

Yi-Chao Zou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4393162/publications.pdf>

Version: 2024-02-01

39
papers

2,210
citations

331670

21
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

3632
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing zT of 2.3 in $\text{Ge}_{1-x}\text{Sb}_x\text{In}_y\text{Te}_{316}$ via Reducing the Phase Transition Temperature and Introducing Resonant Energy Doping. <i>Advanced Materials</i> , 2018, 30, 1705942.	21.0	316
2	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	31.5	245
3	High-performance thermoelectric Cu_2Se nanoplates through nanostructure engineering. <i>Nano Energy</i> , 2015, 16, 367-374.	16.0	218
4	Wafer-scale two-dimensional ferromagnetic Fe_3GeTe_2 thin films grown by molecular beam epitaxy. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	157
5	Arrayed van der Waals Vertical Heterostructures Based on 2D GaSe Grown by Molecular Beam Epitaxy. <i>Nano Letters</i> , 2015, 15, 3571-3577.	9.1	146
6	Achieving $zT > 2$ in $\text{AgSbTe}_{2-x}\text{Se}_x$ Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. <i>Advanced Energy Materials</i> , 2018, 8, 1702333.	19.5	143
7	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. <i>Nano Energy</i> , 2017, 31, 105-112.	16.0	113
8	Enhancing the thermoelectric performance of $\text{SnSe}_{1-x}\text{Te}_x$ nanoplates through band engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10713-10721.	10.3	94
9	Controlling Reaction Selectivity over Hybrid Plasmonic Nanocatalysts. <i>Nano Letters</i> , 2018, 18, 7289-7297.	9.1	92
10	Ultrahigh conductivity in Weyl semimetal NbAs nanobelts. <i>Nature Materials</i> , 2019, 18, 482-488.	27.5	68
11	Stacking Order in Graphite Films Controlled by van der Waals Technology. <i>Nano Letters</i> , 2019, 19, 8526-8532.	9.1	54
12	Laser irradiated vortex fluidic mediated synthesis of luminescent carbon nanodots under continuous flow. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 164-170.	3.7	44
13	Nonreciprocal superconducting NbSe_2 antenna. <i>Nature Communications</i> , 2020, 11, 5634.	12.8	43
14	Scalable Growth of High Mobility Dirac Semimetal Cd_3As_2 Microbelts. <i>Nano Letters</i> , 2015, 15, 5830-5834.	9.1	41
15	Wafer-scale arrayed p-n junctions based on few-layer epitaxial GaTe. <i>Nano Research</i> , 2015, 8, 3332-3341.	10.4	41
16	Ion exchange in atomically thin clays and micas. <i>Nature Materials</i> , 2021, 20, 1677-1682.	27.5	40
17	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , 2020, 11, 125.	12.8	33
18	Laser-Ablated Vortex Fluidic-Mediated Synthesis of Superparamagnetic Magnetite Nanoparticles in Water Under Flow. <i>ACS Omega</i> , 2018, 3, 11172-11178.	3.5	28

#	ARTICLE	IF	CITATIONS
19	Anisotropic Electrical Properties from Vapor-grown Solid Grown Bi ₂ Se ₃ Nanoribbons and Nanowires. Journal of Physical Chemistry C, 2014, 118, 20620-20626.	3.1	25
20	Enhanced Superconductivity in Few-Layer TaS ₂ due to Healing by Oxygenation. Nano Letters, 2020, 20, 3808-3818.	9.1	23
21	Morphological control of SnTe nanostructures by tuning catalyst composition. Nano Research, 2015, 8, 3011-3019.	10.4	22
22	Planar Vacancies in Sn _{1-x} Bi _x Te Nanoribbons. ACS Nano, 2016, 10, 5507-5515.	14.6	21
23	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. Nature Communications, 2018, 9, 4656.	12.8	21
24	Vortex fluidic mediated transformation of graphite into highly conducting graphene scrolls. Nanoscale Advances, 2019, 1, 2495-2501.	4.6	21
25	Superconductivity and magnetotransport of single-crystalline NbSe ₂ nanoplates grown by chemical vapour deposition. Nanoscale, 2017, 9, 16591-16595.	5.6	17
26	Atomic disorders in layer structured topological insulator SnBi ₂ Te ₄ nanoplates. Nano Research, 2018, 11, 696-706.	10.4	16
27	In ₃ Se ₄ and S-doped In ₃ Se ₄ nano/micro-structures as new anode materials for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 7560-7567.	10.3	15
28	Surface-energy engineered Bi-doped SnTe nanoribbons with weak antilocalization effect and linear magnetoresistance. Nanoscale, 2016, 8, 19383-19389.	5.6	15
29	A graphene/TiS ₃ heterojunction for resistive sensing of polar vapors at room temperature. Mikrochimica Acta, 2020, 187, 117.	5.0	14
30	Atomic Insights into Phase Evolution in Ternary Transition-Metal Dichalcogenides Nanostructures. Small, 2018, 14, e1800780.	10.0	13
31	Atomic Resolution Imaging of CrBr ₃ Using Adhesion-Enhanced Grids. Nano Letters, 2020, 20, 6582-6589.	9.1	13
32	Long wavelength emissions of Se ⁴⁺ -doped In ₂ O ₃ hierarchical nanostructures. Journal of Materials Chemistry C, 2014, 2, 6529.	5.5	10
33	Vapour-solid growth of Mo _x W _{1-x} Te ₂ nanobelts by a facile chemical vapour deposition method. Journal of Alloys and Compounds, 2019, 777, 926-930.	5.5	10
34	Continuous flow synthesis of phosphate binding h-BN@magnetite hybrid material. RSC Advances, 2018, 8, 40829-40835.	3.6	9
35	Nanometre imaging of Fe ₃ GeTe ₂ ferromagnetic domain walls. Nanotechnology, 2021, 32, 205703.	2.6	6
36	Au-catalyzed and catalyst-free growth of one-dimensional Bi ₂ Se ₃ nanostructures. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Magnetic-Field-Induced Re-entrance of Superconductivity in Ta ₂ PdS ₅ Nanostrips. Nano Letters, 2021, 21, 288-297.	9.1	3
38	Holographic reconstruction of the interlayer distance of bilayer two-dimensional crystal samples from their convergent beam electron diffraction patterns. Ultramicroscopy, 2020, 219, 113020.	1.9	2
39	Twist and Bend in Van Der Waals Materials and 2D Stacked Heterostructures. Microscopy and Microanalysis, 2020, 26, 856-858.	0.4	0