## Xiaotao Zu

## List of Publications by Year in descending order

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331538 395590 1,206 61 21 33 citations h-index g-index papers 63 63 63 1682 all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	High humidity enhanced surface acoustic wave (SAW) H2S sensors based on sol–gel CuO films. Sensors and Actuators B: Chemical, 2019, 294, 55-61.	4.0	104
2	Quantum corrections to the thermodynamics of Schwarzschild ${\bf \hat{a}} \in {\bf \hat{a}}$ Tangherlini black hole and the generalized uncertainty principle. European Physical Journal C, 2016, 76, 1.	1.4	92
3	Evidencing the existence of exciting half-metallicity in two-dimensional TiCl3 and VCl3 sheets. Scientific Reports, 2016, 6, 19407.	1.6	76
4	NH3 sensing property and mechanisms of quartz surface acoustic wave sensors deposited with SiO2, TiO2, and SiO2-TiO2 composite films. Sensors and Actuators B: Chemical, 2018, 254, 1165-1173.	4.0	56
5	Formation of broadband antireflective and superhydrophilic subwavelength structures on fused silica using one-step self-masking reactive ion etching. Scientific Reports, 2015, 5, 13023.	1.6	52
6	PEDOT coated iron phosphide nanorod arrays as high-performance supercapacitor negative electrodes. Chemical Communications, 2018, 54, 794-797.	2.2	52
7	Ab initio molecular dynamics simulations of ion–solid interactions in Gd2Zr2O7 and Gd2Ti2O7. Journal of Materials Chemistry C, 2013, 1, 1665.	2.7	40
8	Fermion tunneling from anti-de Sitter spaces. European Physical Journal C, 2008, 56, 119-124.	1.4	37
9	Advanced Mitigation Process (AMP) for Improving Laser Damage Threshold of Fused Silica Optics. Scientific Reports, 2016, 6, 31111.	1.6	37
10	A comparative study of the mechanical and thermal properties of defective ZrC, TiC and SiC. Scientific Reports, 2017, 7, 9344.	1.6	34
11	Room-temperature NH3 gas sensors based on Ag-doped γ-Fe2O3/SiO2 composite films with sub-ppm detection ability. Journal of Hazardous Materials, 2015, 298, 154-161.	6.5	33
12	Photoconductive UV Detectors Based on ZnO Films Prepared by Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2005, 36, 223-226.	1.1	32
13	Area spectra of near extremal black holes. European Physical Journal C, 2010, 69, 289-292.	1.4	31
14	Highly sensitive and selective Love mode surface acoustic wave ammonia sensor based on graphene oxides operated at room temperature. Journal of Materials Science, 2019, 54, 11925-11935.	1.7	28
15	Synthesis of FeP nanotube arrays as negative electrode for solid-state asymmetric supercapacitor. Nanotechnology, 2019, 30, 295401.	1.3	27
16	Sputtered ZnO film on aluminium foils for flexible ultrasonic transducers. Ultrasonics, 2014, 54, 1991-1998.	2.1	26
17	Nebulization of water/glycerol droplets generated by ZnO/Si surface acoustic wave devices. Microfluidics and Nanofluidics, 2015, 19, 273-282.	1.0	24
18	Vertical jetting induced by shear horizontal leaky surface acoustic wave on $36 \hat{A}^\circ$ Y-X LiTaO3. Applied Physics Letters, 2017, 110, .	1.5	24

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19	Elastic loading enhanced NH3 sensing for surface acoustic wave sensor with highly porous nitrogen doped diamond like carbon film. Sensors and Actuators B: Chemical, 2021, 344, 130175.	4.0	22
20	Hawking radiation of vector particles via tunneling from 4-dimensional and 5-dimensional black holes. Astrophysics and Space Science, 2015, 359, 1.	0.5	21
21	Ab initio molecular dynamics simulation of the effects of stacking faults on the radiation response of 3C-SiC. Scientific Reports, 2016, 6, 20669.	1.6	21
22	Electronic excitation induced amorphization in titanate pyrochlores: an ab initio molecular dynamics study. Scientific Reports, 2015, 5, 8265.	1.6	20
23	Ultraviolet Laser-induced ignition of RDX single crystal. Scientific Reports, 2016, 6, 20251.	1.6	20
24	Influence of outgassing organic contamination on the transmittance and laserâ€induced damage of SiO 2 solâ€gel antireflection film. Optical Engineering, 2015, 54, 126101.	0.5	18
25	Theoretical prediction of long-range ferromagnetism in transition-metal atom-doped d <sup>0</sup> dichalcogenide single layers SnS <sub>2</sub> and ZrS <sub>2</sub> . Physical Chemistry Chemical Physics, 2016, 18, 25151-25160.	1.3	18
26	Enhancement of microfluidic efficiency with nanocrystalline diamond interlayer in the ZnO-based surface acoustic wave device. Microfluidics and Nanofluidics, 2013, 15, 377-386.	1.0	17
27	Room-Temperature Ammonia Sensor Based on ZnO Nanorods Deposited on ST-Cut Quartz Surface Acoustic Wave Devices. Sensors, 2017, 17, 1142.	2.1	17
28	Effect of carbon and sintering temperature on the structural and magnetic properties of SrFe12O19 nanoparticles. Journal of Sol-Gel Science and Technology, 2015, 73, 371-378.	1.1	16
29	Engineering the electronic and magnetic properties of d <sup>0</sup> 2D dichalcogenide materials through vacancy doping and lattice strains. Physical Chemistry Chemical Physics, 2016, 18, 7163-7168.	1.3	16
30	Effects of surface defects on two-dimensional electron gas at NdAlO3/SrTiO3 interface. Scientific Reports, 2014, 4, 5477.	1.6	15
31	Chelating agents role on phase formation and surface morphology of single orthorhombic YMn2O5 nanorods via modified polyacrylamide gel route. Science China Chemistry, 2014, 57, 402-408.	4.2	14
32	Laser-Induced Damage Initiation and Growth of Optical Materials. Advances in Condensed Matter Physics, 2014, 2014, 1-10.	0.4	13
33	Synthesis and Photoluminescence of î³-Al <sub>2</sub> O <sub>3</sub> and C-doped î³-Al <sub>2</sub> O <sub>3</sub> Powders. Transactions of the Indian Ceramic Society, 2014, 73, 37-42.	0.4	13
34	Oxygen Vacancy Dependence of Magnetic Behavior in the LaAlO 3 /SrTiO 3 Heterostructures. Advanced Materials Interfaces, 2016, 3, 1600547.	1.9	13
35	Strong Gravitational Lensing in a Brane-World Black Hole. International Journal of Theoretical Physics, 2015, 54, 3103-3114.	0.5	12
36	Spontaneous ripple formation in phosphorene: electronic properties and possible applications. Nanoscale, 2016, 8, 11827-11833.	2.8	11

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37	Ab initio molecular dynamics simulation of low energy radiation responses of α-Al2O3. Scientific Reports, 2017, 7, 3621.	1.6	11
38	Bulk damage and stress behavior of fused silica irradiated by nanosecond laser. Optical Engineering, 2014, 53, 047103.	0.5	9
39	Quantitative correlation between facets defects of RDX crystals and their laser sensitivity. Journal of Hazardous Materials, 2016, 313, 103-111.	6.5	9
40	Evidencing the existence of intrinsic half-metallicity and ferromagnetism in zigzag gallium sulfide nanoribbons. Scientific Reports, 2014, 4, 5773.	1.6	8
41	Tunable electronic and magnetic properties of arsenene nanoribbons. RSC Advances, 2017, 7, 51935-51943.	1.7	8
42	Dehydrogenation: a simple route to modulate magnetism and spatial charge distribution of germanane. Journal of Materials Chemistry C, 2015, 3, 3128-3134.	2.7	7
43	Deformed Hamilton-Jacobi Equations and the Tunneling Radiation of the Higher-Dimensional RN-(A)dS Black Hole. International Journal of Theoretical Physics, 2016, 55, 3079-3087.	0.5	6
44	Defect induced charge trapping in C-doped α-Al2O3. Journal of Applied Physics, 2017, 122, 025702.	1.1	6
45	Effect of UV Laser Conditioning on the Structure of KDP Crystal. Advances in Condensed Matter Physics, 2014, 2014, 1-7.	0.4	5
46	Ab initio study of structural and mechanical property of solid molecular hydrogens. European Physical Journal B, 2015, 88, 1.	0.6	5
47	Scratch defects modulated hot spots generation in laser irradiated RDX crystals: a 3D FDTD simulation. Journal of Materials Science, 2016, 51, 8812-8823.	1.7	4
48	Influence of Ambient Temperature on Nanosecond and Picosecond Laser-Induced Bulk Damage of Fused Silica. Advances in Condensed Matter Physics, 2014, 2014, 1-7.	0.4	3
49	Theory of suppressing avalanche process of carrier in short pulse laser irradiated dielectrics. Journal of Applied Physics, 2014, 115, 203112.	1.1	3
50	Strong Gravitational Lensing in the Einstein-Proca Theory. International Journal of Theoretical Physics, 2015, 54, 1245-1252.	0.5	3
51	Scratch Types and Damage Thresholds of Fused Silica. , 2010, , .		2
52	Ab initio calculations of mechanical properties in $\hat{l}^2$ -MH2 $\hat{a}^2$ xHex (M = Er, Sc). European Physical Journal B, 2014, 87, 1.	0.6	2
53	Remnants by fermions' tunneling from a Hořava–Lifshitz black hole. Modern Physics Letters A, 2015, 30, 1550016.	0.5	2
54	Modified tunneling radiation of the scalar particles and Dirac particles from a five-dimensional black hole. Modern Physics Letters A, 2016, 31, 1650022.	0.5	2

#	Article	IF	CITATIONS
55	DFT study of hydrogen and helium defects at the (112Ì,,1) twin boundary in hcp scandium. International Journal of Modern Physics B, 2017, 31, 1750080.	1.0	2
56	Modified Fermions Tunneling Radiation from Nonstationary, Axially Symmetric Kerr Black Hole. Advances in High Energy Physics, 2019, 2019, 1-7.	0.5	2
57	Low Cost Microstrip Subharmonic Mixer in Millimeter Wave Band., 2007, , .		1
58	Modeling of Surface Damage Mitigation in Fused Silica With Carbon Dioxide Laser. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.1	1
59	Ab initio study of intrinsic defects and diffusion behaviors in solid molecular hydrogens. European Physical Journal B, 2015, 88, 1.	0.6	1
60	Precipitates of Cr at $\hat{i}$ £3 <110> {112} GB in $\hat{i}$ ±-Fe. Materials Research Society Symposia Proceedings, 2014, 1645, 1.	0.1	0
61	He+ Irradiation Induced Cracking and Exfoliating on the Surface of Ti3AlC2. Microscopy and Microanalysis, 2017, 23, 2232-2233.	0.2	0