Lena F Kourkoutis

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.

196 papers	10,197 citations	43 h-index	100 g-index
208 ext. papers	12,089 ext. citations	10 avg, IF	6.16 L-index

#	Paper	IF	Citations
196	Two-dimensional charge order stabilized in clean polytype heterostructures.. *Nature Communications*, **2022**, 13, 413	17.4	0
195	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering.. *Science Advances*, **2022**, 8, eabg5860	14.3	3
194	Interfacial charge transfer and persistent metallicity of ultrathin SrIrO/SrRuO heterostructures.. *Science Advances*, **2022**, 8, eabj0481	14.3	4
193	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. *Chemical Reviews*, **2022**,	68.1	25
192	Disentangling Coexisting Structural Order Through Phase Lock-In Analysis of Atomic-Resolution STEM Data.. *Microscopy and Microanalysis*, **2022**, 1-8	0.5	0
191	A kiloelectron-volt ultrafast electron micro-diffraction apparatus using low emittance semiconductor photocathodes.. *Structural Dynamics*, **2022**, 9, 024302	3.2	1
190	Disentangling types of lattice disorder impacting superconductivity in Sr2RuO4 by quantitative local probes. *APL Materials*, **2022**, 10, 041114	5.7	0
189	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. *Cell Reports Physical Science*, **2022**, 100912	6.1	0
188	Superconductivity in a quintuple-layer square-planar nickelate. *Nature Materials*, **2021**,	27	17
187	Enhanced Li-ion diffusion and electrochemical performance in strained-manganese-iron oxide core-shell nanoparticles. *Journal of Chemical Physics*, **2021**, 155, 144702	3.9	1
186	The early-stage growth and reversibility of Li electrodeposition in Br-rich electrolytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
185	Unit-cell-thick domain in free-standing quasi-two-dimensional ferroelectric material. *Physical Review Materials*, **2021**, 5,	3.2	1
184	Charge order textures induced by non-linear couplings in a half-doped manganite. *Nature Communications*, **2021**, 12, 3747	17.4	5
183	Quantum oscillations and quasiparticle properties of thin film Sr2RuO4. *Physical Review B*, **2021**, 104,	3.3	2
182	Quantitative Mapping of Strain Defects in Multidomain Quantum Materials. *Microscopy and Microanalysis*, **2021**, 27, 1950-1952	0.5	
181	Tracking motion of topological defects in a stripe charge-ordered phase with continuously variable temperature cryo-STEM. *Microscopy and Microanalysis*, **2021**, 27, 924-926	0.5	
180	Tracking quantum phase transitions with continuously variable temperature cryo-STEM. *Microscopy and Microanalysis*, **2021**, 27, 960-961	0.5	

179	Low Dose Mapping of Semicrystallinity in Polymer Membranes with cryogenic 4D-STEM. *Microscopy and Microanalysis*, **2021**, 27, 12-13	0.5	0
178	Few-second EELS mapping with atomic-resolution. *Microscopy and Microanalysis*, **2021**, 27, 2704-2706	0.5	
177	Doping evolution of the Mott-Hubbard landscape in infinite-layer nickelates. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	33
176	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd0.775Sr0.225NiO2. *Nature Physics*, **2021**, 17, 473-477	16.2	18
175	Mapping Defect Relaxation in Quantum Dot Solids upon Heating. *ACS Nano*, **2021**, 15, 719-726	16.7	5
174	Strain-stabilized superconductivity. *Nature Communications*, **2021**, 12, 59	17.4	9
173	Improved control of atomic layering in perovskite-related homologous series. *APL Materials*, **2021**, 9, 021118	5.7	4
172	a-axis YBa2Cu3O7□/PrBa2Cu3O7□/YBa2Cu3O7□ trilayers with subnanometer rms roughness. *APL Materials*, **2021**, 9, 021117	5.7	2
171	Highly Efficient Surface Charge Transfer in Fe2TiO5 Epitaxial Thin Film Photoanodes. *ACS Applied Energy Materials*, **2021**, 4, 2098-2106	6.1	3
170	Cryogenic STEM for probing soft materials and interfaces in energy devices. *Microscopy and Microanalysis*, **2021**, 27, 1496-1497	0.5	
169	Two-dimensional charge order stabilized in clean polytype heterostructures. *Microscopy and Microanalysis*, **2021**, 27, 896-898	0.5	1
168	Dose-efficient tcBF-STEM imaging with real-space information beyond the scan sampling limit. *Microscopy and Microanalysis*, **2021**, 27, 758-760	0.5	0
167	Atomic-resolution STEM-EELS to probe and stabilize superconductivity in thin films. *Microscopy and Microanalysis*, **2021**, 27, 346-347	0.5	
166	Atomic-Resolution Cryogenic Scanning Transmission Electron Microscopy for Quantum Materials. *Accounts of Chemical Research*, **2021**, 54, 3277-3287	24.3	1
165	Nickelate Superconductivity without Rare-Earth Magnetism: (La,Sr)NiO. *Advanced Materials*, **2021**, 33, e2104083	24	29
164	Multiblock Copolymer Anion-Exchange Membranes Derived from Vinyl Addition Polynorbornenes. *ACS Applied Energy Materials*, **2021**, 4, 10273-10279	6.1	4
163	Co-precipitation induces changes to iron and carbon chemistry and spatial distribution at the nanometer scale. *Geochimica Et Cosmochimica Acta*, **2021**, 314, 1-15	5.5	2
162	Electronic Charge Transport: Breakdown of the Small-Polaron Hopping Model in Higher-Order Spinels (Adv. Mater. 49/2020). *Advanced Materials*, **2020**, 32, 2070368	24	

161	Organo-organic and organo-mineral interfaces in soil at the nanometer scale. *Nature Communications*, **2020**, 11, 6103	17.4	27
160	The Structure of Charge Density Wave Phase Transitions in Atomically Thin Materials. *Microscopy and Microanalysis*, **2020**, 26, 146-147	0.5	
159	Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials. *Microscopy and Microanalysis*, **2020**, 26, 724-727	0.5	
158	Stable Continuously Variable Temperature Cryo-STEM to Understand the Structurally Driven Phase Transition in the 2D Layered Magnet Nb3Br8. *Microscopy and Microanalysis*, **2020**, 26, 1090-1092	0.5	1
157	Sub-Ångstrom EDX Mapping Enabled by a High-brightness Cold Field Emission Source. *Microscopy and Microanalysis*, **2020**, 26, 1508-1511	0.5	2
156	Advances in Cryo-Electron Microscopy for Understanding Energy Materials. *Microscopy and Microanalysis*, **2020**, 26, 1648-1650	0.5	1
155	Low Temperature Electron Microscopy and Manipulation of Electronic Order. *Microscopy and Microanalysis*, **2020**, 26, 2028-2030	0.5	
154	Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM. *Microscopy and Microanalysis*, **2020**, 26, 2034-2035	0.5	
153	3D Visualization of Neurites in Mouse Primary Hippocampal Neuron Cultures Using Cryo-Electron Tomography. *Microscopy and Microanalysis*, **2020**, 26, 2730-2731	0.5	
152	Mechanistic Insights into Superlattice Transformation at a Single Nanocrystal Level Using Nanobeam Electron Diffraction. *Nano Letters*, **2020**, 20, 5267-5274	11.5	13
151	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. *Nano Letters*, **2020**, 20, 5735-5740	11.5	66
150	Nanoscale Elemental Mapping of Intact Solid–Liquid Interfaces and Reactive Materials in Energy Devices Enabled by Cryo-FIB/SEM. *ACS Energy Letters*, **2020**, 5, 1224-1232	20.1	13
149	Atomic-Resolution Cryo-STEM Across Continuously Variable Temperatures. *Microscopy and Microanalysis*, **2020**, 26, 439-446	0.5	8
148	Chemical gradients in human enamel crystallites. *Nature*, **2020**, 583, 66-71	50.4	50
147	Superconducting Dome in Nd_{1-x}Sr_{x}NiO_{2} Infinite Layer Films. *Physical Review Letters*, **2020**, 125, 027001	7.4	87
146	Direct comparison of optical and electron microscopy methods for structural characterization of extracellular vesicles. *Journal of Structural Biology*, **2020**, 210, 107474	3.4	31
145	Direct Visualization of Trimerized States in 1T^{'}-TaTe_{2}. *Physical Review Letters*, **2020**, 125, 165302	7.4	6
144	Breakdown of the Small-Polaron Hopping Model in Higher-Order Spinels. *Advanced Materials*, **2020**, 32, e2004490	24	5

143	Mapping and Controlling Strain in Epitaxially Connected Quantum Dot Superlattices a Path to Designer Quantum Materials. *Microscopy and Microanalysis*, **2020**, 26, 2828-2830	0.5	1
142	Strain relaxation induced transverse resistivity anomalies in SrRuO3 thin films. *Physical Review B*, **2020**, 102,	3.3	12
141	Defect accommodation in off-stoichiometric (SrTiO3)nSrO RuddlesdenPopper superlattices studied with positron annihilation spectroscopy. *Applied Physics Letters*, **2020**, 117, 062901	3.4	4
140	The Role of Dimer Formation in the Nucleation of Superlattice Transformations and Its Impact on Disorder. *ACS Nano*, **2020**, 14, 11431-11441	16.7	4
139	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. *APL Materials*, **2020**, 8, 041107	5.7	51
138	Atomic Resolution CryoSTEM Across Continuously Variable Temperatures. *Microscopy and Microanalysis*, **2019**, 25, 930-931	0.5	4
137	Low Temperature Electron Microscopy of Charge-Ordered Phases. *Microscopy and Microanalysis*, **2019**, 25, 934-935	0.5	1
136	Atomic-Scale Characterization Reveals Core-Shell Structure of Enamel Crystallites. *Microscopy and Microanalysis*, **2019**, 25, 1722-1723	0.5	2
135	Orientational Disorder in Epitaxially Connected Quantum Dot Solids. *ACS Nano*, **2019**, 13, 11460-11468	16.7	9
134	Explaining the Unusual Photoluminescence of Semiconductor Nanocrystals Doped via Cation Exchange. *Nano Letters*, **2019**, 19, 4797-4803	11.5	2
133	Carrier confinement effects observed in the normal-state electrical transport of electron-doped cuprate trilayers. *Journal Physics D: Applied Physics*, **2019**, 52, 135303	3	1
132	Towards Oxide Electronics: a Roadmap. *Applied Surface Science*, **2019**, 482, 1-93	6.7	160
131	Physical Principles of Membrane Shape Regulation by the Glycocalyx. *Cell*, **2019**, 177, 1757-1770.e21	56.2	97
130	Tunable Magnetic Transition to a Singlet Ground State in a 2D van der Waals Layered Trimerized Kagom Magnet. *ACS Nano*, **2019**, 13, 9457-9463	16.7	13
129	Low temperature hidden Fermi-liquid charge transport in under doped La Sr CuO infinite layer electron-doped thin films. *Journal of Physics Condensed Matter*, **2019**, 31, 445601	1.8	1
128	Stabilizing polymer electrolytes in high-voltage lithium batteries. *Nature Communications*, **2019**, 10, 3091	17.4	63
127	Image Registration of Low-Signal-to-Noise STEM Data with Open Source Software. *Microscopy and Microanalysis*, **2019**, 25, 200-201	0.5	
126	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. *Microscopy and Microanalysis*, **2019**, 25, 580-581	0.5	

125	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. *Microscopy and Microanalysis*, **2019**, 25, 582-583	0.5	
124	Quantifying Atomic-Scale Quantum Dot Superlattice Behavior Upon in situ Heating. *Microscopy and Microanalysis*, **2019**, 25, 1538-1539	0.5	1
123	Unraveling the Relationship Between Layer Stacking and Magnetic Order in Nb3X8 Systems via Controlled-Temperature Cryo-STEM. *Microscopy and Microanalysis*, **2019**, 25, 1852-1853	0.5	
122	High-resolution Electron Imaging and Spectroscopy of Reactive Materials and Liquid-Solid Interfaces in Energy Storage Devices. *Microscopy and Microanalysis*, **2019**, 25, 2028-2029	0.5	1
121	Cryogenic STEM Imaging and Spectroscopy of Electron Beam Sensitive Materials. *Microscopy and Microanalysis*, **2019**, 25, 1660-1661	0.5	3
120	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS2 by Cryogenic Electron Microscopy. *Advanced Energy Materials*, **2019**, 9, 1902773	21.8	18
119	Layer-dependent spin-orbit torques generated by the centrosymmetric transition metal dichalcogenide MoTe2. *Physical Review B*, **2019**, 100,	3.3	36
118	Freestanding crystalline YBa2Cu3O7 heterostructure membranes. *Physical Review Materials*, **2019**, 3,	3.2	16
117	Epitaxial SrTiO3 film on silicon with narrow rocking curve despite huge defect density. *Physical Review Materials*, **2019**, 3,	3.2	8
116	Cryo-Electron Microscopy Reveals That Sperm Modification Coincides with Female Fertility in the Mosquito Aedes aegypti. *Scientific Reports*, **2019**, 9, 18537	4.9	2
115	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. *ACS Nano*, **2019**, 13, 2599-2605	16.7	24
114	Strain Tuning in Complex Oxide Epitaxial Films Using an Ultrathin Strontium Aluminate Buffer Layer. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1700339	2.5	9
113	Fast ion transport at solid solid interfaces in hybrid battery anodes. *Nature Energy*, **2018**, 3, 310-316	62.3	313
112	Synthesis science of SrRuO3 and CaRuO3 epitaxial films with high residual resistivity ratios. *APL Materials*, **2018**, 6, 046101	5.7	41
111	Mesophase Formation Stabilizes High-Purity Magic-Sized Clusters. *Journal of the American Chemical Society*, **2018**, 140, 3652-3662	16.4	44
110	Growth of LaAlO3 on silicon via an ultrathin SrTiO3 buffer layer by molecular-beam epitaxy. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2018**, 36, 021507	2.9	9
109	Nature and evolution of incommensurate charge order in manganites visualized with cryogenic scanning transmission electron microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1445-1450	11.5	43
108	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. *Chemistry of Materials*, **2018**, 30, 5655-5662	9.6	31

107	Connectivity of centermost chromatophores in Rhodobacter sphaeroides bacteria. *Molecular Microbiology*, **2018**, 109, 812-825	4.1	16
106	Integrated Circuits Comprising Patterned Functional Liquids. *Advanced Materials*, **2018**, 30, e1802598	24	8
105	Revealing Mechanisms of Microvesicle Biogenesis in Breast Cancer Cells via in situ Microscopy. *Microscopy and Microanalysis*, **2018**, 24, 1256-1257	0.5	1
104	Atomic-resolution Cryo-STEM Imaging of a Structural Phase Transition in TaTe2. *Microscopy and Microanalysis*, **2018**, 24, 86-87	0.5	2
103	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. *Nature*, **2018** , 560, 345-349	50.4	390
102	Probing the Native Structure and Chemistry of Dendrites and SEI Layers in Li-Metal Batteries by Cryo-FIB Lift-Out and Cryo-STEM. *Microscopy and Microanalysis*, **2018**, 24, 1518-1519	0.5	1
101	Image registration of low signal-to-noise cryo-STEM data. *Ultramicroscopy*, **2018**, 191, 56-65	3.1	39
100	Rutile IrO2/TiO2 superlattices: A hyperconnected analog to the Ruddelsden-Popper structure. *Physical Review Materials*, **2018**, 2,	3.2	12
99	Breaking the Rayleigh Limit in Thick Samples with Multi-slice Ptychography. *Microscopy and Microanalysis*, **2018**, 24, 192-193	0.5	3
98	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. *Microscopy and Microanalysis*, **2018**, 24, 454-455	0.5	4
97	Atomic Resolution STEM Imaging of Human Enamel Crystallites and Characterization of its Localized Impurities. *Microscopy and Microanalysis*, **2018**, 24, 1266-1267	0.5	3
96	Demystifying the growth of superconducting Sr2RuO4 thin films. *APL Materials*, **2018**, 6, 101108	5.7	23
95	Direct Electron Detection for Atomic Resolution in situ EELS. *Microscopy and Microanalysis*, **2018**, 24, 1844-1845	0.5	8
94	Cryo-STEM Imaging of Ribosomes Using the Electron Microscope Pixel Array Detector. *Microscopy and Microanalysis*, **2018**, 24, 876-877	0.5	2
93	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. *Microscopy and Microanalysis*, **2018**, 24, 80-81	0.5	
92	Early Formation Pathways of Surfactant Micelle Directed Ultrasmall Silica Ring and Cage Structures. *Journal of the American Chemical Society*, **2018**, 140, 17343-17348	16.4	14
91	Solid electrolyte interphases for high-energy aqueous aluminum electrochemical cells. *Science Advances*, **2018**, 4, eaau8131	14.3	121
90	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides (1T-TaS2, 2H-MoS2) Using Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2018**, 24, 387-395	0.5	7

89	Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. *Advanced Energy Materials*, **2017**, 7, 1602367	21.8	95
88	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. *Microscopy and Microanalysis*, **2017**, 23, 155-162	0.5	32
87	Thermal Decomposition Synthesis of Iron Oxide Nanoparticles with Diminished Magnetic Dead Layer by Controlled Addition of Oxygen. *ACS Nano*, **2017**, 11, 2284-2303	16.7	200
86	Successive Ionic Layer Absorption and Reaction for Postassembly Control over Inorganic Interdot Bonds in Long-Range Ordered Nanocrystal Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 13500-13507	9.5	18
85	Designer interphases for the lithium-oxygen electrochemical cell. *Science Advances*, **2017**, 3, e1602809	14.3	76
84	Ultrathin Epitaxial Barrier Layer to Avoid Thermally Induced Phase Transformation in Oxide Heterostructures. *ACS Applied Materials & Interfaces*, **2017**, 9, 54-59	9.5	13
83	Physical Confinement Promoting Formation of Cu2O/Au Heterostructures with Au Nanoparticles Entrapped within Crystalline Cu2O Nanorods. *Chemistry of Materials*, **2017**, 29, 555-563	9.6	17
82	Designing solid-liquid interphases for sodium batteries. *Nature Communications*, **2017**, 8, 898	17.4	212
81	Mapping cation diffusion through lattice defects in epitaxial oxide thin films on the water-soluble buffer layer Sr3Al2O6 using atomic resolution electron microscopy. *APL Materials*, **2017**, 5, 096108	5.7	8
80	Dose-Efficient Cryo-STEM Imaging of Whole Cells Using the Electron Microscope Pixel Array Detector. *Microscopy and Microanalysis*, **2017**, 23, 804-805	0.5	6
79	Epitaxial Quantum Dot Superlattices: From Synthesis to Characterization to Electronic Structure. *Microscopy and Microanalysis*, **2017**, 23, 1884-1885	0.5	
78	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. *Joule*, **2017**, 1, 394-406	27.8	146
77	Revealing the Nanoscale Structure and Chemistry of Intact Solid-Liquid Interfaces in Electrochemical Energy Storage Devices by Cryo-FIB Lift-Out and Cryo-STEM. *Microscopy and Microanalysis*, **2017**, 23, 2004-2005	0.5	
76	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. *Nature Communications*, **2017**, 8, 252	17.4	31
75	Bending and breaking of stripes in a charge ordered manganite. *Nature Communications*, **2017**, 8, 1883	17.4	38
74	Insulator-to-Metal Transition at Oxide Interfaces Induced by WO Overlayers. *ACS Applied Materials & Interfaces*, **2017**, 9, 42336-42343	9.5	5
73	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. *Microscopy and Microanalysis*, **2017**, 23, 366-367	0.5	14
72	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2017**, 23, 420-421	0.5	

71	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. *Microscopy and Microanalysis*, **2017**, 23, 428-429	0.5	3
70	Emergent Phase Coherence of Stripe Order in Manganites Revealed with Cryogenic Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2017**, 23, 1630-1631	0.5	
69	Cryo-FIB Milling and Lift-Out for Preparation of Specimens for Cryo-TEM. *Microscopy and Microanalysis*, **2017**, 23, 2312-2313	0.5	0
68	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. *Nano Letters*, **2016**, 16, 5714-8	11.5	34
67	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. *Nature*, **2016**, 537, 523-7	50.4	221
66	Synthesis of freestanding single-crystal perovskite films and heterostructures by etching of sacrificial water-soluble layers. *Nature Materials*, **2016**, 15, 1255-1260	27	237
65	Understanding Initial Formation Stages of Nanomaterials Using Cryo-TEM. *Microscopy and Microanalysis*, **2016**, 22, 1844-1845	0.5	
64	Site-Specific Preparation of Intact Solid-Liquid Interfaces by Label-Free In Situ Localization and Cryo-Focused Ion Beam Lift-Out. *Microscopy and Microanalysis*, **2016**, 22, 1338-1349	0.5	26
63	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. *Nano Letters*, **2016**, 16, 651-5	11.5	22
62	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. *Chemistry of Materials*, **2016**, 28, 127-134	9.6	40
61	Charge transport and localization in atomically coherent quantum dot solids. *Nature Materials*, **2016**, 15, 557-63	27	192
60	Atomic Detail Visualization of Photosynthetic Membranes with GPU-Accelerated Ray Tracing. *Parallel Computing*, **2016**, 55, 17-27	1	29
59	Stability of niosomes with encapsulated vitamin D3 and ferrous sulfate generated using a novel supercritical carbon dioxide method. *Journal of Liposome Research*, **2016**, 26, 261-8	6.1	18
58	Localization of Subsurface Structures for Site-Specific Cryo-FIB Lift-Out Preparation of Solid-Liquid Interfaces. *Microscopy and Microanalysis*, **2016**, 22, 164-165	0.5	
57	Quantitative, Real-Space Statistical Analysis of Imperfect Lattices. *Microscopy and Microanalysis*, **2016**, 22, 892-893	0.5	
56	Probing the Nanoscale Features of Rhodobacter Sphaeroides: Insight Gained from Cryo-Focused Ion Beam and Cryo-Electron Tomography. *Microscopy and Microanalysis*, **2016**, 22, 1122-1123	0.5	
55	Advances in Mapping Periodic Structural Modulations of Atomic Lattices. *Microscopy and Microanalysis*, **2016**, 22, 552-553	0.5	
54	Mapping Periodic Lattice Distortions in Exfoliated Dichalchogenides with Atomic Resolution cryo-STEM. *Microscopy and Microanalysis*, **2016**, 22, 1550-1551	0.5	

53	Epitaxial growth and electronic properties of mixed valence YbAl3 thin films. *Journal of Applied Physics*, **2016**, 120, 035105	2.5	2
52	Strain Accommodation and Coherency in Laterally-Stitched WSe 2 /WS 2 Junctions. *Microscopy and Microanalysis*, **2016**, 22, 870-871	0.5	5
51	Thickness and Stacking Sequence Determination of Exfoliated Dichalchogenides Using Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2016**, 22, 1456-1457	0.5	
50	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. *Microscopy and Microanalysis*, **2016**, 22, 1718-1719	0.5	2
49	Impurity Segregation via Extended Defects in Oxide Thin Films Probed by Aberration-Corrected STEM-EELS. *Microscopy and Microanalysis*, **2016**, 22, 1518-1519	0.5	
48	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. *Scientific Data*, **2016**, 3, 160041	8.2	36
47	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS2). *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11420-11424	11.5	62
46	Hierarchically structured hematite architectures achieved by growth in a silica hydrogel. *Journal of the American Chemical Society*, **2015**, 137, 5184-92	16.4	21
45	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. *Nature Communications*, **2015**, 6, 6759	17.4	43
44	Enhanced Supercapacitor Performance for Equal Co⁄Mn Stoichiometry in Colloidal Co3-xMnxO4 Nanoparticles, in Additive-Free Electrodes. *Chemistry of Materials*, **2015**, 27, 7861-7873	9.6	66
43	Structure and control of charge density waves in two-dimensional 1T-TaS2. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 15054-9	11.5	151
42	Periodic artifact reduction in Fourier transforms of full field atomic resolution images. *Microscopy and Microanalysis*, **2015**, 21, 436-41	0.5	11
41	Revealing the Internal Structure and Local Chemistry of Nanocrystals Grown in Hydrogel with Cryo-FIB Lift-Out and Cryo-STEM. *Microscopy and Microanalysis*, **2015**, 21, 2291-2292	0.5	2
40	Strain Control at Two-Dimensional Oxide Interfaces Probed by Aberration-Corrected STEM-EELS. *Microscopy and Microanalysis*, **2015**, 21, 1137-1138	0.5	
39	Cryo-STEM Reveals Humidity-Controlled Shape Change in Silica Nanoparticles. *Microscopy and Microanalysis*, **2015**, 21, 1827-1828	0.5	
38	Long Range Order and Atomic Connectivity in Two-Dimensional Square PbSe Nanocrystal Superlattices. *Microscopy and Microanalysis*, **2015**, 21, 1329-1330	0.5	1
37	Visualizing the interfacial evolution from charge compensation to metallic screening across the manganite metal-insulator transition. *Nature Communications*, **2014**, 5, 3464	17.4	65
36	Hetero-epitaxial EuO interfaces studied by analytic electron microscopy. *Applied Physics Letters*, **2014**, 104, 091601	3.4	21

35	Atomically engineered metal-insulator transition at the TiO2/LaAlO3 heterointerface. *Nano Letters*, **2014**, 14, 6743-6	11.5	23
34	Atomically precise interfaces from non-stoichiometric deposition. *Nature Communications*, **2014**, 5, 4530	17.4	86
33	Capturing the Structure of Mesoporous Silica Nanoparticles in Solution With Cryo-TEM. *Microscopy and Microanalysis*, **2014**, 20, 442-443	0.5	
32	Characterizing Sulfur in TEM and STEM, with Applications to Lithium Sulfur Batteries. *Microscopy and Microanalysis*, **2014**, 20, 446-447	0.5	5
31	Three-Dimensional Arrangement and Connectivity of Lead-Chalcogenide Nanoparticle Assemblies for Next Generation Photovoltaics. *Microscopy and Microanalysis*, **2014**, 20, 542-543	0.5	2
30	Visualizing short-range charge transfer at the interfaces between ferromagnetic and superconducting oxides. *Nature Communications*, **2013**, 4, 2336	17.4	61
29	Three-dimensional imaging for precise structural control of Si quantum dot networks for all-Si solar cells. *Nanoscale*, **2013**, 5, 7499-504	7.7	19
28	LaAlO3 stoichiometry is key to electron liquid formation at LaAlO3/SrTiO3 interfaces. *Nature Communications*, **2013**, 4, 2351	17.4	177
27	Interface superconductor with gap behaviour like a high-temperature superconductor. *Nature*, **2013**, 502, 528-31	50.4	174
26	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. *Nature*, **2013**, 502, 532-6	50.4	170
25	Adsorption-controlled growth of BiVO4 by molecular-beam epitaxy. *APL Materials*, **2013**, 1, 042112	5.7	54
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