Yi Zheng

List of Publications by Year in descending order

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58	11,783	185998 28	138251 58
papers	citations	h-index	g-index

62	62	62	18291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roll-to-roll production of 30-inch graphene films for transparent electrodes. Nature Nanotechnology, 2010, 5, 574-578.	15.6	7,294
2	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. Nature Communications, 2012, 3, 1298.	5.8	538
3	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. ACS Nano, 2011, 5, 9927-9933.	7.3	529
4	Stable, Superhydrophobic, and Conductive Polyaniline/Polystyrene Films for Corrosive Environments. Advanced Functional Materials, 2006, 16, 568-574.	7.8	318
5	Direct Desktop Printed-Circuits-on-Paper Flexible Electronics. Scientific Reports, 2013, 3, .	1.6	295
6	Gate-controlled nonvolatile graphene-ferroelectric memory. Applied Physics Letters, 2009, 94, .	1.5	234
7	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. Nano Letters, 2011, 11, 2363-2368.	4.5	214
8	Graphene Field-Effect Transistors with Ferroelectric Gating. Physical Review Letters, 2010, 105, 166602.	2.9	202
9	Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. Scientific Reports, 2014, 4, 4588.	1.6	188
10	Helicity-protected ultrahigh mobility Weyl fermions in NbP. Physical Review B, 2016, 93, .	1.1	168
11	Grapheneâ€“Ferroelectric Hybrid Structure for Flexible Transparent Electrodes. ACS Nano, 2012, 6, 3935-3942.	7.3	167
12	Chemical Vapor Deposition of Largeâ€Sized Hexagonal WSe₂ Crystals on Dielectric Substrates. Advanced Materials, 2015, 27, 6722-6727.	11.1	152
13	Quasi-Periodic Nanoripples in Graphene Grown by Chemical Vapor Deposition and Its Impact on Charge Transport. ACS Nano, 2012, 6, 1158-1164.	7.3	129
14	Pervasive liquid metal based direct writing electronics with roller-ball pen. AIP Advances, 2013, 3, .	0.6	100
15	Defects controlled hole doping and multivalley transport in SnSe single crystals. Nature Communications, 2018, 9, 47.	5.8	95
16	Step Flow Versus Mosaic Film Growth in Hexagonal Boron Nitride. Journal of the American Chemical Society, 2013, 135, 2368-2373.	6.6	89
17	Direct writing of electronics based on alloy and metal (DREAM) ink: A newly emerging area and its impact on energy, environment and health sciences. Frontiers in Energy, 2012, 6, 311-340.	1.2	87
18	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. Nature Communications, 2014, 5, 5461.	5.8	83

#	Article	IF	Citations
19	Wafer-scale graphene/ferroelectric hybrid devices for low-voltage electronics. Europhysics Letters, 2011, 93, 17002.	0.7	74
20	Negative magnetoresistance in Weyl semimetals NbAs and NbP: Intrinsic chiral anomaly and extrinsic effects. Frontiers of Physics, 2017, 12, 1.	2.4	64
21	Magnetic Structure and Metamagnetic Transitions in the van der Waals Antiferromagnet CrPS₄. Advanced Materials, 2020, 32, e2001200.	11.1	60
22	Graphene Intermediate Layer in Tandem Organic Photovoltaic Cells. Advanced Functional Materials, 2011, 21, 4430-4435.	7.8	57
23	A new route to graphene layers by selective laser ablation. AIP Advances, 2011, 1, .	0.6	56
24	Using the Graphene MoirÃ© Pattern for the Trapping of C₆₀ and Homoepitaxy of Graphene. ACS Nano, 2012, 6, 944-950.	7.3	54
25	Effect of Moleculeâ^'Substrate Interaction on Thin-Film Structures and Molecular Orientation of Pentacene on Silver and Gold. Langmuir, 2007, 23, 8336-8342.	1.6	47
26	Roomâ€Temperature Ice Growth on Graphite Seeded by Nanoâ€Graphene Oxide. Angewandte Chemie - International Edition, 2013, 52, 8708-8712.	7.2	46
27	Tunable Topological Energy Bands in 2D Dialkaliâ€Metal Monoxides. Advanced Science, 2020, 7, 1901939.	5.6	34
28	Rashba valleys and quantum Hall states in few-layer black arsenic. Nature, 2021, 593, 56-60.	13.7	30
29	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.	5.2	26
30	â€œQuasiâ€freestandingâ€•Grapheneâ€onâ€Single Walled Carbon Nanotube Electrode for Applications in Organic Lightâ€emitting Diode. Small, 2014, 10, 944-949.	5.2	25
31	Giant linear magneto-resistance in nonmagnetic PtBi2. Applied Physics Letters, 2016, 108, .	1.5	25
32	Pressure-induced superconductivity in topological semimetal NbAs2. Npj Quantum Materials, 2018, 3, .	1.8	25
33	Establishment and characterization of a fishâ€cell line from the brain of Japanese flounder Paralichthys olivaceus. Journal of Fish Biology, 2015, 87, 115-122.	0.7	23
34	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. Nano Letters, 2019, 19, 4126-4133.	4.5	22
35	Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>PbSe</mml:mi><mml:msub><mml:mrow><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf		

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37	Bulk and surface electronic structure of hexagonal structured<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mm by angle-resolved photoemission spectroscopy. Physical Review B, 2016, 94, .	1.1	15
38	Dialkali-Metal Monochalcogenide Semiconductors with High Mobility and Tunable Magnetism. Journal of Physical Chemistry Letters, 2018, 9, 6695-6701.	2.1	17
39	Strong Coupled Magnetic and Electric Ordering in Monolayer of Metal Thio(seleno)phosphates. Chinese Physics Letters, 2021, 38, 077501.	1.3	15
40	Study of high temperature resistivity and thermal stability of superconductor MgB2. Physica C: Superconductivity and Its Applications, 2003, 386, 663-666.	0.6	14
41	The magnetoresistance of the quasi-one-dimensional conductor NbSe3. Journal of Physics Condensed Matter, 2003, 15, 5353-5358.	0.7	14
42	Data analysis method to achieve sub-10â€...pm spatialÂresolution using extended X-ray absorption fine-structure spectroscopy. Journal of Synchrotron Radiation, 2014, 21, 756-761.	1.0	11
43	Hot electron transport in Auâ€“HfO2â€“SiO2â€“Si structures studied by ballistic electron emission spectroscopy. Applied Physics Letters, 2007, 90, 142915.	1.5	10
44	Growing Suspended Graphene on C₆₀ Molecules. Small, 2012, 8, 3728-3732.	5.2	10
45	Bioinspired Shear-Flow-Driven Layer-by-Layer in Situ Self-Assembly. ACS Nano, 2019, 13, 1910-1922.	7.3	10
46	Temperature-dependent transition from injection-limited to space-charge-limited current in metal-organic diodes. Applied Physics Letters, 2009, 95, .	1.5	9
47	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. Chemical Science, 2021, 12, 11659-11667.	3.7	9
48	BEEM studies on metal highK-dielectric HfO2interfaces. Journal of Physics: Conference Series, 2007, 61, 1347-1351.	0.3	8
49	Achieving 360â€‰NLâ€‰h^{â^'1} Hydrogen Production Rate Through 30â€Cell Solid Oxide Electrolysis Stack with LSCFâ€“GDC Composite Oxygen Electrode. Fuel Cells, 2014, 14, 1066-1070.	1.5	8
50	Structural Analysis of Pentacene Thin Film Growth on Polycrystalline Oxâ^'Au Surfaces Using Scanning Tunneling Microscopy. ACS Nano, 2010, 4, 2104-2108.	7.3	7
51	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite SrIrO3 films. Science Bulletin, 2021, 66, 433-440.	4.3	6
52	Asymmetric modulation of the transverse current effect of charge-density wave in the blue bronze K0.3MoO3. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 433-436.	0.9	4
53	Reactive molecular beam epitaxial growth and in situ photoemission spectroscopy study of iridate superlattices. AIP Advances, 2017, 7, .	0.6	4
54	Electronic Self-Passivation of Single Vacancy in Black Phosphorus via Ionization. Physical Review Letters, 2022, 128, 176801.	2.9	4

#	Article	IF	Citations
55	Possible transition from space-charge-limited to injection-limited conduction in poly(3-hexylthiophene) thin films. Applied Surface Science, 2006, 252, 4023-4025.	3.1	3
56	Localized breakdown in dielectrics and macroscopic charge transport through the whole gate stack: A comparative study. Applied Physics Letters, 2008, 92, 012914.	1.5	2
57	Graphene: Growing Suspended Graphene on C₆₀ Molecules (Small 24/2012). Small, 2012, 8, 3727-3727.	5.2	0
58	InnenrÃ¼cktitelbild: Room-Temperature Ice Growth on Graphite Seeded by Nano-Graphene Oxide (Angew.) Tj ETQq0 0 0 rgBT /Overlock	1.6	0