

Yuichi Ikuhara

List of Publications by Year in descending order

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966
papers

30,148
citations

7069

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all docs

988
docs citations

988
times ranked

25211
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of annealing on grain growth and Y segregation behavior in tetragonal ZrO ₂ thin film. Journal of the American Ceramic Society, 2022, 105, 2300-2308.	1.9	1
2	Factors limiting quantitative phase retrieval in atomic-resolution differential phase contrast scanning transmission electron microscopy using a segmented detector. Ultramicroscopy, 2022, 233, 113457.	0.8	5
3	Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal: Effect of Y ₃₊ distribution in grain interiors. Acta Materialia, 2022, 227, 117659.	3.8	14
4	Fluoride-ion conversion alloy for fluoride-ion batteries. Journal of Materials Chemistry A, 2022, 10, 3743-3749.	5.2	4
5	Atomic-Level Changes during Electrochemical Cycling of Oriented LiMn ₂ O ₄ Cathodic Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 6507-6517.	4.0	9
6	Real-space visualization of intrinsic magnetic fields of an antiferromagnet. Nature, 2022, 602, 234-239.	13.7	41
7	Direct imaging of the disconnection climb mediated point defects absorption by a grain boundary. Nature Communications, 2022, 13, 1455.	5.8	17
8	The Observation of Local Electric Fields in GaN/AlGaN/InGaN Multi-heterostructures by Differential Phase Contrast STEM. IEEE Transactions on Electronics, Information and Systems, 2022, 142, 367-372.	0.1	0
9	Atomic and electronic band structures of Y-doped Al ₂ O ₃ grain boundaries. Journal of the Ceramic Society of Japan, 2022, 130, 286-289.	0.5	7
10	Direct Observation of Atomistic Reaction Process between Pt Nanoparticles and TiO ₂ (110). Nano Letters, 2022, 22, 4161-4167.	4.5	9
11	Design and Fabrication of an Electrochemical Chip for Liquid-Phase Transmission Electron Microscopy. Microscopy (Oxford, England), 2022, , .	0.7	2
12	Quantitative electric field mapping in semiconductor heterostructures via tilt-scan averaged DPC STEM. Ultramicroscopy, 2022, 238, 113538.	0.8	11
13	Atomic-resolution STEM image denoising by total variation regularization. Microscopy (Oxford, England), 2022, , .	0.7	1
14	Linear imaging theory for differential phase contrast and other phase imaging modes in scanning transmission electron microscopy. Ultramicroscopy, 2022, , 113580.	0.8	3
15	Lithium Lanthanum Titanate Single Crystals: Dependence of Lithium-Ion Conductivity on Crystal Domain Orientation. Nano Letters, 2022, 22, 5516-5522.	4.5	9
16	Reliable electrochemical setup for <i>in situ</i> observations with an atmospheric SEM. Microscopy (Oxford, England), 2022, 71, 311-314.	0.7	2
17	Toward quantitative electromagnetic field imaging by differential-phase-contrast scanning transmission electron microscopy. Microscopy (Oxford, England), 2021, 70, 148-160.	0.7	17
18	In situ electron microscopy analysis of electrochemical Zn deposition onto an electrode. Journal of Power Sources, 2021, 481, 228831.	4.0	33

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19	Ultra-high contrast STEM imaging for segmented/pixelated detectors by maximizing the signal-to-noise ratio. Ultramicroscopy, 2021, 220, 113133.	0.8	15
20	Fabrication and characterization of tetragonal yttria-stabilized zirconia single-crystalline thin film. Journal of the American Ceramic Society, 2021, 104, 1198-1203.	1.9	2
21	Layered cobalt oxide epitaxial films exhibiting thermoelectric $ZT = 0.11$ at room temperature. Journal of Materials Chemistry A, 2021, 9, 274-280.	5.2	22
22	Atomistic origin of high-concentration Ce ³⁺ in {100}-faceted Cr-substituted CeO ₂ nanocrystals. Acta Materialia, 2021, 203, 116473.	3.8	18
23	Dislocation-induced large local polarization inhomogeneity of ferroelectric materials. Scripta Materialia, 2021, 194, 113624.	2.6	7
24	3D arrangement of atomic polyhedra in tilt grain boundaries. Acta Materialia, 2021, 202, 266-276.	3.8	8
25	Anisotropic Electrical Conductivity of Oxygen-Deficient Tungsten Oxide Films with Epitaxially Stabilized 1D Atomic Defect Tunnels. ACS Applied Materials & Interfaces, 2021, 13, 6864-6869.	4.0	6
26	Nanoscale Defluorination Mechanism and Solid Electrolyte Interphase of a MgF ₂ Anode in Fluoride-Shuttle Batteries. ACS Applied Energy Materials, 2021, 4, 996-1003.	2.5	7
27	Room temperature fluoride ion conductivity in defective $\text{K}_2\text{Sb}_2\text{F}_7$ polycrystals. Journal of Power Sources, 2021, 483, 229173.	4.0	4
28	Direct imaging of atomistic grain boundary migration. Nature Materials, 2021, 20, 951-955.	13.3	94
29	Photoindentation: A New Route to Understanding Dislocation Behavior in Light. Nano Letters, 2021, 21, 1962-1967.	4.5	25
30	Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals. Advanced Materials Interfaces, 2021, 8, 2001932.	1.9	9
31	Anatase-like Grain Boundary Structure in Rutile Titanium Dioxide. Nano Letters, 2021, 21, 2745-2751.	4.5	9
32	Automated geometric aberration correction for large-angle illumination STEM. Ultramicroscopy, 2021, 222, 113215.	0.8	4
33	Direct visualization of anionic electrons in an electride reveals inhomogeneities. Science Advances, 2021, 7, .	4.7	24
34	Thermal Management Technologies: Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals (Adv. Mater. Interfaces 7/2021). Advanced Materials Interfaces, 2021, 8, 2170039.	1.9	0
35	Low thermal conductivity of SrTiO ₃ -LaTiO ₃ and SrTiO ₃ -SrNbO ₃ thermoelectric oxide solid solutions. Journal of the American Ceramic Society, 2021, 104, 4075-4085.	1.9	5
36	Atomic-Resolution Topographic Imaging of Crystal Surfaces. ACS Nano, 2021, 15, 9186-9193.	7.3	7

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37	Two-Dimensional Room-Temperature Giant Antiferrodistortive SrTiO ₃ at a Grain Boundary. <i>Physical Review Letters</i> , 2021, 126, 225702.	2.9	7
38	Fabrication of calcite-core/Mg-calcite-shell nanorods for better thermal stability. <i>Advanced Powder Technology</i> , 2021, 32, 2577-2584.	2.0	3
39	Arrangement of polyhedral units for [0001]-symmetrical tilt grain boundaries in zinc oxide. <i>Acta Materialia</i> , 2021, 212, 116864.	3.8	3
40	Defect Engineering and Anisotropic Modulation of Ionic Transport in Perovskite Solid Electrolyte Li _x La _{(1-x)/3} NbO ₃ . <i>Molecules</i> , 2021, 26, 3559.	1.7	7
41	Single-Dislocation Schottky Diodes. <i>Nano Letters</i> , 2021, 21, 5586-5592.	4.5	5
42	Atomistic Origin of Li-Ion Conductivity Reduction at (Li _{3-x} La _{2/3})TiO ₃ Grain Boundary. <i>Nano Letters</i> , 2021, 21, 6282-6288.	4.5	20
43	Development of High-Speed Scan System for Atomic Resolution STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 2710-2712.	0.2	0
44	Direct atomistic defect observations by depth sectioning and dynamic STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 2138-2139.	0.2	0
45	Direct visualization of nucleation intermediate state of magnetic skyrmion from helical stripes assisted by artificial surface pits. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 531, 167976.	1.0	6
46	Flexoelectric nanodomains in rare-earth iron garnet thin films under strain gradient. <i>Communications Materials</i> , 2021, 2, .	2.9	10
47	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	35
48	Surface segregation of 3 mol % yttria-doped tetragonal zirconia particle studied by atomic-resolution scanning transmission electron microscopy-energy-dispersive X-ray spectroscopy. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 561-565.	0.5	4
49	Atomic-scale mechanism of rhombohedral twinning in sapphire. <i>Acta Materialia</i> , 2021, 216, 117137.	3.8	8
50	Surfactant-mediated morphology evolution and self-assembly of cerium oxide nanocrystals for catalytic and supercapacitor applications. <i>Nanoscale</i> , 2021, 13, 10393-10401.	2.8	11
51	Improving the depth resolution of STEM-ADF sectioning by 3D deconvolution. <i>Microscopy (Oxford)</i> , 2021, 31, 0.784314. <small>rgBT /Overl</small>	0.7	5
52	An elastic metal-organic crystal with a densely catenated backbone. <i>Nature</i> , 2021, 598, 298-303.	18.7	50
53	Breaking of Thermopower-Conductivity Trade-Off in LaTiO ₃ Film around Mott Insulator to Metal Transition. <i>Advanced Science</i> , 2021, 8, 2102097.	5.6	6
54	Oxygen atom ordering on SiO ₂ /4H-SiC {0001} polar interfaces formed by wet oxidation. <i>Acta Materialia</i> , 2021, 221, 117360.	3.8	5

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55	Reprint of: Automated geometric aberration correction for large-angle illumination STEM. <i>Ultramicroscopy</i> , 2021, 231, 113410.	0.8	0
56	Unveiling the Electronic Structure of Grain Boundaries in Anatase with Electron Microscopy and First-Principles Modeling. <i>Nano Letters</i> , 2021, 21, 9217-9223.	4.5	8
57	Solid-State Electrochemical Switch of Superconductor "Metal" Insulators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54204-54209.	4.0	2
58	On-Chip Electrochemical Analysis Combined with Liquid-Phase Electron Microscopy of Zinc Deposition/Dissolution. <i>Journal of the Electrochemical Society</i> , 2021, 168, 112511.	1.3	8
59	Spin Polarization-Assisted Dopant Segregation at a Coherent Phase Boundary. <i>ACS Nano</i> , 2021, 15, 19938-19944.	7.3	6
60	Ferroelectric Oxide Thin Film with an Out-of-Plane Electrical Conductivity. <i>Nano Letters</i> , 2020, 20, 1047-1053.	4.5	5
61	Single-source-precursor synthesis and high-temperature evolution of novel mesoporous SiVN(O)-based ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2020, 40, 6280-6287.	2.8	11
62	Grain boundary functions as a spin valve. <i>National Science Review</i> , 2020, 7, 1148-1149.	4.6	4
63	Atomic and electronic band structures of Ti-doped Al_2O_3 grain boundaries. <i>Acta Materialia</i> , 2020, 201, 488-493.	3.8	21
64	Unusually Large Thermopower Change from +330 to $\sim 185 \text{ } \mu\text{V K}^{-1}$ of Brownmillerite $\text{SrCoO}_{2.5}$. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2250-2256.	2.0	4
65	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 19837-19842.	1.6	3
66	Atomic-Scale Analysis of Biphasic Boundaries in the Lithium-Ion Battery Cathode Material LiFePO_4 . <i>ACS Applied Energy Materials</i> , 2020, 3, 8009-8016.	2.5	5
67	Coexistence of High Electron Conduction and Low Heat Conduction in Tungsten Oxide Epitaxial Films with 1D Atomic Defect Tunnels. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2507-2513.	2.0	8
68	Metastable oxysulfide surface formation on $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ single crystal particles by carbothermal reaction with sulfur-doped heterocarbon nanoparticles: new insight into their structural and electrochemical characteristics, and their potential applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22302-22314.	5.2	17
69	Atomic structures of Ti-doped Al_2O_3 grain boundary with a small amount of Si impurity. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6659-6665.	1.9	6
70	Dislocation and oxygen-release driven delithiation in Li_2MnO_3 . <i>Nature Communications</i> , 2020, 11, 4452.	5.8	41
71	Optimization of Two-Dimensional Channel Thickness in Nanometer-Thick SnO_2 -Based Top-Gated Thin-Film Transistors Using Electric Field Thermopower Modulation: Implications for Flat-Panel Displays. <i>ACS Applied Nano Materials</i> , 2020, 3, 12427-12432.	2.4	10
72	Phase-Contrast-Based Structure Retrieval Methods in Atomic Resolution Scanning Transmission Electron Microscopy "When They Hold and When They Don't. <i>Microscopy and Microanalysis</i> , 2020, 26, 442-443.	0.2	1

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73	Quantitative electric field mapping of a p-n junction by DPC STEM. Ultramicroscopy, 2020, 216, 113033.	0.8	15
74	Bioinspired selective synthesis of liquid-crystalline nanocomposites: formation of calcium carbonate-based composite nanodisks and nanorods. Nanoscale Advances, 2020, 2, 2326-2332.	2.2	11
75	Magnetic-structure imaging in polycrystalline materials by specimen-tilt series averaged DPC STEM. Microscopy (Oxford, England), 2020, 69, 312-320.	0.7	20
76	Synthesis of Novel Melilite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity. Chemistry of Materials, 2020, 32, 6847-6854.	3.2	5
77	Phase relation between supercooled liquid and amorphous silicon. Applied Physics Letters, 2020, 116, 093705.	1.5	2
78	Three-Dimensional Imaging of a Single Dopant in a Crystal. Physical Review Applied, 2020, 13, .	1.5	27
79	Direct Measurement of Electronic Band Structures at Oxide Grain Boundaries. Nano Letters, 2020, 20, 2530-2536.	4.5	38
80	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19669-19674.	7.2	63
81	Reversible Electrochemical Insertion/Extraction of Magnesium Ion into/from Robust NASICON-Type Crystal Lattice in a Mg(BF ₄) ₂ -Based Electrolyte. ACS Applied Energy Materials, 2020, 3, 6824-6833.	2.5	14
82	High-performance, semiconducting membrane composed of ultrathin, single-crystal organic semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 80-85.	3.3	32
83	One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542.	6.0	238
84	Grain boundary Li-ion conductivity in (Li _{0.33} La _{0.56})TiO ₃ polycrystal. Applied Physics Letters, 2020, 116, .	1.5	24
85	High electrical conducting deep-ultraviolet-transparent oxide semiconductor La-doped SrSnO ₃ exceeding $\sim 43000 \text{ S cm}^{-1}$. Applied Physics Letters, 2020, 116, .	1.5	32
86	Discovery of Ternary Silicon Titanium Nitride with Spinel-Type Structure. Scientific Reports, 2020, 10, 7372.	1.6	8
87	Thickness-dependent frictional behavior of topological insulator Bi ₂ Se ₃ nanoplates. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	2
88	High spatiotemporal-resolution imaging in the scanning transmission electron microscope. Microscopy (Oxford, England), 2020, 69, 240-247.	0.7	27
89	Thickness dependence of transport behaviors in SrRuO_3 thin films. Physical Review Materials, 2020, 4, .	0.9	11
90	First-principles calculations of group IIIA and group IV impurities in SrTiO_3 . Physical Review Materials, 2020, 4, .	0.9	11

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91	In situ STEM Mechanical Experiments at Atomic-Resolution Using a MEMS Device. <i>Microscopy and Microanalysis</i> , 2019, 25, 1884-1885.	0.2	3
92	Iterative Algorithm of Atomic Potential Reconstruction Based on DPC Signal from Thick Specimens. <i>Microscopy and Microanalysis</i> , 2019, 25, 60-61.	0.2	0
93	Strong metal-metal interaction and bonding nature in metal/oxide interfaces with large mismatches. <i>Acta Materialia</i> , 2019, 179, 237-246.	3.8	13
94	Transition-Metal Distribution in Brownmillerite $\text{Ca}_2\text{FeCoO}_5$. <i>Inorganic Chemistry</i> , 2019, 58, 10209-10216.	1.9	3
95	Fast Li-ion conduction at grain boundaries in $(\text{La,Li})\text{NbO}_3$ polycrystals. <i>Journal of Power Sources</i> , 2019, 441, 227187.	4.0	24
96	Advanced Scanning Transmission Electron Microscopy as a Tool for Direct Real-Space Visualization and Artificial Control of Quantum Spin Textures. <i>Microscopy and Microanalysis</i> , 2019, 25, 954-955.	0.2	0
97	Imaging Low Z Materials in Crystalline Environments Via Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1732-1733.	0.2	2
98	Light Element Imaging Technique at Low Dose Condition by Processing Simultaneously Obtained STEM Images Using a Segmented Detector. <i>Microscopy and Microanalysis</i> , 2019, 25, 484-485.	0.2	0
99	Synthesis of Tunable-Aspect-Ratio Calcite Nanoparticles via Mg^{2+} Doping. <i>Crystal Growth and Design</i> , 2019, 19, 6784-6791.	1.4	4
100	Oxygen loss and surface degradation during electrochemical cycling of lithium-ion battery cathode material LiMn_2O_4 . <i>Journal of Materials Chemistry A</i> , 2019, 7, 8845-8854.	5.2	61
101	Atomic-scale structural identification and evolution of Co-W-C ternary SWCNT catalytic nanoparticles: High-resolution STEM imaging on SiO_2 . <i>Science Advances</i> , 2019, 5, eaat9459.	4.7	71
102	Atomic resolution electron microscopy in a magnetic field free environment. <i>Nature Communications</i> , 2019, 10, 2308.	5.8	50
103	Insights into fundamental deformation processes from advanced in situ transmission electron microscopy. <i>MRS Bulletin</i> , 2019, 44, 443-449.	1.7	16
104	Direct observation of atomic-scale fracture path within ceramic grain boundary core. <i>Nature Communications</i> , 2019, 10, 2112.	5.8	30
105	Stabilizing the metastable superhard material wurtzite boron nitride by three-dimensional networks of planar defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11181-11186.	3.3	19
106	Liquid-Crystalline Hydroxyapatite/Polymer Nanorod Hybrids: Potential Bioplatfrom for Photodynamic Therapy and Cellular Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17759-17765.	4.0	34
107	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	4
108	High contrast STEM imaging for light elements by an annular segmented detector. <i>Ultramicroscopy</i> , 2019, 202, 148-155.	0.8	14

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109	Buffer layer-less fabrication of a high-mobility transparent oxide semiconductor, La-doped BaSnO ₃ . Journal of Materials Chemistry C, 2019, 7, 5797-5802.	2.7	19
110	The core structure of 60° mixed basal dislocation in alumina (̂±-Al ₂ O ₃) introduced by in situ TEM nanoindentation. Scripta Materialia, 2019, 163, 157-162.	2.6	12
111	Atomic Scale Origin of Enhanced Ionic Conductivity at Crystal Defects. Nano Letters, 2019, 19, 2162-2168.	4.5	30
112	PM-03 New Magnetic Structure Imaging Techniques in Polycrystalline Materials by DPC STEM. Microscopy (Oxford, England), 2019, 68, i36-i36.	0.7	0
113	Carrier Depletion near the Grain Boundary of a SiC Bicrystal. Scientific Reports, 2019, 9, 18014.	1.6	11
114	Coexistence of two different atomic structures in the ̂±13 pyramidal twin boundary in ̂±-Al ₂ O ₃ . Philosophical Magazine Letters, 2019, 99, 435-443.	0.5	4
115	Large angle illumination enabling accurate structure reconstruction from thick samples in scanning transmission electron microscopy. Ultramicroscopy, 2019, 197, 112-121.	0.8	12
116	Determination of the structure and properties of an edge dislocation in rutile TiO ₂ . Acta Materialia, 2019, 163, 199-207.	3.8	27
117	Ceramic phases with one-dimensional long-range order. Nature Materials, 2019, 18, 19-23.	13.3	18
118	Investigation of electrical and thermal transport property reductions in La-doped BaSnO ₃ films. Physical Review Materials, 2019, 3, .	0.9	14
119	Atomic Scale Observation of Two Kinds of Stable Structures in ̂±-Al ₂ O ₃ ̂±13 Grain Boundary. Materia Japan, 2019, 58, 91-91.	0.1	0
120	Advanced Characterization Nanotechnology Platform, the University of Tokyo. Materia Japan, 2019, 58, 727-732.	0.1	0
121	Direct Electric Field Imaging of Atomistic Graphene Defects. Nihon Kessho Gakkaishi, 2019, 61, 231-236.	0.0	0
122	Direct Determination of Atomic Structure and Magnetic Coupling of Magnetite Twin Boundaries. ACS Nano, 2018, 12, 2662-2668.	7.3	30
123	Dissociation reaction of the 1/3 ̂±101 edge dislocation in ̂±-Al ₂ O ₃ . Journal of Materials Science, 2018, 53, 8049-8058.	1.7	4
124	First-principles study in an intergranular glassy film model of silicon nitride. Journal of the American Ceramic Society, 2018, 101, 2673-2688.	1.9	23
125	Multiphase nanodomains in a strained BaTiO ₃ film on a GdScO ₃ substrate. Journal of Applied Physics, 2018, 123, .	1.1	18
126	Inversion domain network stabilization and spinel phase suppression in ZnO. Journal of the American Ceramic Society, 2018, 101, 2616-2626.	1.9	9

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127	Atomic-Scale Nanostructures by Advanced Electron Microscopy and Informatics. , 2018, , 157-178.		0
128	Stimuli-responsive hydroxyapatite liquid crystal with macroscopically controllable ordering and magneto-optical functions. Nature Communications, 2018, 9, 568.	5.8	74
129	Stable Magnetic Skyrmion States at Room Temperature Confined to Corrals of Artificial Surface Pits Fabricated by a Focused Electron Beam. Nano Letters, 2018, 18, 754-762.	4.5	34
130	Interfacial Atomic Structures of Single-Phase Li_2MnO_3 Thin Film with Superior Initial Charge-Discharge Behavior. Journal of the Electrochemical Society, 2018, 165, A55-A60.	1.3	12
131	Effects of an oxygen potential gradient and water vapor on mass transfer in polycrystalline alumina at high temperatures. Acta Materialia, 2018, 151, 21-30.	3.8	16
132	Atomic-scale structure relaxation, chemistry and charge distribution of dislocation cores in SrTiO_3 . Ultramicroscopy, 2018, 184, 217-224.	0.8	45
133	Picometer-scale atom position analysis in annular bright-field STEM imaging. Ultramicroscopy, 2018, 184, 177-187.	0.8	47
134	$\langle 10\bar{1}0 \rangle$ Dislocation at a $\{2\bar{1}1\}$ low-angle grain boundary in LiNbO_3 . Journal of Materials Science, 2018, 53, 333-344.	1.7	1
135	Review: microstructure-development mechanism during sintering in polycrystalline zirconia. International Materials Reviews, 2018, 63, 375-406.	9.4	48
136	Impact of a surface TiO_2 atomic sheet on the electronic transport properties of $\text{LaAlO}_3/\text{SrTiO}_3$ heterointerfaces. Applied Physics Letters, 2018, 113, 141602.	1.5	3
137	Unique fitting of electrochemical impedance spectra by random walk Metropolis Hastings algorithm. Journal of Power Sources, 2018, 403, 184-191.	4.0	18
138	Direct electric field imaging of graphene defects. Nature Communications, 2018, 9, 3878.	5.8	74
139	Systematic analysis of electron energy-loss near-edge structures in Li-ion battery materials. Physical Chemistry Chemical Physics, 2018, 20, 25052-25061.	1.3	18
140	Resolution Achievement of 40.5 pm in Scanning Transmission Electron Microscopy using 300 kV Microscope with Delta Corrector. Microscopy and Microanalysis, 2018, 24, 120-121.	0.2	6
141	Lattice expansion and local lattice distortion in Nb- and La-doped SrTiO_3 single crystals investigated by x-ray diffraction and first-principles calculations. Physical Review B, 2018, 98, ..	1.1	23
142	Cerium Valence State Distribution: Atomic-Scale Valence State Distribution inside Ultrafine CeO_2 Nanocubes and Its Size Dependence (Small 42/2018). Small, 2018, 14, 1870195.	5.2	0
143	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. Journal of the American Chemical Society, 2018, 140, 15279-15289.	6.6	163
144	Revealing tetragonal-to-monoclinic phase transformation in Y-TZP at an initial stage of low temperature degradation using grazing incident-angle X-ray diffraction measurement. Journal of the Ceramic Society of Japan, 2018, 126, 728-731.	0.5	0

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145	Dislocation Structures in Low-Angle Grain Boundaries of $\hat{\pm}$ -Al ₂ O ₃ . Crystals, 2018, 8, 133.	1.0	23
146	Atomic-scale Valence State Distribution inside Ultrafine CeO ₂ Nanocubes and Its Size Dependence. Small, 2018, 14, e1802915.	5.2	77
147	Overall water splitting by Ta ₃ N ₅ nanorod single crystals grown on the edges of KTaO ₃ particles. Nature Catalysis, 2018, 1, 756-763.	16.1	390
148	Crystallographic orientation–surface energy–wetting property relationships of rare earth oxides. Journal of Materials Chemistry A, 2018, 6, 18384-18388.	5.2	25
149	Hierarchically Structured Thermoelectric Materials in Quaternary System Cu–Zn–Sn–S Featuring a Mosaic-type Nanostructure. ACS Applied Nano Materials, 2018, 1, 2579-2588.	2.4	13
150	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. Physical Review B, 2018, 97, .	1.1	4
151	Direct Imaging for Single Molecular Chain of Surfactant on CeO ₂ Nanocrystals. Small, 2018, 14, e1801093.	5.2	23
152	Theoretical framework of statistical noise in scanning transmission electron microscopy. Ultramicroscopy, 2018, 193, 118-125.	0.8	37
153	Atomic-Scale Measurement of Flexoelectric Polarization at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{SrTiO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle$ Dislocations. Physical Review Letters, 2018, 120, 267601.	2.9	93
154	Probing the Internal Atomic Charge Density Distributions in Real Space. ACS Nano, 2018, 12, 8875-8881.	7.3	43
155	Structure of the Basal Edge Dislocation in ZnO. Crystals, 2018, 8, 127.	1.0	5
156	Influence of Dislocations in Transition Metal Oxides on Selected Physical and Chemical Properties. Crystals, 2018, 8, 241.	1.0	54
157	Microscopic mechanism of biphasic interface relaxation in lithium iron phosphate after delithiation. Nature Communications, 2018, 9, 2863.	5.8	27
158	Surface and Electric Field Imaging by Newly Designed Atomic-Resolution STEM. Microscopy and Microanalysis, 2018, 24, 118-119.	0.2	0
159	Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. Journal of Physical Chemistry C, 2018, 122, 20099-20107.	1.5	7
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