

# Qing Hua Wang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6215505/qing-hua-wang-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

14,588  
citations

29  
h-index

59  
g-index

59  
ext. papers

16,418  
ext. citations

11.8  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
53	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 699-712	28.7	10871
52	Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. <i>Nature Chemistry</i> , <b>2012</b> , 4, 724-32	17.6	407
51	Room-temperature molecular-resolution characterization of self-assembled organic monolayers on epitaxial graphene. <i>Nature Chemistry</i> , <b>2009</b> , 1, 206-11	17.6	373
50	Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 439-45	28.7	304
49	Breakdown in the wetting transparency of graphene. <i>Physical Review Letters</i> , <b>2012</b> , 109, 176101	7.4	268
48	Transition metal oxides Thermoelectric properties. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 1443-1489	42.2	242
47	Covalent electron transfer chemistry of graphene with diazonium salts. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 160-70	24.3	231
46	Tuning on-off current ratio and field-effect mobility in a MoS <sub>2</sub> -graphene heterostructure via Schottky barrier modulation. <i>ACS Nano</i> , <b>2014</b> , 8, 5790-8	16.7	207
45	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3362-3370	9.6	156
44	Seeding atomic layer deposition of high-k dielectrics on epitaxial graphene with organic self-assembled monolayers. <i>ACS Nano</i> , <b>2011</b> , 5, 5223-32	16.7	149
43	Low Cytotoxicity and Genotoxicity of Two-Dimensional MoS and WS. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 361-367	5.5	135
42	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , <b>2013</b> , 4, 1663	17.4	126
41	Current and future directions in electron transfer chemistry of graphene. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4530-4571	58.5	101
40	Observation of Switchable Photoresponse of a Monolayer WSe <sub>2</sub> -MoS <sub>2</sub> Lateral Heterostructure via Photocurrent Spectral Atomic Force Microscopic Imaging. <i>Nano Letters</i> , <b>2016</b> , 16, 3571-7	11.5	70
39	Direct Covalent Chemical Functionalization of Unmodified Two-Dimensional Molybdenum Disulfide. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2112-2128	9.6	65
38	Layer number dependence of MoS <sub>2</sub> photoconductivity using photocurrent spectral atomic force microscopic imaging. <i>ACS Nano</i> , <b>2015</b> , 9, 2843-55	16.7	63
37	Excess thermopower and the theory of thermopower waves. <i>ACS Nano</i> , <b>2013</b> , 7, 6533-44	16.7	58

36	Disorder imposed limits of mono- and bilayer graphene electronic modification using covalent chemistry. <i>Nano Letters</i> , <b>2013</b> , 13, 809-17	11.5	55
35	Structural analysis of PTCDA monolayers on epitaxial graphene with ultra-high vacuum scanning tunneling microscopy and high-resolution X-ray reflectivity. <i>Surface Science</i> , <b>2011</b> , 605, 1685-1693	1.8	53
34	Understanding surfactant/graphene interactions using a graphene field effect transistor: relating molecular structure to hysteresis and carrier mobility. <i>Langmuir</i> , <b>2012</b> , 28, 8579-86	4	46
33	Nanofabrication of heteromolecular organic nanostructures on epitaxial graphene via room temperature feedback-controlled lithography. <i>Nano Letters</i> , <b>2011</b> , 11, 589-93	11.5	43
32	Evolution of physical and electronic structures of bilayer graphene upon chemical functionalization. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18866-75	16.4	39
31	Identifying and characterizing epitaxial graphene domains on partially graphitized SiC(0001) surfaces using scanning probe microscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 143103	3.4	39
30	Low Dimensional Carbon Materials for Applications in Mass and Energy Transport. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 172-183	9.6	35
29	Acoustic robot navigation using distributed microphone arrays. <i>Information Fusion</i> , <b>2004</b> , 5, 131-140	16.7	34
28	A study of bilayer phosphorene stability under MoS <sub>2</sub> -passivation. <i>2D Materials</i> , <b>2017</b> , 4, 025091	5.9	33
27	Role of adsorbed surfactant in the reaction of aryl diazonium salts with single-walled carbon nanotubes. <i>Langmuir</i> , <b>2012</b> , 28, 1309-21	4	33
26	Conductive atomic force microscope nanopatterning of epitaxial graphene on SiC(0001) in ambient conditions. <i>Advanced Materials</i> , <b>2011</b> , 23, 2181-4	24	31
25	A graphene-based physiometer array for the analysis of single biological cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6865	4.9	29
24	Fabrication, Pressure Testing, and Nanopore Formation of Single-Layer Graphene Membranes. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14312-14321	3.8	26
23	Formation of MoO <sub>3</sub> and WO <sub>3</sub> nanoscrolls from MoS <sub>2</sub> and WS <sub>2</sub> with atmospheric air plasma. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11301-11309	7.1	25
22	Reaction Kinetics for the Covalent Functionalization of Two-Dimensional MoS by Aryl Diazonium Salts. <i>Langmuir</i> , <b>2019</b> , 35, 5693-5701	4	19
21	Rotational superstructure in van der Waals heterostructure of self-assembled C monolayer on the WSe surface. <i>Nanoscale</i> , <b>2017</b> , 9, 13245-13256	7.7	19
20	Orthogonal self-assembly of interconnected one-dimensional inorganic and organic nanostructures on the Si(100) surface. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12896-7	16.4	19
19	Covalent chemical functionalization of semiconducting layered chalcogenide nanosheets. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 962-973	4.6	18

18	Synthesis of TiO <sub>2</sub> nanosheet photocatalysts from exfoliation of TiS <sub>2</sub> and hydrothermal treatment. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 3540-3548	2.5	18
17	Charge transfer at junctions of a single layer of graphene and a metallic single walled carbon nanotube. <i>Small</i> , <b>2013</b> , 9, 1954-63	11	16
16	Stochastic Pore Blocking and Gating in PDMS/Glass Nanopores from Vapor/Liquid Phase Transitions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9641-9651	3.8	15
15	Carbon nanotubes: A bright future for defects. <i>Nature Chemistry</i> , <b>2013</b> , 5, 812-3	17.6	14
14	Characterization and nanopatterning of organically functionalized graphene with ultrahigh vacuum scanning tunneling microscopy. <i>MRS Bulletin</i> , <b>2011</b> , 36, 532-542	3.2	12
13	Superadiabaticity in reaction waves as a mechanism for energy concentration. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3391-3402	35.4	11
12	Exfoliation of boron carbide into ultrathin nanosheets. <i>Nanoscale</i> , <b>2021</b> , 13, 1652-1662	7.7	8
11	Elimination of Multidrug-Resistant Bacteria by Transition Metal Dichalcogenides Encapsulated by Synthetic Single-Stranded DNA. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8082-8094	9.5	7
10	Evaluating the Exfoliation Efficiency of Quasi-2D Metal Diboride Nanosheets Using Hansen Solubility Parameters. <i>Langmuir</i> , <b>2021</b> , 37, 1194-1205	4	7
9	Atomically resolved charge redistribution for Ga nanocluster arrays on the Si(111)-7 x 7 surface. <i>Small</i> , <b>2008</b> , 4, 915-9	11	6
8	Interaction of Pb <sup>2+</sup> ions in water with two-dimensional molybdenum disulfide. <i>JPhys Materials</i> , <b>2020</b> , 3, 024007	4.2	5
7	Energy generation using thermopower waves: Experimental and analytical progress. <i>AIChE Journal</i> , <b>2013</b> , 59, 3333-3341	3.6	5
6	Exfoliation of Quasi-Two-Dimensional Nanosheets of Metal Diborides. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6787-6799	3.8	5
5	Experimental Observation of Real Time Molecular Dynamics Using Electromigrated Tunnel Junctions. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22550-22558	3.8	3
4	High-yield fabrication method for high-frequency graphene devices using titanium sacrificial layers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 041801	1.3	3
3	Formation of High-Aspect-Ratio Helical Nanorods via Chiral Self-Assembly of Fullerodendrimers. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 929-34	6.4	2
2	Eradication of Fungi Using MoSe <sub>2</sub> /Chitosan Nanosheets. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 133-148	5.6	1
1	Three-dimensional hollow graphene/metallic nanocomposite foam manufactured by polymer-templated electrochemical co-deposition. <i>Journal of Materials Research</i> , 1	2.5	

