

# Yuichi Ikuhara

## 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.

955  
papers

24,533  
citations

71  
h-index

121  
g-index

987  
ext. papers

27,163  
ext. citations

5.3  
avg, IF

6.97  
L-index

#	Paper	IF	Citations
955	Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal: effect of Y <sub>3+</sub> distribution in grain interiors. <i>Acta Materialia</i> , <b>2022</b> , 117659	8.4	0
954	TEM Characterization of Lattice Defects Associated with Deformation and Fracture in $\alpha$ -Al <sub>2</sub> O <sub>3</sub> <b>2022</b> , 133-156		
953	Real-space visualization of intrinsic magnetic fields of an antiferromagnet.. <i>Nature</i> , <b>2022</b> , 602, 234-239	50.4	5
952	Direct imaging of the disconnection climb mediated point defects absorption by a grain boundary.. <i>Nature Communications</i> , <b>2022</b> , 13, 1455	17.4	0
951	The Observation of Local Electric Fields in GaN/AlGaIn/InGaIn Multi-heterostructures by Differential Phase Contrast STEM. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2022</b> , 142, 367-372	0.1	
950	Atomic and electronic band structures of Y-doped Al <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> grain boundaries. <i>Journal of the Ceramic Society of Japan</i> , <b>2022</b> , 130, 286-289	1	0
949	Quantitative electric field mapping in semiconductor heterostructures via tilt-scan averaged DPC STEM.. <i>Ultramicroscopy</i> , <b>2022</b> , 238, 113538	3.1	1
948	Solid-State Electrochemical Switch of Superconductor-Metal-Insulators. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54204-54209	9.5	2
947	On-Chip Electrochemical Analysis Combined with Liquid-Phase Electron Microscopy of Zinc Deposition/Dissolution. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 112511	3.9	1
946	Factors limiting quantitative phase retrieval in atomic-resolution differential phase contrast scanning transmission electron microscopy using a segmented detector.. <i>Ultramicroscopy</i> , <b>2021</b> , 233, 113457	3.1	0
945	An elastic metal-organic crystal with a densely catenated backbone. <i>Nature</i> , <b>2021</b> , 598, 298-303	50.4	10
944	Breaking of Thermopower-Conductivity Trade-Off in LaTiO Film around Mott Insulator to Metal Transition. <i>Advanced Science</i> , <b>2021</b> , 8, e2102097	13.6	2
943	Oxygen atom ordering on SiO <sub>2</sub> /4H-SiC {0001} polar interfaces formed by wet oxidation. <i>Acta Materialia</i> , <b>2021</b> , 221, 117360	8.4	0
942	Reprint of: Automated geometric aberration correction for large-angle illumination STEM. <i>Ultramicroscopy</i> , <b>2021</b> , 231, 113410	3.1	
941	Unveiling the Electronic Structure of Grain Boundaries in Anatase with Electron Microscopy and First-Principles Modeling. <i>Nano Letters</i> , <b>2021</b> , 21, 9217-9223	11.5	2
940	Improving the depth resolution of STEM-ADF sectioning by 3D deconvolution. <i>Microscopy (Oxford, England)</i> , <b>2021</b> , 70, 241-249	1.3	1
939	Anatase-like Grain Boundary Structure in Rutile Titanium Dioxide. <i>Nano Letters</i> , <b>2021</b> , 21, 2745-2751	11.5	3

938	Automated geometric aberration correction for large-angle illumination STEM. <i>Ultramicroscopy</i> , <b>2021</b> , 222, 113215	3.1	2
937	Direct visualization of anionic electrons in an electride reveals inhomogeneities. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	7
936	Thermal Management Technologies: Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals (Adv. Mater. Interfaces 7/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170039	4.6	
935	Low thermal conductivity of SrTiO <sub>3</sub> LaTiO <sub>3</sub> and SrTiO <sub>3</sub> BrNbO <sub>3</sub> thermoelectric oxide solid solutions. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 4075-4085	3.8	1
934	Atomic-Resolution Topographic Imaging of Crystal Surfaces. <i>ACS Nano</i> , <b>2021</b> , 15, 9186-9193	16.7	1
933	Two-Dimensional Room-Temperature Giant Antiferrodistortive SrTiO <sub>3</sub> at a Grain Boundary. <i>Physical Review Letters</i> , <b>2021</b> , 126, 225702	7.4	2
932	Fabrication of calcite-core/Mg-calcite-shell nanorods for better thermal stability. <i>Advanced Powder Technology</i> , <b>2021</b> , 32, 2577-2577	4.6	1
931	Arrangement of polyhedral units for [0001]-symmetrical tilt grain boundaries in zinc oxide. <i>Acta Materialia</i> , <b>2021</b> , 212, 116864	8.4	2
930	Single-Dislocation Schottky Diodes. <i>Nano Letters</i> , <b>2021</b> , 21, 5586-5592	11.5	1
929	Toward quantitative electromagnetic field imaging by differential-phase-contrast scanning transmission electron microscopy. <i>Microscopy (Oxford, England)</i> , <b>2021</b> , 70, 148-160	1.3	8
928	In situ electron microscopy analysis of electrochemical Zn deposition onto an electrode. <i>Journal of Power Sources</i> , <b>2021</b> , 481, 228831	8.9	13
927	Ultra-high contrast STEM imaging for segmented/pixelated detectors by maximizing the signal-to-noise ratio. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113133	3.1	3
926	Fabrication and characterization of tetragonal yttria-stabilized zirconia single-crystalline thin film. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 1198-1203	3.8	0
925	Layered cobalt oxide epitaxial films exhibiting thermoelectric ZT = 0.11 at room temperature. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 274-280	13	7
924	Atomistic origin of high-concentration Ce <sup>3+</sup> in {100}-faceted Cr-substituted CeO <sub>2</sub> nanocrystals. <i>Acta Materialia</i> , <b>2021</b> , 203, 116473	8.4	5
923	Dislocation-induced large local polarization inhomogeneity of ferroelectric materials. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113624	5.6	2
922	3D arrangement of atomic polyhedra in tilt grain boundaries. <i>Acta Materialia</i> , <b>2021</b> , 202, 266-276	8.4	3
921	Anisotropic Electrical Conductivity of Oxygen-Deficient Tungsten Oxide Films with Epitaxially Stabilized 1D Atomic Defect Tunnels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6864-6869	9.5	2

920	Nanoscale Defluorination Mechanism and Solid Electrolyte Interphase of a MgF <sub>2</sub> Anode in Fluoride-Shuttle Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 996-1003	6.1	1
919	Room temperature fluoride ion conductivity in defective K <sub>2</sub> Sb <sub>1-x</sub> Bi <sub>4-3x</sub> polycrystals. <i>Journal of Power Sources</i> , <b>2021</b> , 483, 229173	8.9	0
918	Direct imaging of atomistic grain boundary migration. <i>Nature Materials</i> , <b>2021</b> , 20, 951-955	27	23
917	Photoindentation: A New Route to Understanding Dislocation Behavior in Light. <i>Nano Letters</i> , <b>2021</b> , 21, 1962-1967	11.5	9
916	Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001932	4.6	3
915	Atomistic Origin of Li-Ion Conductivity Reduction at (LiLa)TiO Grain Boundary. <i>Nano Letters</i> , <b>2021</b> , 21, 6282-6288	11.5	0
914	Development of High-Speed Scan System for Atomic Resolution STEM. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2710-2712	0.5	
913	Direct atomistic defect observations by depth sectioning and dynamic STEM. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2138-2139	0.5	
912	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> , <b>2021</b> , 531, 167976	2.8	0
911	Flexoelectric nanodomains in rare-earth iron garnet thin films under strain gradient. <i>Communications Materials</i> , <b>2021</b> , 2,	6	3
910	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> , <b>2021</b> , 118,	11.5	13
909	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> , <b>2021</b> , 129, 561-565	1	1
908	Atomic-scale mechanism of rhombohedral twinning in sapphire. <i>Acta Materialia</i> , <b>2021</b> , 216, 117137	8.4	1
907	Surfactant-mediated morphology evolution and self-assembly of cerium oxide nanocrystals for catalytic and supercapacitor applications. <i>Nanoscale</i> , <b>2021</b> , 13, 10393-10401	7.7	1
906	Spin Polarization-Assisted Dopant Segregation at a Coherent Phase Boundary. <i>ACS Nano</i> , <b>2021</b> ,	16.7	1
905	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> , <b>2020</b> , 26, 442-443	0.5	0
904	Quantitative electric field mapping of a p-n junction by DPC STEM. <i>Ultramicroscopy</i> , <b>2020</b> , 216, 113033	3.1	8
903	Bioinspired selective synthesis of liquid-crystalline nanocomposites: formation of calcium carbonate-based composite nanodisks and nanorods. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2326-2332	5.1	4

902	Magnetic-structure imaging in polycrystalline materials by specimen-tilt series averaged DPC STEM. <i>Microscopy (Oxford, England)</i> , <b>2020</b> , 69, 312-320	1.3	11
901	Synthesis of Novel Melilite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6847-6854	9.6	2
900	Phase relation between supercooled liquid and amorphous silicon. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 093705	3.4	1
899	Three-Dimensional Imaging of a Single Dopant in a Crystal. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	12
898	Direct Measurement of Electronic Band Structures at Oxide Grain Boundaries. <i>Nano Letters</i> , <b>2020</b> , 20, 2530-2536	11.5	15
897	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19669-19674	16.4	24
896	Reversible Electrochemical Insertion/Extraction of Magnesium Ion into/from Robust NASICON-Type Crystal Lattice in a Mg(BF <sub>4</sub> ) <sub>2</sub> -Based Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6824-6833	6.1	5
895	High-performance, semiconducting membrane composed of ultrathin, single-crystal organic semiconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 80-85	11.5	14
894	One-dimensional van der Waals heterostructures. <i>Science</i> , <b>2020</b> , 367, 537-542	33.3	119
893	Grain boundary Li-ion conductivity in (Li <sub>0.33</sub> La <sub>0.56</sub> )TiO <sub>3</sub> polycrystal. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 043901	3.4	14
892	High electrical conducting deep-ultraviolet-transparent oxide semiconductor La-doped SrSnO <sub>3</sub> exceeding ~3000 S cm <sup>-1</sup> . <i>Applied Physics Letters</i> , <b>2020</b> , 116, 022103	3.4	22
891	Discovery of Ternary Silicon Titanium Nitride with Spinel-Type Structure. <i>Scientific Reports</i> , <b>2020</b> , 10, 7372	4.9	5
890	Thickness-dependent frictional behavior of topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanoplates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	0
889	High spatiotemporal-resolution imaging in the scanning transmission electron microscope. <i>Microscopy (Oxford, England)</i> , <b>2020</b> , 69, 240-247	1.3	13
888	Thickness dependence of transport behaviors in SrRuO <sub>3</sub> /SrTiO <sub>3</sub> superlattices. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	11
887	First-principles calculations of group IIA and group IV impurities in Al <sub>2</sub> O <sub>3</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	3
886	Ferroelectric Oxide Thin Film with an Out-of-Plane Electrical Conductivity. <i>Nano Letters</i> , <b>2020</b> , 20, 1047-1053	10.5	3
885	Single-source-precursor synthesis and high-temperature evolution of novel mesoporous SiVN(O)-based ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 6280-6287	6	5

884	Grain boundary functions as a spin valve. <i>National Science Review</i> , <b>2020</b> , 7, 1148-1149	10.8	3
883	Atomic and electronic band structures of Ti-doped Al <sub>2</sub> O <sub>3</sub> grain boundaries. <i>Acta Materialia</i> , <b>2020</b> , 201, 488-493	8.4	5
882	Unusually Large Thermopower Change from +330 to -185 $\mu$ K of Brownmillerite SrCoO <sub>2.5</sub> . <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2250-2256	4	2
881	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19837-19842	3.6	1
880	Atomic-Scale Analysis of Biphasic Boundaries in the Lithium-Ion Battery Cathode Material LiFePO <sub>4</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8009-8016	6.1	3
879	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> , <b>2020</b> , 2, 2507-2513	4	3
878	Metastable oxysulfide surface formation on LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> 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> , <b>2020</b> , 8, 22302-22314	13	4
877	Atomic structures of Ti-doped Al <sub>2</sub> O <sub>3</sub> grain boundary with a small amount of Si impurity. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 6659-6665	3.8	2
876	Dislocation and oxygen-release driven delithiation in LiMnO. <i>Nature Communications</i> , <b>2020</b> , 11, 4452	17.4	17
875	Optimization of Two-Dimensional Channel Thickness in Nanometer-Thick SnO <sub>2</sub> -Based Top-Gated Thin-Film Transistors Using Electric Field Thermopower Modulation: Implications for Flat-Panel Displays. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 12427-12432	5.6	4
874	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> , <b>2019</b> , 25, 954-955	0.5	
873	Imaging Low Z Materials in Crystalline Environments Via Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1732-1733	0.5	2
872	Light Element Imaging Technique at Low Dose Condition by Processing Simultaneously Obtained STEM Images Using a Segmented Detector. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 484-485	0.5	
871	Synthesis of Tunable-Aspect-Ratio Calcite Nanoparticles via Mg <sup>2+</sup> Doping. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 6784-6791	3.5	3
870	Oxygen loss and surface degradation during electrochemical cycling of lithium-ion battery cathode material LiMn <sub>2</sub> O <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8845-8854	13	33
869	Atomic-scale structural identification and evolution of Co-W-C ternary SWCNT catalytic nanoparticles: High-resolution STEM imaging on SiO. <i>Science Advances</i> , <b>2019</b> , 5, eaat9459	14.3	37
868	Atomic resolution electron microscopy in a magnetic field free environment. <i>Nature Communications</i> , <b>2019</b> , 10, 2308	17.4	28
867	Insights into fundamental deformation processes from advanced in situ transmission electron microscopy. <i>MRS Bulletin</i> , <b>2019</b> , 44, 443-449	3.2	10

866	Direct observation of atomic-scale fracture path within ceramic grain boundary core. <i>Nature Communications</i> , <b>2019</b> , 10, 2112	17.4	18
865	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> , <b>2019</b> , 116, 11181-11186	11.5	8
864	Liquid-Crystalline Hydroxyapatite/Polymer Nanorod Hybrids: Potential Bioplatfrom for Photodynamic Therapy and Cellular Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17759-17765	9.5	18
863	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	4
862	High contrast STEM imaging for light elements by an annular segmented detector. <i>Ultramicroscopy</i> , <b>2019</b> , 202, 148-155	3.1	6
861	Buffer layer-less fabrication of a high-mobility transparent oxide semiconductor, La-doped BaSnO <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5797-5802	7.1	14
860	The core structure of 60° mixed basal dislocation in alumina (Al <sub>2</sub> O <sub>3</sub> ) introduced by in situ TEM nanoindentation. <i>Scripta Materialia</i> , <b>2019</b> , 163, 157-162	5.6	7
859	In situ STEM Mechanical Experiments at Atomic-Resolution Using a MEMS Device. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1884-1885	0.5	2
858	Iterative Algorithm of Atomic Potential Reconstruction Based on DPC Signal from Thick Specimens. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 60-61	0.5	
857	Strong metal-metal interaction and bonding nature in metal/oxide interfaces with large mismatches. <i>Acta Materialia</i> , <b>2019</b> , 179, 237-246	8.4	7
856	Transition-Metal Distribution in Brownmillerite CaFeCoO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 10209-10216	5.1	3
855	Fast Li-ion conduction at grain boundaries in (La,Li)NbO <sub>3</sub> polycrystals. <i>Journal of Power Sources</i> , <b>2019</b> , 441, 227187	8.9	10
854	Investigation of electrical and thermal transport property reductions in La-doped BaSnO <sub>3</sub> films. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	8
853	Atomic Scale Observation of Two Kinds of Stable Structures in Al <sub>2</sub> O <sub>3</sub> Grain Boundary. <i>Materia Japan</i> , <b>2019</b> , 58, 91-91	0.1	
852	Advanced Characterization Nanotechnology Platform, the University of Tokyo. <i>Materia Japan</i> , <b>2019</b> , 58, 727-732	0.1	
851	Direct Electric Field Imaging of Atomistic Graphene Defects. <i>Nihon Kessho Gakkaishi</i> , <b>2019</b> , 61, 231-236	0	
850	Atomic Scale Origin of Enhanced Ionic Conductivity at Crystal Defects. <i>Nano Letters</i> , <b>2019</b> , 19, 2162-2168	11.5	15
849	PM-03 New Magnetic Structure Imaging Techniques in Polycrystalline Materials by DPC STEM. <i>Microscopy (Oxford, England)</i> , <b>2019</b> , 68, i36-i36	1.3	

848	Carrier Depletion near the Grain Boundary of a SiC Bicrystal. <i>Scientific Reports</i> , <b>2019</b> , 9, 18014	4.9	8
847	Coexistence of two different atomic structures in the $\sqrt{3}$ pyramidal twin boundary in $\text{Al}_2\text{O}_3$ . <i>Philosophical Magazine Letters</i> , <b>2019</b> , 99, 435-443	1	1
846	Large angle illumination enabling accurate structure reconstruction from thick samples in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2019</b> , 197, 112-121	3.1	10
845	Determination of the structure and properties of an edge dislocation in rutile $\text{TiO}_2$ . <i>Acta Materialia</i> , <b>2019</b> , 163, 199-207	8.4	17
844	Ceramic phases with one-dimensional long-range order. <i>Nature Materials</i> , <b>2019</b> , 18, 19-23	27	12
843	Direct Determination of Atomic Structure and Magnetic Coupling of Magnetite Twin Boundaries. <i>ACS Nano</i> , <b>2018</b> , 12, 2662-2668	16.7	24
842	Dissociation reaction of the $1/3\langle \bar{1}10 \rangle$ edge dislocation in $\text{Al}_2\text{O}_3$ . <i>Journal of Materials Science</i> , <b>2018</b> , 53, 8049-8058	4.3	4
841	First-principles study in an inter-granular glassy film model of silicon nitride. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2673-2688	3.8	11
840	Multiphase nanodomains in a strained $\text{BaTiO}_3$ film on a $\text{GdScO}_3$ substrate. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 064102	2.5	14
839	Inversion domain network stabilization and spinel phase suppression in $\text{ZnO}$ . <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2616-2626	3.8	7
838	Atomic-Scale Nanostructures by Advanced Electron Microscopy and Informatics <b>2018</b> , 157-178		
837	Stimuli-responsive hydroxyapatite liquid crystal with macroscopically controllable ordering and magneto-optical functions. <i>Nature Communications</i> , <b>2018</b> , 9, 568	17.4	53
836	Grain Boundary Engineering of Alumina Ceramics <b>2018</b> , 237-257		
835	Stable Magnetic Skyrmion States at Room Temperature Confined to Corrals of Artificial Surface Pits Fabricated by a Focused Electron Beam. <i>Nano Letters</i> , <b>2018</b> , 18, 754-762	11.5	22
834	Interfacial Atomic Structures of Single-Phase $\text{Li}_2\text{MnO}_3$ Thin Film with Superior Initial Charge-Discharge Behavior. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A55-A60	3.9	9
833	Effects of an oxygen potential gradient and water vapor on mass transfer in polycrystalline alumina at high temperatures. <i>Acta Materialia</i> , <b>2018</b> , 151, 21-30	8.4	7
832	Atomic-scale structure relaxation, chemistry and charge distribution of dislocation cores in $\text{SrTiO}_3$ . <i>Ultramicroscopy</i> , <b>2018</b> , 184, 217-224	3.1	33
831	Picometer-scale atom position analysis in annular bright-field STEM imaging. <i>Ultramicroscopy</i> , <b>2018</b> , 184, 177-187	3.1	37



830	Dislocation at a $\{2(\bar{1}) (\bar{1})0\}$ low-angle grain boundary in LiNbO <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2018</b> , 53, 333-344	4.3	1
829	Atomic-Scale Measurement of Flexoelectric Polarization at SrTiO <sub>3</sub> Dislocations. <i>Physical Review Letters</i> , <b>2018</b> , 120, 267601	7.4	55
828	Probing the Internal Atomic Charge Density Distributions in Real Space. <i>ACS Nano</i> , <b>2018</b> , 12, 8875-8881	16.7	24
827	Structure of the Basal Edge Dislocation in ZnO. <i>Crystals</i> , <b>2018</b> , 8, 127	2.3	3
826	Influence of Dislocations in Transition Metal Oxides on Selected Physical and Chemical Properties. <i>Crystals</i> , <b>2018</b> , 8, 241	2.3	31
825	Microscopic mechanism of biphasic interface relaxation in lithium iron phosphate after delithiation. <i>Nature Communications</i> , <b>2018</b> , 9, 2863	17.4	20
824	Surface and Electric Field Imaging by Newly Designed Atomic-Resolution STEM. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 118-119	0.5	
823	Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20099-20107	3.8	6
822	Large thickness dependence of the carrier mobility in a transparent oxide semiconductor, La-doped BaSnO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 232102	3.4	25
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820	On the quantitiveness of grain boundary chemistry using STEM EDS: A ZrO <sub>2</sub> model grain boundary case study. <i>Ultramicroscopy</i> , <b>2018</b> , 193, 33-38	3.1	6
819	Double thermoelectric power factor of a 2D electron system. <i>Nature Communications</i> , <b>2018</b> , 9, 2224	17.4	35
818	Electron microscope control and image analysis by DigitalMicrograph. <i>Materia Japan</i> , <b>2018</b> , 57, 584-588	0.1	
817	Attainment of 40.5 pm spatial resolution using 300 kV scanning transmission electron microscope equipped with fifth-order aberration corrector. <i>Microscopy (Oxford, England)</i> , <b>2018</b> , 67, 46-50	1.3	33
816	Review: microstructure-development mechanism during sintering in polycrystalline zirconia. <i>International Materials Reviews</i> , <b>2018</b> , 63, 375-406	16.1	29
815	Impact of a surface TiO <sub>2</sub> atomic sheet on the electronic transport properties of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterointerfaces. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 141602	3.4	3
814	Unique fitting of electrochemical impedance spectra by random walk Metropolis Hastings algorithm. <i>Journal of Power Sources</i> , <b>2018</b> , 403, 184-191	8.9	10
813	Direct electric field imaging of graphene defects. <i>Nature Communications</i> , <b>2018</b> , 9, 3878	17.4	46

812	Systematic analysis of electron energy-loss near-edge structures in Li-ion battery materials. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 25052-25061	3.6	7
811	Resolution Achievement of 40.5 pm in Scanning Transmission Electron Microscopy using 300 kV Microscope with Delta Corrector. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 120-121	0.5	6
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809	Cerium Valence State Distribution: Atomic-Scale Valence State Distribution inside Ultrafine CeO <sub>2</sub> Nanocubes and Its Size Dependence (Small 42/2018). <i>Small</i> , <b>2018</b> , 14, 1870195	11	
808	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15279-15289	16.4	108
807	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. <i>Journal of the Ceramic Society of Japan</i> , <b>2018</b> , 126, 728-731	1	
806	Dislocation Structures in Low-Angle Grain Boundaries of $\alpha$ -Al <sub>2</sub> O <sub>3</sub> . <i>Crystals</i> , <b>2018</b> , 8, 133	2.3	9
805	Atomic-Scale Valence State Distribution inside Ultrafine CeO Nanocubes and Its Size Dependence. <i>Small</i> , <b>2018</b> , 14, e1802915	11	48
804	Overall water splitting by Ta <sub>3</sub> N <sub>5</sub> nanorod single crystals grown on the edges of KTaO <sub>3</sub> particles. <i>Nature Catalysis</i> , <b>2018</b> , 1, 756-763	36.5	259
803	Crystallographic orientation-surface energy-wetting property relationships of rare earth oxides. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18384-18388	13	15
802	Hierarchically Structured Thermoelectric Materials in Quaternary System Cu <sub>2</sub> Nb <sub>2</sub> S <sub>6</sub> Featuring a Mosaic-type Nanostructure. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2579-2588	5.6	10
801	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	3
800	Direct Imaging for Single Molecular Chain of Surfactant on CeO Nanocrystals. <i>Small</i> , <b>2018</b> , 14, e1801093	11	13
799	Theoretical framework of statistical noise in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2018</b> , 193, 118-125	3.1	24
798	Atomic-Scale Tracking of a Phase Transition from Spinel to Rocksalt in Lithium Manganese Oxide. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1006-1013	9.6	19
797	Atomic scale imaging of structural changes in solid electrolyte lanthanum lithium niobate upon annealing. <i>Acta Materialia</i> , <b>2017</b> , 127, 211-219	8.4	5
796	Reactive Solid-Phase Epitaxy and Electrical Conductivity of Layered Sodium Manganese Oxide Films. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 1849-1853	3.5	3
795	Study on the deterioration mechanism of layered rock-salt electrodes using epitaxial thin films $\square$ Li(Ni, Co, Mn)O <sub>2</sub> and their Zr-O surface modified electrodes. <i>Journal of Power Sources</i> , <b>2017</b> , 345, 108-119	8.9	9

794	Atomic structure and electronic properties of MgO grain boundaries in tunnelling magnetoresistive devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 45594	4.9	26
793	Atomic level changes during capacity fade in highly oriented thin films of cathode material LiCoPO <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9329-9338	13	20
792	Inversion domain boundaries in Mn and Al dual-doped ZnO: Atomic structure and electronic properties. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4252-4262	3.8	14
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790	Direct Observation of Impurity Segregation at Dislocation Cores in an Ionic Crystal. <i>Nano Letters</i> , <b>2017</b> , 17, 2908-2912	11.5	16
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785	Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. <i>Nature Communications</i> , <b>2017</b> , 8, 15549	17.4	74
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781	A Novel Class of Multiferroic Material, Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /h-BiFeO <sub>3</sub> with Localized Magnetic Ordering Evaluated from Their Single Crystals. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600254	6.4	22
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779	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in BiMn Cr O. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703435	24	32
778	Direct Observation of Oxygen Vacancy Distribution across Yttria-Stabilized Zirconia Grain Boundaries. <i>ACS Nano</i> , <b>2017</b> , 11, 11376-11382	16.7	37
777	Atomic-Scale Structural Analysis of Metal/Nitride Interfaces Using Advanced Atomic-Resolution Analytical Electron Microscopy. <i>Nihon Kessho Gakkaishi</i> , <b>2017</b> , 59, 246-251	0	

776	Analysis of Periodic Atomic Structures in Grain Boundaries by Number Theory. <i>Materia Japan</i> , <b>2017</b> , 56, 589-596	0.1	1
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772	Better Contrast for Imaging Defects by ABF. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 480-481	0.5	
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767	Single-source-precursor synthesis and electromagnetic properties of novel RGO/BiCN ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7950-7960	7.1	35
766	Direct Visualization of Local Electromagnetic Field Structures by Scanning Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1502-1512	24.3	49
765	Another origin of yield drop behavior in sapphire deformed via basal slip: Recombination of climb-dissociated partial dislocations. <i>Scripta Materialia</i> , <b>2017</b> , 138, 109-113	5.6	3
764	Atomic scale imaging of structural variations in La(1-)/3Li NbO <sub>3</sub> (O <sub>2</sub> KKO.13) solid electrolytes. <i>Acta Materialia</i> , <b>2017</b> , 123, 167-176	8.4	14
763	A new method to detect and correct sample tilt in scanning transmission electron microscopy bright-field imaging. <i>Ultramicroscopy</i> , <b>2017</b> , 173, 76-83	3.1	21
762	Quantitative analysis of Li distributions in battery material Li <sub>1-x</sub> FePO <sub>4</sub> using Fe M <sub>2,3</sub> -edge and valence electron energy loss spectra. <i>Journal of Electron Microscopy</i> , <b>2017</b> , 66, 254-260		4
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760	Quantitative Relation Between Differential Phase Contrast Images Obtained by Segmented and Pixelated Detectors. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 440-441	0.5	
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684	Simple and engineered process yielding carbon nanotube arrays with 1.2 × 10 <sup>13</sup> cm <sup>-2</sup> wall density on conductive underlayer at 400 °C. <i>Carbon</i> , <b>2015</b> , 81, 773-781	10.4	24
683	Possible ferroelectricity in perovskite oxynitride SrTaO <sub>2</sub> N epitaxial thin films. <i>Scientific Reports</i> , <b>2015</b> , 4,	4.9	86
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680	Atomic-resolution STEM-EDS mapping of grain boundary solute segregation in yttria-stabilized zirconia. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 2283-2284	0.5	
679	Imaging of built-in electric field at a p-n junction by scanning transmission electron microscopy. <i>Scientific Reports</i> , <b>2015</b> , 5, 10040	4.9	89
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674	Control of normally on/off characteristics in hydrogenated diamond metal-insulator-semiconductor field-effect transistors. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 115704	2.5	31
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664	Misfit accommodation mechanism at the heterointerface between diamond and cubic boron nitride. <i>Nature Communications</i> , <b>2015</b> , 6, 6327	17.4	54
663	B11-O-11 Atomic-scale Tracking Cation Diffusion in Lithium Manganese Oxide. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i15.2-i15	1.3	
662	B21-O-12 Structure unit behavior in Pr-doped ZnO [0001] symmetric tilt grain boundaries. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i45.1-i45	1.3	
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556	Direct observation of cationic ordering in double perovskite Sr <sub>2</sub> FeReO <sub>6</sub> crystals. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19 Suppl 5, 25-8	0.5	4
555	Real-Space Imaging of Light Elements by Annular Bright-Field Scanning Transmission Electron Microscopy. <i>Nihon Kessho Gakkaishi</i> , <b>2013</b> , 55, 362-368	0	
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419	Wear Resistance of SiO <sub>2</sub> -Doped Y-TZP Grinding Media During Wet Milling. <i>International Journal of Applied Ceramic Technology</i> , <b>2009</b> , 7, 502	2	1
418	Atomic structure of threading dislocations in AlN thin films. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 4886-4888	2.4	5
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399	Structure and Configuration of Boundary Dislocations on Low Angle Tilt Grain Boundaries in Alumina. <i>Materials Transactions</i> , <b>2009</b> , 50, 1008-1014	1.3	13



398	Transmission Electron Microscopy Study of Sn-Doped Sintered Indium Oxide. <i>Materials Transactions</i> , <b>2009</b> , 50, 959-963	1.3	5
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355	Atomic-Scale Processes of Grain-Boundary Faceting in a Zirconia Bicrystal. <i>Materials Science Forum</i> , <b>2007</b> , 558-559, 955-958	0.4	
354	Dislocation Structure Analysis of Low Angle Tilt Grain Boundaries in Alumina by Elastic Theory. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 2465-2468	0.4	
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172	Local Bonding States of Titanium and Germanium-doped Tetragonal Zirconia Polycrystal and Their Correlation to High Temperature Ductility. <i>Materials Transactions</i> , <b>2002</b> , 43, 2468-2472	1.3	10
171	Internal Friction Analysis of CaO-Doped Silicon Carbides. <i>Materials Transactions</i> , <b>2002</b> , 43, 1552-1556	1.3	1
170	Transmission Electron Microscopic Studies of LiNb <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>3</sub> Films Deposited on Sapphire Substrates by Thermal Plasma Spray CVD (Microstructure of LiNb <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>3</sub> Films Deposited by Thermal Plasma Spray CVD). <i>Materials Transactions</i> , <b>2002</b> , 43, 1517-1524	1.3	3
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168	Reactive Solid-Phase Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 747, 1		
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165	Microstructure of diamond-like carbon films prepared by cathodic arc deposition. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1436-1440	3.5	5

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163	Grain Boundary and Interface Structures in Ceramics.. <i>Journal of the Ceramic Society of Japan</i> , <b>2001</b> , 109, S110-S120		31
162	Phase separation of Nd <sub>1+x</sub> Ba <sub>2-x</sub> Cu <sub>3</sub> O <sub>6+δ</sub> during annealing processing. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 357-360, 354-358	1.3	16
161	The instability and resulting phase transition of cubic zirconia. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 312, 90-98	5.3	29
160	Impurity effects on grain boundary strength in structural ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 319-321, 24-30	5.3	32
159	Vacancy effect of dopant cation on the high-temperature creep resistance in polycrystalline Al <sub>2</sub> O <sub>3</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 319-321, 843-848	5.3	6
158	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> and YbBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> superconducting films prepared by chemical solution deposition on SrTiO <sub>3</sub> (001) substrate. <i>Chemical Physics Letters</i> , <b>2001</b> , 347, 285-290	2.5	4
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156	Current-voltage characteristics across 45° symmetric tilt boundary in highly donor-doped SrTiO <sub>3</sub> bicrystal. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 1827-1829		6
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154	Superplastic Flow Stress in Cation-Doped YSZ. <i>Materials Science Forum</i> , <b>2001</b> , 357-359, 141-146	0.4	1
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151	Effect of Chemical Bonding States on the Tensile Ductility in Glass-Doped TZP. <i>Materials Science Forum</i> , <b>2001</b> , 357-359, 399-404	0.4	14
150	Superplastic Characteristics in Germania Based Codoped Y-TZP. <i>Materials Science Forum</i> , <b>2001</b> , 357-359, 129-134	0.4	5
149	Influence of antiphase boundaries on critical current densities in Yba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> single crystals. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 1935-1941	2.5	4
148	A New Type of Stacking Fault in βSiC. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 505-508	1.4	6
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145	Structure and chemistry of grain boundaries in SiO <sub>2</sub> -doped TZP. <i>Science and Technology of Advanced Materials</i> , <b>2001</b> , 2, 411-424	7.1	20
144	Structure of [110] tilt grain boundaries in zirconia bicrystals. <i>Journal of Electron Microscopy</i> , <b>2001</b> , 50, 429-33		26
143	Electron transport behaviour in Nb-doped SrTiO <sub>3</sub> bicrystals. <i>Journal of Electron Microscopy</i> , <b>2001</b> , 50, 485-8		13
142	Grain Boundary Analysis of Lu-doped Al <sub>2</sub> O <sub>3</sub> by EDS and EELS. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2001</b> , 65, 356-360	0.4	
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140	Solid State Phase Transformation of Nd <sub>1+x</sub> Ba <sub>2-x</sub> Cu <sub>3</sub> O <sub>6+δ</sub> During Annealing Processing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2001</b> , 65, 139-142	0.4	
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125	High resolution transmission electron microscopy study in VC-doped WC <sub>0</sub> compound. <i>Science and Technology of Advanced Materials</i> , <b>2000</b> , 1, 97-104	7.1	81
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115	Nanoprobe analysis of core-shell structure of carbides in TiC <sub>0</sub> wt% Mo <sub>2</sub> C <sub>0</sub> wt% Ni cermet. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 4129-4131	2.5	10
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109	Grain Boundary Analysis and Superplastic Characteristics in GeO <sub>2</sub> -Doped TZP. <i>Key Engineering Materials</i> , <b>1999</b> , 171-174, 383-388	0.4	1
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43	High resolution electron microscopy observation of TiC coated cemented carbide. <i>Surface and Coatings Technology</i> , <b>1996</b> , 79, 268-275	4.4	1
42	Field-induced pinning centers of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> superconducting thick film prepared by liquid phase epitaxy. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 256, 64-72	1.3	19
41	Formation mechanism of grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> superconducting thick film by liquid phase epitaxy. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 262, 120-126	1.3	4
40	Growth mechanism of thick c-axis oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films prepared by liquid phase epitaxy. <i>Journal of Crystal Growth</i> , <b>1996</b> , 158, 61-67	1.6	16
39	Growth mechanism and crystalline orientation of liquid-phase epitaxially grown YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films. <i>Journal of Crystal Growth</i> , <b>1996</b> , 166, 854-858	1.6	10

38	Orientation Relationship in Large Mismatched Bicrystals and Coincidence of Reciprocal Lattice Points (CRLP). <i>Materials Science Forum</i> , <b>1996</b> , 207-209, 121-124	0.4	54
37	Grain Boundary Analysis in Superplastic SiO <sub>2</sub> - Doped TZP. <i>Materials Science Forum</i> , <b>1996</b> , 233-234, 367-374	0.4	3
36	TEM Characterization of Grain Boundaries in Superplastic Al <sub>2</sub> O <sub>3</sub> -base Ceramics. <i>Materials Science Forum</i> , <b>1996</b> , 243-245, 425-430	0.4	6
35	Amorphization of graphite induced by mechanical milling and subsequent crystallization of the amorphous carbon upon heat treating. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 733-738	2.5	44
34	Grain Boundary Characterization of Superplastic Ceramics by HREM and AEM. <i>Materials Science Forum</i> , <b>1996</b> , 243-245, 345-350	0.4	5
33	Initial growth mechanism of a/b-axis oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> film prepared by liquid phase epitaxy. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2002-2004	3.4	19
32	Film/Substrate Orientation Relationship in the AlN/6H-SiC Epitaxial System. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1797-1800	7.4	63
31	Preparation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> thick film on YSZ substrate by Liquid Phase Epitaxy <b>1996</b> , 771-774		
30	Qualitative Determination of Relationship Between Flux Pinning Effect and Irradiation Defects in Bi-2212 Single Crystal <b>1996</b> , 517-520		
29	Direct Observation of Channel Structures in Zeolite Y and A with a Slow-Scan, Charge-Coupled-Device Camera. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1411-1413	3.8	10
28	Transmission electron microscopic study of c -BN films deposited on a Si substrate. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 1478-1480	3.4	31
27	Grain boundary in cemented carbide. <i>Philosophical Magazine Letters</i> , <b>1995</b> , 71, 289-292	1	12
26	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 2015-2018	1.8	4
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24	Structure of V <sub>2</sub> O <sub>5</sub> /MgO and MgO/V <sub>2</sub> O <sub>5</sub> interfaces. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1995</b> , 72, 179-198		18
23	Surface Defects and Local Strain in Polished Silicon by Transmission Electron Microscopy. <i>Japanese Journal of Applied Physics</i> , <b>1995</b> , 34, 3198-3203	1.4	5
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21	Direct observation of hexagonal boron nitride at the grain boundary of cubic boron nitride by high resolution electron microscopy. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 2490-2492	3.4	33

20	Effects of 18MeV Fe <sup>8+</sup> Ion Irradiation on Superconductivity and Microstructure of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> Superconductor. <i>Journal of the Ceramic Society of Japan</i> , <b>1995</b> , 103, 195-198		2
19	A transmission electron microscopy study of amorphization of graphite by mechanical milling. <i>Carbon</i> , <b>1995</b> , 33, 1177-1180	10.4	25
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