Andrew Minor

List of Articles by Year
in descending order

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260 peer-reviewed articles	17,910 peer-reviewed citations	17149 63 peer-reviewed h-index	331099 4.58 score
287 documents	20714 doc citations	16322 69 h-index	32634 citing authors

#	Article	IF	Citations
1	Dynamics and structure of the B2→B19’ phase transformation in NiTi revealed through in situ 4D-STEM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2025, 926, 147951.	5.4	6
2	Si/Ge 1	0.8	2
3	Self-Heating Conductive Ceramic Composites for High Temperature Thermal Energy Storage. ACS Energy Letters, 2025, 10, 1002-1012.	12.4	12
4	π–π Stacking in Kerogen and Its Mechanical Impact. ACS Applied Materials & Interfaces, 2025, 17, 12852-12861.	5.5	5
5	Three-Dimensional Crystals Assembled by Linear Oligopeptoids. Nano Letters, 2025, 25, 11940-11946.	6.2	2
6	Tiny Bubbles: Combined HR(S)TEM and 4D-STEM Analysis of Sub-Nanometer He Bubbles in Au. Microscopy and Microanalysis, 2025, 31, .	0.3	2
7	Selective Adsorption of Oxygen from Humid Air in a Metal–Organic Framework with Trigonal Pyramidal Copper(I) Sites. Journal of the American Chemical Society, 2024, 146, 3160-3170.	11.7	41
8	Rejuvenation as the origin of planar defects in the CrCoNi medium entropy alloy. Nature Communications, 2024, 15, .	10.8	47
9	Kink bands promote exceptional fracture resistance in a NbTaTiHf refractory medium-entropy alloy. Science, 2024, 384, 178-184.	26.1	204
10	Direct Imaging of the Crystalline Domains and Their Orientation in the PS-b-PEO Block Copolymer with 4D-STEM. Macromolecules, 2024, 57, 5629-5638.	3.7	14
11	Light-driven C–H activation mediated by 2D transition metal dichalcogenides. Nature Communications, 2024, 15, .	10.8	5
12	Elucidating the role of Cr migration in Ni-Cr exposed to molten FLiNaK via multiscale characterization. Acta Materialia, 2024, 279, 120206.	7.6	16
13	Correlated 4D-STEM and EDS for the classification of fine Beta-precipitates in aluminum alloy AA 6063-T6. Scripta Materialia, 2024, 253, 116288.	4.3	8
14	Multiple origins of extra electron diffractions in fcc metals. Science Advances, 2024, 10, .	8.1	20
15	Degradation of the mechanical properties of NbMoTaW refractory high-entropy alloy in tension. Acta Materialia, 2024, 279, 120297.	7.6	63
16	Strain Field Around Individual Dislocations Controls Failure. Small Methods, 2024, 8, .	5.9	3
17	The hierarchical structure of organic mixed ionic–electronic conductors and its evolution in water. Nature Materials, 2024, 24, 101-108.	23.7	29
18	Unraveling Interdiffusion Phenomena and the Role of Nanoscale Diffusion Barriers in the Copper–Gold System. ACS Nano, 2024, 18, 29658-29666.	11.5	10

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19	High-temperature carbon dioxide capture in a porous material with terminal zinc hydride sites. Science, 2024, 386, 814-819.	26.1	149
20	Observation of spin-momentum locked surface states in amorphous Bi2Se3. Nature Materials, 2023, 22, 200-206.	23.7	76
21	Formation of hierarchically ordered structures in conductive polymers to enhance the performances of lithium-ion batteries. Nature Energy, 2023, 8, 129-137.	45.2	152
22	Experimental Characterization of Photoemission from Plasmonic Nanogroove Arrays. Physical Review Applied, 2023, 19, .	2.8	13
23	Uncovering polar vortex structures by inversion of multiple scattering with a stacked Bloch wave model. Ultramicroscopy, 2023, 250, 113732.	1.7	6
24	Nanoscale mapping of point defect concentrations with 4D-STEM. Acta Materialia, 2023, 246, 118721.	7.6	19
25	Grain refinement in titanium prevents low temperature oxygen embrittlement. Nature Communications, 2023, 14, .	10.8	117
26	One dimensional wormhole corrosion in metals. Nature Communications, 2023, 14, .	10.8	79
27	Lithium Phosphorus Sulfide Chloride–Polymer Composite via the Solution–Precipitation Process for Improving Stability toward Dendrite Formation of Li-Ion Solid Electrolyte. ACS Applied Materials & Interfaces, 2023, 15, 11723-11730.	5.5	18
28	Plasmonic Nonlinear Energy Transfer Enhanced Second Harmonic Generation Nanoscopy. Nano Letters, 2023, 23, 1843-1849.	6.2	7
29	Electron-Beam Source with a Superconducting Niobium Tip. Physical Review Applied, 2023, 19, .	2.8	12
30	Theory-guided design of high-entropy alloys with enhanced strength-ductility synergy. Nature Communications, 2023, 14, .	10.8	57
31	Deformation and failure of the CrCoNi medium-entropy alloy subjected to extreme shock loading. Science Advances, 2023, 9, .	8.1	117
32	Engineering the Interface of Ceria and Silver Janus Nanoparticles for Enhanced Catalytic Performance in 4-Nitrophenol Conversion. ACS Applied Nano Materials, 2023, 6, 8141-8145.	4.1	10
33	Superior tensile creep behavior of a novel oxide dispersion strengthened CrCoNi multi-principal element alloy. Acta Materialia, 2023, 255, 119032.	7.6	33
34	In Situ Testing of Ultrathin Diffusion Barriers using Complex Multishell Nanowires. Microscopy and Microanalysis, 2023, 29, 1585-1586.	0.3	0
35	In-situ Air-Free 4D-STEM Biasing of Model Lithium-Sulfur Batteries. Microscopy and Microanalysis, 2023, 29, 1322-1323.	0.3	0
36	Imaging Gas Adsorption in MOFs via 4D-STEM. Microscopy and Microanalysis, 2023, 29, 313-313.	0.3	0

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37	Diffuse Electron Diffraction Intensities in Concentrated Solid Solutions Do Not Necessarily Come from Short-range Order. Microscopy and Microanalysis, 2023, 29, 437-438.	0.3	3
38	4D-STEM Characterization of Microstructural Transformations in Conductive Polymers Used for Li-ion Battery Anodes. Microscopy and Microanalysis, 2023, 29, 314-315.	0.3	0
39	Disentangling Tilt and Polarization Measurements in 4D-STEM Measurements of a Multilayer by Inversion of a Stacked Bloch Wave Model. Microscopy and Microanalysis, 2023, 29, 256-257.	0.3	3
40	Architecture, Development Cycle, and Governance Considerations in Co-created Research Software: the Example of py4DSTEM and Analysis of 4D-STEM Data. Microscopy and Microanalysis, 2023, 29, 339-341.	0.3	0
41	Fabrication of Specimens for Atom Probe Tomography Using a Combined Gallium and Neon Focused Ion Beam Milling Approach. Microscopy and Microanalysis, 2023, 29, 1628-1638.	0.3	6
42	On the strength and fracture toughness of an additive manufactured CrCoNi medium-entropy alloy. Acta Materialia, 2023, 258, 119249.	7.6	110
43	The influence of processing methods on creep of wrought and additively manufactured CrCoNi multi-principal element alloys. Acta Materialia, 2023, 261, 119403.	7.6	20
44	Design of Electrostatic Aberration Correctors for Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2023, 29, 1950-1960.	0.3	6
45	Relativistic ultrafast electron diffraction at high repetition rates. Structural Dynamics, 2023, 10, .	1.4	14
46	Analysis of Strain and Defects in Tellurium-WSe2 Moiré Heterostructures Using Scanning Nanodiffraction. ACS Nano, 2023, 17, 22326-22333.	11.5	18
47	In situ transmission electron microscopy investigation of electroplasticity in single crystal nickel. Acta Materialia, 2022, 223, 117461.	7.6	60
48	Lithium substituted poly(amic acid) as a water-soluble anode binder for high-temperature pre-lithiation. Journal of Power Sources, 2022, 521, 230889.	6.1	16
49	Fatigue-crack propagation behavior in a high-carbon chromium SUJ2 bearing steel: Role of microstructure. International Journal of Fatigue, 2022, 156, 106693.	5.2	32
50	Visualization and validation of twin nucleation and early-stage growth in magnesium. Nature Communications, 2022, 13, .	10.8	70
51	Cryogenic 4D-STEM analysis of an amorphous-crystalline polymer blend: Combined nanocrystalline and amorphous phase mapping. IScience, 2022, 25, 103882.	2.4	31
52	Correlative analysis of structure and chemistry of LixFePO4 platelets using 4D-STEM and X-ray ptychography. Materials Today, 2022, 52, 102-111.	12.6	15
53	Correlative image learning of chemo-mechanics in phase-transforming solids. Nature Materials, 2022, 21, 547-554.	23.7	59
54	Microstructural dependence of defect formation in iron-oxide thin films. Applied Surface Science, 2022, 589, 152844.	5.1	3

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55	Determination of peak ordering in the CrCoNi medium-entropy alloy via nanoindentation. Acta Materialia, 2022, 241, 118380.	7.6	77
56	Accurate quantification of lattice temperature dynamics from ultrafast electron diffraction of single-crystal films using dynamical scattering simulations. Structural Dynamics, 2022, 9, .	1.4	15
57	Near-Monochromatic Tuneable Cryogenic Niobium Electron Field Emitter. Physical Review Letters, 2022, 129, .	5.8	20
58	Exceptional fracture toughness of CrCoNi-based medium- and high-entropy alloys at 20 kelvin. Science, 2022, 378, 978-983.	26.1	512
59	Disentangling multiple scattering with deep learning: application to strain mapping from electron diffraction patterns. Npj Computational Materials, 2022, 8, .	8.0	43
60	The Impact of the Conflict in Ukraine on the Development of the Higher University Military Education Process – Adapting Maritime Operational Art to the Dynamics of Modern Military Actions –. , 2022, 2022, 282-293.		0
61	Twin nucleation from a single <c+a> dislocation in hexagonal close-packed crystals. Acta Materialia, 2021, 202, 35-41.	7.6	29
62	Dislocation structures below a nano-indent of the CoCrNi medium-entropy alloy. Materials Letters, 2021, 283, 128821.	1.8	14
63	Probing electronic structure in berkelium and californium via an electron microscopy nanosampling approach. Nature Communications, 2021, 12, .	10.8	12
64	Cryogenic in-situ clamped beam testing of Sn96. Journal of Materials Research, 2021, 36, 1751-1761.	1.9	4
65	Evaluating the effects of pillar shape and gallium ion beam damage on the mechanical properties of single crystal aluminum nanopillars. Journal of Materials Research, 2021, 36, 2515-2528.	1.9	11
66	Nanomechanical testing of freestanding polymer films: in situ tensile testing and Tg measurement. Journal of Materials Research, 2021, 36, 2456-2464.	1.9	13
67	Tuning Hole Mobility of Individual p-Doped GaAs Nanowires by Uniaxial Tensile Stress. Nano Letters, 2021, 21, 3894-3900.	6.2	12
68	Limiting Current in Nanostructured Block Copolymer Electrolytes. Macromolecules, 2021, 54, 4010-4022.	3.7	28
69	Precise measurement of activation parameters for individual dislocation nucleation during in situ TEM tensile testing of single crystal nickel. Scripta Materialia, 2021, 197, 113764.	4.3	12
70	4D-STEM of Beam-Sensitive Materials. Accounts of Chemical Research, 2021, 54, 2543-2551.	11.6	142
71	Extreme mixing in nanoscale transition metal alloys. Matter, 2021, 4, 2340-2353.	9.6	268
72	Ultrafast optical melting of trimer superstructure in layered 1T'-TaTe2. Communications Physics, 2021, 4, .	3.5	29

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73	Multidimensional Nano-Imaging of Structure, Coupling, and Disorder in Molecular Materials. Nano Letters, 2021, 21, 6463-6470.	6.2	10
74	Direct observation of nanocrystal-induced enhancement of tensile ductility in a metallic glass composite. Materials and Design, 2021, 209, 109970.	5.4	8
75	Elimination of oxygen sensitivity in α-titanium by substitutional alloying with Al. Nature Communications, 2021, 12, .	10.8	150
76	A strain-driven thermotropic phase boundary in BaTiO3 at room temperature by cycling compression. AIP Advances, 2021, 11, .	1.0	0
77	Advances in in situ nanomechanical testing. MRS Bulletin, 2020, 44, 438-442.	3.5	39
78	Cryogenic electron microscopy for quantum science. MRS Bulletin, 2020, 44, 961-966.	3.5	30
79	Patterned probes for high precision 4D-STEM bragg measurements. Ultramicroscopy, 2020, 209, 112890.	1.7	98
80	Tunable Anelasticity in Amorphous Si Nanowires. Nano Letters, 2020, 20, 449-455.	6.2	10
81	Impurity and texture driven HCP-to-FCC transformations in Ti-X thin films during in situ TEM annealing and FIB milling. Acta Materialia, 2020, 184, 199-210.	7.6	54
82	Disorder recovers the Wiedemann-Franz law in the metallic phase of VO2. Physical Review B, 2020, 102, .	2.4	18
83	Effect of salt concentration profiles on protrusion growth in lithium-polymer-lithium cells. Solid State Ionics, 2020, 358, 115517.	2.6	16
84	Engineering Mesoporous Silica Nanoparticles for Targeted Alpha Therapy against Breast Cancer. ACS Applied Materials & Interfaces, 2020, 12, 40078-40084.	5.5	43
85	Mechanistic basis of oxygen sensitivity in titanium. Science Advances, 2020, 6, .	8.1	168
86	Effects of cryogenic temperature and grain size on fatigue-crack propagation in the medium-entropy CrCoNi alloy. Acta Materialia, 2020, 200, 351-365.	7.6	153
87	Extreme Ductility in Freestanding Polystyrene Thin Films. Macromolecules, 2020, 53, 8650-8662.	3.7	18
88	Short-range order and its impact on the CrCoNi medium-entropy alloy. Nature, 2020, 581, 283-287.	30.7	1,284
89	Resolving Enhanced Mn2+ Luminescence near the Surface of CsPbCl3 with Time-Resolved Cathodoluminescence Imaging. Journal of Physical Chemistry Letters, 2020, 11, 2624-2629.	2.9	10
90	Proton irradiation-decelerated intergranular corrosion of Ni-Cr alloys in molten salt. Nature Communications, 2020, 11, .	10.8	98

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91	Selective Lanthanide Sensing with Gold Nanoparticles and Hydroxypyridinone Chelators. Inorganic Chemistry, 2020, 59, 2030-2036.	3.4	31
92	Defect reconfiguration in a Ti–Al alloy via electroplasticity. Nature Materials, 2020, 20, 468-472.	23.7	354
93	Atomic structures determined from digitally defined nanocrystalline regions. IUCrJ, 2020, 7, 490-499.	1.9	23
94	Origins of the transformability of nickel-titanium shape memory alloys. Physical Review Materials, 2020, 4, .	1.8	3
95	Hierarchically-structured large superelastic deformation in ferroelastic-ferroelectrics. Acta Materialia, 2019, 181, 501-509.	7.6	30
96	Trap-Assisted Charge Injection into Large Bandgap Polymer Semiconductors. Materials, 2019, 12, 2427.	2.1	3
97	Gallium, neon and helium focused ion beam milling of thin films demonstrated for polymeric materials: study of implantation artifacts. Nanoscale, 2019, 11, 1403-1409.	3.6	45
98	Nanoscale mosaicity revealed in peptide microcrystals by scanning electron nanodiffraction. Communications Biology, 2019, 2, .	3.1	66
99	Identifying rhenium substitute candidate multiprincipal-element alloys from electronic structure and thermodynamic criteria. Journal of Materials Research, 2019, 34, 3296-3304.	1.9	8
100	Helical van der Waals crystals with discretized Eshelby twist. Nature, 2019, 570, 358-362.	30.7	135
101	Direct measurement of nanostructural change during in situ deformation of a bulk metallic glass. Nature Communications, 2019, 10, .	10.8	78
102	Diffraction imaging of nanocrystalline structures in organic semiconductor molecular thin films. Nature Materials, 2019, 18, 860-865.	23.7	156
103	Ultrafast Relativistic Electron Nanoprobes. Communications Physics, 2019, 2, .	3.5	36
104	Revealing deformation mechanisms in Mg–Y alloy by in situ deformation of nano-pillars with mediated lateral stiffness. Journal of Materials Research, 2019, 34, 1542-1554.	1.9	6
105	Ion Write Microthermotics: Programing Thermal Metamaterials at the Microscale. Nano Letters, 2019, 19, 3830-3837.	6.2	51
106	Statistical analysis of twin/grain boundary interactions in pure rhenium. Acta Materialia, 2019, 173, 44-51.	7.6	36
107	Early-stage NiCrMo oxidation revealed by cryo-transmission electron microscopy. Ultramicroscopy, 2019, 200, 6-11.	1.7	5
108	Amplified luminescence in organo-curium nanocrystal hybrids. Nanoscale, 2019, 11, 7609-7612.	3.6	5

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109	In situ transmission electron microscopy investigation on c+a slip in Mg. Journal of Materials Research, 2019, 34, 1499-1508.	1.9	13
110	Direct imaging of short-range order and its impact on deformation in Ti-6Al. Science Advances, 2019, 5, .	8.1	142
111	Plasmonic Lenses for Tunable Ultrafast Electron Emitters at the Nanoscale. Physical Review Applied, 2019, 12, .	2.8	19
112	Knife-edge based measurement of the 4D transverse phase space of electron beams with picometer-scale emittance. Physical Review Accelerators and Beams, 2019, 22, .	1.3	13
113	Three-dimensional Architecture Enabled by Strained Two-dimensional Material Heterojunction. Nano Letters, 2018, 18, 1819-1825.	6.2	32
114	Solution-grown crystals of precise acid- and ion-containing polyethylenes. Polymer, 2018, 135, 111-119.	3.4	19
115	Local nanoscale strain mapping of a metallic glass during in situ testing. Applied Physics Letters, 2018, 112, .	2.3	52
116	Evaluation of using pre-lithiated graphite from recycled Li-ion batteries for new LiB anodes. Resources, Conservation and Recycling, 2018, 129, 129-134.	7.5	65
117	In situ nanobeam electron diffraction strain mapping of planar slip in stainless steel. Scripta Materialia, 2018, 146, 87-90.	4.3	53
118	Measuring temperature-dependent thermal diffuse scattering using scanning transmission electron microscopy. Applied Physics Letters, 2018, 113, .	2.3	27
119	Imaging Unstained Synthetic Polymer Crystals and Defects on Atomic Length Scales Using Cryogenic Electron Microscopy. Macromolecules, 2018, 51, 7794-7799.	3.7	44
120	Architecture-Guided Fluid Flow Directs Renal Biomineralization. Scientific Reports, 2018, 8, .	2.7	13
121	Microstructural evolution of rhenium Part II: Tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 732, 259-272.	5.4	20
122	Correlation between Electrical Transport and Nanoscale Strain in InAs/In0.6Ga0.4As Core–Shell Nanowires. Nano Letters, 2018, 18, 4949-4956.	6.2	24
123	Microstructural evolution of rhenium Part I: Compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 732, 251-258.	5.4	22
124	In situ TEM Raman spectroscopy and laser-based materials modification. Ultramicroscopy, 2017, 178, 33-37.	1.7	24
125	Laser welding of vertically aligned carbon nanotube arrays on polymer workpieces. Carbon, 2017, 115, 688-693.	8.6	16
126	Optimizing disk registration algorithms for nanobeam electron diffraction strain mapping. Ultramicroscopy, 2017, 176, 170-176.	1.7	92

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127	Electron transport and visible light absorption in a plasmonic photocatalyst based on strontium niobate. Nature Communications, 2017, 8, .	10.8	85
128	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. Nature Communications, 2017, 8, .	10.8	66
129	Influence of the Ag concentration on the medium-range order in a CuZrAlAg bulk metallic glass. Scientific Reports, 2017, 7, .	2.7	29
130	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. Nature Communications, 2017, 8, .	10.8	86
131	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. ChemSusChem, 2017, 10, 2449-2456.	4.3	90
132	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. Chemistry of Materials, 2017, 29, 9192-9199.	4.6	22
133	Review Article: Case studies in future trends of computational and experimental nanomechanics. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	1.5	15
134	Strain-engineered growth of two-dimensional materials. Nature Communications, 2017, 8, .	10.8	386
135	Piezoresistive Response of Quasi-One-Dimensional ZnO Nanowires Using an in Situ Electromechanical Device. ACS Omega, 2017, 2, 2985-2993.	3.4	82
136	In situ TEM observation of FCC Ti formation at elevated temperatures. Scripta Materialia, 2017, 140, 9-12.	4.3	106
137	Evaluation of neon focused ion beam milling for TEM sample preparation. Journal of Microscopy, 2016, 264, 59-63.	1.0	28
138	Local and transient nanoscale strain mapping during in situ deformation. Applied Physics Letters, 2016, 109, .	2.3	58
139	Current status and future directions for in situ transmission electron microscopy. Ultramicroscopy, 2016, 170, 86-95.	1.7	228
140	Development of Mo-Ni-Si-B metallic glass with high thermal stability and H versus E ratios. Materials and Design, 2016, 98, 31-40.	5.4	18
141	Orientation mapping of semicrystalline polymers using scanning electron nanobeam diffraction. Micron, 2016, 88, 30-36.	1.9	79
142	Observation of polar vortices in oxide superlattices. Nature, 2016, 530, 198-201.	30.7	994
143	Multiple Twinning and Stacking Faults in Silver Dendrites. Crystal Growth and Design, 2016, 16, 467-474.	2.4	15
144	Influence of void-free perovskite capping layer on the charge recombination process in high performance CH3NH3PbI3perovskite solar cells. Nanoscale, 2016, 8, 4181-4193.	3.6	30

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145	Highly mobile ferroelastic domain walls in compositionally graded ferroelectric thin films. Nature Materials, 2016, 15, 549-556.	23.7	114
146	Dynamic investigation of defects induced by short, high current pulses of high energy lithium ions. Materials Research Society Symposia Proceedings, 2015, 1712, .	0.1	1
147	Solvent processed conductive polymer with single-walled carbon nanotube composites. Journal of Materials Research, 2015, 30, 3403-3411.	1.9	4
148	Electrochemical Deposition and Stripping Behavior of Lithium Metal across a Rigid Block Copolymer Electrolyte Membrane. Journal of the Electrochemical Society, 2015, 162, A2699-A2706.	2.2	106
149	Morphology of Hydrated As-Cast Nafion Revealed through Cryo Electron Tomography. ACS Macro Letters, 2015, 4, 1-5.	3.2	251
150	Electronic Origins of Anomalous Twin Boundary Energies in Hexagonal Close Packed Transition Metals. Physical Review Letters, 2015, 115, .	5.8	29
151	Size-dependent mechanical properties of Mg nanoparticles used for hydrogen storage. Applied Physics Letters, 2015, 106, .	2.3	24
152	Multiscale characterization of dislocation processes in Al 5754. Philosophical Magazine, 2015, 95, 2198-2209.	0.8	5
153	Effect of Elastic Strain Fluctuation on Atomic Layer Growth of Epitaxial Silicide in Si Nanowires by Point Contact Reactions. Nano Letters, 2015, 15, 4121-4128.	6.2	19
154	Diffraction contrast imaging using virtual apertures. Ultramicroscopy, 2015, 155, 1-10.	1.7	110
155	In situTEM nanomechanics. MRS Bulletin, 2015, 40, 62-70.	3.5	96
156	Laser-Induced Reductive Sintering of Nickel Oxide Nanoparticles under Ambient Conditions. Journal of Physical Chemistry C, 2015, 119, 6363-6372.	2.3	72
157	Probing Local Electronic Transitions in Organic Semiconductors through Energy-Loss Spectrum Imaging in the Transmission Electron Microscope. Advanced Functional Materials, 2015, 25, 6071-6076.	11.9	26
158	Oriented Growth of Gold Nanowires on MoS2. Advanced Functional Materials, 2015, 25, 6257-6264.	11.9	28
159	Strain mapping at nanometer resolution using advanced nano-beam electron diffraction. Applied Physics Letters, 2015, 106, .	2.3	209
160	Vanadium dioxide nanowire-based microthermometer for quantitative evaluation of electron beam heating. Nature Communications, 2014, 5, .	10.8	57
161	Observing and measuring strain in nanostructures and devices with transmission electron microscopy. MRS Bulletin, 2014, 39, 138-146.	3.5	90
162	Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6198-6202.	5.2	1,097

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163	Ferroelastic domain switching dynamics under electrical and mechanical excitations. Nature Communications, 2014, 5, .	10.8	182
164	Morphology-Conductivity Relationship in Crystalline and Amorphous Sequence-Defined Peptoid Block Copolymer Electrolytes. Journal of the American Chemical Society, 2014, 136, 14990-14997.	11.7	72
165	The effect of size on dislocation cell formation and strain hardening in aluminium. Philosophical Magazine, 2014, 94, 2062-2071.	0.8	30
166	Twin boundary interactions with grain boundaries investigated in pure rhenium. Acta Materialia, 2014, 81, 1-8.	7.6	80
167	In situ TEM observations of plastic deformation in quartz crystals. Physics and Chemistry of Minerals, 2014, 41, 757-765.	0.8	10
168	Reducing deformation anisotropy to achieve ultrahigh strength and ductility in Mg at the nanoscale. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13289-13293.	5.2	131
169	In Situ Formed Si Nanoparticle Network with Micron-Sized Si Particles for Lithium-Ion Battery Anodes. Nano Letters, 2013, 13, 5397-5402.	6.2	91
170	Synthesis of hierarchical TiO2 nanowires with densely-packed and omnidirectional branches. Nanoscale, 2013, 5, 11147.	3.6	83
171	Source mechanism of non-basal c+a slip in Ti alloy. Scripta Materialia, 2013, 69, 57-60.	4.3	55
172	Deciphering the three-dimensional morphology of free-standing block copolymer thin films by transmission electron microscopy. Micron, 2013, 44, 442-450.	1.9	7
173	Electromechanical Probing of Li/Li2CO3Core/Shell Particles in a TEM. Journal of the Electrochemical Society, 2013, 160, A415-A419.	2.2	77
174	On Demand Shape-Selective Integration of Individual Vertical Germanium Nanowires on a Si(111) Substrate via Laser-Localized Heating. ACS Nano, 2013, 7, 2090-2098.	11.5	21
175	Conductive Polymer and Silicon Composite Secondary Particles for a High Area-Loading Negative Electrode. Journal of the Electrochemical Society, 2013, 160, A1380-A1383.	2.2	31
176	Nanomechanical actuation from phase transitions in individual VO2 micro-beams. Applied Physics Letters, 2013, 102, .	2.3	19
177	Generation of single-crystalline domain in nano-scale silicon pillars by near-field short pulsed laser. Applied Physics A: Materials Science and Processing, 2013, 114, 277-285.	2.1	15
178	Conductive Polymer and Silicon Composite Secondary Particles for a High Area-Loading Negative Electrode. ECS Meeting Abstracts, 2013, MA2013-02, 1005-1005.	0.0	0
179	High-strength titanium alloy nanopillars with stacking faults and enhanced plastic flow. Applied Physics Letters, 2012, 100, .	2.3	42
180	Application of small-scale testing for investigation of ion-beam-irradiated materials. Journal of Materials Research, 2012, 27, 2724-2736.	1.9	92

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181	The Nanostructured Origin of Deformation Twinning. Nano Letters, 2012, 12, 887-892.	6.2	238
182	In Situ TEM Near-Field Optical Probing of Nanoscale Silicon Crystallization. Nano Letters, 2012, 12, 2524-2529.	6.2	53
183	Embedded Binary Eutectic Alloy Nanostructures. Jom, 2012, 64, 1158-1164.	1.4	4
184	The Effect of Size on the Deformation Twinning Behavior in Hexagonal Close-Packed Ti and Mg. Jom, 2012, 64, 1235-1240.	1.4	56
185	Strength, Hardening, and Failure Observed by In Situ TEM Tensile Testing. Advanced Engineering Materials, 2012, 14, 960-967.	2.2	19
186	A Method for Extracting Quantitative Data During in-situ TEM Nanoindentation. Materials Research Society Symposia Proceedings, 2011, 695, .	0.1	1
187	Focused Ion Beam Microscopy and Micromachining. MRS Bulletin, 2011, 32, 389-399.	3.5	575
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