

Kai-Ge Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

3,605
citations

394421

19
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

7063
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. <i>Nanotechnology</i> , 2009, 20, 185504.	2.6	913
2	A Mixed-Solvent Strategy for Efficient Exfoliation of Inorganic Graphene Analogues. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10839-10842.	13.8	801
3	Electrically controlled water permeation through graphene oxide membranes. <i>Nature</i> , 2018, 559, 236-240.	27.8	263
4	High and Balanced Hole and Electron Mobilities from Ambipolar Thin-Film Transistors Based on Nitrogen-Containing Oligoacenes. <i>Journal of the American Chemical Society</i> , 2010, 132, 16349-16351.	13.7	215
5	Raman Modes of MoS ₂ Used as Fingerprint of van der Waals Interactions in 2-D Crystal-Based Heterostructures. <i>ACS Nano</i> , 2014, 8, 9914-9924.	14.6	201
6	Nanomolar detection of dopamine in the presence of ascorbic acid at β -cyclodextrin/graphene nanocomposite platform. <i>Electrochemistry Communications</i> , 2010, 12, 557-560.	4.7	186
7	Size-Dependent Nonlinear Optical Properties of Atomically Thin Transition Metal Dichalcogenide Nanosheets. <i>Small</i> , 2015, 11, 694-701.	10.0	160
8	Graphene in Light: Design, Synthesis and Applications of Photoactive Graphene and Graphene-Like Materials. <i>Small</i> , 2013, 9, 1266-1283.	10.0	129
9	Tuning the electronic structure and transport properties of graphene by noncovalent functionalization: effects of organic donor, acceptor and metal atoms. <i>Nanotechnology</i> , 2010, 21, 065201.	2.6	120
10	Photoactive graphene sheets prepared by click-chemistry. <i>Chemical Communications</i> , 2011, 47, 5747.	4.1	108
11	Effects of dopant and defect on the adsorption of carbon monoxide on graphitic boron nitride sheet: A first-principles study. <i>Chemical Physics Letters</i> , 2010, 484, 266-270.	2.6	87
12	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11666-11671.	10.3	47
13	Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. <i>Carbon</i> , 2016, 102, 357-366.	10.3	34
14	Partial Oxidized Arsenene: Emerging Tunable Direct Bandgap Semiconductor. <i>Scientific Reports</i> , 2016, 6, 24981.	3.3	33
15	Can azulene-like molecules function as substitution-free molecular rectifiers?. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15882.	2.8	25
16	Conformation-Controlled Electron Transport in Single-Molecule Junctions Containing Oligo(phenylene ethynylene) Derivatives. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1901-1909.	3.3	24
17	Effects of Stone-Wales Defect on the Interactions Between NH ₃ , NO ₂ and Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7347-7350.	0.9	23
18	Tuning the magnetic and transport properties of metal adsorbed graphene by co-adsorption with 1,2-dichlorobenzene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11626.	2.8	20

#	ARTICLE	IF	CITATIONS
19	Free-Radical-Promoted Conversion of Graphite Oxide into Chemically Modified Graphene. Chemistry - A European Journal, 2013, 19, 5948-5954.	3.3	19
20	A Core-Shell Strategy for Constructing a Single-Molecule Junction. Chemistry - A European Journal, 2011, 17, 8414-8423.	3.3	18
21	Recent progress on the smart membranes based on two-dimensional materials. Chinese Chemical Letters, 2022, 33, 2832-2844.	9.0	16
22	Lighten the Olympia of the Flatland: Probing and Manipulating the Photonic Properties of 2D Transition-Metal Dichalcogenides. Small, 2015, 11, 3206-3220.	10.0	15
23	Lifting the mist of flatland: The recent progress in the characterizations of two-dimensional materials. Progress in Crystal Growth and Characterization of Materials, 2017, 63, 72-93.	4.0	12
24	Monitoring the Layer-by-Layer Self-Assembly of Graphene and Graphene Oxide by Spectroscopic Ellipsometry. Journal of Nanoscience and Nanotechnology, 2012, 12, 508-512.	0.9	8
25	Advanced membranes with responsive two-dimensional nanochannels. , 2021, 1, 100012.		8
26	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. International Journal of Nanoscience, 2009, 08, 5-8.	0.7	5
27	Optical Materials: Size-Dependent Nonlinear Optical Properties of Atomically Thin Transition Metal Dichalcogenide Nanosheets (Small 6/2015). Small, 2015, 11, 634-634.	10.0	4