Fengshan Zheng

List of Publications by Year
in descending order

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34 papers	2,344 citations	471509 17 h-index	414414 32 g-index
38 all docs	38 docs citations	38 times ranked	3027 citing authors

#	Article	IF	Citations
1	Prospect for measuring two-dimensional van der Waals magnets by electron magnetic chiral dichroism. Ultramicroscopy, 2022, 234, 113476.	1.9	1
2	Atomicâ€Scale Observation of Offâ€Centering Rattlers in Filled Skutterudites. Advanced Energy Materials, 2022, 12, .	19.5	8
3	Diversity of states in a chiral magnet nanocylinder. APL Materials, 2022, 10, .	5.1	2
4	Skyrmionâ€“antiskyrmion pair creation and annihilation in a cubic chiral magnet. Nature Physics, 2022, 18, 863-868.	16.7	17
5	Realizing high thermoelectric performance in n-type SnSe polycrystals via (Pb, Br) co-doping and multi-nanoprecipitates synergy. Journal of Alloys and Compounds, 2021, 864, 158401.	5.5	19
6	Magnetic skyrmion braids. Nature Communications, 2021, 12, 5316.	12.8	22
7	Measurement of charge density in nanoscale materials using off-axis electron holography. Journal of Electron Spectroscopy and Related Phenomena, 2020, 241, 146881.	1.7	9
8	High thermoelectric properties realized in earth-abundant Bi2S3 bulk via carrier modulation and multi-nano-precipitates synergy. Nano Energy, 2020, 78, 105227.	16.0	40
9	Robust nature of the chiral spin helix in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cr</mml:mi><mml:msub><mml:mi>Nb</mml:mi><mml:mn mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> nanostructures studied by off-axis electron holography. Physical Review B, 2020, 102, .	3.2	8
10	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. Microscopy and Microanalysis, 2020, 26, 1540-1542.	0.4	0
11	Quantitative measurement of charge accumulation along a quasi-one-dimensional W₅O₁₄ nanowire during electron field emission. Nanoscale, 2020, 12, 10559-10564.	5.6	7
12	Magnetic Field Mapping using Off-Axis Electron Holography in the Transmission Electron Microscope. Journal of Visualized Experiments, 2020, , .	0.3	0
13	Interplay of anomalous strain relaxation and minimization of polarization changes at nitride semiconductor heterointerfaces. Physical Review B, 2020, 102, .	3.2	3
14	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. Microscopy and Microanalysis, 2019, 25, 48-49.	0.4	0
15	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. Microscopy and Microanalysis, 2019, 25, 326-327.	0.4	6
16	Live Measurement of Electrical Charge Density in Materials using Off-Axis Electron Holography. Microscopy and Microanalysis, 2019, 25, 44-45.	0.4	2
17	Carrier lifetime enhancement in halide perovskite via remote epitaxy. Nature Communications, 2019, 10, 4145.	12.8	93
18	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. ACS Applied Energy Materials, 2019, 2, 2392-2397.	5.1	27

#	Article	IF	Citations
19	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. Physical Chemistry Chemical Physics, 2019, 21, 6171-6177.	2.8	10
20	Experimental observation of chiral magnetic bobbers in B20-type FeGe. Nature Nanotechnology, 2018, 13, 451-455.	31.5	243
21	Excellent ZT achieved in Cu_{1.8}S thermoelectric alloys through introducing rare-earth trichlorides. Journal of Materials Chemistry A, 2018, 6, 14440-14448.	10.3	39
22	Highly enhanced thermoelectric properties of Cu1.8S by introducing PbS. Journal of Alloys and Compounds, 2018, 764, 738-744.	5.5	25
23	Fabrication and characterization of a focused ion beam milled lanthanum hexaboride based cold field electron emitter source. Applied Physics Letters, 2018, 113, 093101.	3.3	17
24	Magnetic Skyrmion Formation at Lattice Defects and Grain Boundaries Studied by Quantitative Off-Axis Electron Holography. Nano Letters, 2017, 17, 1395-1401.	9.1	33
25	Boosting the Thermoelectric Performance of (Na,K)-Codoped Polycrystalline SnSe by Synergistic Tailoring of the Band Structure and Atomic-Scale Defect Phonon Scattering. Journal of the American Chemical Society, 2017, 139, 9714-9720.	13.7	168
26	Direct Imaging of a Zero-Field Target Skyrmion and Its Polarity Switch in a Chiral Magnetic Nanodisk. Physical Review Letters, 2017, 119, 197205.	7.8	156
27	Control of morphology and formation of highly geometrically confined magnetic skyrmions. Nature Communications, 2017, 8, 15569.	12.8	103
28	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. Nano Energy, 2016, 27, 167-174.	16.0	40
29	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. Advanced Materials, 2016, 28, 2737-2743.	21.0	54
30	Advanced electron microscopy for thermoelectric materials. Nano Energy, 2015, 13, 626-650.	16.0	80
31	Origin of the High Performance in GeTe-Based Thermoelectric Materials upon Bi₂Te₃ Doping. Journal of the American Chemical Society, 2014, 136, 11412-11419.	13.7	319
32	Broad temperature plateau for thermoelectric figure of merit ZT>2 in phase-separated PbTe0.7S0.3. Nature Communications, 2014, 5, 4515.	12.8	461
33	High Thermoelectric Performance Realized in a BiCuSeO System by Improving Carrier Mobility through 3D Modulation Doping. Journal of the American Chemical Society, 2014, 136, 13902-13908.	13.7	317
34	Structural origin of enhanced critical temperature in ultrafine multilayers of cuprate superconducting films. Physical Review B, 2014, 89, .	3.2	6