Teruyasu Mizoguchi

List of Publications by Year
in descending order

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215	6,801	81434	90395
papers	citations	41 h-index	73 g-index

226	226	226	8667
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automatic determination of the spectrumâ€“structure relationship by tree structure-based unsupervised and supervised learning. Ultramicroscopy, 2022, 233, 113438.	0.8	1
2	A brute-force code searching for cell of non-identical displacement for CSL grain boundaries and interfaces. Computer Physics Communications, 2022, 273, 108260.	3.0	5
3	Quantification of the Properties of Organic Molecules Using Coreâ€Loss Spectra as Neural Network Descriptors. Advanced Intelligent Systems, 2022, 4, 2270004.	3.3	0
4	Quantum oscillations from Fermi arc surface states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cd</mml:mi><mml:mn>3</mml:mn></mml: submicron wires. Physical Review Research, 2022, 4, .	1.3	2
5	Simulated carbon K edge spectral database of organic molecules. Scientific Data, 2022, 9, 214.	2.4	6
6	Ceramic science of crystal defect cores. Journal of the Ceramic Society of Japan, 2022, 130, 648-667.	0.5	34
7	Dataset on structure and physical properties of stable diatomic systems based on van der Waals density functional method. Data in Brief, 2021, 36, 106968.	0.5	2
8	Accurate prediction of bonding properties by a machine learningâ€“based model using isolated states before bonding. Applied Physics Express, 2021, 14, 085503.	1.1	3
9	First principles study on formation and migration energies of sodium and lithium in graphite. Physical Review Materials, 2021, 5, .	0.9	2
10	Robotic fabrication of high-quality lamellae for aberration-corrected transmission electron microscopy. Scientific Reports, 2021, 11, 21599.	1.6	5
11	Quantum Deep Descriptor: Physically Informed Transfer Learning from Small Molecules to Polymers. Journal of Chemical Theory and Computation, 2021, 17, 7814-7821.	2.3	10
12	Nanoscale Investigation of Local Thermal Expansion at SrTiO₃ Grain Boundaries by Electron Energy Loss Spectroscopy. Nano Letters, 2021, 21, 10416-10422.	4.5	2
13	Quantum Deep Field: Data-Driven Wave Function, Electron Density Generation, and Atomization Energy Prediction and Extrapolation with Machine Learning. Physical Review Letters, 2020, 125, 206401.	2.9	41
14	Radial Distribution Function from X-ray Absorption near Edge Structure with an Artificial Neural Network. Journal of the Physical Society of Japan, 2020, 89, 103001.	0.7	11
15	Local thickness and composition measurements from scanning convergent-beam electron diffraction of a binary non-crystalline material obtained by a pixelated detector. Ultramicroscopy, 2020, 217, 113077.	0.8	3
16	EQCM analysis of intercalation species into graphite positive electrodes for Al batteries. Journal of Alloys and Compounds, 2020, 846, 156469.	2.8	13
17	Revealing Spatial Distribution of Al-Coordinated Species in a Phase-Separated Aluminosilicate Glass by STEM-EELS. Journal of Physical Chemistry Letters, 2020, 11, 9637-9642.	2.1	9
18	Prediction of ELNES and Quantification of Structural Properties Using Artificial Neural Network. Microscopy and Microanalysis, 2020, 26, 2100-2101.	0.2	1

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19	Real-Space Mapping of Oxygen Coordination in Phase-Separated Aluminosilicate Glass: Implication for Glass Stability. ACS Applied Nano Materials, 2020, 3, 5053-5060.	2.4	14
20	Learning excited states from ground states by using an artificial neural network. Npj Computational Materials, 2020, 6, .	3.5	15
21	Machine learning approaches for ELNES/XANES. Microscopy (Oxford, England), 2020, 69, 92-109.	0.7	22
22	Prediction of interface and vacancy segregation energies at silver interfaces without determining interface structures. Applied Physics Express, 2020, 13, 065504.	1.1	3
23	Interface Informatics: Structure Determination and Structure-property Relationship. Materia Japan, 2020, 59, 134-138.	0.1	0
24	Quantitative Prediction of Properties of Organic Molecules from ELNES via Artificial Neural Network. Microscopy and Microanalysis, 2020, 26, 706-708.	0.2	0
25	Machine learning for structure determination and investigating the structure-property relationships of interfaces. JPhys Materials, 2019, 2, 034005.	1.8	17
26	Atomic-scale investigation of the heterogeneous structure and ionic distribution in an ionic liquid using scanning transmission electron microscopy. RSC Advances, 2019, 9, 10520-10527.	1.7	6
27	Quantitative estimation of properties from core-loss spectrum via neural network. JPhys Materials, 2019, 2, 024003.	1.8	21
28	Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. Journal of Physical Chemistry C, 2019, 123, 9688-9692.	1.5	14
29	Dissociation reaction of the 1/3$$ leftlangle {ar{1}101} ightangle $$ edge dislocation in Î±-Al2O3. Journal of Materials Science, 2018, 53, 8049-8058.	1.7	4
30	Atomic-Scale Nanostructures by Advanced Electron Microscopy and Informatics. , 2018, , 157-178.		0
31	Bayesian optimization for efficient determination of metal oxide grain boundary structures. Physica B: Condensed Matter, 2018, 532, 24-28.	1.3	38
32	Effective search for stable segregation configurations at grain boundaries with data-mining techniques. Physica B: Condensed Matter, 2018, 532, 9-14.	1.3	14
33	Identifying lithium K edge anisotropy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LiCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .	1.1	9
34	Lattice expansion and local lattice distortion in Nb- and La-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> single crystals investigated by x-ray diffraction and first-principles calculations. Physical Review B, 2018, 98, .	1.1	23
35	Data-driven approach for the prediction and interpretation of core-electron loss spectroscopy. Scientific Reports, 2018, 8, 13548.	1.6	42
36	Progress in nanoinformatics and informational materials science. MRS Bulletin, 2018, 43, 690-695.	1.7	9

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37	High-resolution mapping of molecules in an ionic liquid via scanning transmission electron microscopy. Microscopy (Oxford, England), 2018, 67, i162-i167.	0.7	5
38	Searching the stable segregation configuration at the grain boundary by a Monte Carlo tree search. Journal of Chemical Physics, 2018, 148, 241741.	1.2	13
39	Fast and Accurate Molecular Property Prediction: Learning Atomic Interactions and Potentials with Neural Networks. Journal of Physical Chemistry Letters, 2018, 9, 5733-5741.	2.1	20
40	Identification of nanometer-scale compositional fluctuations in silicate glass using electron microscopy and spectroscopy. Scripta Materialia, 2018, 154, 197-201.	2.6	10
41	Strong excitonic interactions in the oxygen K-edge of perovskite oxides. Ultramicroscopy, 2017, 178, 105-111.	0.8	20
42	Excitonic, vibrational, and van der Waals interactions in electron energy loss spectroscopy. Ultramicroscopy, 2017, 180, 93-103.	0.8	8
43	Estimation of the molecular vibration of gases using electron microscopy. Scientific Reports, 2017, 7, 16434.	1.6	9
44	Real-space analysis of diffusion behavior and activation energy of individual monatomic ions in a liquid. Science Advances, 2017, 3, e1701546.	4.7	14
45	Effect of the van der Waals interaction on the electron energy-loss near edge structure theoretical calculation. Ultramicroscopy, 2017, 178, 88-95.	0.8	5
46	Fabrication of thin TEM sample of ionic liquid for high-resolution ELNES measurements. Ultramicroscopy, 2017, 178, 81-87.	0.8	19
47	Transfer Learning to Accelerate Interface Structure Searches. Journal of the Physical Society of Japan, 2017, 86, 123601.	0.7	25
48	Basics and applications of ELNES calculations. Journal of Electron Microscopy, 2017, 66, 305-327.	0.9	25
49	ABF-STEM Characterization of the {1100} Stacking Fault in Alumina. Materia Japan, 2016, 55, 610-610.	0.1	0
50	Observation of Single Atoms in Liquid and Liquid Inhomogeneous Structures. Microscopy and Microanalysis, 2016, 22, 852-853.	0.2	2
51	Prediction of interface structures and energies via virtual screening. Science Advances, 2016, 2, e1600746.	4.7	73
52	Investigation of segregation of silver at copper grain boundaries by first principles and empirical potential calculations. AIP Conference Proceedings, 2016, , .	0.3	5
53	A valence state evaluation of a positive electrode material in an Li-ion battery with first-principles K- and L-edge XANES spectral simulations and resonance photoelectron spectroscopy. Journal of Applied Physics, 2016, 120, .	1.1	21
54	Acceleration of stable interface structure searching using a kriging approach. Japanese Journal of Applied Physics, 2016, 55, 045502.	0.8	65

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55	Effect of van der Waals interactions on the stability of SiC polytypes. Journal of Applied Physics, 2016, 119, .	1.1	14
56	First principles calculation of oxygen K edge absorption spectrum of acetic acid: Relationship between the spectrum and molecular dynamics. Chemical Physics Letters, 2016, 649, 92-96.	1.2	10
57	Coreâ€“Exciton Interaction in Sodium L_{2,3} edge Structure Investigated Using the Betheâ€“Salpeter Equation. Journal of Physical Chemistry C, 2016, 120, 9036-9042.	1.5	12
58	PM-03High resolution analysis of ionic liquid. Microscopy (Oxford, England), 2016, 65, i33.1-i33.	0.7	1
59	Atomic structure characterization of stacking faults on the {11Â¯00} plane in Î±-alumina by scanning transmission electron microscopy. AIP Conference Proceedings, 2016, , .	0.3	4
60	An experimental system combined with a micromachine and double-tilt TEM holder. Microelectronic Engineering, 2016, 164, 43-47.	1.1	16
61	COMBO: An efficient Bayesian optimization library for materials science. Materials Discovery, 2016, 4, 18-21.	3.3	217
62	Characterization of vanadium in oil sands fluid petroleum coke using electron microscopy. Fuel, 2016, 178, 124-128.	3.4	23
63	Copper accumulation in the sequestrum of medication-related osteonecrosis of the jaw. Bone Reports, 2015, 3, 40-47.	0.2	6
64	High Elastic Moduli of a 54Al2O3-46Ta2O5 Glass Fabricated via Containerless Processing. Scientific Reports, 2015, 5, 15233.	1.6	66
65	A new LiNbO3-type polar oxide with closed-shell cations: ZnPbO3. Journal of Applied Physics, 2015, 118, .	1.1	17
66	Local coordination state of rare earth in eutectic scintillators for neutron detector applications. Scientific Reports, 2015, 5, 13332.	1.6	17
67	Assessment of Strain-Generated Oxygen Vacancies Using SrTiO₃ Bicrystals. Nano Letters, 2015, 15, 4129-4134.	4.5	69
68	Dissociation of the 1/3ã€ˆ<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mo>Â¯</mml:mo></mml:mrow></mml:mover><m width="0.12em" /><mml:mn>1</mml:mn><mml:mspace width="0.12em" /><mml:mn>0</mml:mn><mml:mspace width="0.12em" /><mml:mn>1</mml:mn></mml:mrow></mml:math>ã€‰ dislocation and formation of the anion stacking fault on the basal plane in Î±-Al2O3. Acta Materialia, 201	3.8	5
69	Importance of Fermi energy for understanding the intermixing behavior at the LaAlO3/SrTiO3 heterointerface. Applied Physics Letters, 2014, 105, .	1.5	2
70	Mn L2,3-edge X-ray absorption spectroscopic studies on charge-discharge mechanism of Li2MnO3. Applied Physics Letters, 2014, 104, .	1.5	42
71	Magnetic structures of FeTiO3-Fe2O3 solid solution thin films studied by soft X-ray magnetic circular dichroism and ab initio multiplet calculations. Applied Physics Letters, 2014, 104, .	1.5	11
72	The atomic structure, band gap, and electrostatic potential at the (112)[11Â¯] twin grain boundary of CuInSe2. Applied Physics Letters, 2014, 104, .	1.5	15

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73	Impact of local strain on Ti-L_{2,3}electron energy-loss near-edge structures of BaTiO₃: a first-principles multiplet study. Microscopy (Oxford, England), 2014, 63, 249-254.	0.7	10
74	Measurement of vibrational spectrum of liquid using monochromated scanning transmission electron microscopyâ€“electron energy loss spectroscopy. Microscopy (Oxford, England), 2014, 63, 377-382.	0.7	66
75	First Principles Calculation of ELNES/XANES for Materials Science. Materia Japan, 2014, 53, 414-418.	0.1	3
76	Defect formation energetics at the grain boundary in CuInSe₂ using first-principles calculations. Journal of the Ceramic Society of Japan, 2014, 122, 469-472.	0.5	7
77	Effect of local coordination of Mn on Mn-L2,3 edge electron energy loss spectrum. Journal of Applied Physics, 2013, 114, .	1.1	21
78	Stabilization of metastable ferroelectric Ba1â^'xCaxTi2O5 by breaking Ca-site selectivity via crystallization from glass. Scientific Reports, 2013, 3, 3010.	1.6	7
79	First principles study on oxygen vacancy formation in rock salt-type oxides MO (M: Mg, Ca, Sr and Ba). Ceramics International, 2013, 39, S287-S292.	2.3	13
80	High pressure infrared and Xâ€ray Raman studies of aluminum nitride. Physica Status Solidi (B): Basic Research, 2013, 250, 726-731.	0.7	6
81	Atomic resolution chemical bond analysis of oxygen in La2CuO4. Journal of Applied Physics, 2013, 114, .	1.1	14
82	Atomic-Scale Identification of Individual Lanthanide Dopants in Optical Glass Fiber. ACS Nano, 2013, 7, 5058-5063.	7.3	27
83	Periodic Nanowire Array at the Crystal Interface. ACS Nano, 2013, 7, 6297-6302.	7.3	17
84	Atomic structure of titania nanosheet with vacancies. Scientific Reports, 2013, 3, 2801.	1.6	53
85	Atomic structure, energetics, and chemical bonding of Y doped Î£13 grain boundaries in Î±-Al₂O₃. Philosophical Magazine, 2013, 93, 1158-1171.	0.7	10
86	The influence of neighboring vacancies and their charge state on the atomic migration of LaAlO3. Applied Physics Letters, 2013, 102, 211910.	1.5	6
87	An estimation of molecular dynamic behaviour in a liquid using core-loss spectroscopy. Scientific Reports, 2013, 3, 3503.	1.6	19
88	Role of Dislocation Movement in the Electrical Conductance of Nanocontacts. Scientific Reports, 2012, 2, 623.	1.6	18
89	Removing the effects of elastic and thermal scattering from electron energy-loss spectroscopic data. Applied Physics Letters, 2012, 101, .	1.5	21
90	Defect energetics in LaAlO3polymorphs: A first-principles study. Physical Review B, 2012, 86, .	1.1	17

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91	Atomic structure of a Î£3 [110]/(111) grain boundary in CeO2. Applied Physics Letters, 2012, 100, .	1.5	22
92	First principles calculation of dopant solution energy in HfO2 polymorphs. Journal of Applied Physics, 2012, 112, .	1.1	8
93	Simultaneous visualization of oxygen vacancies and the accompanying cation shifts in a perovskite oxide by combining annular imaging techniques. Applied Physics Letters, 2012, 100, .	1.5	18
94	Lithium-ion conducting La2/3â^'xLi3xTiO3 solid electrolyte thin films with stepped and terraced surfaces. Applied Physics Letters, 2012, 100, .	1.5	18
95	First principles pseudopotential calculation of electron energy loss near edge structures of lattice imperfections. Micron, 2012, 43, 37-42.	1.1	14
96	Nanowire of hexagonal gallium oxynitride: Direct observation of its stacking disorder and its long nanowire growth. Journal of the European Ceramic Society, 2012, 32, 1989-1993.	2.8	10
97	Theoretical Fingerprints of Transition Metal L_{2,3} XANES and ELNES for Lithium Transition Metal Oxides by ab Initio Multiplet Calculations. Journal of Physical Chemistry C, 2011, 115, 11871-11879.	1.5	34
98	Atomic structure and strain field of threading dislocations in CeO2 thin films on yttria-stabilized ZrO2. Applied Physics Letters, 2011, 98, 153104.	1.5	32
99	Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>L</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>,</mml:mo><mml:m x-ray absorption spectra in III-V semiconductors: Many-body perturbation theory in comparison with experiment. Physical Review B, 2011, 83, .	1.1	24
100	Atomic and electronic structures of the SrVO3-LaAlO3 interface. Journal of Applied Physics, 2011, 110, 046104.	1.1	15
101	Zr segregation and associated Al vacancies in alumina grain boundaries. Journal of the Ceramic Society of Japan, 2011, 119, 840-844.	0.5	14
102	Study on atomic and electronic structures of ceramic materials using spectroscopy, microscopy, and first principles calculation. Journal of the Ceramic Society of Japan, 2011, 119, 325-333.	0.5	7
103	Scanning transmission electron microscopy imaging dynamics at low accelerating voltages. Ultramicroscopy, 2011, 111, 999-1013.	0.8	6
104	The effect of vacancies on the annular dark field image contrast of grain boundaries: A SrTiO3 case study. Ultramicroscopy, 2011, 111, 1531-1539.	0.8	9
105	Characterization and atomic modeling of an asymmetric grain boundary. Physical Review B, 2011, 84, .	1.1	14
106	Cation off-stoichiometric SrMnO3â^'Î´ thin film grown by pulsed laser deposition. Journal of Materials Science, 2011, 46, 4354-4360.	1.7	21
107	Structures of a Î£Â=Â9, [110]/{221} symmetrical tilt grain boundary in SrTiO3. Journal of Materials Science, 2011, 46, 4162-4168.	1.7	8
108	Controlling Interface Intermixing and Properties of SrTiO₃â€Based Superlattices. Advanced Functional Materials, 2011, 21, 2258-2263.	7.8	24

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109	Oxygenâ€Vacancy Ordering at Surfaces of Lithium Manganese(III,IV) Oxide Spinel Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3053-3057.	7.2	127
110	Cation diffusion along basal dislocations in sapphire. Acta Materialia, 2011, 59, 1105-1111.	3.8	6
111	Ab-initio multiplet calculation of oxygen vacancy effect on Ti-L2,3 electron energy loss near edge structures of BaTiO3. Applied Physics Letters, 2011, 99, 233109.	1.5	10
112	Growth of Ruddlesden-Popper type faults in Sr-excess SrTiO3 homoepitaxial thin films by pulsed laser deposition. Applied Physics Letters, 2011, 99, .	1.5	35
113	First-principles study on migration mechanism in SrTiO3. Applied Physics Letters, 2011, 98, .	1.5	30
114	Ab initiocharge transfer multiplet calculations on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>L</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>,</mml:mo><mml:mn> and ELNES of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>transition metal oxides. Physical Review B, 2011, 83, .	1.1	94
115	Strontium vacancy clustering in Ti-excess SrTiO3 thin film. Applied Physics Letters, 2011, 99, .	1.5	35
116	Defect energetics in SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>symmetric tilt grain boundaries. Physical Review B, 2011, 83, .	1.1	58
117	First-principles sliding simulation of Al-terminated Î£13 pyramidal twin grain boundary in Î±-Al₂O_{3â€ƒ}[Philosophical Magazine Letters, Volume 90, Issue 3, pp. 159â€“172 (2010)]. Philosophical Magazine Letters, 2011, 91, 561-562.	0.5	2
118	Theoretical ELNES using one-particle and multi-particle calculations. Micron, 2010, 41, 695-709.	1.1	79
119	Interface atomic structure of LaCuOSe:Mg epitaxial thin film and MgO substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 229-233.	1.7	3
120	Structures of dissociated âŒ©11Â¯00âŒªª dislocations and {11Â¯00} stacking faults of alumina (Î±-Al2O3). Acta Materialia, 2010, 58, 208-215.	3.8	27
121	Mechanism of incorporation of zinc into hydroxyapatite. Acta Biomaterialia, 2010, 6, 2289-2293.	4.1	122
122	Cr diffusion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:msub><mml:mrow><mml:mtext>-Al</mml:mtext></mml:mrow><mml:mn>2 Secondary ion mass spectroscopy and first-principles study. Physical Review B, 2010, 82, .	1.1	10
123	Electrical current flow at conductive nanowires formed in GaN thin films by a dislocation template technique. Applied Physics Letters, 2010, 96, .	1.5	9
124	HAADF-STEM observations of aÎ£13 grain boundary in Î±-Al₂O₃from two orthogonal directions. Philosophical Magazine Letters, 2010, 90, 539-546.	0.5	13
125	First-principles sliding simulation of Al-terminated Î£13 pyramidal twin grain boundary inÎ±-Al₂O₃. Philosophical Magazine Letters, 2010, 90, 159-172.	0.5	6
126	Origins of Hole Doping and Relevant Optoelectronic Properties of Wide Gap p-Type Semiconductor, LaCuOSe. Journal of the American Chemical Society, 2010, 132, 15060-15067.	6.6	43

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127	First-principles calculations of Znâ€“K XANES in Ca-deficient hydroxyapatite. Journal of Physics Condensed Matter, 2010, 22, 384213.	0.7	11
128	Atomic Structure of a CeO₂ Grain Boundary: The Role of Oxygen Vacancies. Nano Letters, 2010, 10, 4668-4672.	4.5	173
129	Quantitative analyses of oxidation states for cubic SrMnO3 and orthorhombic SrMnO2.5 with electron energy loss spectroscopy. Journal of Applied Physics, 2010, 108, 124903.	1.1	32
130	Magnetic properties of ilmenite-hematite solid-solution thin films: Direct observation of antiphase boundaries and their correlation with magnetism. Physical Review B, 2009, 80, .	1.1	10
131	Atomic-scale segregation behavior of Pr at a ZnO [0001]<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î£</mml:mi><mml:mn>49</mml:mn></mml:mrow></mml:math>tilt grain boundary. Physical Review B, 2009, 80, .	1.1	23
132	Fabrication of electrically conductive nanowires using high-density dislocations in AlN thin films. Journal of Applied Physics, 2009, 106, .	1.1	20
133	Transmission electron microscopy and scanning transmission electron microscopy study on B-site cation ordered structures in a (1â^'x)Pb(Mg1/3Nb2/3)O3â€“xPbTiO3 single crystal. Applied Physics Letters, 2009, 95, .	1.5	5
134	Direct imaging of doped fluorine in LaFeAsO1â^'xFx superconductor by atomic scale spectroscopy. Applied Physics Letters, 2009, 95, .	1.5	19
135	Microstructure evolution of Ca_{0.33}CoO₂ thin films investigated by high-angle annular dark-field scanning transmissionelectron microscopy. Journal of Materials Research, 2009, 24, 279-287.	1.2	7
136	First-principles calculations of x-ray absorption near edge structure and energy loss near edge structure: present and future. Journal of Physics Condensed Matter, 2009, 21, 104201.	0.7	29
137	Overlap population diagram for ELNES and XANES: peak assignment and interpretation. Journal of Physics Condensed Matter, 2009, 21, 104215.	0.7	16
138	First-principles calculation of oxygen K-electron energy loss near edge structure of HfO₂. Journal of Physics Condensed Matter, 2009, 21, 104212.	0.7	17
139	First-principles calculation of spectral features, chemical shift and absolute threshold of ELNES and XANES using a plane wave pseudopotential method. Journal of Physics Condensed Matter, 2009, 21, 104204.	0.7	88
140	Atomic-scale imaging of individual dopant atoms in a buried interface. Nature Materials, 2009, 8, 654-658.	13.3	109
141	3D shape and orientation of nanoscale Pb inclusions at grain boundaries in Al observed by TEM and STEM tomography. Philosophical Magazine Letters, 2009, 89, 104-112.	0.5	9
142	All-electron Bethe-Salpeter calculations for shallow-core x-ray absorption near-edge structures. Physical Review B, 2009, 79, .	1.1	65
143	Interface Structures of Gold Nanoparticles on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>(110). Physical Review Letters, 2009, 102, 136105.	2.9	76
144	First Principles Calculations of Vacancy Formation Energies in Σ13 Pyramidal Twin Grain Boundary of α-Al₂O₃. Materials Transactions, 2009, 50, 1019-1022.	0.4	19

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145	First Principles Study on Intrinsic Vacancies in Cubic and Orthorhombic CaTiO₃. Materials Transactions, 2009, 50, 977-983.	0.4	30
146	Direct Observation of TiO2 (110) Surfaces by HVEM and HAADF STEM. Microscopy and Microanalysis, 2009, 15, 1194-1195.	0.2	0
147	Critical thickness for giant thermoelectric Seebeck coefficient of 2DEG confined in SrTiO3/SrTi0.8Nb0.2O3 superlattices. Thin Solid Films, 2008, 516, 5916-5920.	0.8	32
148	Direct Observation of Au Nanoislands on TiO2 (110) Surface by HAADF STEM. Microscopy and Microanalysis, 2008, 14, 172-173.	0.2	0
149	Direct Imaging of Reconstructed Atoms on TiO ₂ (110) Surfaces. Science, 2008, 322, 570-573.	6.0	120
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152	Site dependence and peak assignment of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></</mml:math> xmlns:mml="http://www.w3.. Physical Review B, 2008, 77, .	1.1	18
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