

# Jian-Guo Hou

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

5,659  
citations

159585

30  
h-index

223800

46  
g-index

47  
all docs

47  
docs citations

47  
times ranked

7426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical mapping of a single molecule by plasmon-enhanced Raman scattering. <i>Nature</i> , 2013, 498, 82-86.	27.8	1,437
2	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. <i>Science</i> , 2005, 309, 1542-1544.	12.6	594
3	Will zigzag graphene nanoribbon turn to half metal under electric field?. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	299
4	Facile synthesis of pentacle gold-copper alloy nanocrystals and their plasmonic and catalytic properties. <i>Nature Communications</i> , 2014, 5, 4327.	12.8	294
5	Visualizing coherent intermolecular dipole-dipole coupling in real space. <i>Nature</i> , 2016, 531, 623-627.	27.8	284
6	Epitaxial growth of ultraflat stanene with topological band inversion. <i>Nature Materials</i> , 2018, 17, 1081-1086.	27.5	267
7	Generation of molecular hot electroluminescence by resonant nanocavity plasmons. <i>Nature Photonics</i> , 2010, 4, 50-54.	31.4	257
8	Distinguishing adjacent molecules on a surface using plasmon-enhanced Raman scattering. <i>Nature Nanotechnology</i> , 2015, 10, 865-869.	31.5	239
9	Piezoelectricity in ZnO nanowires: A first-principles study. <i>Applied Physics Letters</i> , 2006, 89, 223111.	3.3	178
10	Sub-nanometre control of the coherent interaction between a single molecule and a plasmonic nanocavity. <i>Nature Communications</i> , 2017, 8, 15225.	12.8	158
11	Synthesis and optical properties of well-aligned ZnO nanorod array on an undoped ZnO film. <i>Applied Physics Letters</i> , 2005, 86, 031909.	3.3	154
12	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020, 14, 693-699.	31.4	152
13	Topology of two-dimensional C60 domains. <i>Nature</i> , 2001, 409, 304-305.	27.8	101
14	Chiral selective tunneling induced negative differential resistance in zigzag graphene nanoribbon: A theoretical study. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	93
15	Electrically driven single-photon emission from an isolated single molecule. <i>Nature Communications</i> , 2017, 8, 580.	12.8	92
16	Visually constructing the chemical structure of a single molecule by scanning Raman picoscopy. <i>National Science Review</i> , 2019, 6, 1169-1175.	9.5	91
17	Electronic and Magnetic Properties of Metal Phthalocyanines on Au(111) Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13650-13655.	3.1	81
18	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	12.6	77

#	ARTICLE	IF	CITATIONS
19	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. Applied Physics Letters, 2005, 86, 223106.	3.3	73
20	Are fluorinated boron nitride nanotubes n-type semiconductors?. Applied Physics Letters, 2005, 87, 243113.	3.3	71
21	Structural and electronic properties of OsB <sub>2</sub> : A hard metallic material. Physical Review B, 2006, 74, .	3.2	65
22	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. Physical Review Letters, 2019, 122, 233901.	7.8	62
23	Evidence of van Hove Singularities in Ordered Grain Boundaries of Graphene. Physical Review Letters, 2014, 112, 226802.	7.8	61
24	Ballistic rectification in a Z-shaped graphene nanoribbon junction. Applied Physics Letters, 2008, 92, .	3.3	55
25	Surface Landau levels and spin states in bismuth (111) ultrathin films. Nature Communications, 2016, 7, 10814.	12.8	45
26	Vacancy-induced splitting of the Dirac nodal point in graphene. Physical Review B, 2012, 85, .	3.2	42
27	Subnanometer-resolved chemical imaging via multivariate analysis of tip-enhanced Raman maps. Light: Science and Applications, 2017, 6, e17098-e17098.	16.6	36
28	Electronic structure of bilayer graphene: A real-space Green's function study. Physical Review B, 2007, 75, .	3.2	35
29	Strong Surface Effect on Cathodoluminescence of an Individual Tapered ZnO Nanorod. Journal of Physical Chemistry C, 2007, 111, 17265-17267.	3.1	34
30	Probing intramolecular vibronic coupling through vibronic-state imaging. Nature Communications, 2021, 12, 1280.	12.8	34
31	Interfacial Hydrogen-Bonding Dynamics in Surface-Facilitated Dehydrogenation of Water on TiO <sub>2</sub> (110). Journal of the American Chemical Society, 2020, 142, 826-834.	13.7	31
32	Electronic structure in gapped graphene with a Coulomb potential. Physical Review B, 2009, 79, .	3.2	25
33	Wavelike electronic energy transfer in donor-acceptor molecular systems through quantum coherence. Nature Nanotechnology, 2022, 17, 729-736.	31.5	19
34	Raman Detection of Bond Breaking and Making of a Chemisorbed Up-Standing Single Molecule at Single-Bond Level. Journal of Physical Chemistry Letters, 2021, 12, 1961-1968.	4.6	18
35	Visualizing Elementary Reactions of Methanol by Electrons and Holes on TiO <sub>2</sub> (110) Surface. Journal of Physical Chemistry C, 2018, 122, 28805-28814.	3.1	17
36	Manipulating and tailoring the properties of 0-D and 1-D nanomaterials. Journal of Materials Chemistry, 2010, 20, 5567.	6.7	13

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37	Evaluation of the Greenâ€™s function of disordered graphene. Physical Review B, 2010, 82, .	3.2	13
38	Enhancement and suppression effect of molecules on nanocavity plasmon emissions excited by tunneling electrons. Applied Physics Letters, 2010, 97, .	3.3	12
39	Orbital-selective single molecule rectifier on graphene-covered Ru(0001) surface. Applied Physics Letters, 2013, 102, 163506.	3.3	10
40	Shape of the Landau subbands in disordered graphene. Physical Review B, 2011, 83, .	3.2	8
41	Fabrication and scanning tunneling microscopy characterization of suspended monolayer graphene on periodic Si nanopillars. Applied Physics Letters, 2013, 102, 201602.	3.3	7
42	Creation of the Dirac Nodal Line by Extrinsic Symmetry Engineering. Nano Letters, 2020, 20, 2157-2162.	9.1	7
43	ZhangetÂal.Reply:. Physical Review Letters, 2011, 107, .	7.8	6
44	Substantially Enhancing Quantum Coherence of Electrons in Graphene via Electron-Plasmon Coupling. Physical Review Letters, 2017, 119, 156803.	7.8	6
45	Study of single molecules and their assemblies by scanning tunneling microscopy. Pure and Applied Chemistry, 2006, 78, 905-933.	1.9	3
46	Characterizing and Manipulating Individual Molecules by Scanning Tunneling Microscopy. Chinese Journal of Chemical Physics, 2007, 20, 468-474.	1.3	3
47	Singleâ€™Molecular Imaging of Anticoagulation Factor I from Snake Venom by Atomic Force Microscopy. Chinese Journal of Chemistry, 2002, 20, 899-903.	4.9	0