

K Andre Mkhoyan

List of Publications by Year in descending order

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204
papers

10,000
citations

57631

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37111

96
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209
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docs citations

209
times ranked

16117
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.8	1,603
2	Atomic and Electronic Structure of Graphene-Oxide. <i>Nano Letters</i> , 2009, 9, 1058-1063.	4.5	1,043
3	Dispersible Exfoliated Zeolite Nanosheets and Their Application as a Selective Membrane. <i>Science</i> , 2011, 334, 72-75.	6.0	601
4	Van der Waals contacts between three-dimensional metals and two-dimensional semiconductors. <i>Nature</i> , 2019, 568, 70-74.	13.7	551
5	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017, 543, 690-694.	13.7	446
6	Room-temperature high spin-orbit torque due to quantum confinement in sputtered Bi ₂ Se ₃ films. <i>Nature Materials</i> , 2018, 17, 800-807.	13.3	344
7	Zeolitic imidazolate framework membranes made by ligand-induced permselectivation. <i>Science</i> , 2018, 361, 1008-1011.	6.0	324
8	Aqueous Only Route toward Graphene from Graphite Oxide. <i>ACS Nano</i> , 2011, 5, 1253-1258.	7.3	262
9	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, 7126-7132.	4.5	257
10	Phosphorus-Doped Silicon Nanocrystals Exhibiting Mid-Infrared Localized Surface Plasmon Resonance. <i>Nano Letters</i> , 2013, 13, 1317-1322.	4.5	165
11	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator/Ferromagnetic-Insulator Heterostructures. <i>Physical Review Letters</i> , 2016, 117, 076601.	2.9	162
12	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, 10848-10851.	7.2	138
13	Efficient Organic Photovoltaic Cells Based on Nanocrystalline Mixtures of Boron Subphthalocyanine Chloride and C ₆₀ . <i>Advanced Functional Materials</i> , 2012, 22, 617-624.	7.8	123
14	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.	4.1	116
15	Wafer Scale Synthesis and High Resolution Structural Characterization of Atomically Thin MoS ₂ Layers. <i>Advanced Functional Materials</i> , 2014, 24, 7461-7466.	7.8	102
16	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7184-7187.	7.2	100
17	One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. <i>Nature Materials</i> , 2020, 19, 443-449.	13.3	91
18	On the Rotational Intergrowth of Hierarchical FAU/EMT Zeolites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9456-9461.	7.2	90

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19	Enhanced tunneling magnetoresistance and perpendicular magnetic anisotropy in Mo/CoFeB/MgO magnetic tunnel junctions. Applied Physics Letters, 2015, 106, .	1.5	82
20	Radiolysis to knock-on damage transition in zeolites under electron beam irradiation. Physical Review B, 2011, 83, .	1.1	80
21	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. Physical Review B, 2015, 92, .	1.1	78
22	High electron mobility in thin films formed via supersonic impact deposition of nanocrystals synthesized in nonthermal plasmas. Nature Communications, 2014, 5, 5822.	5.8	77
23	Structure and transport in high pressure oxygen sputter-deposited BaSnO ₃ . APL Materials, 2015, 3, 062509.	2.2	74
24	Atomic and electronic structure of exfoliated black phosphorus. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	73
25	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. Angewandte Chemie - International Edition, 2018, 57, 4926-4930.	7.2	73
26	Disproportionation of (Mg,Fe)SiO ₃ perovskite in Earth's deep lower mantle. Science, 2014, 344, 877-882.	6.0	72
27	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3-nm Thick MFI Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 6571-6575.	7.2	67
28	Hybrid molecular beam epitaxy for the growth of stoichiometric BaSnO ₃ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	66
29	Effect of hydrogen on catalyst nanoparticles in carbon nanotube growth. Journal of Applied Physics, 2010, 108, .	1.1	65
30	A high-performance adsorbent for hydrogen sulfide removal. Microporous and Mesoporous Materials, 2014, 190, 152-155.	2.2	63
31	Nonequilibrium-Plasma-Synthesized ZnO Nanocrystals with Plasmon Resonance Tunable via Al Doping and Quantum Confinement. Nano Letters, 2015, 15, 8162-8169.	4.5	62
32	Effects of tilt on high-resolution ADF-STEM imaging. Ultramicroscopy, 2008, 108, 718-726.	0.8	59
33	Sidewall oxide effects on spin-torque- and magnetic-field-induced reversal characteristics of thin-film nanomagnets. Nature Materials, 2008, 7, 567-573.	13.3	58
34	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-Beam-Induced Amorphization. Angewandte Chemie - International Edition, 2018, 57, 13592-13597.	7.2	57
35	Oxygen etching of thick MoS ₂ films. Chemical Communications, 2014, 50, 11226-11229.	2.2	54
36	Direct Determination of Local Lattice Polarity in Crystals. Science, 2006, 312, 1354-1354.	6.0	53

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37	Facile synthesis of intense green light emitting LiCdF ₄ :Yb,Er-based upconversion bipyramidal nanocrystals and their polymer composites. <i>Nanoscale</i> , 2014, 6, 7461-7468.	2.8	53
38	Rapid facile synthesis of Cu ₂ ZnSnS ₄ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10389-10395.	5.2	53
39	Effects of amorphous layers on ADF-STEM imaging. <i>Ultramicroscopy</i> , 2008, 108, 791-803.	0.8	52
40	Phase Engineering of 2D Tin Sulfides. <i>Small</i> , 2016, 12, 2998-3004.	5.2	51
41	Orientation and Morphological Evolution of Catalyst Nanoparticles During Carbon Nanotube Growth. <i>ACS Nano</i> , 2010, 4, 5087-5094.	7.3	47
42	Determining the thickness of atomically thin MoS ₂ and WS ₂ in the TEM. <i>Ultramicroscopy</i> , 2014, 147, 8-20.	0.8	46
43	Separation of bulk and surface-losses in low-loss EELS measurements in STEM. <i>Ultramicroscopy</i> , 2007, 107, 345-355.	0.8	45
44	Optoelectronic properties of graphene thin films deposited by a Langmuir-Blodgett assembly. <i>Nanoscale</i> , 2013, 5, 12365.	2.8	44
45	Voltage-controlled interlayer coupling in perpendicularly magnetized magnetic tunnel junctions. <i>Nature Communications</i> , 2017, 8, 15232.	5.8	43
46	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.	2.4	43
47	Nonthermal Plasma Synthesis of Core/Shell Quantum Dots: Strained Ge/Si Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8263-8270.	4.0	42
48	Dysprosium Iron Garnet Thin Films with Perpendicular Magnetic Anisotropy on Silicon. <i>Advanced Electronic Materials</i> , 2020, 6, 1900820.	2.6	41
49	Stoichiometry-driven metal-to-insulator transition in NdTiO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2014, 104, 082109.	1.5	40
50	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.	1.8	40
51	Direct Synthesis of 7 nm-Thick Zinc(II)-Benzimidazole-Acetate Metal-Organic Framework Nanosheets. <i>Chemistry of Materials</i> , 2018, 30, 69-73.	3.2	40
52	Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. <i>Nature Communications</i> , 2015, 6, 7128.	5.8	39
53	Mechanisms of plasticity in near-theoretical strength sub-100 nm Si nanocubes. <i>Acta Materialia</i> , 2015, 100, 256-265.	3.8	38
54	Sputter deposition of semicrystalline tin dioxide films. <i>Thin Solid Films</i> , 2012, 520, 2554-2561.	0.8	35

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55	Electron-beam-induced damage in wurtzite InN. <i>Applied Physics Letters</i> , 2003, 82, 859-861.	1.5	34
56	Investigation of secondary hardening in Co-35Ni-20Cr-10Mo alloy using analytical scanning transmission electron microscopy. <i>Acta Materialia</i> , 2014, 63, 63-72.	3.8	34
57	Imaging "Invisible" Dopant Atoms in Semiconductor Nanocrystals. <i>Nano Letters</i> , 2011, 11, 5553-5557.	4.5	33
58	Quasi 2D Ultrahigh Carrier Density in a Complex Oxide Broken-Gap Heterojunction. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500432.	1.9	32
59	ZrTe ₂ /CrTe ₂ : an epitaxial van der Waals platform for spintronics. <i>Nature Communications</i> , 2022, 13, .	5.8	32
60	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.	1.6	30
61	Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. <i>Science Advances</i> , 2022, 8, eabm8162.	4.7	30
62	Limits in detecting an individual dopant atom embedded in a crystal. <i>Ultramicroscopy</i> , 2011, 111, 1101-1110.	0.8	29
63	Direct observation of the core/double-shell architecture of intense dual-mode luminescent tetragonal bipyramidal nanophosphors. <i>Nanoscale</i> , 2016, 8, 10049-10058.	2.8	29
64	Synthesis of multiwall Fe ₂ O ₃ hollow fibers via a centrifugal spinning technique. <i>Materials Science and Engineering C</i> , 2019, 102, 552-557.	3.8	29
65	Full Recovery of Electron Damage in Glass at Ambient Temperatures. <i>Physical Review Letters</i> , 2006, 96, 205506.	2.9	28
66	Cu ₂ ZnSnS ₄ nanocrystal dispersions in polar liquids. <i>Chemical Communications</i> , 2013, 49, 3549.	2.2	28
67	Measuring electronic structure of wurtzite InN using electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2003, 82, 1407-1409.	1.5	27
68	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.	3.0	27
69	Visualizing the metal- S_2 contacts in two-dimensional field-effect transistors with atomic resolution. <i>Physical Review Materials</i> , 2019, 3, .	0.9	25
70	Strain-hardening in submicron silicon pillars and spheres. <i>Acta Materialia</i> , 2012, 60, 2471-2478.	3.8	24
71	Imaging Impurities in Semiconductor Nanostructures. <i>Chemistry of Materials</i> , 2013, 25, 1332-1350.	3.2	24
72	Catalyst rotation, twisting, and bending during multiwall carbon nanotube growth. <i>Carbon</i> , 2010, 48, 3840-3845.	5.4	23

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73	Hydrogen etching and cutting of multiwall carbon nanotubes. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1187-1194.	0.6	23
74	Probing core-electron orbitals by scanning transmission electron microscopy and measuring the delocalization of core-level excitations. Physical Review B, 2016, 93, .	1.1	21
75	Spin pumping and large field-like torque at room temperature in sputtered amorphous WTe ₂ films. APL Materials, 2020, 8, .	2.2	21
76	Chelant Enhanced Solution Processing for Wafer Scale Synthesis of Transition Metal Dichalcogenide Thin Films. Scientific Reports, 2017, 7, 6419.	1.6	20
77	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. Nano Letters, 2017, 17, 7578-7585.	4.5	20
78	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. Physical Review Applied, 2021, 16, .	1.5	20
79	Control of Néel Vector with Spin-Orbit Torques in an Antiferromagnetic Insulator with Tilted Easy Plane. Physical Review Letters, 2022, 129, .	2.9	20
80	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quatery Ammonium Structure as Directing Agent. Angewandte Chemie - International Edition, 2021, 60, 19214-19221.	7.2	19
81	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. Physical Review B, 2016, 93, .	1.1	18
82	A New Line Defect in NdTiO ₃ Perovskite. Nano Letters, 2016, 16, 6816-6822.	4.5	18
83	Mobility Anisotropy in Black Phosphorus MOSFETs With HfO ₂ Gate Dielectrics. IEEE Transactions on Electron Devices, 2018, 65, 4093-4101.	1.6	18
84	Defects, stoichiometry, and electronic transport in SrTiO ₃ epilayers: A high pressure oxygen sputter deposition study. Journal of Applied Physics, 2016, 120, .	1.1	17
85	Epitaxial growth: rapid synthesis of highly permeable and selective zeolite-T membranes. Journal of Materials Chemistry A, 2017, 5, 17828-17832.	5.2	17
86	Separating Electrons and Donors in BaSnO ₃ via Band Engineering. Nano Letters, 2019, 19, 8920-8927.	4.5	17
87	Rational synthesis of ternary PtIrNi nanocrystals with enhanced poisoning tolerance for electrochemical ethanol oxidation. Electrochemistry Communications, 2019, 101, 61-67.	2.3	17
88	Critical Role of Inelastic Interactions in Quantitative Electron Microscopy. Physical Review Letters, 2008, 100, 025503.	2.9	16
89	Sputtering growth of Y ₃ Fe ₅ O ₁₂ /Pt bilayers and spin transfer at Y ₃ Fe ₅ O ₁₂ /Pt interfaces. APL Materials, 2017, 5, 126104.	2.2	16
90	Metal-insulator transition in a semiconductor nanocrystal network. Science Advances, 2019, 5, eaaw1462.	4.7	16

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91	Two Distinct Stages of Structural Modification of ZIF-L MOF under Electron-Beam Irradiation. Chemistry of Materials, 2021, 33, 5681-5689.	3.2	16
92	Nucleation, Growth, and Robust Synthesis of SPP Zeolite: Effect of Ethanol, Sodium, and Potassium. Topics in Catalysis, 2015, 58, 545-558.	1.3	15
93	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L1-FePd perpendicular magnetic tunnel junctions. Applied Physics Letters, 2018, 112, .	1.5	15
94	Obtaining Structural Parameters from STEM-EDX Maps of Core/Shell Nanocrystals for Optoelectronics. ACS Applied Nano Materials, 2018, 1, 989-996.	2.4	15
95	Observation of Electrically-Inactive Interstitials in Nb-Doped SrTiO ₃ . ACS Nano, 2013, 7, 4487-4494.	7.3	14
96	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO ₃ thin films. Physical Review Materials, 2020, 4, .	0.9	14
97	Radiolytic purification of CaO by electron beams. Philosophical Magazine, 2006, 86, 2907-2917.	0.7	13
98	Simplifying Electron Beam Channeling in Scanning Transmission Electron Microscopy (STEM). Microscopy and Microanalysis, 2017, 23, 794-808.	0.2	13
99	Microstructure characterization of BaSnO ₃ thin films on LaAlO ₃ and PrScO ₃ substrates from transmission electron microscopy. Scientific Reports, 2018, 8, 10245.	1.6	13
100	Low Gilbert damping and high thermal stability of Ru-seeded L1-phase FePd perpendicular magnetic thin films at elevated temperatures. Applied Physics Letters, 2020, 117, .	1.5	13
101	Structure and basal twinning of topological insulator Bi ₂ Se ₃ . Applied Physics Letters, 2017, 111, .	0.9	12
102	Identifying Hexagonal Boron Nitride Monolayers by Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 558-567.	0.2	11
103	Plasmonic Interactions through Chemical Bonds of Surface Ligands on PbSe Nanocrystals. Chemistry of Materials, 2014, 26, 3328-3333.	3.2	11
104	Electronic structure of BaSnO ₃ investigated by high-energy-resolution electron energy-loss spectroscopy and <i>ab initio</i> calculations. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	11
105	Nonthermal Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Molybdenum Disulfide. ACS Omega, 2020, 5, 21853-21861.	1.6	11
106	Metallic line defect in wide-bandgap transparent perovskite BaSnO ₃ . Science Advances, 2021, 7, .	4.7	11
107	Atomic level scanning transmission electron microscopy characterization of GaN/AlN quantum wells. Journal of Applied Physics, 2004, 96, 738-746.	1.1	10
108	Formation of a quasi-two-dimensional electron gas in GaN/Al _x Ga _{1-x} N heterostructures with diffuse interfaces. Journal of Applied Physics, 2004, 95, 1843-1848.	1.1	10

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109	Routes to identification of intrinsic twist in helical MoS ₂ nanotubes by electron diffraction and annular dark-field scanning transmission electron microscopy imaging. Physical Review B, 2011, 84, .	1.1	10
110	Room temperature spin Kondo effect and intermixing in Co/Cu non-local spin valves. Applied Physics Letters, 2017, 110, .	1.5	10
111	Quasi continuous wave laser sintering of Si-Ge nanoparticles for thermoelectrics. Journal of Applied Physics, 2018, 123, 094301.	1.1	10
112	Electron-Beam-Damage in Metal Organic Frameworks in the TEM. Microscopy and Microanalysis, 2019, 25, 1704-1705.	0.2	10
113	Magnetic structure of N_{2Fe} determined by polarized neutron diffraction on thin-film samples. Physical Review B, 2020, 102, .	1.1	10
114	Layer Dependence of Dielectric Response and Water-Enhanced Ambient Degradation of Highly Anisotropic Black As. ACS Nano, 2020, 14, 5988-5997.	7.3	10
115	Dopant Segregation Inside and Outside Dislocation Cores in Perovskite BaSnO ₃ and Reconstruction of the Local Atomic and Electronic Structures. Nano Letters, 2021, 21, 4357-4364.	4.5	10
116	Magnetic impurities as the origin of the variability in spin relaxation rates in Cu-based spin transport devices. Physical Review Materials, 2019, 3, .	0.9	10
117	Large-scale interlayer rotations and Te grain boundaries in MoS_2 thin films. Physical Review Materials, 2020, 4, .	0.9	10
118	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. Angewandte Chemie, 2016, 128, 7300-7303.	1.6	9
119	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. Nano Letters, 2021, 21, 1246-1252.	4.5	9
120	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. Physical Review B, 2021, 104, .	1.1	9
121	Alumina Graphene Catalytic Condenser for Programmable Solid Acids. JACS, 2022, 144, 1123-1133.	3.6	9
122	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. Microscopy and Microanalysis, 2016, 22, 536-543.	0.2	8
123	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure Directing Agent. Angewandte Chemie, 2021, 133, 19363-19370.	1.6	8
124	SCALPEL mask-membrane charging. Microelectronic Engineering, 1999, 46, 223-226.	1.1	7
125	Nonuniformities in GaN/AlN quantum wells. Applied Physics Letters, 2003, 83, 2668-2670.	1.5	7
126	Fracture transitions in iron: Strain rate and environmental effects. Journal of Materials Research, 2014, 29, 1513-1521.	1.2	7

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127	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.	7.2	7
128	Ambipolar transport in van der Waals black arsenic field effect transistors. <i>Nanotechnology</i> , 2020, 31, 405203.	1.8	7
129	Structure-property relationships and mobility optimization in sputtered La-doped BaSnO_3 films: Toward 10^3 cm ² /Vs. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3623-3631.	0.9	7
130	Deep-UV Transparent Conducting Oxide La-Doped SrSnO_3 with a High Figure of Merit. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3623-3631.	2.0	7
131	Indirect transitions in thin films due to the coulomb interactions between electrons. <i>Thin Solid Films</i> , 1999, 338, 185-187.	0.8	6
132	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.	0.9	6
133	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-Beam-Induced Amorphization. <i>Angewandte Chemie</i> , 2018, 130, 13780-13785.	1.6	6
134	Atomic-resolution analytical scanning transmission electron microscopy of topological insulators with a layered tetradymite structure. <i>APL Materials</i> , 2020, 8, 070902.	2.2	6
135	High-Capacity Regenerable H ₂ S Sorbent for Reducing Sulfur Emissions. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	1.8	6
136	Solid-source metal-organic molecular beam epitaxy of epitaxial RuO ₂ . <i>APL Materials</i> , 2021, 9, .	2.2	6
137	Diffusive Formation of Hollow Mesoporous Silica Shells from Core-Shell Composites: Insights from the Hydrogen Sulfide Capture Cycle of $\text{CuO}@m\text{SiO}_2$ Nanoparticles. <i>Langmuir</i> , 2020, 36, 6540-6549.	1.6	6
138	Propagating Nanocavity-Enhanced Rapid Crystallization of Silicon Thin Films. <i>Nano Letters</i> , 2013, 13, 5735-5739.	4.5	4
139	Chemical vapor deposition of partially oxidized graphene. <i>RSC Advances</i> , 2017, 7, 32209-32215.	1.7	4
140	Simultaneous multi-region background subtraction for core-level EEL spectra. <i>Ultramicroscopy</i> , 2020, 210, 112919.	0.8	4
141	Plasmonic nanocomposites of zinc oxide and titanium nitride. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 042404.	0.9	4
142	Thermal transport in ZnO nanocrystal networks synthesized by nonthermal plasma. <i>Physical Review Materials</i> , 2020, 4, .	0.9	4
143	Challenges to magnetic doping of thin films of the Dirac semimetal Cd_3As_2 . <i>Physical Review Materials</i> , 2022, 6, .		
144	Indirect transitions caused by electron-dislocation interaction in size-quantized semiconductor film. <i>Thin Solid Films</i> , 1997, 302, 54-57.	0.8	3

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145	Carbon Diffusion from Methane into Walls of Carbon Nanotube through Structurally and Compositionally Modified Iron Catalyst. <i>Microscopy and Microanalysis</i> , 2011, 17, 582-586.	0.2	3
146	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, .	0.9	3
147	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.	1.6	3
148	STEM beam channeling in BaSnO ₃ /LaAlO ₃ perovskite bilayers and visualization of 2D misfit dislocation network. <i>Ultramicroscopy</i> , 2020, 208, 112863.	0.8	3
149	Atomic and Electronic Structure Evolution of ZIF-L Metal Organic Framework During Amorphization. <i>Microscopy and Microanalysis</i> , 2020, 26, 2968-2969.	0.2	3
150	Sub-ns Switching and Cryogenic-Temperature Performance of Mo-Based Perpendicular Magnetic Tunnel Junctions. <i>IEEE Electron Device Letters</i> , 2022, 43, 1215-1218.	2.2	3
151	Analytical electron microscopy study of growth mechanism for smoothing of metallic multilayer thin films. <i>Applied Physics Letters</i> , 2006, 89, 162509.	1.5	2
152	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. <i>Nanoscience and Technology</i> , 2011, , 435-464.	1.5	2
153	Effects of small-angle mistilts on dopant visibility in ADF-STEM imaging of nanocrystals. <i>Ultramicroscopy</i> , 2017, 177, 53-57.	0.8	2
154	Subatomic Channeling and Helicon-Type Beams in SrTiO ₃ . <i>Physical Review Letters</i> , 2019, 122, 075501.	2.9	2
155	Decomposition of L^2 spaces on S^2 and S^1 . <i>Journal of Functional Analysis</i> , 2019, 363, 2983-3000.	0.9	2
156	Electron Beam Induced Damage in Wurtzite InN. <i>Microscopy and Microanalysis</i> , 2002, 8, 628-629.	0.2	1
157	Determining the Thickness of Atomically Thin MoS ₂ and WS ₂ in the TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 1796-1797.	0.2	1
158	Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. <i>Microscopy and Microanalysis</i> , 2015, 21, 1323-1324.	0.2	1
159	Correlation Averaging of Single-Atomic-Column STEM-EDX Images for Sub-Atomic Information. <i>Microscopy and Microanalysis</i> , 2016, 22, 882-883.	0.2	1
160	Quantification of Elemental Distribution in Spherical Core-Shell Nanoparticles Measured by STEM-EDX. <i>Microscopy and Microanalysis</i> , 2016, 22, 128-129.	0.2	1
161	Characterization of MEL defects in 2 - Dimensional MFI nanosheets. <i>Microscopy and Microanalysis</i> , 2017, 23, 1802-1803.	0.2	1
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