> , 714, 63-70	5.7	72
112	Thermoelectric effect across the metal-insulator domain walls in VO <sub>2</sub> microbeams. <i>Nano Letters</i> , <b>2009</b> , 9, 4001-6	11.5	71
111	Structural and morphological evolution of lead dendrites during electrochemical migration. <i>Scientific Reports</i> , <b>2013</b> , 3, 3227	4.9	69
110	SnS <sub>2</sub> nanoparticle loaded graphene nanocomposites for superior energy storage. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 6981-6	3.6	67
109	Tracking Nanoparticle Diffusion and Interaction during Self-Assembly in a Liquid Cell. <i>Nano Letters</i> , <b>2017</b> , 17, 15-20	11.5	65
108	Electron beam manipulation of nanoparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 5644-8	11.5	65
107	High-performance carbon nanotube transistors on SrTiO <sub>3</sub> /Si substrates. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1946-1948	3.4	61
106	In situ TEM study of catalytic nanoparticle reactions in atmospheric pressure gas environment. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 1558-68	0.5	57
105	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. <i>CheM</i> , <b>2020</b> , 6, 933-944	16.2	56
104	Nanocomposites from Solution-Synthesized PbTe-BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (500-600 K). <i>Advanced Materials</i> , <b>2017</b> , 29, 1605140	24	53
103	Nickel sulfide nanostructures prepared by laser irradiation for efficient electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Chemical Engineering Journal</i> , <b>2019</b> , 367, 115-122	14.7	51
102	Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , <b>2021</b> , 20, 274-279	27.9	48
101	Visualization of the coalescence of bismuth nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 416-24	4.5	47
100	In situ TEM study of the Li-Au reaction in an electrochemical liquid cell. <i>Faraday Discussions</i> , <b>2014</b> , 176, 95-107	3.6	47
99	Controlled synthesis and size-dependent polarization domain structure of colloidal germanium telluride nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2044-7	16.4	46
98	Highly efficient and well-controlled ambient temperature RAFT polymerization of glycidyl methacrylate under visible light radiation. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 5091-5102	2.5	45
97	Nanostructured flexible Mg-modified LiMnPO <sub>4</sub> matrix as high-rate cathode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6368-6373	13	44
96	In Situ Study of Fe <sub>3</sub> Pt-Fe <sub>2</sub> O <sub>3</sub> Core-Shell Nanoparticle Formation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14850-3	16.4	42

95	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , <b>2020</b> , 11, 3293	17.4	41
94	Selective placement of faceted metal tips on semiconductor nanorods. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 980-2	16.4	37
93	In Situ Study of Spinel Ferrite Nanocrystal Growth Using Liquid Cell Transmission Electron Microscopy. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8146-8152	9.6	36
92	Tuning complex transition metal hydroxide nanostructures as active catalysts for water oxidation by a laser-chemical route. <i>Nano Letters</i> , <b>2015</b> , 15, 2498-503	11.5	35
91	Dynamic deformability of individual PbSe nanocrystals during superlattice phase transitions. <i>Science Advances</i> , <b>2019</b> , 5, eaaw5623	14.3	34
90	Electrode roughness dependent electrodeposition of sodium at the nanoscale. <i>Nano Energy</i> , <b>2020</b> , 72, 104721	17.1	34
89	Modification of critical current density of MgB <sub>2</sub> films irradiated with 200 MeV Ag ions. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2352-2354	3.4	34
88	Partial Dislocations in Graphene and Their Atomic Level Migration Dynamics. <i>Nano Letters</i> , <b>2015</b> , 15, 5950-5	11.5	33
87	Visualization of Colloidal Nanocrystal Formation and Electrode-Electrolyte Interfaces in Liquids Using TEM. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1808-1817	24.3	31
86	Dynamics of Nanoscale Dendrite Formation in Solution Growth Revealed Through in Situ Liquid Cell Electron Microscopy. <i>Nano Letters</i> , <b>2018</b> , 18, 6427-6433	11.5	28
85	Electrically driven cation exchange for in situ fabrication of individual nanostructures. <i>Nature Communications</i> , <b>2017</b> , 8, 14889	17.4	25
84	Visualization of facet-dependent pseudo-photocatalytic behavior of TiO <sub>2</sub> nanorods for water splitting using In situ liquid cell TEM. <i>Nano Energy</i> , <b>2019</b> , 62, 507-512	17.1	25
83	Self-assembled vertical heteroepitaxial nanostructures: from growth to functionalities. <i>MRS Communications</i> , <b>2014</b> , 4, 31-44	2.7	25
82	MoS Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS Transfer. <i>Nano Letters</i> , <b>2019</b> , 19, 1788-1795	11.5	24
81	Unveiling the mechanisms of lithium dendrite suppression by cationic polymer film induced solid electrolyte interphase modification. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1832-1842	35.4	23
80	On-column 2p bound state with topological charge $\mp 1$ excited by an atomic-size vortex beam in an aberration-corrected scanning transmission electron microscope. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 711-9	0.5	23
79	Nanoscale x-ray magnetic circular dichroism probing of electric-field-induced magnetic switching in multiferroic nanostructures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 123104	3.4	23
78	Dynamic behavior of nanoscale liquids in graphene liquid cells revealed by in situ transmission electron microscopy. <i>Micron</i> , <b>2019</b> , 116, 22-29	2.3	23

77	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , <b>2015</b> , 27, 6841-7	24	21
76	Crystallization of Mordeite Platelets using Cooperative Organic Structure-Directing Agents. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20155-20165	16.4	20
75	Using molecular tweezers to move and image nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 4070-8	7.7	19
74	Aggregation dynamics of nanoparticles at solid-liquid interfaces. <i>Nanoscale</i> , <b>2017</b> , 9, 10044-10050	7.7	19
73	Tracking the Effects of Ligands on Oxidative Etching of Gold Nanorods in Graphene Liquid Cell Electron Microscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 10239-10250	16.7	18
72	Revealing of the Activation Pathway and Cathode Electrolyte Interphase Evolution of Li-Rich 0.5LiMnO <sub>2</sub> ·0.5LiNiCoMnO Cathode by in Situ Electrochemical Quartz Crystal Microbalance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16214-16222	9.5	17
71	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9192-9199	9.6	16
70	Epitaxially induced high temperature (>900K) cubic-tetragonal structural phase transition in BaTiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4109-4111	3.4	16
69	Origin of antiphase domain boundaries and their effect on the dielectric constant of Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> films grown on MgO substrates. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4398-4400	3.4	16
68	Selective nitrogen doping of graphene oxide by laser irradiation for enhanced hydrogen evolution activity. <i>Chemical Communications</i> , <b>2018</b> , 54, 13726-13729	5.8	16
67	Perspectives on in situ electron microscopy. <i>Ultramicroscopy</i> , <b>2017</b> , 180, 188-196	3.1	15
66	In situ TEM observation of neck formation during oriented attachment of PbSe nanocrystals. <i>Nano Research</i> , <b>2019</b> , 12, 2549-2553	10	15
65	Strain-Mediated Interfacial Dynamics during Au-PbS Core-Shell Nanostructure Formation. <i>ACS Nano</i> , <b>2016</b> , 10, 6235-40	16.7	15
64	In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. <i>Scientific Reports</i> , <b>2017</b> , 7, 42527	4.9	14
63	Electrical Breakdown of Suspended Mono- and Few-Layer Tungsten Disulfide via Sulfur Depletion Identified by in Situ Atomic Imaging. <i>ACS Nano</i> , <b>2017</b> , 11, 9435-9444	16.7	14
62	Size and shape evolution of embedded single-crystal $\alpha$ -Fe nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 203110	3.4	14
61	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> , <b>2015</b> , 112, 12928-32	11.5	13
60	Structural and Chemical Evolution of Amorphous Nickel Iron Complex Hydroxide upon Lithiation/Delithiation. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1583-1589	9.6	13

59	Facile synthesis of well-defined pH-labile Schiff-base-type photosensitive polymers via visible-light-activated ambient temperature RAFT polymerization. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 6668-6681	2.5	13
58	In Situ TEM Study of the Degradation of PbSe Nanocrystals in Air. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 190-198	1.9	13
57	Controlling electron beam-induced structure modifications and cation exchange in cadmium sulfide-copper sulfide heterostructured nanorods. <i>Ultramicroscopy</i> , <b>2013</b> , 134, 207-13	3.1	11
56	Growth mechanism of core-shell PtNi-Ni nanoparticles using in situ transmission electron microscopy. <i>Nanoscale</i> , <b>2018</b> , 10, 11281-11286	7.7	11
55	Suppression of antiphase domain boundary formation in Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> films grown on vicinal MgO substrates. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2905-2907	3.4	10
54	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> , <b>2020</b> , 351, 136401	6.7	9
53	Liquid phase transmission electron microscopy for imaging of nanoscale processes in solution. <i>MRS Bulletin</i> , <b>2020</b> , 45, 704-712	3.2	9
52	Negative Electro-conductance in Suspended 2D WS Nanoscale Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32963-32970	9.5	9
51	Spring-Like Pseudoelasticity of Monocrystalline CuS Nanowire. <i>Nano Letters</i> , <b>2018</b> , 18, 5070-5077	11.5	9
50	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14272-14276	16.4	8
49	Future of Electron Scattering and Diffraction		7
48	Chemically Stable Polyarylether-Based Metallophthalocyanine Frameworks with High Carrier Mobilities for Capacitive Energy Storage. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17701-17707	16.4	7
47	Recent progress in thermoelectric nanocomposites based on solution-synthesized nanoheterostructures. <i>Nano Research</i> , <b>2017</b> , 10, 1498-1509	10	6
46	Identifying surface structural changes in a newly-developed Ga-based alloy with melting temperature below 10 °C. <i>Applied Surface Science</i> , <b>2019</b> , 492, 143-149	6.7	6
45	Transmission Electron Microscopy for Chemists. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1795-1796	24.3	6
44	Revealing dynamic processes of materials in liquids using liquid cell transmission electron microscopy. <i>Journal of Visualized Experiments</i> , <b>2012</b> ,	1.6	6
43	Local dielectric measurements of BaTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanocomposites through microwave microscopy. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1193-1199	2.5	6
42	Selective Placement of Faceted Metal Tips on Semiconductor Nanorods. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1014-1016	3.6	5



41	Scanning confocal electron energy-loss microscopy using valence-loss signals. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 1036-49	0.5	5
40	Real time imaging of two-dimensional iron oxide spherulite nanostructure formation. <i>Nano Research</i> , <b>2019</b> , 12, 2889-2893	10	4
39	Growth and assembly of cobalt oxide nanoparticle rings at liquid nanodroplets with solid junction. <i>Nanoscale</i> , <b>2017</b> , 9, 13915-13921	7.7	4
38	Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination. <i>Small</i> , <b>2018</b> , 14, e1803231	11	4
37	Anomalously high electronic thermal conductivity and Lorenz ratio in Bi <sub>2</sub> Te <sub>3</sub> nanoribbons far from the bipolar condition. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 152101	3.4	3
36	Imaging, understanding, and control of nanoscale materials transformations. <i>MRS Bulletin</i> , <b>2021</b> , 46, 443-450	3.2	3
35	Real time observation of gold nanoparticle aggregation dynamics on a 2D membrane. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 808-809	0.5	3
34	Controlled oxidative etching of gold nanorods revealed through in-situ liquid cell electron microscopy. <i>Science China Materials</i> , <b>2020</b> , 63, 2599-2605	7.1	2
33	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14484-14488	3.6	2
32	Liquid Pockets Encapsulated in MoS <sub>2</sub> Liquid Cells. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1406-1407	0.5	2
31	A unique pathway of PtNi nanoparticle formation observed with liquid cell transmission electron microscopy. <i>Nanoscale</i> , <b>2020</b> , 12, 1414-1418	7.7	2
30	Nanostructure Growth, Interactions, and Assembly in the Liquid Phase	191-209	1
29	Response to Electron Microscopy of Biological Specimens in Liquid Water. <i>Biophysical Journal</i> , <b>2012</b> , 103, 165-166	2.9	1
28	Influence of sub-zero temperature on nucleation and growth of copper nanoparticles in electrochemical reactions. <i>Science</i> , <b>2021</b> , 24, 103289	6.1	1
27	Hybrid nanocapsules for in situ TEM imaging of gas evolution reactions in confined liquids. <i>Nanoscale</i> , <b>2020</b> , 12, 18606-18615	7.7	1
26	Anomalous Shape Evolution of AgO Nanocrystals Modulated by Surface Adsorbates during Electron Beam Etching. <i>Nano Letters</i> , <b>2019</b> , 19, 591-597	11.5	1
25	Observation of Surface Ligands-Controlled Etching of Palladium Nanocrystals. <i>Nano Letters</i> , <b>2021</b> , 21, 6640-6647	11.5	1
24	In situ TEM observation of calcium silicate hydrate nanostructure at high temperatures. <i>Cement and Concrete Research</i> , <b>2021</b> , 149, 106579	10.3	1

23	Defect-mediated ripening of core-shell nanostructures.. <i>Nature Communications</i> , <b>2022</b> , 13, 2211	17.4	1
22	Solid-Liquid-Gas reaction accelerated by gas molecule tunnelling-like effect. <i>Nature Materials</i> ,	27	1
21	Quantitative Confocal Sectioning in Double-Corrected STEM Utilizing Electron Energy Loss Spectroscopy and Post-Specimen Cc Correction. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 1026-1027	0.5	0
20	Efficient CO <sub>2</sub> reduction MOFs derivatives transformation mechanism revealed by in-situ liquid phase TEM. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 307, 121164	21.8	0
19	Insights into the Defect Structure Resulting from the Hydrogen Absorption in Palladium Nanocubes Using Liquid Cell Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2100-2101	0.5	0
18	Efficient Enhancement of Stability and Luminescence of Three-Dimensional CsPbBr <sub>3</sub> Nanoparticles via Ligand-Triggered Transformation into Zero-Dimensional Cs <sub>4</sub> PbBr <sub>6</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 4172-4181	3.8	0
17	Liquid Cell Electron Microscopy of Dynamic Phenomena at Solid-Liquid Interfaces <b>2016</b> , 107-107		
16	Liquid Cell TEM Study of Nucleation and Growth of Dendrites. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 250-251	0.5	
15	Liquid Cell TEM Observation of Platinum Based Alloy Nanoparticle Growth. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1980-1981	0.5	
14	Visualization of Electrochemical Reaction Dynamics in Liquids Using TEM. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 884-885	0.5	
13	The Two Dimensional Nanoplate Dynamics Revealed by in situ Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 261-262	0.5	
12	Observation of Dynamic Structural Transformations in a Copper Sulfide Nanorod by TEM. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 1644-1645	0.5	
11	Nanometer-Scale Electron Microscopy of Proteins in Liquid. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 120-121	0.5	
10	Observation of Single Nanocrystal Growth Trajectories in Solution Using Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 1716-1717	0.5	
9	Imaging of Pt <sub>3</sub> Fe Nanowire Growth in Liquids by In situ TEM. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 1092-1093	0.5	
8	Revealing Correlation of Valence State with Structural Coarsening in Nanoporous Co/Silica Catalysts by in situ Environmental TEM and EELS. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 1116-1117	0.5	
7	Transmission Electron Microscopy Imaging of Structural Transformation Dynamics in a Single Nanocrystal. <i>Microscopy Today</i> , <b>2012</b> , 20, 18-22	0.4	
6	Magneto-Optical Kerr Effect in Multiferroic Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 966, 1		

5	Diffraction imaging of organic materials in extreme environments. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1802-1803	0.5
4	Liquid Cell TEM Study of Nanoparticle Diffusion and Interaction in Liquids. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 742-743	0.5
3	In-situ TEM Study on Sub-10 nm Materials. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1650-1651	0.5
2	Development of liquid cells for high resolution imaging and chemical analysis in situ with Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 804-806	0.5
1	Radiolysis Characterization in Liquid Cell STEM Using Ultra Low-Dose Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2626-2628	0.5