

Xiao-Qing Pan

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534
papers

27,337
citations

80
h-index

151
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563
ext. papers

31,665
ext. citations

8.4
avg, IF

6.95
L-index

#	Paper	IF	Citations
534	Room-temperature ferroelectricity in strained SrTiO ₃ . <i>Nature</i> , 2004 , 430, 758-61	50.4	1631
533	Enhancement of ferroelectricity in strained BaTiO ₃ thin films. <i>Science</i> , 2004 , 306, 1005-9	33.3	1459
532	Observation of conducting filament growth in nanoscale resistive memories. <i>Nature Communications</i> , 2012 , 3, 732	17.4	782
531	Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. <i>Nature Communications</i> , 2014 , 5, 4232	17.4	411
530	Adsorbate-mediated strong metal-support interactions in oxide-supported Rh catalysts. <i>Nature Chemistry</i> , 2017 , 9, 120-127	17.6	401
529	A Thin Film Approach to Engineering Functionality into Oxides. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2429-2454	3.8	396
528	Spontaneous vortex nanodomain arrays at ferroelectric heterointerfaces. <i>Nano Letters</i> , 2011 , 11, 828-3411.5	11.5	365
527	In situ epitaxial MgB ₂ thin films for superconducting electronics. <i>Nature Materials</i> , 2002 , 1, 35-8	27	355
526	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , 2018 , 1, 130-136	28.4	348
525	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010 , 9, 309-14	27	344
524	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. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14150-14165	16.4	333
523	Substitution-induced phase transition and enhanced multiferroic properties of Bi _{1-x} LaxFeO ₃ ceramics. <i>Applied Physics Letters</i> , 2006 , 88, 162901	3.4	321
522	Giant piezoelectricity on Si for hyperactive MEMS. <i>Science</i> , 2011 , 334, 958-61	33.3	319
521	Elastic strain engineering of ferroic oxides. <i>MRS Bulletin</i> , 2014 , 39, 118-130	3.2	309
520	Optical band gap of BiFeO ₃ grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 92, 142908	3.4	300
519	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. <i>Nano Letters</i> , 2018 , 18, 1253-1258	11.5	293
518	Domain dynamics during ferroelectric switching. <i>Science</i> , 2011 , 334, 968-71	33.3	277

517	Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. <i>Science</i> , 2006 , 313, 1614-6	33.3	272
516	Fully transparent thin-film transistor devices based on SnO ₂ nanowires. <i>Nano Letters</i> , 2007 , 7, 2463-9	11.5	260
515	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 495-503	36.5	258
514	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9046-9050	16.4	258
513	Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO ₃ Thin Films. <i>Advanced Materials</i> , 2009 , 21, 817-823	24	251
512	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. <i>Nature Materials</i> , 2019 , 18, 746-751	27	250
511	Very high upper critical fields in MgB ₂ produced by selective tuning of impurity scattering. <i>Superconductor Science and Technology</i> , 2004 , 17, 278-286	3.1	250
510	Controlled Synthesis of Lead-Free and Stable Perovskite Derivative Cs ₂ SnI ₆ Nanocrystals via a Facile Hot-Injection Process. <i>Chemistry of Materials</i> , 2016 , 28, 8132-8140	9.6	239
509	ZnO/CuO heterojunction branched nanowires for photoelectrochemical hydrogen generation. <i>ACS Nano</i> , 2013 , 7, 11112-20	16.7	239
508	Tunable intrinsic strain in two-dimensional transition metal electrocatalysts. <i>Science</i> , 2019 , 363, 870-874	33.3	238
507	Synthesis and ferroelectric properties of epitaxial BiFeO ₃ thin films grown by sputtering. <i>Applied Physics Letters</i> , 2006 , 88, 242904	3.4	228
506	High activity carbide supported catalysts for water gas shift. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2378-81	16.4	221
505	Experimental evidence of ferroelectric negative capacitance in nanoscale heterostructures. <i>Applied Physics Letters</i> , 2011 , 99, 113501	3.4	210
504	Tailoring a two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (001) interface by epitaxial strain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4720-4724	11.5	207
503	Freestanding crystalline oxide perovskites down to the monolayer limit. <i>Nature</i> , 2019 , 570, 87-90	50.4	206
502	Ferroelectricity in strain-free SrTiO ₃ thin films. <i>Physical Review Letters</i> , 2010 , 104, 197601	7.4	205
501	Strain-induced polarization rotation in epitaxial (001) BiFeO ₃ thin films. <i>Physical Review Letters</i> , 2008 , 101, 107602	7.4	205
500	Polar metals by geometric design. <i>Nature</i> , 2016 , 533, 68-72	50.4	203

499	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020 , 579, 368-374	50.4	195
498	Metallic and insulating oxide interfaces controlled by electronic correlations. <i>Science</i> , 2011 , 331, 886-9	33.3	193
497	Revealing the role of defects in ferroelectric switching with atomic resolution. <i>Nature Communications</i> , 2011 , 2, 591	17.4	184
496	Atomically engineering activation sites onto metallic 1T-MoS catalysts for enhanced electrochemical hydrogen evolution. <i>Nature Communications</i> , 2019 , 10, 982	17.4	180
495	Microstructural, optical, and electrical properties of SnO thin films prepared on quartz via a two-step method. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1060-5	9.5	176
494	High-performance transparent conducting oxide nanowires. <i>Nano Letters</i> , 2006 , 6, 2909-15	11.5	176
493	Template engineering of Co-doped BaFe ₂ As ₂ single-crystal thin films. <i>Nature Materials</i> , 2010 , 9, 397-402	27	173
492	Oxide nano-engineering using MBE. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 87, 282-291	3.1	167
491	Dynamical Observation and Detailed Description of Catalysts under Strong Metal-Support Interaction. <i>Nano Letters</i> , 2016 , 16, 4528-34	11.5	160
490	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2902-2907	11.5	156
489	High-Mobility Multilayered MoS Flakes with Low Contact Resistance Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2017 , 29, 1604540	24	153
488	Weak-link behavior of grain boundaries in superconducting Ba(Fe _{1-x} Co _x) ₂ As ₂ bicrystals. <i>Applied Physics Letters</i> , 2009 , 95, 212505	3.4	151
487	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO(3). <i>Physical Review Letters</i> , 2015 , 114, 016401	7.4	148
486	Rational Design of Graphene-Supported Single Atom Catalysts for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1803689	21.8	147
485	Epitaxial growth of the first five members of the Sr _{n+1} Ti _n O _{3n+1} Ruddlesden-Popper homologous series. <i>Applied Physics Letters</i> , 2001 , 78, 3292-3294	3.4	145
484	Creation of a two-dimensional electron gas at an oxide interface on silicon. <i>Nature Communications</i> , 2010 , 1, 94	17.4	136
483	Resistance switching in polycrystalline BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 97, 042101	3.4	129
482	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. <i>Nature Communications</i> , 2013 , 4,	17.4	128

481	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019 , 61, 60-68	17.1	126
480	Quantitative and Atomic-Scale View of CO-Induced Pt Nanoparticle Surface Reconstruction at Saturation Coverage via DFT Calculations Coupled with in Situ TEM and IR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4551-4558	16.4	124
479	Microstructure, optical, and electrical properties of p-type SnO thin films. <i>Applied Physics Letters</i> , 2010 , 96, 042113	3.4	122
478	Grain Boundary Films in Rare-Earth-Glass-Based Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 788-792	3.8	122
477	Abrupt PbTiO ₃ /SrTiO ₃ superlattices grown by reactive molecular beam epitaxy. <i>Applied Physics Letters</i> , 1999 , 74, 2851-2853	3.4	119
476	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020 , 15, 934-940	28.7	119
475	Highly active and stable stepped Cu surface for enhanced electrochemical CO ₂ reduction to C ₂ H ₄ . <i>Nature Catalysis</i> , 2020 , 3, 804-812	36.5	118
474	Evolution of dislocation arrays in epitaxial BaTiO ₃ thin films grown on (100) SrTiO ₃ . <i>Applied Physics Letters</i> , 2004 , 84, 3298-3300	3.4	114
473	Oxidation and phase transitions of epitaxial tin oxide thin films on (1 012) sapphire. <i>Journal of Applied Physics</i> , 2001 , 89, 6048-6055	2.5	113
472	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , 2014 , 5, 3801	17.4	110
471	Enhancement of ferroelectric polarization stability by interface engineering. <i>Advanced Materials</i> , 2012 , 24, 1209-16	24	108
470	Size effects in ultrathin epitaxial ferroelectric heterostructures. <i>Applied Physics Letters</i> , 2004 , 84, 5225-5227	3.27	100
469	Silicon nitride crystal structure and observations of lattice defects. <i>Journal of Materials Science</i> , 1996 , 31, 5281-5298	4.3	99
468	Rh single atoms on TiO dynamically respond to reaction conditions by adapting their site. <i>Nature Communications</i> , 2019 , 10, 4488	17.4	99
467	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 5929-5934	13.1	98
466	MgB ₂ thin films by hybrid physical/chemical vapor deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 456, 22-37	1.3	98
465	Bismuth manganite: A multiferroic with a large nonlinear optical response. <i>Physical Review B</i> , 2004 , 69,	3.3	94
464	Large enhancements of thermopower and carrier mobility in quantum dot engineered bulk semiconductors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7486-95	16.4	93

463	Improved Thermal Stability and Methane-Oxidation Activity of Pd/Al ₂ O ₃ Catalysts by Atomic Layer Deposition of ZrO ₂ . <i>ACS Catalysis</i> , 2015 , 5, 5696-5701	13.1	91
462	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO. <i>Journal of the American Chemical Society</i> , 2020 , 142, 169-184	16.4	90
461	Epitaxial growth and properties of metastable BiMnO ₃ thin films. <i>Applied Physics Letters</i> , 2004 , 84, 91-93	3.4	89
460	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. <i>ACS Catalysis</i> , 2017 , 7, 4372-4380	13.1	87
459	Self-regeneration of Pd-LaFeO ₃ catalysts: new insight from atomic-resolution electron microscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18090-3	16.4	85
458	Microstructure and Chemistry of Intergranular Glassy Films in Liquid-Phase-Sintered Alumina. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 369-379	3.8	85
457	Dynamic structural evolution of supported palladium-ceria core-shell catalysts revealed by in situ electron microscopy. <i>Nature Communications</i> , 2015 , 6, 7778	17.4	83
456	Synthesis and properties of c-axis oriented epitaxial MgB ₂ thin films. <i>Applied Physics Letters</i> , 2002 , 81, 1851-1853	3.4	81
455	Adsorption-controlled molecular-beam epitaxial growth of BiFeO ₃ . <i>Applied Physics Letters</i> , 2007 , 91, 071922	3.4	80
454	Nano-alpha-Al ₂ O ₃ by liquid-feed flame spray pyrolysis. <i>Nature Materials</i> , 2006 , 5, 710-2	27	79
453	Structural evidence for enhanced polarization in a commensurate short-period BaTiO ₃ /SrTiO ₃ superlattice. <i>Applied Physics Letters</i> , 2006 , 89, 092905	3.4	78
452	Absence of low-temperature phase transitions in epitaxial BaTiO ₃ thin films. <i>Physical Review B</i> , 2004 , 69,	3.3	78
451	Domain structure of epitaxial SrRuO ₃ thin films on miscut (001) SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 1998 , 72, 2963-2965	3.4	78
450	Epitaxial SnO ₂ thin films grown on (1 012) sapphire by femtosecond pulsed laser deposition. <i>Journal of Applied Physics</i> , 2002 , 91, 1060-1065	2.5	77
449	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019 , 10, 440	17.4	76
448	Phase transitions, phase coexistence, and piezoelectric switching behavior in highly strained BiFeO ₃ films. <i>Advanced Materials</i> , 2013 , 25, 5561-7	24	76
447	Amphoteric Phosphorus Doping for Stable p-Type ZnO. <i>Advanced Materials</i> , 2007 , 19, 3333-3337	24	76
446	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	74

445	Reversible precipitation/dissolution of precious-metal clusters in perovskite-based catalyst materials: Bulk versus surface re-dispersion. <i>Journal of Catalysis</i> , 2012 , 293, 145-148	7.3	74
444	Effect of alloy composition on dispersion stability and catalytic activity for NO oxidation over alumina-supported PtPd catalysts. <i>Catalysis Letters</i> , 2007 , 116, 1-8	2.8	73
443	Nanoparticle generation in ultrafast pulsed laser ablation of nickel. <i>Applied Physics Letters</i> , 2007 , 90, 044103	3.4	72
442	Microstructure and properties of epitaxial antimony-doped p-type ZnO films fabricated by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007 , 90, 242108	3.4	72
441	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4841-4848	16.4	71
440	In situ atomic-scale observation of oxygen-driven core-shell formation in PtCo nanoparticles. <i>Nature Communications</i> , 2017 , 8, 204	17.4	71
439	Effect of crystal defects on the electrical properties in epitaxial tin dioxide thin films. <i>Applied Physics Letters</i> , 2002 , 81, 5168-5170	3.4	71
438	Critical current density and resistivity of MgB2 films. <i>Applied Physics Letters</i> , 2003 , 83, 102-104	3.4	70
437	A New Y3Al5O12 Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Advanced Materials</i> , 2005 , 17, 830-833	24	70
436	Superconducting properties of nanocrystalline MgB2 thin films made by an in situ annealing process. <i>Applied Physics Letters</i> , 2001 , 79, 1840-1842	3.4	70
435	Stripe domain structure in epitaxial (001) BiFeO3 thin films on orthorhombic TbScO3 substrate. <i>Applied Physics Letters</i> , 2009 , 94, 251911	3.4	69
434	Dopant Distribution in Grain-Boundary Films in Calcia-Doped Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , 1998 , 81, 3125-3135	3.8	69
433	Ferroelectric domain structures of epitaxial (001) BiFeO3 thin films. <i>Applied Physics Letters</i> , 2007 , 90, 072907	3.4	68
432	Structure, optical, and magnetic properties of sputtered manganese and nitrogen-codoped ZnO films. <i>Applied Physics Letters</i> , 2006 , 88, 082111	3.4	68
431	Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3336-3345	13	67
430	Real-space charge-density imaging with sub-Ångström resolution by four-dimensional electron microscopy. <i>Nature</i> , 2019 , 575, 480-484	50.4	67
429	Hexagonal close-packed Ni nanostructures grown on the (001) surface of MgO. <i>Applied Physics Letters</i> , 2005 , 86, 131915	3.4	66
428	Tin Oxide Thin Films Grown on the (1012) Sapphire Substrate 2001 , 7, 35-46		66

427	Stacking-mode confined growth of 2H-MoTe ₂ /MoS ₂ bilayer heterostructures for UV-Vis photodetectors. <i>Nano Energy</i> , 2018 , 49, 200-208	17.1	65
426	Controlled synthesis of spinel ZnFe ₂ O ₄ decorated ZnO heterostructures as peroxidase mimetics for enhanced colorimetric biosensing. <i>Chemical Communications</i> , 2013 , 49, 7656-8	5.8	65
425	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , 2017 , 29, 1605177	24	64
424	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. <i>Advanced Materials</i> , 2017 , 29, 1702375	24	64
423	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018 , 9, 1011	17.4	64
422	Strong vortex pinning in Co-doped BaFe ₂ As ₂ single crystal thin films. <i>Applied Physics Letters</i> , 2010 , 96, 142510	3.4	64
421	Morphology, structure, and nucleation of out-of-phase boundaries (OPBs) in epitaxial films of layered oxides. <i>Journal of Materials Research</i> , 2007 , 22, 1439-1471	2.5	63
420	Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. <i>Applied Physics Letters</i> , 2003 , 82, 778-780	3.4	63
419	Artificially engineered superlattices of pnictide superconductors. <i>Nature Materials</i> , 2013 , 12, 392-6	27	62
418	Adsorption-controlled growth of Bi ₄ Ti ₃ O ₁₂ by reactive MBE. <i>Applied Physics Letters</i> , 1998 , 72, 2817-2819	3.4	62
417	Transmission electron microscopy study of n = 1-18 Sr _{n+1} Ti _n O _{3n+1} epitaxial thin films. <i>Journal of Materials Research</i> , 2001 , 16, 2013-2026	2.5	62
416	Epitaxial nanocrystalline tin dioxide thin films grown on (0001) sapphire by femtosecond pulsed laser deposition. <i>Applied Physics Letters</i> , 2001 , 79, 614-616	3.4	62
415	Liquid-Feed Flame Spray Pyrolysis as a Method of Producing Mixed-Metal Oxide Nanopowders of Potential Interest as Catalytic Materials. Nanopowders along the NiO/Al ₂ O ₃ Tie Line Including (NiO) _{0.22} (Al ₂ O ₃) _{0.78} , a New Inverse Spinel Composition. <i>Chemistry of Materials</i> , 2006 , 18, 731-739	9.6	61
414	Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. <i>Advanced Materials</i> , 2016 , 28, 6574-80	24	61
413	Electronic properties of isosymmetric phase boundaries in highly strained Ca-Doped BiFeO ₃ . <i>Advanced Materials</i> , 2014 , 26, 4376-80	24	60
412	Tunable band gap in Bi(Fe _{1-x} Mnx)O ₃ films. <i>Applied Physics Letters</i> , 2010 , 96, 192901	3.4	60
411	Epitaxial growth and magnetic properties of the first five members of the layered Sr _{n+1} Ru _n O _{3n+1} oxide series. <i>Applied Physics Letters</i> , 2007 , 90, 022507	3.4	60
410	Perovskite phase stabilization in epitaxial Pb(Mg _{1/3} Nb _{2/3})O ₃ BbTiO ₃ films by deposition onto vicinal (001) SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2001 , 79, 3482-3484	3.4	60

409	Experimental colitis triggers the release of substance P and calcitonin gene-related peptide in the urinary bladder via TRPV1 signaling pathways. <i>Experimental Neurology</i> , 2010 , 225, 262-73	5.7	59
408	Neighboring Pt Atom Sites in an Ultrathin FePt Nanosheet for the Efficient and Highly CO-Tolerant Oxygen Reduction Reaction. <i>Nano Letters</i> , 2018 , 18, 5905-5912	11.5	58
407	Electron ptychographic microscopy for three-dimensional imaging. <i>Nature Communications</i> , 2017 , 8, 16317.4	17.4	57
406	Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3611-3615	16.4	56
405	Anisotropic and hierarchical SiC@SiO nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. <i>Science Advances</i> , 2020 , 6, eaay6689	14.3	56
404	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. <i>Nano Letters</i> , 2019 , 19, 5431-5436	11.5	56
403	Room-temperature polar ferromagnet ScFeO ₃ transformed from a high-pressure orthorhombic perovskite phase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15291-9	16.4	56
402	Silicon Nitride Based Ceramic Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 585-590	9.0	56
401	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO for Solar Water Oxidation. <i>ACS Central Science</i> , 2018 , 4, 1166-1172	16.8	54
400	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , 2019 , 1, 1567-1580	12.7	53
399	Origin of the metal-insulator transition in ultrathin films of La _{2/3} Sr _{1/3} MnO ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	53
398	Critical thickness of high structural quality SrTiO ₃ films grown on orthorhombic (101) DyScO ₃ . <i>Journal of Applied Physics</i> , 2008 , 104, 114109	2.5	53
397	Atomic scale structure changes induced by charged domain walls in ferroelectric materials. <i>Nano Letters</i> , 2013 , 13, 5218-23	11.5	52
396	Study of defect-dipoles in an epitaxial ferroelectric thin film. <i>Applied Physics Letters</i> , 2010 , 96, 052903	3.4	52
395	Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS electrocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2020 , 11, 4114	17.4	52
394	Core-shell Nanostructured Cobalt-Platinum Electrocatalysts with Enhanced Durability. <i>ACS Catalysis</i> , 2018 , 8, 35-42	13.1	52
393	Epitaxial La-doped SrTiO ₃ on silicon: A conductive template for epitaxial ferroelectrics on silicon. <i>Applied Physics Letters</i> , 2002 , 80, 4801-4803	3.4	51
392	Microstructure of epitaxial SrRuO ₃ thin films on (001) SrTiO ₃ . <i>Applied Physics Letters</i> , 1998 , 72, 909-911	3.4	51

391	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS. <i>Nano Letters</i> , 2018 , 18, 3435-3440	11.5	50
390	BiFeO ₃ domain wall energies and structures: a combined experimental and density functional theory+U study. <i>Physical Review Letters</i> , 2013 , 110, 267601	7.4	49
389	Revealing Surface Elemental Composition and Dynamic Processes Involved in Facet-Dependent Oxidation of PtCo Nanoparticles via in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2017 , 17, 4683-4688	11.5	49
388	Direct observations of retention failure in ferroelectric memories. <i>Advanced Materials</i> , 2012 , 24, 1106-1114	10.4	47
387	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021 , 591, 385-390	50.4	47
386	Electrical and optical properties of phosphorus-doped p-type ZnO films grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2008 , 103, 023708	2.5	46
385	Liquid-Feed Flame Spray Pyrolysis of Nanopowders in the Alumina-Titania System. <i>Chemistry of Materials</i> , 2004 , 16, 2336-2343	9.6	46
384	Synthesis of Heteroatom Rh/ReOx Atomically Dispersed Species on Al ₂ O ₃ and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. <i>ACS Catalysis</i> , 2019 , 9, 10899-10912	13.1	45
383	p-Si/SnO ₂ /Fe ₂ O ₃ Core/Shell/Shell Nanowire Photocathodes for Neutral pH Water Splitting. <i>Advanced Functional Materials</i> , 2015 , 25, 2609-2615	15.6	44
382	Single-defect phonons imaged by electron microscopy. <i>Nature</i> , 2021 , 589, 65-69	50.4	44
381	Growth of nanoscale BaTiO ₃ /SrTiO ₃ superlattices by molecular-beam epitaxy. <i>Journal of Materials Research</i> , 2008 , 23, 1417-1432	2.5	42
380	Ferromagnetism in inhomogeneous Zn _{1-x} CoxO thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 063910	2.5	42
379	Probing domain microstructure in ferroelectric Bi ₄ Ti ₃ O ₁₂ thin films by optical second harmonic generation. <i>Journal of Applied Physics</i> , 2001 , 89, 1387-1392	2.5	41
378	Self-assembled oxide nanopillars in epitaxial BaFe ₂ As ₂ thin films for vortex pinning. <i>Applied Physics Letters</i> , 2011 , 98, 042509	3.4	40
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