

K Andre Mkhoyan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8889273/k-andre-mkhoyan-publications-by-citations.pdf>

Version: 2024-04-20

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.

198
papers

7,787
citations

41
h-index

86
g-index

209
ext. papers

8,907
ext. citations

6.4
avg, IF

5.88
L-index

#	Paper	IF	Citations
198	Evolution of Electrical, Chemical, and Structural Properties of Transparent and Conducting Chemically Derived Graphene Thin Films. <i>Advanced Functional Materials</i> , 2009 , 19, 2577-2583	15.6	1451
197	Atomic and electronic structure of graphene-oxide. <i>Nano Letters</i> , 2009 , 9, 1058-63	11.5	921
196	Dispersible exfoliated zeolite nanosheets and their application as a selective membrane. <i>Science</i> , 2011 , 334, 72-5	33.3	494
195	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017 , 543, 690-694	50.4	310
194	Van der Waals contacts between three-dimensional metals and two-dimensional semiconductors. <i>Nature</i> , 2019 , 568, 70-74	50.4	293
193	Aqueous only route toward graphene from graphite oxide. <i>ACS Nano</i> , 2011 , 5, 1253-8	16.7	232
192	Room-temperature high spin-orbit torque due to quantum confinement in sputtered BiSe films. <i>Nature Materials</i> , 2018 , 17, 800-807	27	214
191	Zeolitic imidazolate framework membranes made by ligand-induced permselectivation. <i>Science</i> , 2018 , 361, 1008-1011	33.3	203
190	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator Bi ₂ Se ₃ . <i>Nano Letters</i> , 2015 , 15, 7126-32	11.5	200
189	Phosphorus-doped silicon nanocrystals exhibiting mid-infrared localized surface plasmon resonance. <i>Nano Letters</i> , 2013 , 13, 1317-22	11.5	145
188	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator-Ferromagnetic-Insulator Heterostructures. <i>Physical Review Letters</i> , 2016 , 117, 076601	7.4	130
187	Efficient Organic Photovoltaic Cells Based on Nanocrystalline Mixtures of Boron Subphthalocyanine Chloride and C ₆₀ . <i>Advanced Functional Materials</i> , 2012 , 22, 617-624	15.6	116
186	Self-Pillared, Single-Unit-Cell Sn-MFI Zeolite Nanosheets and Their Use for Glucose and Lactose Isomerization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10848-51	16.4	115
185	Wafer Scale Synthesis and High Resolution Structural Characterization of Atomically Thin MoS ₂ Layers. <i>Advanced Functional Materials</i> , 2014 , 24, 7461-7466	15.6	87
184	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Isomer-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7184-7	16.4	77
183	On the direct synthesis of Cu(BDC) MOF nanosheets and their performance in mixed matrix membranes. <i>Journal of Membrane Science</i> , 2018 , 549, 312-320	9.6	75
182	Structure and transport in high pressure oxygen sputter-deposited BaSnO ₃ . <i>APL Materials</i> , 2015 , 3, 062509	5.7	72

181	On the rotational intergrowth of hierarchical FAU/EMT zeolites. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9456-61	16.4	69
180	Enhanced tunneling magnetoresistance and perpendicular magnetic anisotropy in Mo/CoFeB/MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2015 , 106, 182406	3.4	68
179	High electron mobility in thin films formed via supersonic impact deposition of nanocrystals synthesized in nonthermal plasmas. <i>Nature Communications</i> , 2014 , 5, 5822	17.4	67
178	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. <i>Physical Review B</i> , 2015 , 92,	3.3	66
177	Disproportionation of (Mg,Fe)SiO ₃ perovskite in Earth's deep lower mantle. <i>Science</i> , 2014 , 344, 877-82	33.3	61
176	Atomic and electronic structure of exfoliated black phosphorus. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 060604	2.9	60
175	Effect of hydrogen on catalyst nanoparticles in carbon nanotube growth. <i>Journal of Applied Physics</i> , 2010 , 108, 053303	2.5	60
174	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3 nm Thick MFI Zeolite Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6571-5	16.4	57
173	Hybrid molecular beam epitaxy for the growth of stoichiometric BaSnO ₃ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 060608	2.9	57
172	Radiolysis to knock-on damage transition in zeolites under electron beam irradiation. <i>Physical Review B</i> , 2011 , 83,	3.3	57
171	Effects of tilt on high-resolution ADF-STEM imaging. <i>Ultramicroscopy</i> , 2008 , 108, 718-26	3.1	57
170	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4926-4930	16.4	54
169	Sidewall oxide effects on spin-torque- and magnetic-field-induced reversal characteristics of thin-film nanomagnets. <i>Nature Materials</i> , 2008 , 7, 567-73	27	54
168	Direct determination of local lattice polarity in crystals. <i>Science</i> , 2006 , 312, 1354	33.3	51
167	Nonequilibrium-Plasma-Synthesized ZnO Nanocrystals with Plasmon Resonance Tunable via Al Doping and Quantum Confinement. <i>Nano Letters</i> , 2015 , 15, 8162-9	11.5	50
166	Effects of amorphous layers on ADF-STEM imaging. <i>Ultramicroscopy</i> , 2008 , 108, 791-803	3.1	50
165	A high-performance adsorbent for hydrogen sulfide removal. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 152-155	5.3	47
164	Orientation and morphological evolution of catalyst nanoparticles during carbon nanotube growth. <i>ACS Nano</i> , 2010 , 4, 5087-94	16.7	47

163	Facile synthesis of intense green light emitting LiGdF ₄ :Yb,Er-based upconversion bipyramidal nanocrystals and their polymer composites. <i>Nanoscale</i> , 2014 , 6, 7461-8	7.7	45
162	Rapid facile synthesis of Cu ₂ ZnSnS ₄ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10389-10395	5.3	45
161	Oxygen etching of thick MoS ₂ films. <i>Chemical Communications</i> , 2014 , 50, 11226-9	5.8	45
160	One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. <i>Nature Materials</i> , 2020 , 19, 443-449	27	43
159	Separation of bulk and surface-losses in low-loss EELS measurements in STEM. <i>Ultramicroscopy</i> , 2007 , 107, 345-55	3.1	42
158	Determining the thickness of atomically thin MoS ₂ and WS ₂ in the TEM. <i>Ultramicroscopy</i> , 2014 , 147, 8-20	3.1	41
157	Optoelectronic properties of graphene thin films deposited by a Langmuir-Blodgett assembly. <i>Nanoscale</i> , 2013 , 5, 12365-74	7.7	37
156	Phase Engineering of 2D Tin Sulfides. <i>Small</i> , 2016 , 12, 2998-3004	11	37
155	Stoichiometry-driven metal-to-insulator transition in NdTiO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2014 , 104, 082109	3.4	36
154	Voltage-controlled interlayer coupling in perpendicularly magnetized magnetic tunnel junctions. <i>Nature Communications</i> , 2017 , 8, 15232	17.4	35
153	Mechanisms of plasticity in near-theoretical strength sub-100 nm Si nanocubes. <i>Acta Materialia</i> , 2015 , 100, 256-265	8.4	34
152	Nonthermal Plasma Synthesis of Core/Shell Quantum Dots: Strained Ge/Si Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8263-8270	9.5	33
151	Nonthermal Plasma Synthesis of Titanium Nitride Nanocrystals with Plasmon Resonances at Near-Infrared Wavelengths Relevant to Photothermal Therapy. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2869-2876	5.6	33
150	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-Beam-Induced Amorphization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13592-13597	16.4	33
149	Electron-beam-induced damage in wurtzite InN. <i>Applied Physics Letters</i> , 2003 , 82, 859-861	3.4	32
148	Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. <i>Nature Communications</i> , 2015 , 6, 7128	17.4	31
147	Imaging "invisible" dopant atoms in semiconductor nanocrystals. <i>Nano Letters</i> , 2011 , 11, 5553-7	11.5	31
146	Direct Synthesis of 7 nm-Thick Zinc(II)Benzimidazole Acetate Metal-Organic Framework Nanosheets. <i>Chemistry of Materials</i> , 2018 , 30, 69-73	9.6	31

145	Sputter deposition of semicrystalline tin dioxide films. <i>Thin Solid Films</i> , 2012 , 520, 2554-2561	2.2	30
144	Quasi 2D Ultrahigh Carrier Density in a Complex Oxide Broken-Gap Heterojunction. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500432	4.6	27
143	Measuring electronic structure of wurtzite InN using electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2003 , 82, 1407-1409	3.4	26
142	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie</i> , 2018 , 130, 5020-5024	3.6	25
141	Self-Pillared, Single-Unit-Cell Sn-MFI Zeolite Nanosheets and Their Use for Glucose and Lactose Isomerization. <i>Angewandte Chemie</i> , 2015 , 127, 10998-11001	3.6	25
140	Cu(2)ZnSnS(4) nanocrystal dispersions in polar liquids. <i>Chemical Communications</i> , 2013 , 49, 3549-51	5.8	25
139	Pillared Sn-MWW Prepared by a Solid-State-Exchange Method and its Use as a Lewis Acid Catalyst. <i>ChemCatChem</i> , 2016 , 8, 1274-1278	5.2	25
138	Investigation of secondary hardening in Co _{0.5} Ni _{0.2} Cr _{0.1} Mo alloy using analytical scanning transmission electron microscopy. <i>Acta Materialia</i> , 2014 , 63, 63-72	8.4	24
137	Limits in detecting an individual dopant atom embedded in a crystal. <i>Ultramicroscopy</i> , 2011 , 111, 1101-10.1	9.1	24
136	Full recovery of electron damage in glass at ambient temperatures. <i>Physical Review Letters</i> , 2006 , 96, 205506	7.4	23
135	Direct observation of the core/double-shell architecture of intense dual-mode luminescent tetragonal bipyramidal nanophosphors. <i>Nanoscale</i> , 2016 , 8, 10049-58	7.7	22
134	Imaging Impurities in Semiconductor Nanostructures. <i>Chemistry of Materials</i> , 2013 , 25, 1332-1350	9.6	22
133	Catalyst rotation, twisting, and bending during multiwall carbon nanotube growth. <i>Carbon</i> , 2010 , 48, 3840-3845	10.4	22
132	Strain-hardening in submicron silicon pillars and spheres. <i>Acta Materialia</i> , 2012 , 60, 2471-2478	8.4	21
131	Hydrogen etching and cutting of multiwall carbon nanotubes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 1187-1194	1.3	21
130	Improving the damp-heat stability of copper indium gallium diselenide solar cells with a semicrystalline tin dioxide overlayer. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 270-276	6.4	20
129	Dysprosium Iron Garnet Thin Films with Perpendicular Magnetic Anisotropy on Silicon. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900820	6.4	19
128	Probing core-electron orbitals by scanning transmission electron microscopy and measuring the delocalization of core-level excitations. <i>Physical Review B</i> , 2016 , 93,	3.3	16

127	Epitaxial growth: rapid synthesis of highly permeable and selective zeolite-T membranes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17828-17832	13	16
126	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. <i>Nano Letters</i> , 2017 , 17, 7578-7585	11.5	16
125	Synthesis of multiwall β -FeO hollow fibers via a centrifugal spinning technique. <i>Materials Science and Engineering C</i> , 2019 , 102, 552-557	8.3	15
124	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3 nm Thick MFI Zeolite Nanosheets. <i>Angewandte Chemie</i> , 2015 , 127, 6671-6675	3.6	15
123	Critical role of inelastic interactions in quantitative electron microscopy. <i>Physical Review Letters</i> , 2008 , 100, 025503	7.4	15
122	Rational synthesis of ternary PtIrNi nanocrystals with enhanced poisoning tolerance for electrochemical ethanol oxidation. <i>Electrochemistry Communications</i> , 2019 , 101, 61-67	5.1	14
121	A New Line Defect in NdTiO Perovskite. <i>Nano Letters</i> , 2016 , 16, 6816-6822	11.5	13
120	Chelant Enhanced Solution Processing for Wafer Scale Synthesis of Transition Metal Dichalcogenide Thin Films. <i>Scientific Reports</i> , 2017 , 7, 6419	4.9	13
119	Radiolytic purification of CaO by electron beams. <i>Philosophical Magazine</i> , 2006 , 86, 2907-2917	1.6	13
118	Visualizing the metal-MoS ₂ contacts in two-dimensional field-effect transistors with atomic resolution. <i>Physical Review Materials</i> , 2019 , 3,	3.2	13
117	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. <i>Physical Review B</i> , 2016 , 93,	3.3	12
116	Separating Electrons and Donors in BaSnO via Band Engineering. <i>Nano Letters</i> , 2019 , 19, 8920-8927	11.5	12
115	Defects, stoichiometry, and electronic transport in SrTiO ₃ - β epilayers: A high pressure oxygen sputter deposition study. <i>Journal of Applied Physics</i> , 2016 , 120, 055704	2.5	12
114	Nucleation, Growth, and Robust Synthesis of SPP Zeolite: Effect of Ethanol, Sodium, and Potassium. <i>Topics in Catalysis</i> , 2015 , 58, 545-558	2.3	11
113	Plasmonic Interactions through Chemical Bonds of Surface Ligands on PbSe Nanocrystals. <i>Chemistry of Materials</i> , 2014 , 26, 3328-3333	9.6	11
112	Sputtering growth of Y ₃ Fe ₅ O ₁₂ /Pt bilayers and spin transfer at Y ₃ Fe ₅ O ₁₂ /Pt interfaces. <i>APL Materials</i> , 2017 , 5, 126104	5.7	11
111	On the Rotational Intergrowth of Hierarchical FAU/EMT Zeolites. <i>Angewandte Chemie</i> , 2014 , 126, 9610-9615	9.6	11
110	Mobility Anisotropy in Black Phosphorus MOSFETs With HfO ₂ Gate Dielectrics. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4093-4101	2.9	11

109	Metal-insulator transition in a semiconductor nanocrystal network. <i>Science Advances</i> , 2019 , 5, eaaw146214.3	14.3	10
108	Spin pumping and large field-like torque at room temperature in sputtered amorphous WTe ₂ films. <i>APL Materials</i> , 2020 , 8, 041102	5.7	10
107	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L10-FePd perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018 , 112, 152401	3.4	10
106	Observation of electrically-inactive interstitials in Nb-doped SrTiO ₃ . <i>ACS Nano</i> , 2013 , 7, 4487-94	16.7	10
105	Atomic level scanning transmission electron microscopy characterization of GaN/AlN quantum wells. <i>Journal of Applied Physics</i> , 2004 , 96, 738-746	2.5	10
104	Obtaining Structural Parameters from STEMEDX Maps of Core/Shell Nanocrystals for Optoelectronics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 989-996	5.6	9
103	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Isomer-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie</i> , 2016 , 128, 7300-7303	3.6	9
102	Microstructure characterization of BaSnO thin films on LaAlO and PrScO substrates from transmission electron microscopy. <i>Scientific Reports</i> , 2018 , 8, 10245	4.9	9
101	Routes to identification of intrinsic twist in helical MoS ₂ nanotubes by electron diffraction and annular dark-field scanning transmission electron microscopy imaging. <i>Physical Review B</i> , 2011 , 84,	3.3	9
100	Quasi continuous wave laser sintering of Si-Ge nanoparticles for thermoelectrics. <i>Journal of Applied Physics</i> , 2018 , 123, 094301	2.5	8
99	Simplifying Electron Beam Channeling in Scanning Transmission Electron Microscopy (STEM). <i>Microscopy and Microanalysis</i> , 2017 , 23, 794-808	0.5	8
98	Formation of a quasi-two-dimensional electron gas in GaN/Al _x Ga _{1-x} N heterostructures with diffuse interfaces. <i>Journal of Applied Physics</i> , 2004 , 95, 1843-1848	2.5	8
97	Large-scale interlayer rotations and Te grain boundaries in (Bi,Sb) ₂ Te ₃ thin films. <i>Physical Review Materials</i> , 2020 , 4,	3.2	8
96	Electronic structure of BaSnO ₃ investigated by high-energy-resolution electron energy-loss spectroscopy and ab initio calculations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 031503	2.9	7
95	Fracture transitions in iron: Strain rate and environmental effects. <i>Journal of Materials Research</i> , 2014 , 29, 1513-1521	2.5	7
94	Identifying hexagonal boron nitride monolayers by transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2012 , 18, 558-67	0.5	7
93	Structure and basal twinning of topological insulator Bi ₂ Se ₃ grown by MBE onto crystalline Y ₃ Fe ₅ O ₁₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
92	Low Gilbert damping and high thermal stability of Ru-seeded L1-phase FePd perpendicular magnetic thin films at elevated temperatures. <i>Applied Physics Letters</i> , 2020 , 117,	3.4	7

91	Improving Signal-to-Noise Ratio in Scanning Transmission Electron Microscopy Energy-Dispersive X-Ray (STEM-EDX) Spectrum Images Using Single-Atomic-Column Cross-Correlation Averaging. <i>Microscopy and Microanalysis</i> , 2016 , 22, 536-43	0.5	7
90	Room temperature spin Kondo effect and intermixing in Co/Cu non-local spin valves. <i>Applied Physics Letters</i> , 2017 , 110, 222407	3.4	6
89	Nonuniformities in GaN/AlN quantum wells. <i>Applied Physics Letters</i> , 2003 , 83, 2668-2670	3.4	6
88	Layer Dependence of Dielectric Response and Water-Enhanced Ambient Degradation of Highly Anisotropic Black As. <i>ACS Nano</i> , 2020 , 14, 5988-5997	16.7	5
87	Atomic bonding effects in annular dark field scanning transmission electron microscopy. II. Experiments. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 041603 ^{2.9}	2.9	5
86	Indirect transitions in thin films due to the coulomb interactions between electrons. <i>Thin Solid Films</i> , 1999 , 338, 185-187	2.2	5
85	SCALPEL mask-membrane charging. <i>Microelectronic Engineering</i> , 1999 , 46, 223-226	2.5	5
84	Atomic-resolution analytical scanning transmission electron microscopy of topological insulators with a layered tetradymite structure. <i>APL Materials</i> , 2020 , 8, 070902	5.7	5
83	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-Close-Packed Hollow Sphere Arrays. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15707-15711 ^{16.4}	16.4	5
82	Electron-Beam-Damage in Metal Organic Frameworks in the TEM. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1704-1705	0.5	4
81	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO ₃ thin films. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
80	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
79	Magnetic structure of Fe ₁₆ N ₂ determined by polarized neutron diffraction on thin-film samples. <i>Physical Review B</i> , 2020 , 102,	3.3	4
78	Dopant Segregation Inside and Outside Dislocation Cores in Perovskite BaSnO ₃ and Reconstruction of the Local Atomic and Electronic Structures. <i>Nano Letters</i> , 2021 , 21, 4357-4364	11.5	4
77	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. <i>Nano Letters</i> , 2021 , 21, 1246-1252	11.5	4
76	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quatery Ammonium Structure-Directing Agent. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19214-19221	16.4	4
75	Plasmonic nanocomposites of zinc oxide and titanium nitride. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 042404	2.9	3
74	Chemical vapor deposition of partially oxidized graphene. <i>RSC Advances</i> , 2017 , 7, 32209-32215	3.7	3

73	Propagating nanocavity-enhanced rapid crystallization of silicon thin films. <i>Nano Letters</i> , 2013 , 13, 5735-5741	1.5	3
72	Carbon diffusion from methane into walls of carbon nanotube through structurally and compositionally modified iron catalyst. <i>Microscopy and Microanalysis</i> , 2011 , 17, 582-6	0.5	3
71	Indirect transitions caused by electron-dislocation interaction in size-quantized semiconductor film. <i>Thin Solid Films</i> , 1997 , 302, 54-57	2.2	3
70	Nonthermal Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Molybdenum Disulfide. <i>ACS Omega</i> , 2020 , 5, 21853-21861	3.9	3
69	Structure-property relationships and mobility optimization in sputtered La-doped BaSnO ₃ films: Toward 100cm ² V ⁻¹ s ⁻¹ mobility. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
68	Two Distinct Stages of Structural Modification of ZIF-L MOF under Electron-Beam Irradiation. <i>Chemistry of Materials</i> , 2021 , 33, 5681-5689	9.6	3
67	Atomic bonding effects in annular dark field scanning transmission electron microscopy. I. Computational predictions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 041602	2.9	3
66	Effects of small-angle mistilts on dopant visibility in ADF-STEM imaging of nanocrystals. <i>Ultramicroscopy</i> , 2017 , 177, 53-57	3.1	2
65	Ambipolar transport in van der Waals black arsenic field effect transistors. <i>Nanotechnology</i> , 2020 , 31, 405203	3.4	2
64	Analytical electron microscopy study of growth mechanism for smoothing of metallic multilayer thin films. <i>Applied Physics Letters</i> , 2006 , 89, 162509	3.4	2
63	Decomposition of La _{2-x} Sr _x CuO ₄ into several La ₂ O ₃ phases at elevated temperatures in ultrahigh vacuum inside a transmission electron microscope. <i>Physical Review Materials</i> , 2018 , 2,	3.2	2
62	Magnetic impurities as the origin of the variability in spin relaxation rates in Cu-based spin transport devices. <i>Physical Review Materials</i> , 2019 , 3,	3.2	2
61	Thermal transport in ZnO nanocrystal networks synthesized by nonthermal plasma. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
60	Simultaneous multi-region background subtraction for core-level EEL spectra. <i>Ultramicroscopy</i> , 2019 , 210, 112919	3.1	2
59	Subatomic Channeling and Helicon-Type Beams in SrTiO ₃ . <i>Physical Review Letters</i> , 2019 , 122, 075501	7.4	2
58	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-Beam-Induced Amorphization. <i>Angewandte Chemie</i> , 2018 , 130, 13780-13785	3.6	2
57	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. <i>Physical Review B</i> , 2021 , 104,	3.3	2
56	Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication.. <i>Science Advances</i> , 2022 , 8, eabm8162	14.3	2

55	Quantification of La Dopant Level in La:SrSnO ₃ /SrSnO ₃ /BaSnO ₃ Heterostructures with STEM-EELS. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2110-2111	0.5	1
54	Quantification of Elemental Distribution in Spherical Core-Shell Nanoparticles Measured by STEM-EDX. <i>Microscopy and Microanalysis</i> , 2016 , 22, 128-129	0.5	1
53	Determining the Thickness of Atomically Thin MoS ₂ and WS ₂ in the TEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1796-1797	0.5	1
52	Characterization of MEL defects in 2 - Dimensional MFI nanosheets. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1802-1803	0.5	1
51	Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1323-1324	0.5	1
50	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. <i>Nanoscience and Technology</i> , 2011 , 435-464	0.6	1
49	Electron Beam Induced Damage in Wurtzite InN. <i>Microscopy and Microanalysis</i> , 2002 , 8, 628-629	0.5	1
48	Diffusive Formation of Hollow Mesoporous Silica Shells from Core-Shell Composites: Insights from the Hydrogen Sulfide Capture Cycle of CuO@mSiO Nanoparticles. <i>Langmuir</i> , 2020 , 36, 6540-6549	4	1
47	STEM beam channeling in BaSnO/LaAlO perovskite bilayers and visualization of 2D misfit dislocation network. <i>Ultramicroscopy</i> , 2020 , 208, 112863	3.1	1
46	Correlation Averaging of Single-Atomic-Column STEM-EDX Images for Sub-Atomic Information. <i>Microscopy and Microanalysis</i> , 2016 , 22, 882-883	0.5	1
45	Uncovering the Microstructure of BaSnO ₃ thin films deposited on different substrates using TEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 2198-2199	0.5	1
44	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-Close-Packed Hollow Sphere Arrays. <i>Angewandte Chemie</i> , 2018 , 130, 15933-15937	3.6	1
43	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure-Directing Agent. <i>Angewandte Chemie</i> , 2021 , 133, 19363-19370	3.6	1
42	High-Capacity Regenerable H ₂ S Sorbent for Reducing Sulfur Emissions. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	1
41	Solid-source metal-organic molecular beam epitaxy of epitaxial RuO ₂ . <i>APL Materials</i> , 2021 , 9, 091112	5.7	1
40	Atomic and Electronic Structure Evolution of ZIF-L Metal Organic Framework During Amorphization. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2968-2969	0.5	0
39	Elemental Distribution Analysis of Core/Shell Nanocrystals with STEM/EDX. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1904-1905	0.5	
38	In Situ Observation of Phase Separation in High-Temperature Superconductor La _{2-x} Sr _x CuO ₄ . <i>Microscopy and Microanalysis</i> , 2017 , 23, 1680-1681	0.5	

37	Simultaneous Multi-Region Background Subtraction for EELS Spectra. <i>Microscopy and Microanalysis</i> , 2019 , 25, 650-651	0.5
36	Insights into the Formation of Bicontinuous, Porous CuZn nano/micro Particles by in-situ (S)TEM. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1544-1545	0.5
35	Dissecting Electronic Structure of a New Line Defect in NdTiO ₃ by EELS. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1576-1577	0.5
34	Cross-sectional STEM Imaging and Spectroscopy of Devices with Embedded 2D Materials. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1440-1441	0.5
33	Determination of Core/Double-Shell Architecture of a Single Tetragonal Bipyramidal Nanophosphor for Intense Dual-Mode Luminescence. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1428-1429 ^{0.5}	0.5
32	Study of Strain and Intermixing at the BaSnO ₃ /SrTiO ₃ and BaSnO ₃ /LaAlO ₃ Interfaces Using STEM and EELS. <i>Microscopy and Microanalysis</i> , 2016 , 22, 320-321	0.5
31	Visualization of Misfit Dislocation Network at the BaSnO ₃ -LaAlO ₃ Interface. <i>Microscopy and Microanalysis</i> , 2019 , 25, 980-981	0.5
30	Study of Sub-atomic Channeling in SrTiO ₃ Crystal Along $\langle 100 \rangle$ Direction Using Multislice Simulations. <i>Microscopy and Microanalysis</i> , 2019 , 25, 970-971	0.5
29	Decomposition of Core-Loss EEL Edges into a Linear Combination of Refined Pure EELS Spectra. <i>Microscopy and Microanalysis</i> , 2019 , 25, 656-657	0.5
28	Interfaces and Defects in Hybrid Molecular Beam Epitaxy Grown NdTiO ₃ /SrTiO ₃ Heterostructures. <i>Microscopy and Microanalysis</i> , 2014 , 20, 98-99	0.5
27	Dynamics of Electron Beam Channeling in Single Atomic Column and in Crystals. <i>Microscopy and Microanalysis</i> , 2014 , 20, 122-123	0.5
26	Channeling of Aberration-corrected STEM Probes at the Sub-atomic Scale. <i>Microscopy and Microanalysis</i> , 2014 , 20, 146-147	0.5
25	Crystallographic Structure Determination of MFI-Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2014 , 20, 390-391	0.5
24	Strength and Plasticity of H- and Oxide- Terminated Cubic Si Nanocrystals. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1460-1461	0.5
23	Electronic Structure of New Line Defect in Strained NdTiCb on SrTiO ₃ . <i>Microscopy and Microanalysis</i> , 2015 , 21, 2073-2074	0.5
22	Probing the Electronic Structure of BaSnO ₃ by EELS Analysis and ab initio Calculations. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1602-1603	0.5
21	Early Growth Stages of Directly Synthesized Large-Area Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1986-1987	0.5
20	Simplifying Electron Beam Channeling in STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 410-411	0.5

19	Probing Two-dimensional (Bi,Sb) ₂ Te ₃ /h-BN Heterostructures Using Complementary S/TEM and Simulation Techniques. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1760-1761	0.5
18	Analytical Method for Thickness and Wrinkling Measurements of 2-D Zeolites. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2367-2368	0.5
17	Structure evolution of M02C catalysts upon exposure to oxygen. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1059-1060	0.5
16	Scanning Transmission Electron Microscopy Investigation of the Structure of Multilayered Perpendicular Magnetic Tunnel Junctions. <i>Microscopy and Microanalysis</i> , 2015 , 21, 817-818	0.5
15	Chemical Bonding Effects in HAADF-STEM Imaging of Light-Element Ceramics. <i>Microscopy and Microanalysis</i> , 2015 , 21, 121-122	0.5
14	Indirect electronic transitions in semiconductors occurring as a result of scattering of charge carriers by dislocations in a quantizing magnetic field. <i>Semiconductors</i> , 1998 , 32, 404-405	0.7
13	Reduction of Contrast in ADF-STEM Images Due To Amorphous Layer. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1026, 1	
12	EELS Measurements on Wurtzite InN. <i>Microscopy and Microanalysis</i> , 2002 , 8, 570-571	0.5
11	S/TEM Investigation of the Structure of (Bi,Sb) ₂ Te ₃ /h-BN Heterostructures Grown by Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1602-1603	0.5
10	Challenges of Oversimplifying Z-contrast in Atomic Resolution ADF-STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 946-947	0.5
9	Quantification of the Effects of Small Mistilts on Dopant Visibility in Nanocrystals. <i>Microscopy and Microanalysis</i> , 2016 , 22, 874-875	0.5
8	Titelbild: Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Isomer-Selective Membranes on Porous Polymer Supports (<i>Angew. Chem.</i> 25/2016). <i>Angewandte Chemie</i> , 2016 , 128, 7123-7123	3.6
7	Atomic Structure of Self-Pillared, Single-Unit-Cell Sn-MFI Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1616-1617	0.5
6	Observation of MEL stacking faults in two-dimensional MFI zeolite nanosheets. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1634-1635	0.5
5	Investigation of Layer Composition and Morphology in Perpendicular Magnetic Tunnel Junctions. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1684-1685	0.5
4	Observation of Moiré-like Fringes in HAADF-STEM Images of Heterostructures of Two-dimensional Materials. <i>Microscopy and Microanalysis</i> , 2016 , 22, 382-383	0.5
3	Sulfidation-Oxidation Cycling of a H ₂ S Adsorbing Hollow Sphere Array. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1800-1801	0.5
2	Understanding High Contact Resistance in MoS ₂ FETs using STEM-EELS. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1558-1559	0.5

- 1 Unique Line Defect Discovered in BaSnO₃ Thin Film. *Microscopy and Microanalysis*, **2018**, 24, 68-69 0.5