

Yi Zheng

List of Publications by Year in descending order

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58

papers

11,783

citations

186265

28

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138484

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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. Physical Review Letters, 2022, 128, 176801.	7.8	4
2	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite SrIrO ₃ films. Science Bulletin, 2021, 66, 433-440.	9.0	6
3	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. Chemical Science, 2021, 12, 11659-11667.	7.4	9
4	Rashba valleys and quantum Hall states in few-layer black arsenic. Nature, 2021, 593, 56-60.	27.8	30
5	Strong Coupled Magnetic and Electric Ordering in Monolayer of Metal Thio(seleno)phosphates. Chinese Physics Letters, 2021, 38, 077501.	3.3	15
6	Tunable Topological Energy Bands in 2D Dialkali-Metal Monoxides. Advanced Science, 2020, 7, 1901939.	11.2	34
7	Magnetic Structure and Metamagnetic Transitions in the van der Waals Antiferromagnet CrPS ₄ . Advanced Materials, 2020, 32, e2001200.	21.0	60
8	High yield electrochemical exfoliation synthesis of tin selenide quantum dots for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 23958-23963.	10.3	26
9	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. Nano Letters, 2019, 19, 4126-4133.	9.1	22
10	Bioinspired Shear-Flow-Driven Layer-by-Layer <i>in Situ</i> Self-Assembly. ACS Nano, 2019, 13, 1910-1922.	14.6	10
11	Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures. $\text{PbSe} \times \text{MoS}_2$	10.784314	rgBT /Overlock 10 Tf

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19	Bulk and surface electronic structure of hexagonal structured PtBi_2 by angle-resolved photoemission spectroscopy. Physical Review B, 2016, 94, .		
20	Chemical Vapor Deposition of Large-sized Hexagonal WSe ₂ Crystals on Dielectric Substrates. Advanced Materials, 2015, 27, 6722-6727.	21.0	152
21	Establishment and characterization of a fish-cell line from the brain of Japanese flounder (<i>Paralichthys olivaceus</i>). Journal of Fish Biology, 2015, 87, 115-122.	1.6	23
22	Quantum Mechanical Rippling of a MoS ₂ Bilayer Controlled by Interlayer Bilayer Coupling. Physical Review Letters, 2015, 114, 065501.		
23	Achieving 360‰ Hydrogen Production Rate Through 30-Cell Solid Oxide Electrolysis Stack with LSCF-GDC Composite Oxygen Electrode. Fuel Cells, 2014, 14, 1066-1070.	2.4	8
24	â€œQuasiâ€¢Freestandingâ€¢Grapheneâ€¢onâ€¢Single Walled Carbon Nanotube Electrode for Applications in Organic Lightâ€¢emitting Diode. Small, 2014, 10, 944-949.	10.0	25
25	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. Nature Communications, 2014, 5, 5461.	12.8	83
26	Data analysis method to achieve sub-10...pm spatial resolution using extended X-ray absorption fine-structure spectroscopy. Journal of Synchrotron Radiation, 2014, 21, 756-761.	2.4	11
27	Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. Scientific Reports, 2014, 4, 4588.	3.3	188
28	Step Flow Versus Mosaic Film Growth in Hexagonal Boron Nitride. Journal of the American Chemical Society, 2013, 135, 2368-2373.	13.7	89
29	Direct Desktop Printed-Circuits-on-Paper Flexible Electronics. Scientific Reports, 2013, 3, .	3.3	295
30	Room-temperature Ice Growth on Graphite Seeded by Nano-Graphene Oxide. Angewandte Chemie - International Edition, 2013, 52, 8708-8712.	13.8	46
31	Pervasive liquid metal based direct writing electronics with roller-ball pen. AIP Advances, 2013, 3, .	1.3	100
32	InnenrÃ¼cktitelbild: Room-Temperature Ice Growth on Graphite Seeded by Nano-Graphene Oxide (Angew.) Tj ETQq0.0 0 rgBT ₀ /Overlock		
33	Quasi-Periodic Nanoripples in Graphene Grown by Chemical Vapor Deposition and Its Impact on Charge Transport. ACS Nano, 2012, 6, 1158-1164.	14.6	129
34	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. Nature Communications, 2012, 3, 1298.	12.8	538
35	Graphene: Growing Suspended Graphene on C ₆₀ Molecules (Small 24/2012). Small, 2012, 8, 3727-3727.	10.0	0
36	Growing Suspended Graphene on C ₆₀ Molecules. Small, 2012, 8, 3728-3732.	10.0	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.	2.3	87
38	Grapheneâ€“Ferroelectric Hybrid Structure for Flexible Transparent Electrodes. <i>ACS Nano</i> , 2012, 6, 3935-3942.	14.6	167
39	Using the Graphene MoirÃ© Pattern for the Trapping of C ₆₀ and Homoepitaxy of Graphene. <i>ACS Nano</i> , 2012, 6, 944-950.	14.6	54
40	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. <i>ACS Nano</i> , 2011, 5, 9927-9933.	14.6	529
41	Wafer-scale graphene/ferroelectric hybrid devices for low-voltage electronics. <i>Europhysics Letters</i> , 2011, 93, 17002.	2.0	74
42	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. <i>Nano Letters</i> , 2011, 11, 2363-2368.	9.1	214
43	Graphene Intermediate Layer in Tandem Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2011, 21, 4430-4435.	14.9	57
44	A new route to graphene layers by selective laser ablation. <i>ALP Advances</i> , 2011, 1, .	1.3	56
45	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 574-578.	31.5	7,294
46	Graphene Field-Effect Transistors with Ferroelectric Gating. <i>Physical Review Letters</i> , 2010, 105, 166602.	7.8	202
47	Structural Analysis of Pentacene Thin Film Growth on Polycrystalline Oxâ˜Au Surfaces Using Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2010, 4, 2104-2108.	14.6	7
48	Gate-controlled nonvolatile graphene-ferroelectric memory. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	234
49	Temperature-dependent transition from injection-limited to space-charge-limited current in metal-organic diodes. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	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.	3.3	2
51	Hot electron transport in Auâ€“HfO ₂ â€“SiO ₂ â€“Si structures studied by ballistic electron emission spectroscopy. <i>Applied Physics Letters</i> , 2007, 90, 142915.	3.3	10
52	BEEM studies on metal highK-dielectric HfO ₂ interfaces. <i>Journal of Physics: Conference Series</i> , 2007, 61, 1347-1351.	0.4	8
53	Effect of Moleculeâ˜Substrate Interaction on Thin-Film Structures and Molecular Orientation of Pentacene on Silver and Gold. <i>Langmuir</i> , 2007, 23, 8336-8342.	3.5	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.	6.1	3

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55	Stable, Superhydrophobic, and Conductive Polyaniline/Polystyrene Films for Corrosive Environments. Advanced Functional Materials, 2006, 16, 568-574.	14.9	318
56	Study of high temperature resistivity and thermal stability of superconductor MgB ₂ . Physica C: Superconductivity and Its Applications, 2003, 386, 663-666.	1.2	14
57	The magnetoresistance of the quasi-one-dimensional conductor NbSe ₃ . Journal of Physics Condensed Matter, 2003, 15, 5353-5358.	1.8	14
58	Asymmetric modulation of the transverse current effect of charge-density wave in the blue bronze K _{0.3} MoO ₃ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 433-436.	2.1	4