Zhe Wang

List of Publications by Year
in descending order

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28 papers	1,896 citations	623734 14 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	2164 citing authors

#	Article	IF	Citations
1	Framelet tensor sparsity with block matching for spectral CT reconstruction. Medical Physics, 2022, , .	3.0	0
2	Multifunctional two-dimensional van der Waals Janus magnet Cr-based dichalcogenide halides. Npj Computational Materials, 2022, 8, .	8.7	17
3	Epitaxial growth and electronic properties of an antiferromagnetic semiconducting VI₂ monolayer. Nanoscale, 2022, 14, 10559-10565.	5.6	5
4	Double-rowed teeth: design specialization of the H. venator ants for enhanced tribological stability. Bioinspiration and Biomimetics, 2021, 16, 055003.	2.9	5
5	Defect-induced ferromagnetism in a Sâ€‰=â€‰1/2 quasi-one-dimensional Heisenberg antiferromagnetic chain compound. Scientific Reports, 2021, 11, 14442.	3.3	3
6	Multi-segment spectral reconstruction via zero-value set prior. Physics in Medicine and Biology, 2021, 66, 185006.	3.0	0
7	Tunable Band Alignments in 2D Ferroelectric Î±-In₂Se₃ Based Van der Waals Heterostructures. ACS Applied Electronic Materials, 2021, 3, 5114-5123.	4.3	19
8	A deep learning-based ring artifact correction method for X-ray CT. Radiation Detection Technology and Methods, 2021, 5, 493-503.	0.8	1
9	Atomic-Scale Visualization of Polar Domain Boundaries in Ferroelectric In₂Se₃ at the Monolayer Limit. Journal of Physical Chemistry Letters, 2021, 12, 11902-11909.	4.6	7
10	Anomalous Linear Layer-Dependent Blue Shift of Ultraviolet-Range Interband Transition in Two-Dimensional MoS₂. Journal of Physical Chemistry C, 2020, 124, 1609-1616.	3.1	1
11	Multi-energy CT reconstruction using tensor nonlocal similarity and spatial sparsity regularization. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1940-1960.	2.0	7
12	Antisymmetric Magnetoresistance in a van der Waals Antiferromagnetic/Ferromagnetic Layered MnPS₃/Fe₃GeTe₂ Stacking Heterostructure. ACS Nano, 2020, 14, 12037-12044.	14.6	52
13	Field-induced tricritical behavior in the NÃ©el-type skyrmion host GaV4S8. Physical Review B, 2020, 102, .	3.2	3
14	Experimental research of the energy bins for K-edge imaging using a photon counting detector: a phantom and mice study. Radiation Detection Technology and Methods, 2020, 4, 303-311.	0.8	5
15	Control of magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MnB</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> using a van der Waals ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:m	3.2	49
16	Multistep nucleation and growth mechanisms of organic crystals from amorphous solid states. Nature Communications, 2019, 10, 3872.	12.8	57
17	Improved projection-based energy weighting for spectral CT. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	2
18	Atomic-Scale Observation of Reversible Thermally Driven Phase Transformation in 2D In₂Se₃. ACS Nano, 2019, 13, 8004-8011.	14.6	57

#	Article	IF	Citations
19	A study on noise reduction for dual-energy CT material decomposition with autoencoder. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	3
20	Two-dimensional ferromagnetic van der Waals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CrC</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> monolayer with enhanced anisotropy and Curie temperature. Physical Review B, 2019, 100, .	3.2	80
21	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In₂Se₃. Nano Letters, 2018, 18, 1253-1258.	9.1	509
22	Surface-adsorbed ions on TiO2 nanosheets for selective photocatalytic CO2 reduction. Nano Research, 2018, 11, 3362-3370.	10.4	44
23	Hydrogen as a source of flux noise in SQUIDs. Physical Review B, 2018, 98, .	3.2	11
24	Phase-Defined van der Waals Schottky Junctions with Significantly Enhanced Thermoelectric Properties. Journal of Physical Chemistry Letters, 2017, 8, 2887-2894.	4.6	30
25	Prediction of intrinsic two-dimensional ferroelectrics in In2Se3 and other III2-VI3 van der Waals materials. Nature Communications, 2017, 8, 14956.	12.8	830
26	The normal modes of lattice vibrations of ice XI. Scientific Reports, 2016, 6, 29273.	3.3	22
27	Photo-spin-voltaic effect. Nature Physics, 2016, 12, 861-866.	16.7	52
28	Spin Orbit Coupling Controlled Spin Pumping and Spin Hall Magnetoresistance Effects. Advanced Electronic Materials, 2016, 2, 1600112.	5.1	25