

Yi Zheng

List of Publications by Year in descending order

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58
papers

11,783
citations

185998

28
h-index

138251

58
g-index

62
all docs

62
docs citations

62
times ranked

18291
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Self-Passivation of Single Vacancy in Black Phosphorus via Ionization. <i>Physical Review Letters</i> , 2022, 128, 176801.	2.9	4
2	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite SrIrO ₃ films. <i>Science Bulletin</i> , 2021, 66, 433-440.	4.3	6
3	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. <i>Chemical Science</i> , 2021, 12, 11659-11667.	3.7	9
4	Rashba valleys and quantum Hall states in few-layer black arsenic. <i>Nature</i> , 2021, 593, 56-60.	13.7	30
5	Strong Coupled Magnetic and Electric Ordering in Monolayer of Metal Thio(seleno)phosphates. <i>Chinese Physics Letters</i> , 2021, 38, 077501.	1.3	15
6	Tunable Topological Energy Bands in 2D Dialkali Metal Monoxides. <i>Advanced Science</i> , 2020, 7, 1901939.	5.6	34
7	Magnetic Structure and Metamagnetic Transitions in the van der Waals Antiferromagnet CrPS ₄ . <i>Advanced Materials</i> , 2020, 32, e2001200.	11.1	60
8	High yield electrochemical exfoliation synthesis of tin selenide quantum dots for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23958-23963.	5.2	26
9	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. <i>Nano Letters</i> , 2019, 19, 4126-4133.	4.5	22
10	Bioinspired Shear-Flow-Driven Layer-by-Layer <i>in Situ</i> Self-Assembly. <i>ACS Nano</i> , 2019, 13, 1910-1922.	7.3	10
11	Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \text{stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{PbSe} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf}$		

#	ARTICLE	IF	CITATIONS
19	Bulk and surface electronic structure of hexagonal structured PtBi_2 by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2016, 94, .		
20	Chemical Vapor Deposition of Large-Sized Hexagonal WSe_2 Crystals on Dielectric Substrates. <i>Advanced Materials</i> , 2015, 27, 6722-6727.	11.1	152
21	Establishment and characterization of a fish cell line from the brain of Japanese flounder <i>Paralichthys olivaceus</i> . <i>Journal of Fish Biology</i> , 2015, 87, 115-122.	0.7	23
22	Quantum Mechanical Rippling of a MoS_2 Controlled by Interlayer Bilayer Coupling. <i>Physical Review Letters</i> , 2015, 114, 065501.	2.9	20
23	Achieving 360% H_2 Hydrogen Production Rate Through 30-Cell Solid Oxide Electrolysis Stack with LSCF-GDC Composite Oxygen Electrode. <i>Fuel Cells</i> , 2014, 14, 1066-1070.	1.5	8
24	Quasi-Freestanding Graphene on Single Walled Carbon Nanotube Electrode for Applications in Organic Light-Emitting Diode. <i>Small</i> , 2014, 10, 944-949.	5.2	25
25	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. <i>Nature Communications</i> , 2014, 5, 5461.	5.8	83
26	Data analysis method to achieve sub-10-nm spatial resolution using extended X-ray absorption fine-structure spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 756-761.	1.0	11
27	Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. <i>Scientific Reports</i> , 2014, 4, 4588.	1.6	188
28	Step Flow Versus Mosaic Film Growth in Hexagonal Boron Nitride. <i>Journal of the American Chemical Society</i> , 2013, 135, 2368-2373.	6.6	89
29	Direct Desktop Printed-Circuits-on-Paper Flexible Electronics. <i>Scientific Reports</i> , 2013, 3, .	1.6	295
30	Room-Temperature Ice Growth on Graphite Seeded by Nano-Graphene Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8708-8712.	7.2	46
31	Pervasive liquid metal based direct writing electronics with roller-ball pen. <i>AIP Advances</i> , 2013, 3, .	0.6	100
32	Innenrötitelbild: Room-Temperature Ice Growth on Graphite Seeded by Nano-Graphene Oxide (Angew.) Tj ETQq0,0 0 rgBj /Overlock	1.6	0
33	Quasi-Periodic Nanoripples in Graphene Grown by Chemical Vapor Deposition and Its Impact on Charge Transport. <i>ACS Nano</i> , 2012, 6, 1158-1164.	7.3	129
34	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. <i>Nature Communications</i> , 2012, 3, 1298.	5.8	538
35	Graphene: Growing Suspended Graphene on C_{60} Molecules (Small 24/2012). <i>Small</i> , 2012, 8, 3727-3727.	5.2	0
36	Growing Suspended Graphene on C_{60} Molecules. <i>Small</i> , 2012, 8, 3728-3732.	5.2	10

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37	Direct writing of electronics based on alloy and metal (DREAM) ink: A newly emerging area and its impact on energy, environment and health sciences. <i>Frontiers in Energy</i> , 2012, 6, 311-340.	1.2	87
38	Graphene-Ferroelectric Hybrid Structure for Flexible Transparent Electrodes. <i>ACS Nano</i> , 2012, 6, 3935-3942.	7.3	167
39	Using the Graphene Moiré Pattern for the Trapping of C ₆₀ and Homoepitaxy of Graphene. <i>ACS Nano</i> , 2012, 6, 944-950.	7.3	54
40	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. <i>ACS Nano</i> , 2011, 5, 9927-9933.	7.3	529
41	Wafer-scale graphene/ferroelectric hybrid devices for low-voltage electronics. <i>Europhysics Letters</i> , 2011, 93, 17002.	0.7	74
42	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. <i>Nano Letters</i> , 2011, 11, 2363-2368.	4.5	214
43	Graphene Intermediate Layer in Tandem Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2011, 21, 4430-4435.	7.8	57
44	A new route to graphene layers by selective laser ablation. <i>AIP Advances</i> , 2011, 1, .	0.6	56
45	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 574-578.	15.6	7,294
46	Graphene Field-Effect Transistors with Ferroelectric Gating. <i>Physical Review Letters</i> , 2010, 105, 166602.	2.9	202
47	Structural Analysis of Pentacene Thin Film Growth on Polycrystalline Ox [~] Au Surfaces Using Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2010, 4, 2104-2108.	7.3	7
48	Gate-controlled nonvolatile graphene-ferroelectric memory. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	234
49	Temperature-dependent transition from injection-limited to space-charge-limited current in metal-organic diodes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	9
50	Localized breakdown in dielectrics and macroscopic charge transport through the whole gate stack: A comparative study. <i>Applied Physics Letters</i> , 2008, 92, 012914.	1.5	2
51	Hot electron transport in Au-HfO ₂ -SiO ₂ -Si structures studied by ballistic electron emission spectroscopy. <i>Applied Physics Letters</i> , 2007, 90, 142915.	1.5	10
52	BEEM studies on metal highK-dielectric HfO ₂ interfaces. <i>Journal of Physics: Conference Series</i> , 2007, 61, 1347-1351.	0.3	8
53	Effect of Molecule-Substrate Interaction on Thin-Film Structures and Molecular Orientation of Pentacene on Silver and Gold. <i>Langmuir</i> , 2007, 23, 8336-8342.	1.6	47
54	Possible transition from space-charge-limited to injection-limited conduction in poly(3-hexylthiophene) thin films. <i>Applied Surface Science</i> , 2006, 252, 4023-4025.	3.1	3

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55	Stable, Superhydrophobic, and Conductive Polyaniline/Polystyrene Films for Corrosive Environments. <i>Advanced Functional Materials</i> , 2006, 16, 568-574.	7.8	318
56	Study of high temperature resistivity and thermal stability of superconductor MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2003, 386, 663-666.	0.6	14
57	The magnetoresistance of the quasi-one-dimensional conductor NbSe ₃ . <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5353-5358.	0.7	14
58	Asymmetric modulation of the transverse current effect of charge-density wave in the blue bronze K _{0.3} MoO ₃ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 305, 433-436.	0.9	4