

# Kai-Ge Zhou

## List of Publications by Citations

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28  
papers

2,997  
citations

18  
h-index

30  
g-index

30  
ext. papers

3,294  
ext. citations

8.3  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
28	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. <i>Nanotechnology</i> , <b>2009</b> , 20, 185504	3.4	732
27	A mixed-solvent strategy for efficient exfoliation of inorganic graphene analogues. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10839-42	16.4	715
26	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> , <b>2010</b> , 132, 16349-51	16.4	203
25	Electrically controlled water permeation through graphene oxide membranes. <i>Nature</i> , <b>2018</b> , 559, 236-240	50.4	177
24	Nanomolar detection of dopamine in the presence of ascorbic acid at Cyclodextrin/graphene nanocomposite platform. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 557-560	5.1	170
23	Raman modes of MoS <sub>2</sub> used as fingerprint of van der Waals interactions in 2-D crystal-based heterostructures. <i>ACS Nano</i> , <b>2014</b> , 8, 9914-24	16.7	142
22	Size-dependent nonlinear optical properties of atomically thin transition metal dichalcogenide nanosheets. <i>Small</i> , <b>2015</b> , 11, 694-701	11	132
21	Graphene in light: design, synthesis and applications of photo-active graphene and graphene-like materials. <i>Small</i> , <b>2013</b> , 9, 1266-83	11	105
20	Tuning the electronic structure and transport properties of graphene by noncovalent functionalization: effects of organic donor, acceptor and metal atoms. <i>Nanotechnology</i> , <b>2010</b> , 21, 065201	3.4	104
19	Photoactive graphene sheets prepared by "click" chemistry. <i>Chemical Communications</i> , <b>2011</b> , 47, 5747-9	5.8	102
18	A Mixed-Solvent Strategy for Efficient Exfoliation of Inorganic Graphene Analogues. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11031-11034	3.6	88
17	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> , <b>2010</b> , 484, 266-270	2.5	77
16	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11666-11671	13	38
15	Partial Oxidized Arsenene: Emerging Tunable Direct Bandgap Semiconductor. <i>Scientific Reports</i> , <b>2016</b> , 6, 24981	4.9	30
14	Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. <i>Carbon</i> , <b>2016</b> , 102, 357-366	10.4	28
13	Can azulene-like molecules function as substitution-free molecular rectifiers?. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 15882-90	3.6	25
12	Conformation-controlled electron transport in single-molecule junctions containing oligo(phenylene ethynylene) derivatives. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 1901-9	4.5	21

11	Tuning the magnetic and transport properties of metal adsorbed graphene by co-adsorption with 1,2-dichlorobenzene. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 11626-32	3.6	20
10	A core-shell strategy for constructing a single-molecule junction. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8414-23	4.8	18
9	Effects of Stone-Wales defect on the interactions between NH <sub>3</sub> , NO <sub>2</sub> and graphene. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 7347-50	1.3	18
8	Free-radical-promoted conversion of graphite oxide into chemically modified graphene. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 5948-54	4.8	15
7	Lighten the Olympia of the Flatland: Probing and Manipulating the Photonic Properties of 2D Transition-Metal Dichalcogenides. <i>Small</i> , <b>2015</b> , 11, 3206-20	11	13
6	Monitoring the layer-by-layer self-assembly of graphene and graphene oxide by spectroscopic ellipsometry. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 508-12	1.3	7
5	Lifting the mist of flatland: The recent progress in the characterizations of two-dimensional materials. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2017</b> , 63, 72-93	3.5	6
4	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. <i>International Journal of Nanoscience</i> , <b>2009</b> , 08, 5-8	0.6	4
3	Optical Materials: Size-Dependent Nonlinear Optical Properties of Atomically Thin Transition Metal Dichalcogenide Nanosheets (Small 6/2015). <i>Small</i> , <b>2015</b> , 11, 634-634	11	3
2	Advanced membranes with responsive two-dimensional nanochannels <b>2021</b> , 1, 100012		1
1	Graphene: Synthesis, Characterization, and Applications <b>2014</b> , 1-21		0