

Qing Hua Wang

List of Publications by Year in Descending Order

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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 | Eradication of Fungi Using MoSe ₂ /Chitosan Nanosheets. <i>ACS Applied Nano Materials</i> , 2022 , 5, 133-148 | 5.6 | 1 |
| 52 | Exfoliation of Quasi-Two-Dimensional Nanosheets of Metal Diborides. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6787-6799 | 3.8 | 5 |
| 51 | Exfoliation of boron carbide into ultrathin nanosheets. <i>Nanoscale</i> , 2021 , 13, 1652-1662 | 7.7 | 8 |
| 50 | Elimination of Multidrug-Resistant Bacteria by Transition Metal Dichalcogenides Encapsulated by Synthetic Single-Stranded DNA. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8082-8094 | 9.5 | 7 |
| 49 | Evaluating the Exfoliation Efficiency of Quasi-2D Metal Diboride Nanosheets Using Hansen Solubility Parameters. <i>Langmuir</i> , 2021 , 37, 1194-1205 | 4 | 7 |
| 48 | Interaction of Pb ²⁺ ions in water with two-dimensional molybdenum disulfide. <i>JPhys Materials</i> , 2020 , 3, 024007 | 4.2 | 5 |
| 47 | Covalent chemical functionalization of semiconducting layered chalcogenide nanosheets. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 962-973 | 4.6 | 18 |
| 46 | Reaction Kinetics for the Covalent Functionalization of Two-Dimensional MoS by Aryl Diazonium Salts. <i>Langmuir</i> , 2019 , 35, 5693-5701 | 4 | 19 |
| 45 | 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> , 2019 , 37, 041801 | 1.3 | 3 |
| 44 | Direct Covalent Chemical Functionalization of Unmodified Two-Dimensional Molybdenum Disulfide. <i>Chemistry of Materials</i> , 2018 , 30, 2112-2128 | 9.6 | 65 |
| 43 | Synthesis of TiO ₂ nanosheet photocatalysts from exfoliation of TiS ₂ and hydrothermal treatment. <i>Journal of Materials Research</i> , 2018 , 33, 3540-3548 | 2.5 | 18 |
| 42 | A study of bilayer phosphorene stability under MoS ₂ -passivation. <i>2D Materials</i> , 2017 , 4, 025091 | 5.9 | 33 |
| 41 | Current and future directions in electron transfer chemistry of graphene. <i>Chemical Society Reviews</i> , 2017 , 46, 4530-4571 | 58.5 | 101 |
| 40 | Fabrication, Pressure Testing, and Nanopore Formation of Single-Layer Graphene Membranes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14312-14321 | 3.8 | 26 |
| 39 | Experimental Observation of Real Time Molecular Dynamics Using Electromigrated Tunnel Junctions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22550-22558 | 3.8 | 3 |
| 38 | Formation of MoO ₃ and WO ₃ nanoscrolls from MoS ₂ and WS ₂ with atmospheric air plasma. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11301-11309 | 7.1 | 25 |
| 37 | Rotational superstructure in van der Waals heterostructure of self-assembled C monolayer on the WSe surface. <i>Nanoscale</i> , 2017 , 9, 13245-13256 | 7.7 | 19 |

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| 36 | Low Cytotoxicity and Genotoxicity of Two-Dimensional MoS and WS. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 361-367 | 5.5 | 135 |
| 35 | Observation of Switchable Photoresponse of a Monolayer WSe ₂ -MoS ₂ Lateral Heterostructure via Photocurrent Spectral Atomic Force Microscopic Imaging. <i>Nano Letters</i> , 2016 , 16, 3571-7 | 11.5 | 70 |
| 34 | Layer number dependence of MoS ₂ photoconductivity using photocurrent spectral atomic force microscopic imaging. <i>ACS Nano</i> , 2015 , 9, 2843-55 | 16.7 | 63 |
| 33 | A graphene-based physiometer array for the analysis of single biological cells. <i>Scientific Reports</i> , 2014 , 4, 6865 | 4.9 | 29 |
| 32 | Low Dimensional Carbon Materials for Applications in Mass and Energy Transport. <i>Chemistry of Materials</i> , 2014 , 26, 172-183 | 9.6 | 35 |
| 31 | Superadiabaticity in reaction waves as a mechanism for energy concentration. <i>Energy and Environmental Science</i> , 2014 , 7, 3391-3402 | 35.4 | 11 |
| 30 | Formation of High-Aspect-Ratio Helical Nanorods via Chiral Self-Assembly of Fullerodendrimers. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 929-34 | 6.4 | 2 |
| 29 | Tuning on-off current ratio and field-effect mobility in a MoS ₂ (2)-graphene heterostructure via Schottky barrier modulation. <i>ACS Nano</i> , 2014 , 8, 5790-8 | 16.7 | 207 |
| 28 | Excess thermopower and the theory of thermopower waves. <i>ACS Nano</i> , 2013 , 7, 6533-44 | 16.7 | 58 |
| 27 | Evolution of physical and electronic structures of bilayer graphene upon chemical functionalization. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18866-75 | 16.4 | 39 |
| 26 | Energy generation using thermopower waves: Experimental and analytical progress. <i>AIChE Journal</i> , 2013 , 59, 3333-3341 | 3.6 | 5 |
| 25 | Carbon nanotubes: A bright future for defects. <i>Nature Chemistry</i> , 2013 , 5, 812-3 | 17.6 | 14 |
| 24 | Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , 2013 , 4, 1663 | 17.4 | 126 |
| 23 | Charge transfer at junctions of a single layer of graphene and a metallic single walled carbon nanotube. <i>Small</i> , 2013 , 9, 1954-63 | 11 | 16 |
| 22 | Stochastic Pore Blocking and Gating in PDMS Glass Nanopores from Vapor-Liquid Phase Transitions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9641-9651 | 3.8 | 15 |
| 21 | Disorder imposed limits of mono- and bilayer graphene electronic modification using covalent chemistry. <i>Nano Letters</i> , 2013 , 13, 809-17 | 11.5 | 55 |
| 20 | Transition metal oxides Thermoelectric properties. <i>Progress in Materials Science</i> , 2013 , 58, 1443-1489 | 42.2 | 242 |
| 19 | Covalent electron transfer chemistry of graphene with diazonium salts. <i>Accounts of Chemical Research</i> , 2013 , 46, 160-70 | 24.3 | 231 |

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|----|--|------|-------|
| 18 | Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2012 , 7, 699-712 | 28.7 | 10871 |
| 17 | Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. <i>Nature Chemistry</i> , 2012 , 4, 724-32 | 17.6 | 407 |
| 16 | Breakdown in the wetting transparency of graphene. <i>Physical Review Letters</i> , 2012 , 109, 176101 | 7.4 | 268 |
| 15 | Role of adsorbed surfactant in the reaction of aryl diazonium salts with single-walled carbon nanotubes. <i>Langmuir</i> , 2012 , 28, 1309-21 | 4 | 33 |
| 14 | Understanding surfactant/graphene interactions using a graphene field effect transistor: relating molecular structure to hysteresis and carrier mobility. <i>Langmuir</i> , 2012 , 28, 8579-86 | 4 | 46 |
| 13 | Seeding atomic layer deposition of high-k dielectrics on epitaxial graphene with organic self-assembled monolayers. <i>ACS Nano</i> , 2011 , 5, 5223-32 | 16.7 | 149 |
| 12 | Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. <i>Chemistry of Materials</i> , 2011 , 23, 3362-3370 | 9.6 | 156 |
| 11 | Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , 2011 , 6, 439-45 | 28.7 | 304 |
| 10 | Conductive atomic force microscope nanopatterning of epitaxial graphene on SiC(0001) in ambient conditions. <i>Advanced Materials</i> , 2011 , 23, 2181-4 | 24 | 31 |
| 9 | Characterization and nanopatterning of organically functionalized graphene with ultrahigh vacuum scanning tunneling microscopy. <i>MRS Bulletin</i> , 2011 , 36, 532-542 | 3.2 | 12 |
| 8 | Nanofabrication of heteromolecular organic nanostructures on epitaxial graphene via room temperature feedback-controlled lithography. <i>Nano Letters</i> , 2011 , 11, 589-93 | 11.5 | 43 |
| 7 | 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> , 2011 , 605, 1685-1693 | 1.8 | 53 |
| 6 | Identifying and characterizing epitaxial graphene domains on partially graphitized SiC(0001) surfaces using scanning probe microscopy. <i>Applied Physics Letters</i> , 2010 , 96, 143103 | 3.4 | 39 |
| 5 | Room-temperature molecular-resolution characterization of self-assembled organic monolayers on epitaxial graphene. <i>Nature Chemistry</i> , 2009 , 1, 206-11 | 17.6 | 373 |
| 4 | Orthogonal self-assembly of interconnected one-dimensional inorganic and organic nanostructures on the Si(100) surface. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12896-7 | 16.4 | 19 |
| 3 | Atomically resolved charge redistribution for Ga nanocluster arrays on the Si(111)-7 x 7 surface. <i>Small</i> , 2008 , 4, 915-9 | 11 | 6 |
| 2 | Acoustic robot navigation using distributed microphone arrays. <i>Information Fusion</i> , 2004 , 5, 131-140 | 16.7 | 34 |
| 1 | Three-dimensional hollow graphene/metallic nanocomposite foam manufactured by polymer-templated electrochemical co-deposition. <i>Journal of Materials Research</i> , 1 | 2.5 | |

