Yuichi Ikuhara

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#	Paper	IF	Citations
955	Giant thermoelectric Seebeck coefficient of a two-dimensional electron gas in SrTiO3. <i>Nature Materials</i> , 2007 , 6, 129-34	27	794
954	Multifunctional Alloys Obtained via a Dislocation-Free Plastic Deformation Mechanism. <i>Science</i> , 2003 , 300, 464-7	33.3	690
953	Direct atomic-scale confirmation of three-phase storage mechanism in LilliD anodes for room-temperature sodium-ion batteries. <i>Nature Communications</i> , 2013 , 4, 1870	17.4	577
952	Rutile-TiO2 nanocoating for a high-rate Li4Ti5O12 anode of a lithium-ion battery. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7874-9	16.4	551
951	Electrically induced ferromagnetism at room temperature in cobalt-doped titanium dioxide. <i>Science</i> , 2011 , 332, 1065-7	33.3	388
950	Dynamics of annular bright field imaging in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2010 , 110, 903-23	3.1	331
949	Grain boundary strengthening in alumina by rare earth impurities. <i>Science</i> , 2006 , 311, 212-5	33.3	327
948	A complex perovskite-type oxynitride: the first photocatalyst for water splitting operable at up to 600 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2955-9	16.4	311
947	Robust atomic resolution imaging of light elements using scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2009 , 95, 191913	3.4	304
946	Variation of long-period stacking order structures in rapidly solidified Mg97Zn1Y2 alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 393, 269-274	5.3	273
945	Overall water splitting by Ta3N5 nanorod single crystals grown on the edges of KTaO3 particles. <i>Nature Catalysis</i> , 2018 , 1, 756-763	36.5	259
944	Lithium storage in Li4Ti5O12 spinel: the full static picture from electron microscopy. <i>Advanced Materials</i> , 2012 , 24, 3233-8	24	255
943	Differential phase-contrast microscopy at atomic resolution. <i>Nature Physics</i> , 2012 , 8, 611-615	16.2	247
942	Atomic Structure and Kinetics of NASICON NaxV2(PO4)3 Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 4265-4272	15.6	245
941	First-principles calculations of intrinsic defects in Al2O3. <i>Physical Review B</i> , 2003 , 68,	3.3	244
940	Direct observation of lithium staging in partially delithiated LiFePO4 at atomic resolution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4661-3	16.4	200
939	Direct atomic-resolution observation of two phases in the Li(1.2)Mn(0.567)Ni(0.166)Co(0.067)O2 cathode material for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5969-73	16.4	196

(2002-2011)

Atom-resolved imaging of ordered defect superstructures at individual grain boundaries. <i>Nature</i> , 2011 , 479, 380-3	50.4	194
First-principles study on structures and energetics of intrinsic vacancies in SrTiO3. <i>Physical Review B</i> , 2003 , 68,	3.3	178
Single-Crystalline Films of the Homologous Series InGaO3(ZnO)m Grown by Reactive Solid-Phase Epitaxy. <i>Advanced Functional Materials</i> , 2003 , 13, 139-144	15.6	171
Atomic-scale visualization of antisite defects in LiFePO4. <i>Physical Review Letters</i> , 2008 , 100, 125502	7.4	157
Atomic structure of a CeO2 grain boundary: the role of oxygen vacancies. <i>Nano Letters</i> , 2010 , 10, 4668-	7 2 1.5	143
Characterization of Co-Doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2975-2981	3.8	143
Solute segregation at grain boundaries in superplastic SiO2-doped TZP. Acta Materialia, 1997, 45, 5275-	· 552.8 4	138
Microstructural Changes in LiNi0.8Co0.15Al0.05O2 Positive Electrode Material during the First Cycle. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A357	3.9	127
Cubic-Formation and Grain-Growth Mechanisms in Tetragonal Zirconia Polycrystal. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1401-1408	3.8	125
Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO(2)-SnO(2) Sensor. <i>Sensors</i> , 2009 , 9, 902	9 ₅ 388	121
Large magnetoelectric coupling in magnetically short-range ordered BillilleOllilm. <i>Scientific Reports</i> , 2014 , 4, 5255	4.9	120
One-dimensional van der Waals heterostructures. <i>Science</i> , 2020 , 367, 537-542	33.3	119
First-principles calculations of lithium-ion migration at a coherent grain boundary in a cathode material, LiCoO(2). <i>Advanced Materials</i> , 2013 , 25, 618-22	24	118
Oxygen-vacancy ordering at surfaces of lithium manganese(III,IV) oxide spinel nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3053-7	16.4	111
Conducting nanowires in insulating ceramics. <i>Nature Materials</i> , 2003 , 2, 453-6	27	110
High-temperature Creep Resistance in Rare-earth-doped, Fine-grained Al2O3. <i>Journal of Materials Research</i> , 1998 , 13, 2597-2601	2.5	110
Enhancing photocatalytic activity of LaTiO2N by removal of surface reconstruction layer. <i>Nano Letters</i> , 2014 , 14, 1038-41	11.5	109
Grain boundary electronic structure related to the high-temperature creep resistance in polycrystalline Al2O3. <i>Acta Materialia</i> , 2002 , 50, 2955-2966	8.4	109
	First-principles study on structures and energetics of intrinsic vacancies in SrTiO3. Physical Review B, 2003, 68. Single-Crystalline Films of the Homologous Series InGaO3(ZnO)m Grown by Reactive Solid-Phase Epitaxy. Advanced Functional Materials, 2003, 13, 139-144 Atomic-scale visualization of antisite defects in LiFePO4. Physical Review Letters, 2008, 100, 125502 Atomic structure of a CeO2 grain boundary: the role of oxygen vacancies. Nano Letters, 2010, 10, 4668-Characterization of Co-Doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. Journal of the American Ceramic Society, 2008, 91, 2975-2981 Solute segregation at grain boundaries in superplastic SiO2-doped TZP. Acta Materialia, 1997, 45, 5275-Microstructural Changes in LiNiO.8Co0.15Al0.0SO2 Positive Electrode Material during the First Cycle. Journal of the Electrochemical Society, 2011, 158, A357 Cubic-Formation and Grain-Growth Mechanisms in Tetragonal Zirconia Polycrystal. Journal of the American Ceramic Society, 2003, 86, 1401-1408 Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO(2)-SnO(2) Sensor. Sensors, 2009, 9, 902 Large magnetoelectric coupling in magnetically short-range ordered BilliBeOffilm. Scientific Reports, 2014, 4, 5255 One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542 First-principles calculations of lithium-ion migration at a coherent grain boundary in a cathode material, LiCoO(2). Advanced Materials, 2013, 25, 618-22 Oxygen-vacancy ordering at surfaces of lithium manganese(III,IV) oxide spinel nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3053-7 Conducting nanowires in insulating ceramics. Nature Materials, 2003, 2, 453-6 High-temperature Creep Resistance in Rare-earth-doped, Fine-grained Al2O3. Journal of Materials Research, 1998, 13, 2597-2601 Enhancing photocatalytic activity of LaTiO2N by removal of surface reconstruction layer. Nano Letters, 2014, 14, 1038-41	First-principles study on structures and energetics of intrinsic vacancies in SrTiO3. Physical Review B , 2003, 68. Single-Crystalline Films of the Homologous Series InGaO3(ZnO)m Grown by Reactive Solid-Phase Epitaxy. Advanced Functional Materials, 2003, 13, 139-144 Atomic-scale visualization of antisite defects in LiFePO4. Physical Review Letters, 2008, 100, 125502 74. Atomic structure of a CeO2 grain boundary: the role of oxygen vacancies. Nano Letters, 2010, 10, 4668-721.5 Characterization of Co-Doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. Journal of the American Ceramic Society, 2008, 91, 2975-2981 Solute segregation at grain boundaries in superplastic SiO2-doped TZP. Acta Materialia, 1997, 45, 5275-3284 Microstructural Changes in LiNiO.8Co0.15Al0.0502 Positive Electrode Material during the First Cycle. Journal of the Electrochemical Society, 2011, 158, A357 49. Cubic-Formation and Grain-Growth Mechanisms in Tetragonal Zirconia Polycrystal. Journal of the American Ceramic Society, 2003, 86, 1401-1408 Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO(2)-SnO(2) Sensor. Sensors, 2009, 9, 9029;388 Large magnetoelectric coupling in magnetically short-range ordered BitTiBeOIfilm. Scientific Reports, 2014, 4, 5255 One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542 33-3 First-principles calculations of lithium-ion migration at a coherent grain boundary in a cathode material, LiCoO(2). Advanced Materials, 2013, 25, 618-22 Oxygen-vacancy ordering at surfaces of lithium manganese(III,IV) oxide spinel nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3053-7 Conducting nanowires in insulating ceramics. Nature Materials, 2003, 2, 453-6 27 High-temperature Creep Resistance in Rare-earth-doped, Fine-grained Al2O3. Journal of Materials Research, 1998, 13, 2597-2601 Enhancing photocatalytic activity of LaTiO2N by removal of surface reconstruction layer. Nano Letters, 2014, 14, 103

92 0	New insight into the atomic structure of electrochemically delithiated O3-Li(脉)CoO[[0 於 // 0.5) nanoparticles. <i>Nano Letters</i> , 2012 , 12, 6192-7	11.5	108
919	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15279-15289	16.4	108
918	Electric field imaging of single atoms. <i>Nature Communications</i> , 2017 , 8, 15631	17.4	107
917	Direct imaging of reconstructed atoms on TiO2 (110) surfaces. <i>Science</i> , 2008 , 322, 570-3	33.3	105
916	Ferromagnetic dislocations in antiferromagnetic NiO. Nature Nanotechnology, 2013, 8, 266-70	28.7	104
915	Direct Imaging of Hydrogen within a Crystalline Environment. <i>Applied Physics Express</i> , 2010 , 3, 116603	2.4	103
914	Nonstoichiometric dislocation cores in alpha-alumina. <i>Science</i> , 2007 , 316, 82-5	33.3	101
913	Grain-boundary structure and microstructure development mechanism in 28mol% yttria-stabilized zirconia polycrystals. <i>Acta Materialia</i> , 2008 , 56, 1315-1325	8.4	100
912	Atomic-scale imaging of individual dopant atoms in a buried interface. <i>Nature Materials</i> , 2009 , 8, 654-8	27	96
911	High-temperature grain boundary sliding behavior and grain boundary energy in cubic zirconia bicrystals. <i>Acta Materialia</i> , 2004 , 52, 2349-2357	8.4	96
910	A new layered iron arsenide superconductor: (Ca,Pr)FeAs2. <i>Journal of the American Chemical Society</i> , 2014 , 136, 846-9	16.4	92
909	New area detector for atomic-resolution scanning transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2010 , 59, 473-9		92
908	Role of Pr segregation in acceptor-state formation at ZnO grain boundaries. <i>Physical Review Letters</i> , 2006 , 97, 106802	7.4	92
907	Direct imaging of Pt single atoms adsorbed on TiO2 (110) surfaces. <i>Nano Letters</i> , 2014 , 14, 134-8	11.5	91
906	Atomic structure, electronic structure, and defect energetics in [001](310) grain boundaries of SrTiO3 and BaTiO3. <i>Physical Review B</i> , 2008 , 78,	3.3	90
905	Imaging of built-in electric field at a p-n junction by scanning transmission electron microscopy. <i>Scientific Reports</i> , 2015 , 5, 10040	4.9	89
904	Regulating infrared photoresponses in reduced graphene oxide phototransistors by defect and atomic structure control. <i>ACS Nano</i> , 2013 , 7, 6310-20	16.7	89
903	Possible ferroelectricity in perovskite oxynitride SrTaO2N epitaxial thin films. <i>Scientific Reports</i> , 2015 , 4,	4.9	86

(2001-2014)

902	Atomic-scale structure and properties of highly stable antiphase boundary defects in FeO. <i>Nature Communications</i> , 2014 , 5, 5740	17.4	86
901	Structure, energy and solute segregation behaviour of [110] symmetric tilt grain boundaries in yttria-stabilized cubic zirconia. <i>Philosophical Magazine</i> , 2004 , 84, 2381-2415	1.6	86
900	Direct observation of individual dislocation interaction processes with grain boundaries. <i>Science Advances</i> , 2016 , 2, e1501926	14.3	85
899	Gigantic Electrostrain in Duplex Structured Alkaline Niobates. <i>Chemistry of Materials</i> , 2012 , 24, 3363-336	69 .6	83
898	Microstructural Observation of LiNi0.8Co0.15Al0.05O2after Charge and Discharge by Scanning Transmission Electron Microscopy. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1070-A1073	3.9	83
897	Yttrium doping effect on oxygen grain boundary diffusion in ⊞Al2O3. <i>Acta Materialia</i> , 2007 , 55, 6627-663	38.4	83
896	Crystalline Grain Interior Configuration Affects Lithium Migration Kinetics in Li-Rich Layered Oxide. <i>Nano Letters</i> , 2016 , 16, 2907-15	11.5	83
895	Atomic Structures and Electrical Properties of ZnO Grain Boundaries. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 337-357	3.8	82
894	Heat treatment and anomalous peak effect in Jc-H curve at 77 K for NdBa2Cu3O7Bingle-crystal superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 259, 295-303	1.3	82
893	High resolution transmission electron microscopy study in VC-doped WCILo compound. <i>Science and Technology of Advanced Materials</i> , 2000 , 1, 97-104	7.1	81
892	Direct observation of II domain boundary core structure in magnetic skyrmion lattice. <i>Science Advances</i> , 2016 , 2, e1501280	14.3	80
891	Self-Limiting Chemical Vapor Deposition Growth of Monolayer Graphene from Ethanol. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10755-10763	3.8	79
890	Polymorphism of dislocation core structures at the atomic scale. <i>Nature Communications</i> , 2014 , 5, 3239	17.4	78
889	Atomistic mechanisms of nonstoichiometry-induced twin boundary structural transformation in titanium dioxide. <i>Nature Communications</i> , 2015 , 6, 7120	17.4	77
888	Lithium Atom and A-Site Vacancy Distributions in Lanthanum Lithium Titanate. <i>Chemistry of Materials</i> , 2013 , 25, 1607-1614	9.6	77
887	Enhanced Seebeck coefficient of quantum-confined electrons in SrTiO3BrTi0.8Nb0.2O3 superlattices. <i>Applied Physics Letters</i> , 2007 , 91, 192105	3.4	75
886	Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. <i>Nature Communications</i> , 2017 , 8, 15549	17.4	74
885	High resolution microscopy study in Cr3C2-doped WC-Co. <i>Journal of Materials Science</i> , 2001 , 36, 3885-38	B .p .03	73

884	Unusually large enhancement of thermopower in an electric field induced two-dimensional electron gas. <i>Advanced Materials</i> , 2012 , 24, 740-4	24	71
883	STEM characterization for lithium-ion battery cathode materials. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 31-38	12	71
882	Homologous series of iron pnictide oxide superconductors (Fe2As2)[Can+1(Sc,Ti)nOy] (n=3,4,5) with extremely thick blocking layers. <i>Applied Physics Letters</i> , 2010 , 97, 072506	3.4	71
881	Atomically ordered solute segregation behaviour in an oxide grain boundary. <i>Nature Communications</i> , 2016 , 7, 11079	17.4	70
880	Orientation-dependent arrangement of antisite defects in lithium iron(II) phosphate crystals. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 543-6	16.4	70
879	Oxygen Adsorption on Anatase TiO2 (101) and (001) Surfaces from First Principles. <i>Materials Transactions</i> , 2010 , 51, 171-175	1.3	70
878	Atomic-Scale Structure and Local Chemistry of CoFeB-MgO Magnetic Tunnel Junctions. <i>Nano Letters</i> , 2016 , 16, 1530-6	11.5	69
877	Interface structures of gold nanoparticles on TiO2 (110). <i>Physical Review Letters</i> , 2009 , 102, 136105	7.4	68
876	Field-induced water electrolysis switches an oxide semiconductor from an insulator to a metal. <i>Nature Communications</i> , 2010 , 1, 118	17.4	65
875	The influence of trace impurities on the mechanical characteristics of a superplastic 2mol% yttria stabilized zirconia. <i>Acta Materialia</i> , 1998 , 46, 5557-5568	8.4	65
874	High resolution transmission electron microscopy studies of metal/ceramics interfaces. <i>Microscopy Research and Technique</i> , 1998 , 40, 206-41	2.8	64
873	Dimensionality-driven insulator-metal transition in A-site excess non-stoichiometric perovskites. <i>Nature Communications</i> , 2010 , 1, 106	17.4	63
872	Real-time direct observations of polarization reversal in a piezoelectric crystal: Pb(Mg1/3Nb2/3)O3-PbTiO3 studied via in situ electrical biasing transmission electron microscopy. <i>Physical Review Letters</i> , 2011 , 107, 187601	7.4	63
871	Dislocation-enhanced ionic conductivity of yttria-stabilized zirconia. <i>Applied Physics Letters</i> , 2003 , 82, 877-879	3.4	63
870	Film/Substrate Orientation Relationship in the AlN/6H-SiC Epitaxial System. <i>Physical Review Letters</i> , 1996 , 77, 1797-1800	7.4	63
869	A new sealed lithium-peroxide battery with a co-doped Li2O cathode in a superconcentrated lithium bis(fluorosulfonyl)amide electrolyte. <i>Scientific Reports</i> , 2014 , 4, 5684	4.9	61
868	Atomic Structures and Energies of I Symmetrical Tilt Grain Boundaries in Alumina Bicrystals. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 574-80	3.8	58
867	Real-time direct observation of Li in LiCoO2 cathode material. <i>Applied Physics Letters</i> , 2011 , 98, 051913	3.4	57

(2014-2006)

866	Effect of alumina-doping on grain boundary segregation-induced phase transformation in yttria-stabilized tetragonal zirconia polycrystal. <i>Journal of Materials Research</i> , 2006 , 21, 2278-2289	2.5	57	
865	Atomic-scale structure evolution in a quasi-equilibrated electrochemical process of electrode materials for rechargeable batteries. <i>Advanced Materials</i> , 2015 , 27, 2134-49	24	56	
864	A Complex Perovskite-Type Oxynitride: The First Photocatalyst for Water Splitting Operable at up to 600 nm. <i>Angewandte Chemie</i> , 2015 , 127, 2998-3002	3.6	56	
863	Distinct configurations of antisite defects in ordered metal phosphates: comparison between LiMnPO4 and LiFePO4. <i>Physical Review Letters</i> , 2012 , 108, 195501	7.4	56	
862	A new homologous series of iron pnictide oxide superconductors (Fe2As2)(Can+ 2(Al, Ti)nOy) (n= 2, 3, 4). Superconductor Science and Technology, 2010 , 23, 115005	3.1	56	
861	Microstructures and grain boundaries of (Ti,Al)N films. Surface and Coatings Technology, 1998, 107, 41-4	474.4	56	
860	Atomic structure of [0001]-tilt grain boundaries in ZnO: A high-resolution TEM study of fiber-textured thin films. <i>Physical Review B</i> , 2004 , 70,	3.3	56	
859	The effect of additives on sintering behavior and strength retention in silicon nitride with RE-disilicate. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 527-534	6	56	
858	Atomic-Scale Measurement of Flexoelectric Polarization at SrTiO_{3} Dislocations. <i>Physical Review Letters</i> , 2018 , 120, 267601	7.4	55	
857	Defect energetics in SrTiO3 symmetric tilt grain boundaries. <i>Physical Review B</i> , 2011 , 83,	3.3	55	
856	First-principles calculation of defect energetics in cubic-BaTiO3 and a comparison with SrTiO3. <i>Acta Materialia</i> , 2007 , 55, 6535-6540	8.4	55	
855	Misfit accommodation mechanism at the heterointerface between diamond and cubic boron nitride. <i>Nature Communications</i> , 2015 , 6, 6327	17.4	54	
854	Ohmic contacts on silicon carbide: The first monolayer and its electronic effect. <i>Physical Review B</i> , 2009 , 80,	3.3	54	
853	Improvement of high-temperature creep resistance in fine-grained Al2O3 by Zr4+ segregation in grain boundaries. <i>Philosophical Magazine Letters</i> , 1997 , 76, 9-14	1	54	
852	Growth mechanism for single-crystalline thin film of InGaO3(ZnO)5 by reactive solid-phase epitaxy. <i>Journal of Applied Physics</i> , 2004 , 95, 5532-5539	2.5	54	
851	Orientation Relationship in Large Mismatched Bicrystals and Coincidence of Reciprocal Lattice Points (CRLP). <i>Materials Science Forum</i> , 1996 , 207-209, 121-124	0.4	54	
850	Stimuli-responsive hydroxyapatite liquid crystal with macroscopically controllable ordering and magneto-optical functions. <i>Nature Communications</i> , 2018 , 9, 568	17.4	53	
849	Fabrication of all-solid-state battery using epitaxial LiCoO2 thin films. <i>Journal of Power Sources</i> , 2014 , 267, 881-887	8.9	53	

848	Domain boundaries and their influence on Li migration in solid-state electrolyte (La,Li)TiO3. <i>Journal of Power Sources</i> , 2015 , 276, 203-207	8.9	53
847	Band engineering of perovskite-type transition metal oxynitrides for photocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4544-4552	13	52
846	Highly ordered staging structural interface between LiFePO4 and FePO4. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5363-7	3.6	52
845	High-Temperature Hydrogen Adsorption Properties of Precursor-Derived Nickel Nanoparticle-Dispersed Amorphous Silica. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 546-552	3.8	52
844	On the quantitativeness of EDS STEM. <i>Ultramicroscopy</i> , 2015 , 151, 150-159	3.1	51
843	Structure of VAl2,O3 interfaces grown by molecular beam epitaxy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 70, 75-97		51
842	Assessment of Strain-Generated Oxygen Vacancies Using SrTiOlBicrystals. <i>Nano Letters</i> , 2015 , 15, 4129	-34 .5	50
841	Enhanced Piezoelectric Response due to Polarization Rotation in Cobalt-Substituted BiFeO Epitaxial Thin Films. <i>Advanced Materials</i> , 2016 , 28, 8639-8644	24	50
840	Mechanism for Heteroepitaxial Growth of Transparent P-Type Semiconductor: LaCuOS by Reactive Solid-Phase Epitaxy. <i>Crystal Growth and Design</i> , 2004 , 4, 301-307	3.5	50
839	Direct observation of basal dislocation in sapphire by HRTEM. <i>Acta Materialia</i> , 2002 , 50, 101-108	8.4	50
838	Grain Growth of Silica-Added Zirconia Annealed in the Cubic/Tetragonal Two-Phase Region. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2087-2092	3.8	50
837	Synthesis of subnanometer-diameter vertically aligned single-walled carbon nanotubes with copper-anchored cobalt catalysts. <i>Nanoscale</i> , 2016 , 8, 1608-17	7.7	49
836	Direct Visualization of Local Electromagnetic Field Structures by Scanning Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , 2017 , 50, 1502-1512	24.3	49
835	SiC/Ti3SiC2 interface: Atomic structure, energetics, and bonding. <i>Physical Review B</i> , 2009 , 79,	3.3	49
834	First-principles study of defect energetics in titanium-doped alumina. <i>Physical Review B</i> , 2003 , 68,	3.3	49
833	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. <i>Nature Communications</i> , 2016 , 7, 11318	17.4	48
832	Field-modulated thermopower in SrTiO3-based field-effect transistors with amorphous 12CaO?7Al2O3 glass gate insulator. <i>Applied Physics Letters</i> , 2009 , 95, 113505	3.4	48
831	Atomic-Scale Valence State Distribution inside Ultrafine CeO Nanocubes and Its Size Dependence. <i>Small</i> , 2018 , 14, e1802915	11	48

(1997-2003)

830	Atomic and electronic structures of Cu/a-Al2O3 interfaces prepared by pulsed-laser deposition. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 575-584	7.1	47	
829	Characterization of nanostructured multiphase TiAlBN thin films with extremely small grain size. Surface and Coatings Technology, 2001, 148, 206-215	4.4	47	
828	Segregation of Vanadium at the WC/Co Interface in VC-doped WC-Co. <i>Journal of Materials Research</i> , 1998 , 13, 2450-2452	2.5	47	
827	Domain boundary structures in lanthanum lithium titanates. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 843-852	13	46	
826	Periodic fluctuation of Ba/Nd ratio in single crystals of high-Jc NdBa2Cu3O7Buperconductor. Journal of Materials Research, 1997 , 12, 293-295	2.5	46	
825	Dislocation Structures of Low-Angle and Near-B Grain Boundaries in Alumina Bicrystals. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 595-602	3.8	46	
824	Multi Functional Titanium Alloy IIGUM METALII. Materials Science Forum, 2003, 426-432, 681-688	0.4	46	
823	Chirality specific and spatially uniform synthesis of single-walled carbon nanotubes from a sputtered Co-W bimetallic catalyst. <i>Nanoscale</i> , 2016 , 8, 14523-9	7.7	46	
822	Atomic structures and oxygen dynamics of CeO2 grain boundaries. Scientific Reports, 2016, 6, 20288	4.9	46	
821	Direct electric field imaging of graphene defects. <i>Nature Communications</i> , 2018 , 9, 3878	17.4	46	
820	Size-Dependent Staging and Phase Transition in LiFePO4/FePO4. <i>Advanced Functional Materials</i> , 2014 , 24, 312-318	15.6	45	
819	Atomic-scale structure and electronic property of the LaAlO3/TiO2 interface. <i>Journal of Applied Physics</i> , 2010 , 108, 113701	2.5	45	
818	Bonding nature of metal/oxide incoherent interfaces by first-principles calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	45	
817	Direct measurements of grain boundary sliding in yttrium-doped alumina bicrystals. <i>Applied Physics Letters</i> , 2003 , 82, 1179-1181	3.4	45	
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	111	Better Contrast for Imaging Defects by ABF. <i>Microscopy and Microanalysis</i> , 2017 , 23, 480-481	0.5	

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