

Xiaoyan Zhong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

1,133
citations

14
h-index

33
g-index

39
ext. papers

1,337
ext. citations

9.3
avg. IF

3.88
L-index

#	Paper	IF	Citations
37	A macro-nano-atomic-scale high-throughput approach for material research. <i>Science Advances</i> , 2021 , 7, eabj8804	14.3	1
36	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. <i>Advanced Functional Materials</i> , 2021 , 31, 2008306	15.6	2
35	Atomic insight into spin, charge and lattice modulations at SrFeO/SrTiO interfaces. <i>Nanoscale</i> , 2021 , 13, 6066-6075	7.7	3
34	Voltage Control of Magnetism above Room Temperature in Epitaxial SrCoFeO. <i>ACS Nano</i> , 2020 , 14, 8949-8957	14.7	14
33	High-Angular Splitting Electron Vortex Beams Generated by Topological Defects. <i>Microscopy and Microanalysis</i> , 2019 , 25, 88-89	0.5	1
32	Crossover from 2D metal to 3D Dirac semimetal in metallic PtTe ₂ films with local Rashba effect. <i>Science Bulletin</i> , 2019 , 64, 1044-1048	10.6	29
31	Thickness-driven first-order phase transitions in manganite ultrathin films. <i>Physical Review B</i> , 2019 , 99,	3.3	5
30	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19584-19595	9.5	22
29	Nonvolatile Memory: Performance-Enhancing Selector via Symmetrical Multilayer Design (Adv. Funct. Mater. 13/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970081	15.6	3
28	Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , 2019 , 2, 164-170	28.4	54
27	Atomistic Defect Makes a Phase Plate for the Generation and High-Angular Splitting of Electron Vortex Beams. <i>ACS Nano</i> , 2019 , 13, 3964-3970	16.7	2
26	Atomic-Plane Resolved Electron Magnetic Circular Dichroism by Achromatic Spatially-Resolved Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 572-573	0.5	1
25	Electric Field-Controlled Multistep Proton Evolution in H SrCoO with Formation of H-H Dimer. <i>Advanced Science</i> , 2019 , 6, 1901432	13.6	12
24	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO ₃ films. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 404001	3	38
23	Nanoscale measurement of giant saturation magnetization in α -FeN by electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , 2019 , 203, 37-43	3.1	4
22	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. <i>Physical Review Letters</i> , 2019 , 123, 247601	7.4	5
21	Performance-Enhancing Selector via Symmetrical Multilayer Design. <i>Advanced Functional Materials</i> , 2019 , 29, 1808376	15.6	38

20	Controllable oxygen vacancies, orbital occupancy and magnetic ordering in SrCoO ₃ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 228-236	2.8	10
19	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
18	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. <i>Nature Materials</i> , 2018 , 17, 221-225	27	42
17	Direct imaging of structural changes induced by ionic liquid gating leading to engineered three-dimensional meso-structures. <i>Nature Communications</i> , 2018 , 9, 3055	17.4	32
16	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite SrFeReO ₆ . <i>Ultramicroscopy</i> , 2018 , 193, 137-142	3.1	8
15	Intricate Physics of Coherent Electron Beam/Oxide Materials Interaction Revealed by 4D Inline Holography/Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1632-1633	0.5	
14	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer 2016 , 929-930		
13	Direct Demonstration of a Magnetic Dead Layer Resulting from A-Site Cation Inhomogeneity in a (La,Sr)MnO ₃ Epitaxial Film System. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600414	4.6	17
12	Atomic structure and magnetic circular dichroism of antiphase boundary defects in NiFe ₂ O ₄ thin films 2016 , 1058-1058		
11	3D Quantification of Low-Coordinate Surface Atom Density: Bridging Catalytic Activity to Concave Facets of Nanocatalysts in Fuel Cells. <i>Small</i> , 2016 , 12, 6332-6337	11	4
10	Platinum-nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. <i>Nature Communications</i> , 2015 , 6, 8248	17.4	152
9	Mapping carbon distribution in 35SiMn steel by energy-filtered transmission electron microscopy. <i>Science China Technological Sciences</i> , 2012 , 55, 1833-1837	3.5	1
8	Self-organized rod-like nanostructure in Pr ₂ Fe ₁₄ B-type alloy and its role in inducing texture during the early stages of disproportionation. <i>Scripta Materialia</i> , 2011 , 65, 206-209	5.6	11
7	An improved image alignment procedure for high-resolution transmission electron microscopy. <i>Micron</i> , 2010 , 41, 367-72	2.3	6
6	A Novel Fabrication and Properties Investigation of Permalloy-SiO ₂ Granular Films with Induced Anisotropy. <i>Materials Letters</i> , 2007 , 61, 491-495	3.3	6
5	H ₂ -induced environmental embrittlement in ordered and disordered Ni ₃ Fe: An electronic structure approach. <i>Intermetallics</i> , 2007 , 15, 495-499	3.5	7
4	Study of the interfacial structure of a Pt/Al ₂ O ₃ model catalyst under high-temperature hydrogen reduction. <i>Journal of Catalysis</i> , 2005 , 236, 9-13	7.3	20
3	Uniform, axial-orientation alignment of one-dimensional single-crystal silicon nanostructure arrays. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2737-2742	16.4	393

2	Uniform, Axial-Orientation Alignment of One-Dimensional Single-Crystal Silicon Nanostructure Arrays. <i>Angewandte Chemie</i> , 2005 , 117, 2797-2802	3.6	32
1	Monodisperse CuInS ₂ /CdS and CuInZnS ₂ /CdS Core-Shell Nanorods with a Strong Near-Infrared Emission. <i>Advanced Optical Materials</i> , 2102590	8.1	1