

# Xiaoqing Pan

## List of Publications by Year in descending order

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all docs

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docs citations

551  
times ranked

36702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature ferroelectricity in strained SrTiO <sub>3</sub> . Nature, 2004, 430, 758-761.	35.8	1,888
2	Enhancement of Ferroelectricity in Strained BaTiO <sub>3</sub> Thin Films. Science, 2004, 306, 1005-1009.	19.8	1,715
3	Observation of conducting filament growth in nanoscale resistive memories. Nature Communications, 2012, 3, 732.	13.0	993
4	Adsorbate-mediated strong metal-support interactions in oxide-supported Rh catalysts. Nature Chemistry, 2017, 9, 120-127.	14.1	665
5	Robust memristors based on layered two-dimensional materials. Nature Electronics, 2018, 1, 130-136.	18.7	585
6	Catalyst Architecture for Stable Single Atom Dispersion Enables Site-Specific Spectroscopic and Reactivity Measurements of CO Adsorbed to Pt Atoms, Oxidized Pt Clusters, and Metallic Pt Clusters on TiO <sub>2</sub> . Journal of the American Chemical Society, 2017, 139, 14150-14165.	14.5	564
7	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In <sub>2</sub> Se <sub>3</sub> . Nano Letters, 2018, 18, 1253-1258.	9.4	555
8	Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. Nature Communications, 2014, 5, 4232.	13.0	531
9	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	28.0	504
10	A Thin Film Approach to Engineering Functionality into Oxides. Journal of the American Ceramic Society, 2008, 91, 2429-2454.	3.8	459
11	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. Nature Materials, 2019, 18, 746-751.	26.3	446
12	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	35.8	440
13	Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90.	35.8	431
14	Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. Nano Letters, 2011, 11, 828-834.	9.4	427
15	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. Nature Materials, 2010, 9, 309-314.	26.3	424
16	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 9046-9050.	14.5	409
17	Elastic strain engineering of ferroic oxides. MRS Bulletin, 2014, 39, 118-130.	4.1	399
18	In situ epitaxial MgB <sub>2</sub> thin films for superconducting electronics. Nature Materials, 2002, 1, 35-38.	26.3	379

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19	Highly active and stable stepped Cu surface for enhanced electrochemical CO <sub>2</sub> reduction to C <sub>2</sub> H <sub>4</sub> . Nature Catalysis, 2020, 3, 804-812.	28.0	354
20	Substitution-induced phase transition and enhanced multiferroic properties of Bi <sub>1-x</sub> La <sub>x</sub> FeO <sub>3</sub> ceramics. Applied Physics Letters, 2006, 88, 162901.	3.2	353
21	Optical band gap of BiFeO <sub>3</sub> grown by molecular-beam epitaxy. Applied Physics Letters, 2008, 92, .	3.2	351
22	Atomically engineering activation sites onto metallic 1T-MoS <sub>2</sub> catalysts for enhanced electrochemical hydrogen evolution. Nature Communications, 2019, 10, 982.	13.0	339
23	Controlled Synthesis of Lead-Free and Stable Perovskite Derivative Cs <sub>2</sub> SnI <sub>6</sub> Nanocrystals via a Facile Hot-Injection Process. Chemistry of Materials, 2016, 28, 8132-8140.	6.9	326
24	Rational Design of Graphene-Supported Single Atom Catalysts for Hydrogen Evolution Reaction. Advanced Energy Materials, 2019, 9, 1803689.	21.9	310
25	Stability-limiting heterointerfaces of perovskite photovoltaics. Nature, 2022, 605, 268-273.	35.8	306
26	Fully Transparent Thin-Film Transistor Devices Based on SnO <sub>2</sub> Nanowires. Nano Letters, 2007, 7, 2463-2469.	9.4	287
27	Very high upper critical fields in MgB <sub>2</sub> produced by selective tuning of impurity scattering. Superconductor Science and Technology, 2004, 17, 278-286.	3.4	284
28	ZnO/CuO Heterojunction Branched Nanowires for Photoelectrochemical Hydrogen Generation. ACS Nano, 2013, 7, 11112-11120.	15.1	283
29	Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO <sub>3</sub> Thin Films. Advanced Materials, 2009, 21, 817-823.	24.0	281
30	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. Nature Nanotechnology, 2020, 15, 934-940.	30.1	276
31	Polar metals by geometric design. Nature, 2016, 533, 68-72.	35.8	273
32	Experimental evidence of ferroelectric negative capacitance in nanoscale heterostructures. Applied Physics Letters, 2011, 99, .	3.2	267
33	High Activity Carbide Supported Catalysts for Water Gas Shift. Journal of the American Chemical Society, 2011, 133, 2378-2381.	14.5	258
34	Synthesis and ferroelectric properties of epitaxial BiFeO <sub>3</sub> thin films grown by sputtering. Applied Physics Letters, 2006, 88, 242904.	3.2	253
35	Dynamical Observation and Detailed Description of Catalysts under Strong Metal-Support Interaction. Nano Letters, 2016, 16, 4528-4534.	9.4	247
36	Ferroelectricity in Strain-Free $\text{SrTiO}_3$ Thin Films. Physical Review Letters, 2010, 104, 197601.	8.0	239

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37	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907.	7.5	238
38	Strain-Induced Polarization Rotation in Epitaxial (001) $\text{BiFeO}_3$ Thin Films. Physical Review Letters, 2008, 101, 107602.	8.0	229
39	Tailoring a two-dimensional electron gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ (001) interface by epitaxial strain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4720-4724.	7.5	223
40	Revealing the role of defects in ferroelectric switching with atomic resolution. Nature Communications, 2011, 2, 591.	13.0	221
41	Rh single atoms on $\text{TiO}_2$ dynamically respond to reaction conditions by adapting their site. Nature Communications, 2019, 10, 4488.	13.0	214
42	Quantitative and Atomic-Scale View of CO-Induced Pt Nanoparticle Surface Reconstruction at Saturation Coverage via DFT Calculations Coupled with <i>in Situ</i> TEM and IR. Journal of the American Chemical Society, 2017, 139, 4551-4558.	14.5	207
43	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. Nano Energy, 2019, 61, 60-68.	16.3	201
44	High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390.	35.8	195
45	Anisotropic and hierarchical $\text{SiC@SiO}_2$ nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. Science Advances, 2020, 6, eaay6689.	10.8	193
46	High-Performance Transparent Conducting Oxide Nanowires. Nano Letters, 2006, 6, 2909-2915.	9.4	188
47	Template engineering of Co-doped $\text{BaFe}_2\text{As}_2$ single-crystal thin films. Nature Materials, 2010, 9, 397-402.	26.3	186
48	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of $\text{Pt/CeO}_2$ . Journal of the American Chemical Society, 2020, 142, 169-184.	14.5	182
49	Weak-link behavior of grain boundaries in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ bicrystals. Applied Physics Letters, 2009, 95, .	3.2	167
50	Epitaxial growth of the first five members of the $\text{Sr}_{n+1}\text{Ti}_n\text{O}_{3n+1}$ Ruddlesden-Popper homologous series. Applied Physics Letters, 2001, 78, 3292-3294.	3.2	161
51	Creation of a two-dimensional electron gas at an oxide interface on silicon. Nature Communications, 2010, 1, 94.	13.0	160
52	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 5929-5934.	11.5	158
53	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. Nature Communications, 2013, 4, .	13.0	157
54	Microstructure, optical, and electrical properties of p-type $\text{SnO}$ thin films. Applied Physics Letters, 2010, 96, .	3.2	155

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55	Grain Boundary Films in Rare-Earth-Glass-Based Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1996, 79, 788-792.	3.8	150
56	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , 2014, 5, 3801.	13.0	140
57	Resistance switching in polycrystalline BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2010, 97, .	3.2	139
58	Real-space charge-density imaging with sub-Ångström resolution by four-dimensional electron microscopy. <i>Nature</i> , 2019, 575, 480-484.	35.8	139
59	Abrupt PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattices grown by reactive molecular beam epitaxy. <i>Applied Physics Letters</i> , 1999, 74, 2851-2853.	3.2	133
60	Oxidation and phase transitions of epitaxial tin oxide thin films on (11̄,012) sapphire. <i>Journal of Applied Physics</i> , 2001, 89, 6048-6055.	2.3	133
61	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. <i>ACS Catalysis</i> , 2017, 7, 4372-4380.	11.5	130
62	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019, 10, 440.	13.0	126
63	Surface erosion events controlled the evolution of plate tectonics on Earth. <i>Nature</i> , 2019, 570, 52-57.	35.8	126
64	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. <i>Advanced Materials</i> , 2017, 29, 1702375.	24.0	125
65	Single-defect phonons imaged by electron microscopy. <i>Nature</i> , 2021, 589, 65-69.	35.8	125
66	Single particle tunneling spectrum of superconducting Nd <sub>1-x</sub> Sr <sub>x</sub> NiO <sub>2</sub> thin films. <i>Nature Communications</i> , 2020, 11, 6027.	13.0	124
67	Evolution of dislocation arrays in epitaxial BaTiO <sub>3</sub> thin films grown on (100) SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2004, 84, 3298-3300.	3.2	123
68	Enhancement of Ferroelectric Polarization Stability by Interface Engineering. <i>Advanced Materials</i> , 2012, 24, 1209-1216.	24.0	123
69	Improved Thermal Stability and Methane-Oxidation Activity of Pd/Al <sub>2</sub> O <sub>3</sub> Catalysts by Atomic Layer Deposition of ZrO <sub>2</sub> . <i>ACS Catalysis</i> , 2015, 5, 5696-5701.	11.5	122
70	Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS <sub>2</sub> electrocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2020, 11, 4114.	13.0	122
71	Silicon nitride crystal structure and observations of lattice defects. <i>Journal of Materials Science</i> , 1996, 31, 5281-5298.	3.7	119
72	Size-Dependent Nickel-Based Electrocatalysts for Selective CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18572-18577.	14.6	117

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73	Large Enhancements of Thermopower and Carrier Mobility in Quantum Dot Engineered Bulk Semiconductors. <i>Journal of the American Chemical Society</i> , 2013, 135, 7486-7495.	14.5	115
74	Gap states in Pentacene Thin Film Induced by Inert Gas Exposure. <i>Physical Review Letters</i> , 2013, 110, 267602.	8.0	114
75	Size effects in ultrathin epitaxial ferroelectric heterostructures. <i>Applied Physics Letters</i> , 2004, 84, 5225-5227.	3.2	113
76	Microstructure and Chemistry of Intergranular Glassy Films in Liquid-Phase-Sintered Alumina. <i>Journal of the American Ceramic Society</i> , 1998, 81, 369-379.	3.8	111
77	Platinum-Based Nanowires as Active Catalysts toward Oxygen Reduction Reaction: In Situ Observation of Surface-Diffusion-Assisted, Solid-State Oriented Attachment. <i>Advanced Materials</i> , 2017, 29, 1703460.	24.0	111
78	In situ atomic-scale observation of oxygen-driven core-shell formation in Pt <sub>3</sub> Co nanoparticles. <i>Nature Communications</i> , 2017, 8, 204.	13.0	111
79	Bifunctional hydroformylation on heterogeneous Rh-WO <sub>x</sub> pair site catalysts. <i>Nature</i> , 2022, 609, 287-292.	35.8	111
80	Dynamic structural evolution of supported palladium-“ceria core”-shell catalysts revealed by in situ electron microscopy. <i>Nature Communications</i> , 2015, 6, 7778.	13.0	106
81	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Zn-Air Batteries. <i>Nano Letters</i> , 2021, 21, 4508-4515.	9.4	104
82	Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3611-3615.	14.6	101
83	Bismuth manganite: A multiferroic with a large nonlinear optical response. <i>Physical Review B</i> , 2004, 69, .	3.3	98
84	Self-Regeneration of Pd-LaFeO <sub>3</sub> Catalysts: New Insight from Atomic-Resolution Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 18090-18093.	14.5	97
85	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. <i>Nano Letters</i> , 2019, 19, 5431-5436.	9.4	97
86	Electron ptychographic microscopy for three-dimensional imaging. <i>Nature Communications</i> , 2017, 8, 163.	13.0	96
87	High-density switchable skyrmion-like polar nanodomains integrated on silicon. <i>Nature</i> , 2022, 603, 63-67.	35.8	96
88	Chiral molecular intercalation superlattices. <i>Nature</i> , 2022, 606, 902-908.	35.8	96
89	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , 2017, 29, 1605177.	24.0	95
90	Nano- $\gamma$ -Al <sub>2</sub> O <sub>3</sub> by liquid-feed flame spray pyrolysis. <i>Nature Materials</i> , 2006, 5, 710-712.	26.3	94

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91	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. Nature Communications, 2018, 9, 1011.	13.0	94
92	Reversible precipitation/dissolution of precious-metal clusters in perovskite-based catalyst materials: Bulk versus surface re-dispersion. Journal of Catalysis, 2012, 293, 145-148.	6.4	93
93	Adsorption-controlled molecular-beam epitaxial growth of BiFeO <sub>3</sub> . Applied Physics Letters, 2007, 91, .	3.2	92
94	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO <sub>3</sub> Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2018, 140, 4841-4848.	14.5	92
95	Domain structure of epitaxial SrRuO <sub>3</sub> thin films on miscut (001) SrTiO <sub>3</sub> substrates. Applied Physics Letters, 1998, 72, 2963-2965.	3.2	91
96	Epitaxial growth and properties of metastable BiMnO <sub>3</sub> thin films. Applied Physics Letters, 2004, 84, 91-93.	3.2	91
97	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Matter, 2020, 3, 1774-1790.	10.1	90
98	Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 3336-3345.	10.4	89
99	Synthesis of Heteroatom Rh <sup>+</sup> ReO <sub>x</sub> Atomically Dispersed Species on Al <sub>2</sub> O <sub>3</sub> and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. ACS Catalysis, 2019, 9, 10899-10912.	11.5	88
100	Morphology, structure, and nucleation of out-of-phase boundaries (OPBs) in epitaxial films of layered oxides. Journal of Materials Research, 2007, 22, 1439-1471.	2.6	87
101	Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO <sub>3</sub> Films. Advanced Materials, 2013, 25, 5561-5567.	24.0	87
102	Aged metastable high-entropy alloys with heterogeneous lamella structure for superior strength-ductility synergy. Acta Materialia, 2020, 199, 602-612.	7.9	87
103	Origin of the metal-insulator transition in ultrathin films of $L_{2/3}M_{1/3}$ $a_{2/3}S_3$ $r_{2/3}$	3.3	86
104	Neighboring Pt Atom Sites in an Ultrathin FePt Nanosheet for the Efficient and Highly CO-Tolerant Oxygen Reduction Reaction. Nano Letters, 2018, 18, 5905-5912.	9.4	86
105	Synthesis and properties of c-axis oriented epitaxial MgB <sub>2</sub> thin films. Applied Physics Letters, 2002, 81, 1851-1853.	3.2	85
106	Nanoparticle generation in ultrafast pulsed laser ablation of nickel. Applied Physics Letters, 2007, 90, 044103.	3.2	85
107	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580.	10.1	85
108	Absence of low-temperature phase transitions in epitaxial BaTiO <sub>3</sub> thin films. Physical Review B, 2004, 69, .	3.3	84

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109	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. Nature Communications, 2020, 11, 2773.	13.0	84
110	Epitaxial SnO <sub>2</sub> thin films grown on (1̄1,012) sapphire by femtosecond pulsed laser deposition. Journal of Applied Physics, 2002, 91, 1060-1065.	2.3	83
111	Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. Advanced Materials, 2016, 28, 6574-6580.	24.0	83
112	Solid-phase hetero epitaxial growth of $\hat{1}\pm$ -phase formamidinium perovskite. Nature Communications, 2020, 11, 5514.	13.0	83
113	Structural evidence for enhanced polarization in a commensurate short-period BaTiO <sub>3</sub> ̂•SrTiO <sub>3</sub> superlattice. Applied Physics Letters, 2006, 89, 092905.	3.2	82
114	Effect of alloy composition on dispersion stability and catalytic activity for NO oxidation over alumina-supported Pt̂Pd catalysts. Catalysis Letters, 2007, 116, 1-8.	2.7	82
115	Microstructure and properties of epitaxial antimony-doped p-type ZnO films fabricated by pulsed laser deposition. Applied Physics Letters, 2007, 90, 242108.	3.2	80
116	Engineering Atomic Single Metal̂FeN<sub>4</sub>Cl Sites with Enhanced Oxygen-Reduction Activity for High-Performance Proton Exchange Membrane Fuel Cells. ACS Nano, 2022, 16, 15165-15174.	15.1	80
117	Dopant Distribution in Grain-Boundary Films in Calcia-Doped Silicon Nitride Ceramics. Journal of the American Ceramic Society, 1998, 81, 3125-3135.	3.8	79
118	Hexagonal close-packed Ni nanostructures grown on the (001) surface of MgO. Applied Physics Letters, 2005, 86, 131915.	3.2	77
119	Stripe domain structure in epitaxial (001) BiFeO <sub>3</sub> thin films on orthorhombic TbScO <sub>3</sub> substrate. Applied Physics Letters, 2009, 94, .	3.2	77
120	Effect of crystal defects on the electrical properties in epitaxial tin dioxide thin films. Applied Physics Letters, 2002, 81, 5168-5170.	3.2	76
121	Highly Durable and Selective Fe- and Mo-Based Atomically Dispersed Electrocatalysts for Nitrate Reduction to Ammonia via Distinct and Synergized NO<sub>2</sub><sup>̂</sup> Pathways. ACS Catalysis, 2022, 12, 6651-6662.	11.5	76
122	Superconducting properties of nanocrystalline MgB <sub>2</sub> thin films made by anin situannealing process. Applied Physics Letters, 2001, 79, 1840-1842.	3.2	75
123	Critical current density and resistivity of MgB <sub>2</sub> films. Applied Physics Letters, 2003, 83, 102-104.	3.2	75
124	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS<sub>2</sub>. Nano Letters, 2018, 18, 3435-3440.	9.4	75
125	Perovskite phase stabilization in epitaxial Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ̂PbTiO <sub>3</sub> films by deposition onto vicinal (001) SrTiO <sub>3</sub> substrates. Applied Physics Letters, 2001, 79, 3482-3484.	3.2	74
126	A New Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Advanced Materials, 2005, 17, 830-833.	24.0	74



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127	Ferroelectric domain structures of epitaxial (001) BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2007, 90, 072907.	3.2	74
128	Revealing Surface Elemental Composition and Dynamic Processes Involved in Facet-Dependent Oxidation of Pt <sub>3</sub> Co Nanoparticles via <i>In Situ</i> Transmission Electron Microscopy. Nano Letters, 2017, 17, 4683-4688.	9.4	74
129	Core-Shell Nanostructured Cobalt-Platinum Electrocatalysts with Enhanced Durability. ACS Catalysis, 2018, 8, 35-42.	11.5	74
130	Boosting the activity of Fe-N <sub>x</sub> moieties in Fe-N-C electrocatalysts via phosphorus doping for oxygen reduction reaction. Science China Materials, 2020, 63, 965-971.	6.4	74
131	Silicon Nitride Based Ceramic Nanocomposites. Journal of the American Ceramic Society, 1996, 79, 585-590.	3.8	73
132	Experimental colitis triggers the release of substance P and calcitonin gene-related peptide in the urinary bladder via TRPV1 signaling pathways. Experimental Neurology, 2010, 225, 262-273.	4.1	73
133	Strong electrostatic adsorption approach to the synthesis of sub-three nanometer intermetallic platinum-cobalt oxygen reduction catalysts. Nano Energy, 2021, 79, 105465.	16.3	72
134	Structure, optical, and magnetic properties of sputtered manganese and nitrogen-codoped ZnO films. Applied Physics Letters, 2006, 88, 082111.	3.2	71
135	Tunable band gap in Bi(Fe <sub>1-x</sub> Mn <sub>x</sub> )O <sub>3</sub> films. Applied Physics Letters, 2010, 96, .	3.2	71
136	Controlled synthesis of spinel ZnFe <sub>2</sub> O <sub>4</sub> decorated ZnO heterostructures as peroxidase mimetics for enhanced colorimetric biosensing. Chemical Communications, 2013, 49, 7656.	4.2	71
137	Artificially engineered superlattices of pnictide superconductors. Nature Materials, 2013, 12, 392-396.	26.3	71
138	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO <sub>3</sub> for Solar Water Oxidation. ACS Central Science, 2018, 4, 1166-1172.	12.1	70
139	Adsorption-controlled growth of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> by reactive MBE. Applied Physics Letters, 1998, 72, 2817-2819.	3.2	68
140	Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. Applied Physics Letters, 2003, 82, 778-780.	3.2	68
141	Strong vortex pinning in Co-doped BaFe <sub>2</sub> As <sub>2</sub> single crystal thin films. Applied Physics Letters, 2010, 96, .	3.2	68
142	Electronic Properties of Isosymmetric Phase Boundaries in Highly Strained Ca-Doped BiFeO <sub>3</sub> . Advanced Materials, 2014, 26, 4376-4380.	24.0	68
143	Epitaxial nanocrystalline tin dioxide thin films grown on (0001) sapphire by femtosecond pulsed laser deposition. Applied Physics Letters, 2001, 79, 614-616.	3.2	67
144	Transmission electron microscopy study of $\lambda = 1$ Sr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> epitaxial thin films. Journal of Materials Research, 2001, 16, 2013-2026.	2.6	66

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145	Epitaxial growth and magnetic properties of the first five members of the layered $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ oxide series. Applied Physics Letters, 2007, 90, 022507.	3.2	66
146	Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. Nano Energy, 2021, 90, 106488.	16.3	66
147	$\text{Fe}^{\text{N}}\text{C}$ Electrocatalysts <sup>TM</sup> Durability: Effects of Single Atoms <sup>TM</sup> Mobility and Clustering. ACS Catalysis, 2021, 11, 484-494.	11.5	63
148	Selective Methanol Carbonylation to Acetic Acid on Heterogeneous Atomically Dispersed $\text{ReO}_4/\text{SiO}_2$ Catalysts. Journal of the American Chemical Society, 2020, 142, 14178-14189.	14.5	62
149	$\text{Pt}_3\text{Ag}$ alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. Nano Research, 2020, 13, 1472-1478.	10.5	62
150	Critical thickness of high structural quality $\text{SrTiO}_3$ films grown on orthorhombic (101) $\text{DyScO}_3$ . Journal of Applied Physics, 2008, 104, .	2.3	61
151	Study of defect-dipoles in an epitaxial ferroelectric thin film. Applied Physics Letters, 2010, 96, .	3.2	61
152	$\text{BiFeO}_3$ Domain Wall Energies and Structures: A Combined Experimental and Density Functional Theory Study. Physical Review Letters, 2013, 110, 267601.	8.0	61
153	Strong Electronic Interaction of Amorphous $\text{Fe}_2\text{O}_3$ Nanosheets with Single-Atom Pt toward Enhanced Carbon Monoxide Oxidation. Advanced Functional Materials, 2019, 29, 1904278.	16.3	61
154	Investigating the Nature of the Active Sites for the $\text{CO}_2$ Reduction Reaction on Carbon-Based Electrocatalysts. ACS Catalysis, 2019, 9, 7668-7678.	11.5	60
155	Atomic Scale Structure Changes Induced by Charged Domain Walls in Ferroelectric Materials. Nano Letters, 2013, 13, 5218-5223.	9.4	59
156	High-surface-area ceria prepared by ALD on $\text{Al}_2\text{O}_3$ support. Applied Catalysis B: Environmental, 2017, 201, 430-437.	20.4	59
157	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	30.1	59
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