

K Andre Mkhoyan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
197	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
196	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
195	Dopant Segregation Inside and Outside Dislocation Cores in Perovskite BaSnO and Reconstruction of the Local Atomic and Electronic Structures. <i>Nano Letters</i> , 2021 , 21, 4357-4364	11.5	4
194	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
193	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. <i>Nano Letters</i> , 2021 , 21, 1246-1252	11.5	4
192	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure-Directing Agent. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19214-19221	16.4	4
191	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
190	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. <i>Physical Review B</i> , 2021 , 104,	3.3	2
189	Solid-source metalorganic molecular beam epitaxy of epitaxial RuO ₂ . <i>APL Materials</i> , 2021 , 9, 091112	5.7	1
188	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
187	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
186	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
185	Ambipolar transport in van der Waals black arsenic field effect transistors. <i>Nanotechnology</i> , 2020 , 31, 405203	3.4	2
184	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
183	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
182	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

181	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO ₃ thin films. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
180	Thermal transport in ZnO nanocrystal networks synthesized by nonthermal plasma. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
179	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
178	STEM beam channeling in BaSnO/LaAlO perovskite bilayers and visualization of 2D misfit dislocation network. <i>Ultramicroscopy</i> , 2020 , 208, 112863	3.1	1
177	Dysprosium Iron Garnet Thin Films with Perpendicular Magnetic Anisotropy on Silicon. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900820	6.4	19
176	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
175	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
174	Nonthermal Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Molybdenum Disulfide. <i>ACS Omega</i> , 2020 , 5, 21853-21861	3.9	3
173	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
172	Simultaneous Multi-Region Background Subtraction for EELS Spectra. <i>Microscopy and Microanalysis</i> , 2019 , 25, 650-651	0.5	
171	Electron-Beam-Damage in Metal Organic Frameworks in the TEM. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1704-1705	0.5	4
170	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
169	Metal-insulator transition in a semiconductor nanocrystal network. <i>Science Advances</i> , 2019 , 5, eaaw1462	14.3	10
168	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	
167	Synthesis of multiwall FeO hollow fibers via a centrifugal spinning technique. <i>Materials Science and Engineering C</i> , 2019 , 102, 552-557	8.3	15
166	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
165	Van der Waals contacts between three-dimensional metals and two-dimensional semiconductors. <i>Nature</i> , 2019 , 568, 70-74	50.4	293
164	Visualization of Misfit Dislocation Network at the BaSnO ₃ -LaAlO ₃ Interface. <i>Microscopy and Microanalysis</i> , 2019 , 25, 980-981	0.5	

163	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	
162	Decomposition of Core-Loss EEL Edges into a Linear Combination of Refined Pure Spectra. <i>Microscopy and Microanalysis</i> , 2019 , 25, 656-657	0.5	
161	Separating Electrons and Donors in BaSnO ₃ via Band Engineering. <i>Nano Letters</i> , 2019 , 19, 8920-8927	11.5	12
160	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
159	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
158	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
157	Simultaneous multi-region background subtraction for core-level EEL spectra. <i>Ultramicroscopy</i> , 2019 , 210, 112919	3.1	2
156	Subatomic Channeling and Helicon-Type Beams in SrTiO ₃ . <i>Physical Review Letters</i> , 2019 , 122, 075501	7.4	2
155	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
154	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
153	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L1 ₀ -FePd perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018 , 112, 152401	3.4	10
152	Obtaining Structural Parameters from STEM-EDX Maps of Core/Shell Nanocrystals for Optoelectronics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 989-996	5.6	9
151	Quasi continuous wave laser sintering of Si-Ge nanoparticles for thermoelectrics. <i>Journal of Applied Physics</i> , 2018 , 123, 094301	2.5	8
150	Room-temperature high spin-orbit torque due to quantum confinement in sputtered BiSe films. <i>Nature Materials</i> , 2018 , 17, 800-807	27	214
149	Microstructure characterization of BaSnO ₃ thin films on LaAlO ₃ and PrScO ₃ substrates from transmission electron microscopy. <i>Scientific Reports</i> , 2018 , 8, 10245	4.9	9
148	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
147	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
146	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

145	Direct Synthesis of 7 nm-Thick Zinc(II)BenzimidazoleAcetate MetalOrganic Framework Nanosheets. <i>Chemistry of Materials</i> , 2018 , 30, 69-73	9.6	31
144	Sulfidation-Oxidation Cycling of a H ₂ S Adsorbing Hollow Sphere Array. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1800-1801	0.5	
143	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
142	Understanding High Contact Resistance in MOS ₂ FETs using STEM-EELS. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1558-1559	0.5	
141	Unique Line Defect Discovered in BaSnO ₃ Thin Film. <i>Microscopy and Microanalysis</i> , 2018 , 24, 68-69	0.5	
140	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
139	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
138	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	5
137	Zeolitic imidazolate framework membranes made by ligand-induced permselectivation. <i>Science</i> , 2018 , 361, 1008-1011	33.3	203
136	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
135	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
134	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
133	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
132	Voltage-controlled interlayer coupling in perpendicularly magnetized magnetic tunnel junctions. <i>Nature Communications</i> , 2017 , 8, 15232	17.4	35
131	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
130	Effects of small-angle mistilts on dopant visibility in ADF-STEM imaging of nanocrystals. <i>Ultramicroscopy</i> , 2017 , 177, 53-57	3.1	2
129	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017 , 543, 690-694	50.4	310
128	Elemental Distribution Analysis of Core/Shell Nanocrystals with STEM/EDX. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1904-1905	0.5	

127	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	
126	Dissecting Electronic Structure of a New Line Defect in NdTiO ₃ by EELS. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1576-1577	0.5	
125	Cross-sectional STEM Imaging and Spectroscopy of Devices with Embedded 2D Materials. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1440-1441	0.5	
124	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	
123	Chelant Enhanced Solution Processing for Wafer Scale Synthesis of Transition Metal Dichalcogenide Thin Films. <i>Scientific Reports</i> , 2017 , 7, 6419	4.9	13
122	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
121	Characterization of MEL defects in 2 - Dimensional MFI nanosheets. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1802-1803	0.5	1
120	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
119	Early Growth Stages of Directly Synthesized Large-Area Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1986-1987	0.5	
118	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
117	Chemical vapor deposition of partially oxidized graphene. <i>RSC Advances</i> , 2017 , 7, 32209-32215	3.7	3
116	Simplifying Electron Beam Channeling in Scanning Transmission Electron Microscopy (STEM). <i>Microscopy and Microanalysis</i> , 2017 , 23, 794-808	0.5	8
115	Simplifying Electron Beam Channeling in STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 410-411	0.5	
114	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	
113	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. <i>Physical Review B</i> , 2016 , 93,	3.3	12
112	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
111	A New Line Defect in NdTiO Perovskite. <i>Nano Letters</i> , 2016 , 16, 6816-6822	11.5	13
110	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}		

109	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}	5
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	Challenges of Oversimplifying Z-contrast in Atomic Resolution ADF-STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 946-947	0.5
100	Quantification of the Effects of Small Mistilts on Dopant Visibility in Nanocrystals. <i>Microscopy and Microanalysis</i> , 2016 , 22, 874-875	0.5
99	Titelbild: Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Isomer-Selective Membranes on Porous Polymer Supports (Angew. Chem. 25/2016). <i>Angewandte Chemie</i> , 2016 , 128, 7123-7123	3.6
98	Phase Engineering of 2D Tin Sulfides. <i>Small</i> , 2016 , 12, 2998-3004	11 37
97	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
96	Quasi 2D Ultrahigh Carrier Density in a Complex Oxide Broken-Gap Heterojunction. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500432	4.6 27
95	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
94	Atomic Structure of Self-Pillared, Single-Unit-Cell Sn-MFI Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1616-1617	0.5
93	Observation of MEL stacking faults in two-dimensional MFI zeolite nanosheets. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1634-1635	0.5
92	Defects, stoichiometry, and electronic transport in SrTiO ₃ -Epilayers: A high pressure oxygen sputter deposition study. <i>Journal of Applied Physics</i> , 2016 , 120, 055704	2.5 12

91	Investigation of Layer Composition and Morphology in Perpendicular Magnetic Tunnel Junctions. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1684-1685	0.5	
90	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	
89	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
88	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator-Ferromagnetic-Insulator Heterostructures. <i>Physical Review Letters</i> , 2016 , 117, 076601	7.4	130
87	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
86	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
85	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
84	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
83	Mechanisms of plasticity in near-theoretical strength sub-100 nm Si nanocubes. <i>Acta Materialia</i> , 2015 , 100, 256-265	8.4	34
82	Electronic Structure of New Line Defect in Strained NdTiCb on SrTiO ₃ . <i>Microscopy and Microanalysis</i> , 2015 , 21, 2073-2074	0.5	
81	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. <i>Physical Review B</i> , 2015 , 92,	3.3	66
80	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
79	Structure and transport in high pressure oxygen sputter-deposited BaSnO ₃ . <i>APL Materials</i> , 2015 , 3, 062509	5.7	72
78	Analytical Method for Thickness and Wrinkling Measurements of 2-D Zeolites. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2367-2368	0.5	
77	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
76	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
75	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3 nm Thick MFI Zeolite Nanosheets. <i>Angewandte Chemie</i> , 2015 , 127, 6671-6675	3.6	15
74	Structure evolution of M02C catalysts upon exposure to oxygen. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1059-1060	0.5	

73	Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1323-1324	0.5	1
72	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	
71	Chemical Bonding Effects in HAADF-STEM Imaging of Light-Element Ceramics. <i>Microscopy and Microanalysis</i> , 2015 , 21, 121-122	0.5	
70	Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. <i>Nature Communications</i> , 2015 , 6, 7128	17.4	31
69	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
68	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
67	Disproportionation of (Mg,Fe)SiO ₃ perovskite in Earth's deep lower mantle. <i>Science</i> , 2014 , 344, 877-82	33.3	61
66	A high-performance adsorbent for hydrogen sulfide removal. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 152-155	5.3	47
65	Plasmonic Interactions through Chemical Bonds of Surface Ligands on PbSe Nanocrystals. <i>Chemistry of Materials</i> , 2014 , 26, 3328-3333	9.6	11
64	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
63	Rapid facile synthesis of Cu ₂ ZnSnS ₄ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10389-10395	5.3	45
62	On the rotational intergrowth of hierarchical FAU/EMT zeolites. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9456-61	16.4	69
61	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
60	Oxygen etching of thick MoS ₂ films. <i>Chemical Communications</i> , 2014 , 50, 11226-9	5.8	45
59	Investigation of secondary hardening in Co ₅ Ni ₂₀ Cr ₁₀ Mo alloy using analytical scanning transmission electron microscopy. <i>Acta Materialia</i> , 2014 , 63, 63-72	8.4	24
58	Determining the thickness of atomically thin MoS ₂ and WS ₂ in the TEM. <i>Ultramicroscopy</i> , 2014 , 147, 8-20	3.1	41
57	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	
56	Dynamics of Electron Beam Channeling in Single Atomic Column and in Crystals. <i>Microscopy and Microanalysis</i> , 2014 , 20, 122-123	0.5	

55	Channeling of Aberration-corrected STEM Probes at the Sub-atomic Scale. <i>Microscopy and Microanalysis</i> , 2014 , 20, 146-147	0.5	
54	Crystallographic Structure Determination of MFI-Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2014 , 20, 390-391	0.5	
53	Strength and Plasticity of H- and Oxide- Terminated Cubic Si Nanocrystals. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1460-1461	0.5	
52	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
51	Fracture transitions in iron: Strain rate and environmental effects. <i>Journal of Materials Research</i> , 2014 , 29, 1513-1521	2.5	7
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