

Lena F Kourkoutis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3019272/lena-f-kourkoutis-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Superconducting interfaces between insulating oxides. <i>Science</i> , 2007 , 317, 1196-9	33.3	2013
195	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. <i>Nature</i> , 2010 , 466, 954-8	50.4	586
194	Atomic-scale chemical imaging of composition and bonding by aberration-corrected microscopy. <i>Science</i> , 2008 , 319, 1073-6	33.3	513
193	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018 , 560, 345-349	50.4	390
192	High-temperature interface superconductivity between metallic and insulating copper oxides. <i>Nature</i> , 2008 , 455, 782-5	50.4	390
191	A ferroelectric oxide made directly on silicon. <i>Science</i> , 2009 , 324, 367-70	33.3	320
190	Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018 , 3, 310-316	62.3	313
189	Synthesis of freestanding single-crystal perovskite films and heterostructures by etching of sacrificial water-soluble layers. <i>Nature Materials</i> , 2016 , 15, 1255-1260	27	237
188	Epitaxial integration of the highly spin-polarized ferromagnetic semiconductor EuO with silicon and GaN. <i>Nature Materials</i> , 2007 , 6, 882-7	27	222
187	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. <i>Nature</i> , 2016 , 537, 523-7	50.4	221
186	Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017 , 8, 898	17.4	212
185	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	16.7	200
184	Charge transport and localization in atomically coherent quantum dot solids. <i>Nature Materials</i> , 2016 , 15, 557-63	27	192
183	Growth of homoepitaxial SrTiO ₃ thin films by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2009 , 94, 162905	3.4	179
182	LaAlO ₃ stoichiometry is key to electron liquid formation at LaAlO ₃ /SrTiO ₃ interfaces. <i>Nature Communications</i> , 2013 , 4, 2351	17.4	177
181	Interface superconductor with gap behaviour like a high-temperature superconductor. <i>Nature</i> , 2013 , 502, 528-31	50.4	174
180	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013 , 502, 532-6	50.4	170

179	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019 , 482, 1-93	6.7	160
178	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, 15054-9	11.5	151
177	Atomic-resolution spectroscopic imaging of ensembles of nanocatalyst particles across the life of a fuel cell. <i>Nano Letters</i> , 2012 , 12, 490-7	11.5	149
176	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017 , 1, 394-406	27.8	146
175	Solid electrolyte interphases for high-energy aqueous aluminum electrochemical cells. <i>Science Advances</i> , 2018 , 4, eaau8131	14.3	121
174	Microscopic origins for stabilizing room-temperature ferromagnetism in ultrathin manganite layers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11682-5	11.5	120
173	Controlled synthesis of uniform cobalt phosphide hyperbranched nanocrystals using tri-n-octylphosphine oxide as a phosphorus source. <i>Nano Letters</i> , 2011 , 11, 188-97	11.5	103
172	Physical Principles of Membrane Shape Regulation by the Glycocalyx. <i>Cell</i> , 2019 , 177, 1757-1770.e21	56.2	97
171	Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602367	21.8	95
170	Electron Microscopy of Biological Materials at the Nanometer Scale. <i>Annual Review of Materials Research</i> , 2012 , 42, 33-58	12.8	91
169	Superconducting Dome in Nd _{1-x} Sr _x NiO ₂ Infinite Layer Films. <i>Physical Review Letters</i> , 2020 , 125, 027001	7.4	87
168	Atomically precise interfaces from non-stoichiometric deposition. <i>Nature Communications</i> , 2014 , 5, 4530	17.4	86
167	Designer interphases for the lithium-oxygen electrochemical cell. <i>Science Advances</i> , 2017 , 3, e1602809	14.3	76
166	Enhanced Supercapacitor Performance for Equal Co/Mn Stoichiometry in Colloidal Co _{3-x} Mn _x O ₄ Nanoparticles, in Additive-Free Electrodes. <i>Chemistry of Materials</i> , 2015 , 27, 7861-7873	9.6	66
165	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. <i>Nano Letters</i> , 2020 , 20, 5735-5740	17.4	66
164	Visualizing the interfacial evolution from charge compensation to metallic screening across the manganite metal-insulator transition. <i>Nature Communications</i> , 2014 , 5, 3464	17.4	65
163	Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019 , 10, 3091	17.4	63
162	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS ₂). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11420-11424	11.5	62

161	Visualizing short-range charge transfer at the interfaces between ferromagnetic and superconducting oxides. <i>Nature Communications</i> , 2013 , 4, 2336	17.4	61
160	Optical band gap and magnetic properties of unstrained EuTiO ₃ films. <i>Applied Physics Letters</i> , 2009 , 94, 212509	3.4	56
159	Adsorption-controlled growth of BiVO ₄ by molecular-beam epitaxy. <i>APL Materials</i> , 2013 , 1, 042112	5.7	54
158	Epitaxial oxygen getter for a brownmillerite phase transformation in manganite films. <i>Advanced Materials</i> , 2011 , 23, 1226-30	24	51
157	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. <i>APL Materials</i> , 2020 , 8, 041107	5.7	51
156	Chemical gradients in human enamel crystallites. <i>Nature</i> , 2020 , 583, 66-71	50.4	50
155	Effect of reduced dimensionality on the optical band gap of SrTiO ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 122901	3.4	45
154	Mesophase Formation Stabilizes High-Purity Magic-Sized Clusters. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3652-3662	16.4	44
153	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. <i>Nature Communications</i> , 2015 , 6, 6759	17.4	43
152	Nature and evolution of incommensurate charge order in manganites visualized with cryogenic scanning transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1445-1450	11.5	43
151	Nanometer scale electronic reconstruction at the interface between LaVO ₃ and LaVO ₄ . <i>Physical Review Letters</i> , 2006 , 97, 256803	7.4	42
150	Synthesis science of SrRuO ₃ and CaRuO ₃ epitaxial films with high residual resistivity ratios. <i>APL Materials</i> , 2018 , 6, 046101	5.7	41
149	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. <i>Chemistry of Materials</i> , 2016 , 28, 127-134	9.6	40
148	Image registration of low signal-to-noise cryo-STEM data. <i>Ultramicroscopy</i> , 2018 , 191, 56-65	3.1	39
147	Bending and breaking of stripes in a charge ordered manganite. <i>Nature Communications</i> , 2017 , 8, 1883	17.4	38
146	Layer-dependent spin-orbit torques generated by the centrosymmetric transition metal dichalcogenide MoTe_2 . <i>Physical Review B</i> , 2019 , 100,	3.3	36
145	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. <i>Scientific Data</i> , 2016 , 3, 160041	8.2	36
144	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. <i>Nano Letters</i> , 2016 , 16, 5714-8	11.5	34

143	Asymmetric interface profiles in LaVO ₃ /BrTiO ₃ heterostructures grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007 , 91, 163101	3.4	33
142	Doping evolution of the Mott-Hubbard landscape in infinite-layer nickelates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	33
141	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. <i>Microscopy and Microanalysis</i> , 2017 , 23, 155-162	0.5	32
140	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018 , 30, 5655-5662	9.6	31
139	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. <i>Nature Communications</i> , 2017 , 8, 252	17.4	31
138	Direct comparison of optical and electron microscopy methods for structural characterization of extracellular vesicles. <i>Journal of Structural Biology</i> , 2020 , 210, 107474	3.4	31
137	Atomic Detail Visualization of Photosynthetic Membranes with GPU-Accelerated Ray Tracing. <i>Parallel Computing</i> , 2016 , 55, 17-27	1	29
136	Nickelate Superconductivity without Rare-Earth Magnetism: (La,Sr)NiO. <i>Advanced Materials</i> , 2021 , 33, e2104083	24	29
135	Organo-organic and organo-mineral interfaces in soil at the nanometer scale. <i>Nature Communications</i> , 2020 , 11, 6103	17.4	27
134	Site-Specific Preparation of Intact Solid-Liquid Interfaces by Label-Free In Situ Localization and Cryo-Focused Ion Beam Lift-Out. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1338-1349	0.5	26
133	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , 2022 ,	68.1	25
132	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. <i>ACS Nano</i> , 2019 , 13, 2599-2605	16.7	24
131	Atomically engineered metal-insulator transition at the TiO ₂ /LaAlO ₃ heterointerface. <i>Nano Letters</i> , 2014 , 14, 6743-6	11.5	23
130	Pulsed laser annealing of thin films of self-assembled nanocrystals. <i>ACS Nano</i> , 2011 , 5, 7010-9	16.7	23
129	Si and Ge nanocluster formation in silica matrix. <i>Semiconductors</i> , 2007 , 41, 381-386	0.7	23
128	Demystifying the growth of superconducting Sr ₂ RuO ₄ thin films. <i>APL Materials</i> , 2018 , 6, 101108	5.7	23
127	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. <i>Nano Letters</i> , 2016 , 16, 651-5	11.5	22
126	Hierarchically structured hematite architectures achieved by growth in a silica hydrogel. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5184-92	16.4	21

125	Hetero-epitaxial EuO interfaces studied by analytic electron microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 091601	3.4	21
124	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. <i>Nature</i> , 2011 , 476, 114	50.4	21
123	Three-dimensional imaging for precise structural control of Si quantum dot networks for all-Si solar cells. <i>Nanoscale</i> , 2013 , 5, 7499-504	7.7	19
122	Successive Ionic Layer Absorption and Reaction for Postassembly Control over Inorganic Interdot Bonds in Long-Range Ordered Nanocrystal Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13500-13507	9.5	18
121	Stability of niosomes with encapsulated vitamin D3 and ferrous sulfate generated using a novel supercritical carbon dioxide method. <i>Journal of Liposome Research</i> , 2016 , 26, 261-8	6.1	18
120	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS2 by Cryogenic Electron Microscopy. <i>Advanced Energy Materials</i> , 2019 , 9, 1902773	21.8	18
119	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd _{0.775} Sr _{0.225} NiO ₂ . <i>Nature Physics</i> , 2021 , 17, 473-477	16.2	18
118	Physical Confinement Promoting Formation of Cu ₂ O/Au Heterostructures with Au Nanoparticles Entrapped within Crystalline Cu ₂ O Nanorods. <i>Chemistry of Materials</i> , 2017 , 29, 555-563	9.6	17
117	Valence changes and structural distortions in "charge ordered" manganites quantified by atomic-scale scanning transmission electron microscopy. <i>Physical Review Letters</i> , 2007 , 99, 237205	7.4	17
116	Superconductivity in a quintuple-layer square-planar nickelate. <i>Nature Materials</i> , 2021 ,	27	17
115	Connectivity of centermost chromatophores in <i>Rhodobacter sphaeroides</i> bacteria. <i>Molecular Microbiology</i> , 2018 , 109, 812-825	4.1	16
114	Freestanding crystalline YBa ₂ Cu ₃ O _{7-x} heterostructure membranes. <i>Physical Review Materials</i> , 2019 , 3,	3.2	16
113	Epitaxial Ba _{0.5} Sr _{0.5} TiO ₃ /GaN heterostructures with abrupt interfaces. <i>Journal of Crystal Growth</i> , 2009 , 311, 1106-1109	1.6	15
112	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. <i>Microscopy and Microanalysis</i> , 2017 , 23, 366-367	0.5	14
111	Early Formation Pathways of Surfactant Micelle Directed Ultrasmall Silica Ring and Cage Structures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17343-17348	16.4	14
110	Ultrathin Epitaxial Barrier Layer to Avoid Thermally Induced Phase Transformation in Oxide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 54-59	9.5	13
109	Mechanistic Insights into Superlattice Transformation at a Single Nanocrystal Level Using Nanobeam Electron Diffraction. <i>Nano Letters</i> , 2020 , 20, 5267-5274	11.5	13
108	Nanoscale Elemental Mapping of Intact Solid/Liquid Interfaces and Reactive Materials in Energy Devices Enabled by Cryo-FIB/SEM. <i>ACS Energy Letters</i> , 2020 , 5, 1224-1232	20.1	13

107	Tunable Magnetic Transition to a Singlet Ground State in a 2D van der Waals Layered Trimerized Kagom[Magnet. <i>ACS Nano</i> , 2019 , 13, 9457-9463	16.7	13
106	Negative differential resistance induced by Mn substitution at SrRuO3/Nb:SrTiO3 Schottky interfaces. <i>Physical Review B</i> , 2008 , 77,	3.3	13
105	Rutile IrO2/TiO2 superlattices: A hyperconnected analog to the Ruddeldsen-Popper structure. <i>Physical Review Materials</i> , 2018 , 2,	3.2	12
104	Strain relaxation induced transverse resistivity anomalies in SrRuO3 thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	12
103	Periodic artifact reduction in Fourier transforms of full field atomic resolution images. <i>Microscopy and Microanalysis</i> , 2015 , 21, 436-41	0.5	11
102	Orientalional Disorder in Epitaxially Connected Quantum Dot Solids. <i>ACS Nano</i> , 2019 , 13, 11460-11468	16.7	9
101	Strain Tuning in Complex Oxide Epitaxial Films Using an Ultrathin Strontium Aluminate Buffer Layer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700339	2.5	9
100	Growth of LaAlO3 on silicon via an ultrathin SrTiO3 buffer layer by molecular-beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 021507	2.9	9
99	The early-stage growth and reversibility of Li electrodeposition in Br-rich electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
98	Strain-stabilized superconductivity. <i>Nature Communications</i> , 2021 , 12, 59	17.4	9
97	Mapping cation diffusion through lattice defects in epitaxial oxide thin films on the water-soluble buffer layer Sr3Al2O6 using atomic resolution electron microscopy. <i>APL Materials</i> , 2017 , 5, 096108	5.7	8
96	Atomic-Resolution Cryo-STEM Across Continuously Variable Temperatures. <i>Microscopy and Microanalysis</i> , 2020 , 26, 439-446	0.5	8
95	Integrated Circuits Comprising Patterned Functional Liquids. <i>Advanced Materials</i> , 2018 , 30, e1802598	24	8
94	Epitaxial SrTiO3 film on silicon with narrow rocking curve despite huge defect density. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
93	Direct Electron Detection for Atomic Resolution in situ EELS. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1844-1845	0.5	8
92	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides (1T-TaS2, 2H-MoS2) Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 387-395	0.5	7
91	Dose-Efficient Cryo-STEM Imaging of Whole Cells Using the Electron Microscope Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2017 , 23, 804-805	0.5	6
90	Direct Visualization of Trimerized States in 1T ^{} -TaTe _{2} . <i>Physical Review Letters</i> , 2020 , 125, 165302	7.4	6

89	Characterizing Sulfur in TEM and STEM, with Applications to Lithium Sulfur Batteries. <i>Microscopy and Microanalysis</i> , 2014 , 20, 446-447	0.5	5
88	Insulator-to-Metal Transition at Oxide Interfaces Induced by WO Overlayers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42336-42343	9.5	5
87	Breakdown of the Small-Polaron Hopping Model in Higher-Order Spinel. <i>Advanced Materials</i> , 2020 , 32, e2004490	24	5
86	Charge order textures induced by non-linear couplings in a half-doped manganite. <i>Nature Communications</i> , 2021 , 12, 3747	17.4	5
85	Strain Accommodation and Coherency in Laterally-Stitched WSe ₂ /WS ₂ Junctions. <i>Microscopy and Microanalysis</i> , 2016 , 22, 870-871	0.5	5
84	Mapping Defect Relaxation in Quantum Dot Solids upon Heating. <i>ACS Nano</i> , 2021 , 15, 719-726	16.7	5
83	Atomic Resolution CryoSTEM Across Continuously Variable Temperatures. <i>Microscopy and Microanalysis</i> , 2019 , 25, 930-931	0.5	4
82	Interfacial charge transfer and persistent metallicity of ultrathin SrIrO/SrRuO heterostructures.. <i>Science Advances</i> , 2022 , 8, eabj0481	14.3	4
81	Defect accommodation in off-stoichiometric (SrTiO ₃) _n SrO Ruddlesden-Popper superlattices studied with positron annihilation spectroscopy. <i>Applied Physics Letters</i> , 2020 , 117, 062901	3.4	4
80	The Role of Dimer Formation in the Nucleation of Superlattice Transformations and Its Impact on Disorder. <i>ACS Nano</i> , 2020 , 14, 11431-11441	16.7	4
79	Improved control of atomic layering in perovskite-related homologous series. <i>APL Materials</i> , 2021 , 9, 021118	5.7	4
78	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. <i>Microscopy and Microanalysis</i> , 2018 , 24, 454-455	0.5	4
77	Multiblock Copolymer Anion-Exchange Membranes Derived from Vinyl Addition Polynorbornenes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10273-10279	6.1	4
76	Cryogenic STEM Imaging and Spectroscopy of Electron Beam Sensitive Materials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1660-1661	0.5	3
75	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. <i>Microscopy and Microanalysis</i> , 2017 , 23, 428-429	0.5	3
74	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering.. <i>Science Advances</i> , 2022 , 8, eabg5860	14.3	3
73	Highly Efficient Surface Charge Transfer in Fe ₂ TiO ₅ Epitaxial Thin Film Photoanodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2098-2106	6.1	3
72	Breaking the Rayleigh Limit in Thick Samples with Multi-slice Ptychography. <i>Microscopy and Microanalysis</i> , 2018 , 24, 192-193	0.5	3

71	Atomic Resolution STEM Imaging of Human Enamel Crystallites and Characterization of its Localized Impurities. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1266-1267	0.5	3
70	Atomic-Scale Characterization Reveals Core-Shell Structure of Enamel Crystallites. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1722-1723	0.5	2
69	Explaining the Unusual Photoluminescence of Semiconductor Nanocrystals Doped via Cation Exchange. <i>Nano Letters</i> , 2019 , 19, 4797-4803	11.5	2
68	Sub-ångstrom EDX Mapping Enabled by a High-brightness Cold Field Emission Source. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1508-1511	0.5	2
67	Atomic-resolution Cryo-STEM Imaging of a Structural Phase Transition in TaTe ₂ . <i>Microscopy and Microanalysis</i> , 2018 , 24, 86-87	0.5	2
66	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	0.5	2
65	Three-Dimensional Arrangement and Connectivity of Lead-Chalcogenide Nanoparticle Assemblies for Next Generation Photovoltaics. <i>Microscopy and Microanalysis</i> , 2014 , 20, 542-543	0.5	2
64	Synthesis of Freestanding Single-crystal Perovskite Films and Heterostructures by Etching of Sacrificial Water-soluble Layers		2
63	Quantum oscillations and quasiparticle properties of thin film Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	2
62	Epitaxial growth and electronic properties of mixed valence YbAl ₃ thin films. <i>Journal of Applied Physics</i> , 2016 , 120, 035105	2.5	2
61	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1718-1719	0.5	2
60	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	4.9	2
59	a-axis YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} /YBa ₂ Cu ₃ O _{7-x} trilayers with subnanometer rms roughness. <i>APL Materials</i> , 2021 , 9, 021117	5.7	2
58	Cryo-STEM Imaging of Ribosomes Using the Electron Microscope Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2018 , 24, 876-877	0.5	2
57	Co-precipitation induces changes to iron and carbon chemistry and spatial distribution at the nanometer scale. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 314, 1-15	5.5	2
56	Low Temperature Electron Microscopy of "Charge-Ordered" Phases. <i>Microscopy and Microanalysis</i> , 2019 , 25, 934-935	0.5	1
55	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	3	1
54	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	0.5	1

53	Advances in Cryo-Electron Microscopy for Understanding Energy Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1648-1650	0.5	1
52	Revealing Mechanisms of Microvesicle Biogenesis in Breast Cancer Cells via in situ Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1256-1257	0.5	1
51	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	0.5	1
50	Low temperature hidden Fermi-liquid charge transport in under doped La Sr CuO infinite layer electron-doped thin films. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 445601	1.8	1
49	Quantifying Atomic-Scale Quantum Dot Superlattice Behavior Upon in situ Heating. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1538-1539	0.5	1
48	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	0.5	1
47	Long Range Order and Atomic Connectivity in Two-Dimensional Square PbSe Nanocrystal Superlattices. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1329-1330	0.5	1
46	Enhanced Li-ion diffusion and electrochemical performance in strained-manganese-iron oxide core-shell nanoparticles. <i>Journal of Chemical Physics</i> , 2021 , 155, 144702	3.9	1
45	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	0.5	1
44	Unit-cell-thick domain in free-standing quasi-two-dimensional ferroelectric material. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
43	Two-dimensional charge order stabilized in clean polytype heterostructures. <i>Microscopy and Microanalysis</i> , 2021 , 27, 896-898	0.5	1
42	Atomic-Resolution Cryogenic Scanning Transmission Electron Microscopy for Quantum Materials. <i>Accounts of Chemical Research</i> , 2021 , 54, 3277-3287	24.3	1
41	A kiloelectron-volt ultrafast electron micro-diffraction apparatus using low emittance semiconductor photocathodes.. <i>Structural Dynamics</i> , 2022 , 9, 024302	3.2	1
40	Cryo-FIB Milling and Lift-Out for Preparation of Specimens for Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2312-2313	0.5	0
39	Two-dimensional charge order stabilized in clean polytype heterostructures.. <i>Nature Communications</i> , 2022 , 13, 413	17.4	0
38	Low Dose Mapping of Semicrystallinity in Polymer Membranes with cryogenic 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021 , 27, 12-13	0.5	0
37	Dose-efficient tcBF-STEM imaging with real-space information beyond the scan sampling limit. <i>Microscopy and Microanalysis</i> , 2021 , 27, 758-760	0.5	0
36	Disentangling Coexisting Structural Order Through Phase Lock-In Analysis of Atomic-Resolution STEM Data.. <i>Microscopy and Microanalysis</i> , 2022 , 1-8	0.5	0

35	Disentangling types of lattice disorder impacting superconductivity in Sr ₂ RuO ₄ by quantitative local probes. <i>APL Materials</i> , 2022 , 10, 041114	5.7	o
34	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. <i>Cell Reports Physical Science</i> , 2022 , 100912	6.1	o
33	Electronic Charge Transport: Breakdown of the Small-Polaron Hopping Model in Higher-Order Spinels (Adv. Mater. 49/2020). <i>Advanced Materials</i> , 2020 , 32, 2070368	24	
32	The Structure of Charge Density Wave Phase Transitions in Atomically Thin Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 146-147	0.5	
31	Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 724-727	0.5	
30	Low Temperature Electron Microscopy and Manipulation of Electronic Order. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2028-2030	0.5	
29	Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2034-2035	0.5	
28	3D Visualization of Neurites in Mouse Primary Hippocampal Neuron Cultures Using Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2730-2731	0.5	
27	Epitaxial Quantum Dot Superlattices: From Synthesis to Characterization to Electronic Structure. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1884-1885	0.5	
26	Understanding Initial Formation Stages of Nanomaterials Using Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1844-1845	0.5	
25	Image Registration of Low-Signal-to-Noise STEM Data with Open Source Software. <i>Microscopy and Microanalysis</i> , 2019 , 25, 200-201	0.5	
24	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. <i>Microscopy and Microanalysis</i> , 2019 , 25, 580-581	0.5	
23	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. <i>Microscopy and Microanalysis</i> , 2019 , 25, 582-583	0.5	
22	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	0.5	
21	Capturing the Structure of Mesoporous Silica Nanoparticles in Solution With Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 442-443	0.5	
20	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	0.5	
19	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 420-421	0.5	
18	Emergent Phase Coherence of Stripe Order in Manganites Revealed with Cryogenic Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1630-1631	0.5	

17	Strain Control at Two-Dimensional Oxide Interfaces Probed by Aberration-Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1137-1138	0.5
16	Cryo-STEM Reveals Humidity-Controlled Shape Change in Silica Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1827-1828	0.5
15	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	
14	Quantitative Mapping of Strain Defects in Multidomain Quantum Materials. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1950-1952	0.5
13	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	0.5
12	Tracking quantum phase transitions with continuously variable temperature cryo-STEM. <i>Microscopy and Microanalysis</i> , 2021 , 27, 960-961	0.5
11	Few-second EELS mapping with atomic-resolution. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2704-2706	0.5
10	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	0.5
9	Quantitative, Real-Space Statistical Analysis of Imperfect Lattices. <i>Microscopy and Microanalysis</i> , 2016 , 22, 892-893	0.5
8	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	0.5
7	Advances in Mapping Periodic Structural Modulations of Atomic Lattices. <i>Microscopy and Microanalysis</i> , 2016 , 22, 552-553	0.5
6	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1550-1551	0.5
5	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1456-1457	0.5
4	Impurity Segregation via Extended Defects in Oxide Thin Films Probed by Aberration-Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1518-1519	0.5
3	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. <i>Microscopy and Microanalysis</i> , 2018 , 24, 80-81	0.5
2	Cryogenic STEM for probing soft materials and interfaces in energy devices. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1496-1497	0.5
1	Atomic-resolution STEM-EELS to probe and stabilize superconductivity in thin films. <i>Microscopy and Microanalysis</i> , 2021 , 27, 346-347	0.5