Osami Sakata

List of Publications by Year
in descending order

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361	9,977	53794 45	49909 87
papers	citations	h-index	g-index

374	374	374	10953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface nano-architecture of a metalâ€“organic framework. Nature Materials, 2010, 9, 565-571.	27.5	783
2	Shape-Memory Nanopores Induced in Coordination Frameworks by Crystal Downsizing. Science, 2013, 339, 193-196.	12.6	483
3	Stabilizing the ferroelectric phase in doped hafnium oxide. Journal of Applied Physics, 2015, 118, .	2.5	424
4	Mesoscopic architectures of porous coordination polymers fabricated by pseudomorphic replication. Nature Materials, 2012, 11, 717-723.	27.5	352
5	Highly Crystalline Nanofilm by Layering of Porphyrin Metalâ”Organic Framework Sheets. Journal of the American Chemical Society, 2011, 133, 5640-5643.	13.7	304
6	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Coreâ€“Shell Single Crystals with an Inâ€Plane Rotational Epitaxial Relationship. Angewandte Chemie - International Edition, 2009, 48, 1766-1770.	13.8	287
7	Colossal barocaloric effects in plastic crystals. Nature, 2019, 567, 506-510.	27.8	253
8	Crystalline coordination framework endowed with dynamic gate-opening behaviour by being downsized to a thin film. Nature Chemistry, 2016, 8, 377-383.	13.6	212
9	The demonstration of significant ferroelectricity in epitaxial Y-doped HfO2 film. Scientific Reports, 2016, 6, 32931.	3.3	194
10	Impact of mechanical stress on ferroelectricity in (Hf0.5Zr0.5)O2 thin films. Applied Physics Letters, 2016, 108, .	3.3	187
11	Sequential Functionalization of Porous Coordination Polymer Crystals. Angewandte Chemie - International Edition, 2011, 50, 8057-8061.	13.8	175
12	A block PCP crystal: anisotropic hybridization of porous coordination polymers by face-selective epitaxial growth. Chemical Communications, 2009, , 5097.	4.1	147
13	Step-by-Step Fabrication of a Highly Oriented Crystalline Three-Dimensional Pillared-Layer-Type Metalâ€“Organic Framework Thin Film Confirmed by Synchrotron X-ray Diffraction. Journal of the American Chemical Society, 2012, 134, 9605-9608.	13.7	147
14	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn2(ndc)2(dabco)]n grown on [Cu2(ndc)2(dabco)]n thin films. Dalton Transactions, 2011, 40, 4954.	3.3	146
15	On the electronic structure and hydrogen evolution reaction activity of platinum group metal-based high-entropy-alloy nanoparticles. Chemical Science, 2020, 11, 12731-12736.	7.4	142
16	Beamline for Surface and Interface Structures at SPring-8. Surface Review and Letters, 2003, 10, 543-547.	1.1	140
17	Effect of Surface Molecular Aggregation State and Surface Molecular Motion on Wetting Behavior of Water on Poly(fluoroalkyl methacrylate) Thin Films. Macromolecules, 2010, 43, 454-460.	4.8	128
18	Efficient overall water splitting in acid with anisotropic metal nanosheets. Nature Communications, 2021, 12, 1145.	12.8	124

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19	Dependence of electrical properties of epitaxial Pb(Zr,Ti)O3 thick films on crystal orientation and Zrâˆ•(Zr+Ti) ratio. Journal of Applied Physics, 2005, 98, 094106.	2.5	114
20	Porous Coordination Polymer Hybrid Device with Quartz Oscillator: Effect of Crystal Size on Sorption Kinetics. Journal of the American Chemical Society, 2011, 133, 11932-11935.	13.7	98
21	Noble-Metal High-Entropy-Alloy Nanoparticles: Atomic-Level Insight into the Electronic Structure. Journal of the American Chemical Society, 2022, 144, 3365-3369.	13.7	94
22	Effect of hydrophobic cations on the oxygen reduction reaction on singleâ€'crystal platinum electrodes. Nature Communications, 2018, 9, 4378.	12.8	87
23	Outer Helmholtz Plane of the Electrical Double Layer Formed at the Solid Electrodeâ€"Liquid Interface. ChemPhysChem, 2011, 12, 1430-1434.	2.1	85
24	Construction of Highly Oriented Crystalline Surface Coordination Polymers Composed of Copper Dithiooxamide Complexes. Journal of the American Chemical Society, 2008, 130, 15778-15779.	13.7	81
25	Influence of Molecular Weight Dispersity of Poly{2-(perfluorooctyl)ethyl acrylate} Brushes on Their Molecular Aggregation States and Wetting Behavior. Macromolecules, 2012, 45, 1509-1516.	4.8	75
26	Development of a synchrotron powder diffractometer with a one-dimensional X-ray detector for analysis of advanced materials. Journal of the Ceramic Society of Japan, 2013, 121, 287-290.	1.1	75
27	Ferroelectricity mediated by ferroelastic domain switching in HfO2-based epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	69
28	External electric field dependence of the structure of the electric double layer at an ionic liquid/Au interface. Applied Physics Letters, 2012, 101, 053122.	3.3	66
29	Dependence of the Molecular Aggregation State of Octadecylsiloxane Monolayers on Preparation Methods. Langmuir, 2005, 21, 905-910.	3.5	64
30	Growth of (111)-oriented epitaxial and textured ferroelectric Y-doped HfO2 films for downscaled devices. Applied Physics Letters, 2016, 109, .	3.3	62
31	Continuous-Flow Reactor Synthesis for Homogeneous 1 nm-Sized Extremely Small High-Entropy Alloy Nanoparticles. Journal of the American Chemical Society, 2022, 144, 11525-11529.	13.7	60
32	Orientation control and domain structure analysis of {100}-oriented epitaxial ferroelectric orthorhombic HfO2-based thin films. Journal of Applied Physics, 2016, 119, .	2.5	57
33	Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, .	7.9	57
34	Backreflection xâ€ray standing waves and crystal truncation rods as structure probe for epilayerâ€"substrate systems. Review of Scientific Instruments, 1992, 63, 1142-1145.	1.3	56
35	Residual stress and thermal stress observation in thin copper films. Thin Solid Films, 2004, 459, 245-248.	1.8	54
36	Guest-Induced Two-Way Structural Transformation in a Layered Metalâ€"Organic Framework Thin Film. Journal of the American Chemical Society, 2016, 138, 16787-16793.	13.7	54

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37	Effect of Nonâ€Specifically Adsorbed Ions on the Surface Oxidation of Pt(111). ChemPhysChem, 2013, 14, 2426-2431.	2.1	51
38	Towards Rational Modulation of Inâ€Plane Molecular Arrangements in Metalâ€“Organic Framework Nanosheets. ChemPlusChem, 2014, 79, 1352-1360.	2.8	50
39	Size dependence of structural parameters in fcc and hcp Ru nanoparticles, revealed by Rietveld refinement analysis of high-energy X-ray diffraction data. Scientific Reports, 2016, 6, 31400.	3.3	50
40	Understanding diffraction patterns of glassy, liquid and amorphous materials via persistent homology analyses. Journal of the Ceramic Society of Japan, 2019, 127, 853-863.	1.1	50
41	Evidence of lattice tilt and slip in m-plane InGaN/GaN heterostructure. Applied Physics Letters, 2011, 99, 131909.	3.3	48
42	Targeted functionalisation of a hierarchically-structured porous coordination polymer crystal enhances its entire function. Chemical Communications, 2012, 48, 6472.	4.1	48
43	Thickness-dependent crystal structure and electric properties of epitaxial ferroelectric Y2O3-HfO2 films. Applied Physics Letters, 2018, 113, .	3.3	48
44	Superconductivity in Ti4O7 and Î³-Ti3O5 films. Scientific Reports, 2017, 7, 12544.	3.3	47
45	Ultrahigh-pressure form of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Si</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> glass with dense pyrite-type crystalline homology. Physical Review B, 2019, 99, .	3.2	44
46	Effect of the film thickness on the crystal structure and ferroelectric properties of (Hf 0.5 Zr 0.5)O 2 thin films deposited on various substrates. Materials Science in Semiconductor Processing, 2017, 70, 239-245.	4.0	41
47	Dynamic fracture of tantalum under extreme tensile stress. Science Advances, 2017, 3, e1602705.	10.3	41
48	Thickness dependence of dielectric properties in bismuth layer-structured dielectrics. Applied Physics Letters, 2006, 89, 082901.	3.3	39
49	Synthesis and magnetic properties of double-perovskite oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review B, 2015, 91, .	3.2	39
50	Origin of the catalytic activity of face-centered-cubic ruthenium nanoparticles determined from an atomic-scale structure. Physical Chemistry Chemical Physics, 2016, 18, 30622-30629.	2.8	39
51	Structure of a passivated Ge surface prepared from aqueous solution. Surface Science, 2000, 462, L594-L598.	1.9	37
52	Molecular Aggregation State of Surface-grafted Poly{2-(perfluorooctyl)ethyl acrylate} Thin Film Analyzed by Grazing Incidence X-ray Diffraction. Polymer Journal, 2008, 40, 854-860.	2.7	37
53	Properties of grazing-angle X-ray standing waves and their application to an arsenic-deposited Si(111) 1 Ã— 1 surface. Acta Crystallographica Section A: Foundations and Advances, 1995, 51, 375-384.	0.3	34
54	Molecular Aggregation Structure of Poly(fluoroalkyl acrylate) Thin Films Evaluated by Synchrotron-sourced Grazing-incidence X-ray Diffraction. Chemistry Letters, 2005, 34, 1024-1025.	1.3	34

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55	Grazing Incidence X-ray Diffraction Study on Surface Crystal Structure of Polyethylene Thin Films. Polymer Bulletin, 2005, 53, 213-222.	3.3	34
56	Self-assembly of highly crystalline two-dimensional MOF sheets on liquid surfaces. CrystEngComm, 2011, 13, 5538.	2.6	34
57	Effects of heat treatment and in situ high-temperature X-ray diffraction study on the formation of ferroelectric epitaxial Y-doped HfO₂ film. Japanese Journal of Applied Physics, 2019, 58, SBBB09.	1.5	34
58	Paracrystalline Lattice Distortion in the Near-Surface Region of Melt-Crystallized Polyethylene Films Evaluated by Synchrotron-Sourced Grazing-Incidence X-ray Diffraction. Macromolecules, 2003, 36, 5905-5907.	4.8	33
59	Structural and Thermal Properties of Ternary Narrow-Gap Oxide Semiconductor; Wurtzite-Derived Î²-CuGaO₂. Inorganic Chemistry, 2015, 54, 1698-1704.	4.0	33
60	Fabrication and Structural Characterization of an Ultrathin Film of a Two-Dimensional-Layered Metalâ€“Organic Framework, {Fe(py)₂[Ni(CN)₄]} (py = pyridine). Inorganic Chemistry, 2017, 56, 7606-7609.	4.0	32
61	Investigation of residual stress in lead-free BNT-based ceramic/ceramic composites. Acta Materialia, 2018, 148, 432-441.	7.9	32
62	Structural Characterization of Ar+-Irradiated SrTiO3Showing Room-Temperature Blue Luminescence. Japanese Journal of Applied Physics, 2007, 46, L471-L473.	1.5	31
63	Tuning of structural, optical band gap, and electrical properties of room-temperature-grown epitaxial thin films through the Fe2O3:NiO ratio. Scientific Reports, 2019, 9, 4304.	3.3	31
64	Application of Grazing-Angle X-ray Standing Waves to the In-Plane Structure of a 100Ã…-Thick Epilayer Film. Acta Crystallographica Section A: Foundations and Advances, 1997, 53, 781-788.	0.3	30
65	Orientation Change of an Infinite-Layer Structure LaNiO₂ Epitaxial Thin Film by Annealing with CaH₂. Crystal Growth and Design, 2010, 10, 2044-2046.	3.0	30
66	Hydrogen storage and stability properties of Pdâ€“Pt solid-solution nanoparticles revealed via atomic and electronic structure. Scientific Reports, 2017, 7, 14606.	3.3	30
67	Thickness scaling of (Al_{0.8}Sc_{0.2})N films with remanent polarization beyond 100ÂĨ¼CÂcm^{â^'2} around 10Ânm in thickness. Applied Physics Express, 2021, 14, 105501.	2.4	30
68	Dynamical xâ€ray diffraction from a perfect crystal under grazing incidence conditions. Review of Scientific Instruments, 1989, 60, 2373-2375.	1.3	29
69	Development of High-Angular-Resolution Microdiffraction System for Reciprocal Space Map Measurements. Japanese Journal of Applied Physics, 2006, 45, L1054-L1056.	1.5	29
70	In Situ Surface X-ray Scattering of Stepped Surface of Platinum:â€‰ Pt(311). Langmuir, 2007, 23, 10879-10882.	3.5	29
71	Monolithic selfâ€sustaining nanographene sheet grown using plasmaâ€enhanced chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 139-143.	1.8	29
72	Formation of (111) orientation-controlled ferroelectric orthorhombic HfO2 thin films from solid phase via annealing. Applied Physics Letters, 2016, 109, .	3.3	29

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73	Gold model anodes for Li-ion batteries: Single crystalline systems studied by in situ X-ray diffraction. Electrochimica Acta, 2008, 53, 6064-6069.	5.2	28
74	Thin films of spin-crossover coordination polymers with large thermal hysteresis loops prepared by nanoparticle spin coating. Chemical Communications, 2014, 50, 10074-10077.	4.1	28
75	Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters. NPG Asia Materials, 2020, 12, .	7.9	28
76	Programmed crystallization via epitaxial growth and ligand replacement towards hybridizing porous coordination polymer crystals. Dalton Transactions, 2013, 42, 15868.	3.3	27
77	The valence band structure of AgxRh1â€“x alloy nanoparticles. Applied Physics Letters, 2014, 105, .	3.3	27
78	Remarkable Lattice Shrinkage in Highly Oriented Crystalline Three-Dimensional Metalâ€“Organic Framework Thin Films. Inorganic Chemistry, 2015, 54, 11593-11595.	4.0	27
79	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. Nature Communications, 2020, 11, 5197.	12.8	27
80	One-Dimensional Zigzag Chain of Water Formed on a Stepped Surface. Journal of Physical Chemistry C, 2009, 113, 4538-4542.	3.1	26
81	High-Angular-Resolution Microbeam X-Ray Diffraction with CCD Detector. AIP Conference Proceedings, 2010, , .	0.4	25
82	Crystal Isomers of ScFeO₃. Crystal Growth and Design, 2016, 16, 5214-5222.	3.0	25
83	A middle energy-bandwidth X-ray monochromator for high-flux synchrotron diffraction: revisiting asymmetrically cut silicon crystals. Journal of Synchrotron Radiation, 2019, 26, 750-755.	2.4	25
84	Water adsorption on a p(2Ã—2)-Ni(111)â€“O surface studied by surface x-ray diffraction and infrared reflection absorption spectroscopy at 25 and 140K. Journal of Chemical Physics, 2005, 122, 224703.	3.0	24
85	Synthesis of submicron metastable phase of silicon using femtosecond laser-driven shock wave. Journal of Applied Physics, 2011, 110, .	2.5	24
86	Direct observation of intrinsic piezoelectricity of Pb(Zr,Ti)O3 by time-resolved x-ray diffraction measurement using single-crystalline films. Applied Physics Letters, 2014, 105, .	3.3	24
87	Trapping of a Spatial Transient State During the Framework Transformation of a Porous Coordination Polymer. Journal of the American Chemical Society, 2014, 136, 4938-4944.	13.7	24
88	Synchrotron X-ray Scattering Measurements of Disordered Materials. Zeitschrift Fur Physikalische Chemie, 2016, 230, .	2.8	24
89	Electronic origin of hydrogen storage in MOF-covered palladium nanocubes investigated by synchrotron X-rays. Communications Chemistry, 2018, 1, .	4.5	24
90	High-energy x-ray scattering in grazing incidence from nanometer-scale oxide wires. Applied Physics Letters, 2004, 84, 4239-4241.	3.3	23

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91	Epitaxial Growth of Cu Nanodot Arrays Using an AAO Template on a Si Substrate. Electrochemical and Solid-State Letters, 2006, 9, J13.	2.2	23
92	Air/Liquid Interfacial Nanoassembly of Molecular Building Blocks into Preferentially Oriented Porous Organic Nanosheet Crystals via Hydrogen Bonding. ACS Nano, 2017, 11, 10875-10882.	14.6	23
93	In-situ observation of ultrafast 90Â° domain switching under application of an electric field in (100)/(001)-oriented tetragonal epitaxial Pb(Zr0.4Ti0.6)O3 thin films. Scientific Reports, 2017, 7, 9641.	3.3	23
94	Electricâ€Fieldâ€Induced Ferroelectricity in 5%Yâ€doped Hf_{0.5}Zr_{0.5}O₂: Transformation from the Paraelectric Tetragonal Phase to the Ferroelectric Orthorhombic Phase. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000589.	2.4	23
95	Mapping of two-dimensional lattice distortions in silicon crystals at submicrometer resolution from X-ray rocking-curve data. Journal of Applied Crystallography, 1994, 27, 338-344.	4.5	22
96	Encapsulation of atomic-scale Bi wires in epitaxial silicon without loss of structure. Physical Review B, 2005, 72, .	3.2	22
97	Femtosecond laser-driven shock synthesis of hexagonal diamond from highly oriented pyrolytic graphite. Journal of Physics: Conference Series, 2009, 165, 012019.	0.4	22
98	Surface X-ray Scattering of Stepped Surfaces of Platinum in an Electrochemical Environment: Pt(331) = 3(111)-(111) and Pt(511) = 3(100)-(111). Langmuir, 2011, 27, 4236-4242.	3.5	22
99	Structure of Pt(111)/Ionomer Membrane Interface and Its Bias-Induced Change in Membrane Electrode Assembly. Journal of Physical Chemistry C, 2013, 117, 12168-12171.	3.1	22
100	Thickness- and orientation- dependences of Curie temperature in ferroelectric epitaxial Y doped HfO₂ films. Japanese Journal of Applied Physics, 2020, 59, SGGB04.	1.5	22
101	Highly Stable and Active Solidâ€Solutionâ€Alloy Threeâ€Way Catalyst by Utilizing Configurationalâ€Entropy Effect. Advanced Materials, 2021, 33, e2005206.	21.0	22
102	Surface X-ray scattering of high index plane of platinum containing kink atoms in solidâ€“liquid interface: Pt(310)=3(100)â€“(110). Electrochimica Acta, 2008, 53, 6070-6075.	5.2	21
103	Liquid-crystal periodic zigzags from geometrical and surface-anchoring-induced confinement: Origin and internal structure from mesoscopic scale to molecular level. Physical Review E, 2010, 82, 041705.	2.1	21
104	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films. Applied Physics Letters, 2011, 99, 182906.	3.3	21
105	Enhanced oxygen barrier property of poly(ethylene oxide) films crystallite-oriented by adding cellulose single nanofibers. Polymer, 2014, 55, 5843-5846.	3.8	21
106	Negligible substrate clamping effect on piezoelectric response in (111)-epitaxial tetragonal Pb(Zr, Ti)O3 films. Journal of Applied Physics, 2015, 118, .	2.5	21
107	Structural analysis of NiO ultra-thin films epitaxially grown on ultra-smooth sapphire substrates by synchrotron X-ray diffraction measurements. Applied Surface Science, 2004, 221, 450-454.	6.1	20
108	Femtosecond laser driven shock synthesis of the high-pressure phase of iron. Applied Surface Science, 2005, 247, 571-576.	6.1	20

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109	Critical thickness control by deposition rate for epitaxial BaTiO3 thin films grown on SrTiO3(001). Journal of Applied Physics, 2007, 102, 114311.	2.5	20
110	Catalytically Active Structure of Bi Deposited on a Au(111) Electrode for the Hydrogen Peroxide Reduction Reaction. Langmuir, 2010, 26, 4590-4593.	3.5	20
111	Dynamical fluctuations in In nanowires on Si(111). Physical Review B, 2011, 84, .	3.2	20
112	Ultrafast observation of lattice dynamics in laser-irradiated gold foils. Applied Physics Letters, 2017, 110, .	3.3	20
113	Discovery of face-centred cubic Os nanoparticles. Chemical Communications, 2020, 56, 372-374.	4.1	20
114	In-situ lattice-strain analysis of a ferroelectric thin film under an applied pulse electric field. AIP Conference Proceedings, 2010, , .	0.4	19
115	Ethanol Oxidation on Well-Ordered PtSn Surface Alloy on Pt(111) Electrode. Journal of Physical Chemistry C, 2013, 117, 18139-18143.	3.1	19
116	Large thermal hysteresis of ferroelectric transition in HfO2-based ferroelectric films. Applied Physics Letters, 2021, 118, .	3.3	19
117	High-quality as-grown MgB2 thin-film fabrication at a low temperature using an in-plane-lattice near-matched epitaxial-buffer layer. Journal of Applied Physics, 2004, 96, 3580-3582.	2.5	18
118	Structure of Î²-AgGaO2; ternary Iâ€“IIIâ€“VI2 oxide semiconductor with a wurtzite-derived structure. Journal of Solid State Chemistry, 2015, 222, 66-70.	2.9	18
119	A three-dimensional accordion-like metalâ€“organic framework: synthesis and unconventional oriented growth on a surface. Chemical Communications, 2016, 52, 6017-6020.	4.1	18
120	Thickness and structure of thin films determined by background analysis in hard X-ray photoelectron spectroscopy. Journal of Applied Physics, 2017, 121, .	2.5	18
121	Lattice distortion and electronic structure of magnesium-doped nickel oxide epitaxial thin films. Physical Review B, 2017, 95, .	3.2	18
122	Local Geometry and Electronic Properties of Nickel Nanoparticles Prepared via Thermal Decomposition of Ni-MOF-74. Inorganic Chemistry, 2018, 57, 10072-10080.	4.0	18
123	Effect of Bath pH on Electronic and Morphological Properties of Electrodeposited Cu₂O Thin Films. Journal of the Electrochemical Society, 2019, 166, D113-D119.	2.9	18
124	Strain-Controlled Spin Transition in Heterostructured Metalâ€“Organic Framework Thin Film. Journal of the American Chemical Society, 2021, 143, 16128-16135.	13.7	18
125	Direct Observation ofB-site Ordering in Multiferroic Bi2NiMnO6Thin Film. Japanese Journal of Applied Physics, 2007, 46, L845-L847.	1.5	17
126	Structure of the electrical double layer on Ag(100): Promotive effect of cationic species on Br adlayer formation. Physical Review B, 2011, 84, .	3.2	17

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127	Effects of phase fraction on superconductivity of low-valence eutectic titanate films. Journal of Applied Physics, 2017, 122, .	2.5	17
128	Facile preparation of hybrid thin films composed of spin-crossover nanoparticles and carbon nanotubes for electrical memory devices. Dalton Transactions, 2019, 48, 7074-7079.	3.3	17
129	Surface Oxidation of Au(111) Electrode in Alkaline Media Studied by Using X-ray Diffraction and Infrared Spectroscopy: Effect of Alkali Metal Cation on the Alcohol Oxidation Reactions. Journal of Physical Chemistry C, 2015, 119, 23586-23591.	3.1	16
130	Interfacial Structure of PtNi Surface Alloy on Pt(111) Electrode for Oxygen Reduction Reaction. ACS Omega, 2017, 2, 1858-1863.	3.5	16
131	Electric-Field-Driven Nanosecond Ferroelastic Domain Switching Dynamics in Epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>Zr</mml:mi><mml:mo>,</mml:mo><mml:mi>Ti</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT	7.8	16
132	mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: In-plane structure of arsenic deposited on the Si(111) surface studied with the grazing-angle x-ray standing-wave method. Physical Review B, 1993, 48, 11408-11411.	3.2	15
133	Three-Dimensional Reconstruction of Atoms in Surface X-Ray Diffraction. Japanese Journal of Applied Physics, 2003, 42, L189-L191.	1.5	15
134	Grazing Incidence X-Ray Diffraction. Springer Series in Surface Sciences, 2013, , 165-190.	0.3	15
135	Relationship between the photocatalytic activity and crystallographic orientation of rutile TiO₂ single crystals. Journal of the Ceramic Society of Japan, 2013, 121, 254-257.	1.1	15
136	Femtosecond laser-driven shock-induced dislocation structures in iron. Applied Physics Express, 2014, 7, 122704.	2.4	15
137	Strain evolution of epitaxial tetragonal-like BiFeO3thin films on LaAlO3(001) substrates prepared by sputtering and their bulk photovoltaic effect. Japanese Journal of Applied Physics, 2016, 55, 101501.	1.5	15
138	Reverse Monte Carlo modeling for local structures of noble metal nanoparticles using high-energy XRD and EXAFS. RSC Advances, 2019, 9, 29511-29521.	3.6	15
139	Rational Synthesis for a Noble Metal Carbide. Journal of the American Chemical Society, 2020, 142, 1247-1253.	13.7	15
140	Structure of fluoride/GaAs(111) heteroepitaxial interfaces. Surface Science, 1993, 282, 342-356.	1.9	14
141	Surface X-ray diffraction in transmission geometry. Applied Surface Science, 2004, 234, 403-408.	6.1	14
142	Nonlinearity in the high-electric-field piezoelectricity of epitaxial BiFeO3 on SrTiO3. Applied Physics Letters, 2012, 100, 062906.	3.3	14
143	Controlling of crystallite orientation for poly(ethylene oxide) thin films with cellulose single nano-fibers. Polymer, 2014, 55, 4401-4404.	3.8	14
144	A highly crystalline oriented metalâ€“organic framework thin film with an inorganic pillar. Chemical Communications, 2017, 53, 10112-10115.	4.1	14

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145	Charge screening strategy for domain pattern control in nano-scale ferroelectric systems. Scientific Reports, 2017, 7, 5236.	3.3	14
146	X-ray scattering studies of surfactant mediated epitaxial growth of Si/Ge/Si(001) heterostructures. Journal of Applied Physics, 2000, 88, 2391-2394.	2.5	13
147	Structural Dynamics of the Electrical Double Layer during Capacitive Charging/Discharging Processes. Journal of Physical Chemistry C, 2014, 118, 22136-22140.	3.1	13
148	Epitaxial PbZr_xTi_{1â^'x}O₃ Ferroelectric Bilayers with Giant Electromechanical Properties. Advanced Materials Interfaces, 2015, 2, 1500075.	3.7	13
149	Operando structural study of non-aqueous Liâ€“air batteries using synchrotron-based X-ray diffraction. RSC Advances, 2018, 8, 26293-26299.	3.6	13
150	Characterization of the ScAlMgO4 cleaving layer by X-ray crystal truncation rod scattering. Journal of Applied Physics, 2018, 123, .	2.5	13
151	Non-oxidative propane dehydrogenation over alumina-supported Co-V oxide catalysts. Applied Catalysis A: General, 2021, 614, 118036.	4.3	13
152	Epitaxial Stabilization of Complete Solid-solution Î²-(Al_xGa_{1â€“x})₂O₃ (100) Films by Pulsed-laser Deposition. Crystal Growth and Design, 2021, 21, 2844-2849.	3.0	13
153	Interfacial profile of a Bragg Mirror. Applied Surface Science, 1998, 133, 98-102.	6.1	12
154	Analysis of Molecular Aggregation States in Pentacene Thin Films Prepared from Soluble Precursor. Chemistry Letters, 2006, 35, 1162-1163.	1.3	12
155	Piezoelectric Properties of {100}-Oriented Epitaxial BiCoO₃â€“BiFeO₃Films Measured Using Synchrotron X-ray Diffraction. Japanese Journal of Applied Physics, 2009, 48, 09KD06.	1.5	12
156	Influence of Confined Polymer Structure on Proton Transport Property in Sulfonated Polyimide Thin Films. Electrochemistry, 2014, 82, 865-869.	1.4	12
157	Phase transitions associated with competing order parameters in compressively strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:m films. Physical Review B, 2015, 91, .	3.2	12
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