

Lena F Kourkoutis

List of Publications by Year in descending order

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200
papers

14,036
citations

29994

54
h-index

20307

116
g-index

208
all docs

208
docs citations

208
times ranked

17229
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting Interfaces Between Insulating Oxides. <i>Science</i> , 2007, 317, 1196-1199.	6.0	2,374
2	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. <i>Nature</i> , 2010, 466, 954-958.	13.7	668
3	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018, 560, 345-349.	13.7	586
4	Atomic-Scale Chemical Imaging of Composition and Bonding by Aberration-Corrected Microscopy. <i>Science</i> , 2008, 319, 1073-1076.	6.0	566
5	High-temperature interface superconductivity between metallic and insulating copper oxides. <i>Nature</i> , 2008, 455, 782-785.	13.7	456
6	Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018, 3, 310-316.	19.8	413
7	Synthesis of freestanding single-crystal perovskite films and heterostructures by etching of sacrificial water-soluble layers. <i>Nature Materials</i> , 2016, 15, 1255-1260.	13.3	387
8	A Ferroelectric Oxide Made Directly on Silicon. <i>Science</i> , 2009, 324, 367-370.	6.0	347
9	Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017, 8, 898.	5.8	303
10	Thermal Decomposition Synthesis of Iron Oxide Nanoparticles with Diminished Magnetic Dead Layer by Controlled Addition of Oxygen. <i>ACS Nano</i> , 2017, 11, 2284-2303.	7.3	286
11	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. <i>Nature</i> , 2016, 537, 523-527.	13.7	275
12	Epitaxial integration of the highly spin-polarized ferromagnetic semiconductor EuO with silicon and GaN. <i>Nature Materials</i> , 2007, 6, 882-887.	13.3	247
13	Charge transport and localization in atomically coherent quantum dot solids. <i>Nature Materials</i> , 2016, 15, 557-563.	13.3	244
14	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019, 482, 1-93.	3.1	236
15	Interface superconductor with gap behaviour like a high-temperature superconductor. <i>Nature</i> , 2013, 502, 528-531.	13.7	209
16	Structure and control of charge density waves in two-dimensional 1T-TaS ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15054-15059.	3.3	205
17	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013, 502, 532-536.	13.7	204
18	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017, 1, 394-406.	11.7	202

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55	Effect of reduced dimensionality on the optical band gap of SrTiO ₃ . Applied Physics Letters, 2013, 102, .	1.5	52
56	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. Chemistry of Materials, 2016, 28, 127-134.	3.2	51
57	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. Nature Communications, 2017, 8, 252.	5.8	51
58	Bending and breaking of stripes in a charge ordered manganite. Nature Communications, 2017, 8, 1883.	5.8	51
59	Nanometer Scale Electronic Reconstruction at the Interface between LaVO ₃ and LaVO ₄ . Physical Review Letters, 2006, 97, 256803.	2.9	50
60	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd _{0.775} Sr _{0.225} NiO ₂ . Nature Physics, 2021, 17, 473-477.	6.5	50
61	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. Chemistry of Materials, 2018, 30, 5655-5662.	3.2	49
62	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. Nano Letters, 2016, 16, 5714-5718.	4.5	43
63	Strain-stabilized superconductivity. Nature Communications, 2021, 12, 59.	5.8	43
64	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. Scientific Data, 2016, 3, 160041.	2.4	42
65	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. Microscopy and Microanalysis, 2017, 23, 155-162.	0.2	40
66	Freestanding crystalline $\text{YBaCu}_3\text{O}_{7-x}$	0.9	38
67	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.	0.2	37
68	Atomic detail visualization of photosynthetic membranes with GPU-accelerated ray tracing. Parallel Computing, 2016, 55, 17-27.	1.3	37
69	Asymmetric interface profiles in LaVO ₃ /SrTiO ₃ heterostructures grown by pulsed laser deposition. Applied Physics Letters, 2007, 91, 163101.	1.5	35
70	Demystifying the growth of superconducting Sr ₂ RuO ₄ thin films. APL Materials, 2018, 6, .	2.2	33
71	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS ₂ by Cryogenic Electron Microscopy. Advanced Energy Materials, 2019, 9, 1902773.	10.2	33
72	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. ACS Nano, 2019, 13, 2599-2605.	7.3	32

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73	Tunable Magnetic Transition to a Singlet Ground State in a 2D van der Waals Layered Trimerized Kagomé Magnet. ACS Nano, 2019, 13, 9457-9463.	7.3	31
74	Ultrathin Epitaxial Barrier Layer to Avoid Thermally Induced Phase Transformation in Oxide Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 54-59.	4.0	27
75	Multiscale hierarchical structures from a nanocluster mesophase. Nature Materials, 2022, 21, 518-525.	13.3	27
76	Pulsed Laser Annealing of Thin Films of Self-Assembled Nanocrystals. ACS Nano, 2011, 5, 7010-7019.	7.3	26
77	Hetero-epitaxial EuO interfaces studied by analytic electron microscopy. Applied Physics Letters, 2014, 104, .	1.5	26
78	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. Nano Letters, 2016, 16, 651-655.	4.5	26
79	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, .	3.3	26
80	Atomically Engineered Metal-Insulator Transition at the TiO ₂ /LaAlO ₃ Heterointerface. Nano Letters, 2014, 14, 6743-6746.	4.5	24
81	Hierarchically Structured Hematite Architectures Achieved by Growth in a Silica Hydrogel. Journal of the American Chemical Society, 2015, 137, 5184-5192.	6.6	24
82	Stability of niosomes with encapsulated vitamin D ₃ and ferrous sulfate generated using a novel supercritical carbon dioxide method. Journal of Liposome Research, 2016, 26, 261-268.	1.5	24
83	Connectivity of centermost chromatophores in <i>Rhodobacter sphaeroides</i> bacteria. Molecular Microbiology, 2018, 109, 812-825.	1.2	24
84	Si and Ge nanocluster formation in silica matrix. Semiconductors, 2007, 41, 381-386.	0.2	23
85	Atomic-Resolution Cryo-STEM Across Continuously Variable Temperatures. Microscopy and Microanalysis, 2020, 26, 439-446.	0.2	23
86	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.	8.8	22
87	Three-dimensional imaging for precise structural control of Si quantum dot networks for all-Si solar cells. Nanoscale, 2013, 5, 7499.	2.8	20
88	Physical Confinement Promoting Formation of Cu ₂ O-Au Heterostructures with Au Nanoparticles Entrapped within Crystalline Cu ₂ O Nanorods. Chemistry of Materials, 2017, 29, 555-563.	3.2	20
89	Breakdown of the Small-Polaron Hopping Model in Higher-Order Spinels. Advanced Materials, 2020, 32, e2004490.	11.1	20
90	Mechanistic Insights into Superlattice Transformation at a Single Nanocrystal Level Using Nanobeam Electron Diffraction. Nano Letters, 2020, 20, 5267-5274.	4.5	20

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91	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.	4.0	18
92	Early Formation Pathways of Surfactant Micelle Directed Ultrasmall Silica Ring and Cage Structures. Journal of the American Chemical Society, 2018, 140, 17343-17348.	6.6	18
93	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering. Science Advances, 2022, 8, eabg5860.	4.7	18
94	Valence Changes and Structural Distortions in δ -Charge Ordered Manganites Quantified by Atomic-Scale Scanning Transmission Electron Microscopy. Physical Review Letters, 2007, 99, 237205.	2.9	17
95	Direct Visualization of Trimerized States in $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$. Physical Review Letters, 2020, 125, 165302.	2.9	17
96	Rutile $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$ superlattices: A hyperconnected analog to the Ruddelsden-Popper structure. Physical Review Materials, 2018, 2, .	0.9	17
97	Negative differential resistance induced by Mn substitution at SrRuO_3 interfaces. Physical Review B, 2008, 77, .	1.1	16
98	Epitaxial $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ GaN heterostructures with abrupt interfaces. Journal of Crystal Growth, 2009, 311, 1106-1109.	0.7	16
99	Strain relaxation induced transverse resistivity anomalies in $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$ thin films. Physical Review B, 2020, 102, .	1.1	15
100	Multiblock Copolymer Anion-Exchange Membranes Derived from Vinyl Addition Polynorbornenes. ACS Applied Energy Materials, 2021, 4, 10273-10279.	2.5	15
101	Interfacial charge transfer and persistent metallicity of ultrathin $\text{SrIrO}_3/\text{SrRuO}_3$ heterostructures. Science Advances, 2022, 8, eabj0481.	4.7	15
102	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. Microscopy and Microanalysis, 2017, 23, 366-367.	0.2	14
103	Improved control of atomic layering in perovskite-related homologous series. APL Materials, 2021, 9, .	2.2	14
104	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
105	Periodic Artifact Reduction in Fourier Transforms of Full Field Atomic Resolution Images. Microscopy and Microanalysis, 2015, 21, 436-441.	0.2	13
106	Mapping cation diffusion through lattice defects in epitaxial oxide thin films on the water-soluble buffer layer $\text{Sr}_3\text{Al}_2\text{O}_6$ using atomic resolution electron microscopy. APL Materials, 2017, 5, .	2.2	13
107	Strain Tuning in Complex Oxide Epitaxial Films Using an Ultrathin Strontium Aluminate Buffer Layer. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700339.	1.2	13
108	Orientational Disorder in Epitaxially Connected Quantum Dot Solids. ACS Nano, 2019, 13, 11460-11468.	7.3	12

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109	Mapping Defect Relaxation in Quantum Dot Solids upon <i>In Situ</i> Heating. ACS Nano, 2021, 15, 719-726.	7.3	12
110	Charge order textures induced by non-linear couplings in a half-doped manganite. Nature Communications, 2021, 12, 3747.	5.8	12
111	Atomic-Resolution Cryogenic Scanning Transmission Electron Microscopy for Quantum Materials. Accounts of Chemical Research, 2021, 54, 3277-3287.	7.6	12
112	Epitaxial SrTiO_3 film on silicon with narrow rocking curve despite huge defect density. Physical Review Materials, 2019, 3, .	0.9	12
113	A kiloelectron-volt ultrafast electron micro-diffraction apparatus using low emittance semiconductor photocathodes. Structural Dynamics, 2022, 9, 024302.	0.9	12
114	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides (1T-TaS_2), Tj ETQq0 0 0 rgBT /Overlock 10 Microanalysis, 2018, 24, 387-395.	0.2	11
115	Growth of LaAlO_3 on silicon via an ultrathin SrTiO_3 buffer layer by molecular-beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	10
116	Direct Electron Detection for Atomic Resolution in situ EELS. Microscopy and Microanalysis, 2018, 24, 1844-1845.	0.2	10
117	Integrated Circuits Comprising Patterned Functional Liquids. Advanced Materials, 2018, 30, e1802598.	11.1	10
118	Defect accommodation in off-stoichiometric (SrTiO_3) SrO Ruddlesden-Popper superlattices studied with positron annihilation spectroscopy. Applied Physics Letters, 2020, 117, .	1.5	10
119	Co-precipitation induces changes to iron and carbon chemistry and spatial distribution at the nanometer scale. Geochimica Et Cosmochimica Acta, 2021, 314, 1-15.	1.6	10
120	The Role of Dimer Formation in the Nucleation of Superlattice Transformations and Its Impact on Disorder. ACS Nano, 2020, 14, 11431-11441.	7.3	9
121	Disentangling Coexisting Structural Order Through Phase Lock-In Analysis of Atomic-Resolution STEM Data. Microscopy and Microanalysis, 2022, 28, 404-411.	0.2	9
122	Dose-Efficient Cryo-STEM Imaging of Whole Cells Using the Electron Microscope Pixel Array Detector. Microscopy and Microanalysis, 2017, 23, 804-805.	0.2	8
123	Canonical approach to cation flux calibration in oxide molecular-beam epitaxy. Physical Review Materials, 2022, 6, .	0.9	8
124	Imaging Sensitive Materials, Interfaces, and Quantum Materials with Cryogenic Electron Microscopy. Accounts of Chemical Research, 2021, 54, 3619-3620.	7.6	7
125	Synthesis and electronic properties of Nd_3O_3 Ruddlesden-Popper nickelate thin films. Physical Review Materials, 2022, 6, .	0.9	7
126	Insulator-to-Metal Transition at Oxide Interfaces Induced by WO_3 Overlayers. ACS Applied Materials & Interfaces, 2017, 9, 42336-42343.	4.0	6

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127	Breaking the Rayleigh Limit in Thick Samples with Multi-slice Ptychography. <i>Microscopy and Microanalysis</i> , 2018, 24, 192-193.	0.2	6
128	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. <i>Microscopy and Microanalysis</i> , 2018, 24, 454-455.	0.2	6
129	Cryo-Electron Microscopy Reveals That Sperm Modification Coincides with Female Fertility in the Mosquito <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2019, 9, 18537.	1.6	6
130	a -axis $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ / $\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ / $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ trilayers with subnanometer rms roughness. <i>APL Materials</i> , 2021, 9, .	2.2	6
131	Characterizing Sulfur in TEM and STEM, with Applications to Lithium Sulfur Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 446-447.	0.2	5
132	Strain Accommodation and Coherency in Laterally-Stitched WSe_2/WS_2 Junctions. <i>Microscopy and Microanalysis</i> , 2016, 22, 870-871.	0.2	5
133	Cryo-FIB Milling and Lift-Out for Preparation of Specimens for Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 2312-2313.	0.2	5
134	Explaining the Unusual Photoluminescence of Semiconductor Nanocrystals Doped via Cation Exchange. <i>Nano Letters</i> , 2019, 19, 4797-4803.	4.5	5
135	Highly Efficient Surface Charge Transfer in Fe_2TiO_5 Epitaxial Thin Film Photoanodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 2098-2106.	2.5	5
136	Revealing the Internal Structure and Local Chemistry of Nanocrystals Grown in Hydrogel with Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 2291-2292.	0.2	4
137	Epitaxial growth and electronic properties of mixed valence YbAl_3 thin films. <i>Journal of Applied Physics</i> , 2016, 120, 035105.	1.1	4
138	Atomic Resolution CryoSTEM Across Continuously Variable Temperatures. <i>Microscopy and Microanalysis</i> , 2019, 25, 930-931.	0.2	4
139	Atomic-Scale Characterization Reveals Core-Shell Structure of Enamel Crystallites. <i>Microscopy and Microanalysis</i> , 2019, 25, 1722-1723.	0.2	4
140	Carrier confinement effects observed in the normal-state electrical transport of electron-doped cuprate trilayers. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 135303.	1.3	4
141	Quantum oscillations and quasiparticle properties of thin film Sr_2RuO_4 . <i>Physical Review B</i> , 2021, 104, .		
142	Enhanced Li-ion diffusion and electrochemical performance in strained-manganese-iron oxide core-shell nanoparticles. <i>Journal of Chemical Physics</i> , 2021, 155, 144702.	1.2	4
143	Disentangling types of lattice disorder impacting superconductivity in Sr_2RuO_4 by quantitative local probes. <i>APL Materials</i> , 2022, 10, .	2.2	4
144	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. <i>Microscopy and Microanalysis</i> , 2016, 22, 1718-1719.	0.2	3

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145	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. <i>Microscopy and Microanalysis</i> , 2017, 23, 428-429.	0.2	3
146	Atomic Resolution STEM Imaging of Human Enamel Crystallites and Characterization of its Localized Impurities. <i>Microscopy and Microanalysis</i> , 2018, 24, 1266-1267.	0.2	3
147	Atomic-resolution Cryo-STEM Imaging of a Structural Phase Transition in TaTe ₂ . <i>Microscopy and Microanalysis</i> , 2018, 24, 86-87.	0.2	3
148	Cryogenic STEM Imaging and Spectroscopy of Electron Beam Sensitive Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 1660-1661.	0.2	3
149	Sub-Ångstrom EDX Mapping Enabled by a High-brightness Cold Field Emission Source. <i>Microscopy and Microanalysis</i> , 2020, 26, 1508-1511.	0.2	3
150	Unit-cell-thick domain in free-standing quasi-two-dimensional ferroelectric material. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
151	Dose-efficient tcBF-STEM imaging with real-space information beyond the scan sampling limit. <i>Microscopy and Microanalysis</i> , 2021, 27, 758-760.	0.2	3
152	Three-Dimensional Arrangement and Connectivity of Lead-Chalcogenide Nanoparticle Assemblies for Next Generation Photovoltaics. <i>Microscopy and Microanalysis</i> , 2014, 20, 542-543.	0.2	2
153	Cryo-STEM Imaging of Ribosomes Using the Electron Microscope Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2018, 24, 876-877.	0.2	2
154	Low temperature hidden Fermi-liquid charge transport in under doped La _x Sr _{1-x} CuO ₂ infinite layer electron-doped thin films. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 445601.	0.7	2
155	Comment on "Half-metallicity in europium oxide conductively matched with silicon". <i>Physical Review B</i> , 2009, 80, .	1.1	1
156	Capturing the Structure of Mesoporous Silica Nanoparticles in Solution With Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 442-443.	0.2	1
157	Long Range Order and Atomic Connectivity in Two-Dimensional Square PbSe Nanocrystal Superlattices. <i>Microscopy and Microanalysis</i> , 2015, 21, 1329-1330.	0.2	1
158	Revealing Mechanisms of Microvesicle Biogenesis in Breast Cancer Cells via in situ Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1256-1257.	0.2	1
159	Probing the Native Structure and Chemistry of Dendrites and SEI Layers in Li-Metal Batteries by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 1518-1519.	0.2	1
160	Quantifying Atomic-Scale Quantum Dot Superlattice Behavior Upon in situ Heating. <i>Microscopy and Microanalysis</i> , 2019, 25, 1538-1539.	0.2	1
161	High-resolution Electron Imaging and Spectroscopy of Reactive Materials and Liquid-Solid Interfaces in Energy Storage Devices. <i>Microscopy and Microanalysis</i> , 2019, 25, 2028-2029.	0.2	1
162	Low Temperature Electron Microscopy of "Charge-Ordered" Phases. <i>Microscopy and Microanalysis</i> , 2019, 25, 934-935.	0.2	1

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163	Mapping and Controlling Strain in Epitaxially Connected Quantum Dot Superlattices – a Path to Designer Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 2828-2830.	0.2	1
164	Stable Continuously Variable Temperature Cryo-STEM to Understand the Structurally Driven Phase Transition in the 2D Layered Magnet Nb ₃ Br ₈ . <i>Microscopy and Microanalysis</i> , 2020, 26, 1090-1092.	0.2	1
165	Advances in Cryo-Electron Microscopy for Understanding Energy Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 1648-1650.	0.2	1
166	Tracking quantum phase transitions with continuously variable temperature cryo-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 960-961.	0.2	1
167	Low Dose Mapping of Semicrystallinity in Polymer Membranes with cryogenic 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 12-13.	0.2	1
168	Two-dimensional charge order stabilized in clean polytype heterostructures. <i>Microscopy and Microanalysis</i> , 2021, 27, 896-898.	0.2	1
169	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. <i>Cell Reports Physical Science</i> , 2022, 3, 100912.	2.8	1
170	Si ⁺ ion implantation in silica and ion beam mixing in SiO ₂ /Si interfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1398-1402.	0.8	0
171	Strain Control at Two-Dimensional Oxide Interfaces Probed by Aberration-Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1137-1138.	0.2	0
172	Cryo-STEM Reveals Humidity-Controlled Shape Change in Silica Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 1827-1828.	0.2	0
173	Localization of Subsurface Structures for Site-Specific Cryo-FIB Lift-Out Preparation of Solid-Liquid Interfaces. <i>Microscopy and Microanalysis</i> , 2016, 22, 164-165.	0.2	0
174	Quantitative, Real-Space Statistical Analysis of Imperfect Lattices. <i>Microscopy and Microanalysis</i> , 2016, 22, 892-893.	0.2	0
175	Probing the Nanoscale Features of Rhodobacter Sphaeroides: Insight Gained from Cryo-Focused Ion Beam and Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2016, 22, 1122-1123.	0.2	0
176	Advances in Mapping Periodic Structural Modulations of Atomic Lattices. <i>Microscopy and Microanalysis</i> , 2016, 22, 552-553.	0.2	0
177	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1550-1551.	0.2	0
178	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1456-1457.	0.2	0
179	Impurity Segregation via Extended Defects in Oxide Thin Films Probed by Aberration-Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2016, 22, 1518-1519.	0.2	0
180	Understanding Initial Formation Stages of Nanomaterials Using Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1844-1845.	0.2	0

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181	Revealing the Nanoscale Structure and Chemistry of Intact Solid-Liquid Interfaces in Electrochemical Energy Storage Devices by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 2004-2005.	0.2	0
182	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 420-421.	0.2	0
183	Emergent Phase Coherence of Stripe Order in Manganites Revealed with Cryogenic Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1630-1631.	0.2	0
184	Epitaxial Quantum Dot Superlattices: From Synthesis to Characterization to Electronic Structure. <i>Microscopy and Microanalysis</i> , 2017, 23, 1884-1885.	0.2	0
185	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. <i>Microscopy and Microanalysis</i> , 2018, 24, 80-81.	0.2	0
186	Image Registration of Low-Signal-to-Noise STEM Data with Open Source Software. <i>Microscopy and Microanalysis</i> , 2019, 25, 200-201.	0.2	0
187	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. <i>Microscopy and Microanalysis</i> , 2019, 25, 580-581.	0.2	0
188	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. <i>Microscopy and Microanalysis</i> , 2019, 25, 582-583.	0.2	0
189	Unraveling the Relationship Between Layer Stacking and Magnetic Order in Nb ₃ X ₈ Systems via Controlled-Temperature Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 1852-1853.	0.2	0
190	Electronic Charge Transport: Breakdown of the Small Polaron Hopping Model in Higher Order Spinel (Adv. Mater. 49/2020). <i>Advanced Materials</i> , 2020, 32, 2070368.	11.1	0
191	The Structure of Charge Density Wave Phase Transitions in Atomically Thin Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 146-147.	0.2	0
192	Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 724-727.	0.2	0
193	Low Temperature Electron Microscopy and Manipulation of Electronic Order. <i>Microscopy and Microanalysis</i> , 2020, 26, 2028-2030.	0.2	0
194	Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 2034-2035.	0.2	0
195	3D Visualization of Neurites in Mouse Primary Hippocampal Neuron Cultures Using Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 2730-2731.	0.2	0
196	Quantitative Mapping of Strain Defects in Multidomain Quantum Materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 1950-1952.	0.2	0
197	Tracking motion of topological defects in a stripe charge-ordered phase with continuously variable temperature cryo-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 924-926.	0.2	0
198	Few-second EELS mapping with atomic-resolution. <i>Microscopy and Microanalysis</i> , 2021, 27, 2704-2706.	0.2	0

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199	Cryogenic STEM for probing soft materials and interfaces in energy devices. <i>Microscopy and Microanalysis</i> , 2021, 27, 1496-1497.	0.2	0
200	Atomic-resolution STEM-EELS to probe and stabilize superconductivity in thin films. <i>Microscopy and Microanalysis</i> , 2021, 27, 346-347.	0.2	0