

# Xiaoyan Zhong

## List of Publications by Citations

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37  
papers

1,133  
citations

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h-index

33  
g-index

39  
ext. papers

1,337  
ext. citations

9.3  
avg, IF

3.88  
L-index

#	Paper	IF	Citations
37	Uniform, axial-orientation alignment of one-dimensional single-crystal silicon nanostructure arrays. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 2737-2742	16.4	393
36	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> , <b>2018</b> , 115, 2902-2907	11.5	156
35	Platinum-nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. <i>Nature Communications</i> , <b>2015</b> , 6, 8248	17.4	152
34	Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , <b>2019</b> , 2, 164-170	28.4	54
33	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. <i>Nature Materials</i> , <b>2018</b> , 17, 221-225	27	42
32	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO <sub>3</sub> films. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 404001	3	38
31	Performance-Enhancing Selector via Symmetrical Multilayer Design. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808376	15.6	38
30	Direct imaging of structural changes induced by ionic liquid gating leading to engineered three-dimensional meso-structures. <i>Nature Communications</i> , <b>2018</b> , 9, 3055	17.4	32
29	Uniform, Axial-Orientation Alignment of One-Dimensional Single-Crystal Silicon Nanostructure Arrays. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 2797-2802	3.6	32
28	Crossover from 2D metal to 3D Dirac semimetal in metallic PtTe <sub>2</sub> films with local Rashba effect. <i>Science Bulletin</i> , <b>2019</b> , 64, 1044-1048	10.6	29
27	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19584-19595	9.5	22
26	Study of the interfacial structure of a Pt/Al <sub>2</sub> O <sub>3</sub> model catalyst under high-temperature hydrogen reduction. <i>Journal of Catalysis</i> , <b>2005</b> , 236, 9-13	7.3	20
25	Direct Demonstration of a Magnetic Dead Layer Resulting from A-Site Cation Inhomogeneity in a (La,Sr)MnO <sub>3</sub> Epitaxial Film System. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600414	4.6	17
24	Voltage Control of Magnetism above Room Temperature in Epitaxial SrCoFeO. <i>ACS Nano</i> , <b>2020</b> , 14, 8949-8957	14.7	14
23	Electric Field-Controlled Multistep Proton Evolution in H SrCoO with Formation of H-H Dimer. <i>Advanced Science</i> , <b>2019</b> , 6, 1901432	13.6	12
22	Self-organized rod-like nanostructure in Pr <sub>2</sub> Fe <sub>14</sub> B-type alloy and its role in inducing texture during the early stages of disproportionation. <i>Scripta Materialia</i> , <b>2011</b> , 65, 206-209	5.6	11
21	Controllable oxygen vacancies, orbital occupancy and magnetic ordering in SrCoO <sub>3</sub> films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 454, 228-236	2.8	10

20	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite SrFeReO. <i>Ultramicroscopy</i> , <b>2018</b> , 193, 137-142	3.1	8
19	H <sub>2</sub> -induced environmental embrittlement in ordered and disordered Ni <sub>3</sub> Fe: An electronic structure approach. <i>Intermetallics</i> , <b>2007</b> , 15, 495-499	3.5	7
18	An improved image alignment procedure for high-resolution transmission electron microscopy. <i>Micron</i> , <b>2010</b> , 41, 367-72	2.3	6
17	A Novel Fabrication and Properties Investigation of Permalloy-SiO <sub>2</sub> Granular Films with Induced Anisotropy. <i>Materials Letters</i> , <b>2007</b> , 61, 491-495	3.3	6
16	Thickness-driven first-order phase transitions in manganite ultrathin films. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
15	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. <i>Physical Review Letters</i> , <b>2019</b> , 123, 247601	7.4	5
14	3D Quantification of Low-Coordinate Surface Atom Density: Bridging Catalytic Activity to Concave Facets of Nanocatalysts in Fuel Cells. <i>Small</i> , <b>2016</b> , 12, 6332-6337	11	4
13	Nanoscale measurement of giant saturation magnetization in $\alpha$ -FeN by electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , <b>2019</b> , 203, 37-43	3.1	4
12	Nonvolatile Memory: Performance-Enhancing Selector via Symmetrical Multilayer Design (Adv. Funct. Mater. 13/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970081	15.6	3
11	Atomic insight into spin, charge and lattice modulations at SrFeO/SrTiO interfaces. <i>Nanoscale</i> , <b>2021</b> , 13, 6066-6075	7.7	3
10	Atomistic Defect Makes a Phase Plate for the Generation and High-Angular Splitting of Electron Vortex Beams. <i>ACS Nano</i> , <b>2019</b> , 13, 3964-3970	16.7	2
9	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008306	15.6	2
8	High-Angular Splitting Electron Vortex Beams Generated by Topological Defects. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 88-89	0.5	1
7	Atomic-Plane Resolved Electron Magnetic Circular Dichroism by Achromatic Spatially-Resolved Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 572-573	0.5	1
6	Mapping carbon distribution in 35SiMn steel by energy-filtered transmission electron microscopy. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 1833-1837	3.5	1
5	A macro-nano-atomic-scale high-throughput approach for material research. <i>Science Advances</i> , <b>2021</b> , 7, eabj8804	14.3	1
4	Monodisperse CuInS <sub>2</sub> /CdS and CuInZnS <sub>2</sub> /CdS Core-Shell Nanorods with a Strong Near-Infrared Emission. <i>Advanced Optical Materials</i> , 2102590	8.1	1
3	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer <b>2016</b> , 929-930		

- 2 Intricate Physics of Coherent Electron Beam/Oxide Materials Interaction Revealed by 4D Inline Holography/Electron Ptychography. *Microscopy and Microanalysis*, **2017**, 23, 1632-1633 0.5
- 1 Atomic structure and magnetic circular dichroism of antiphase boundary defects in NiFe<sub>2</sub>O<sub>4</sub> thin films **2016**, 1058-1058