

Jian-Guo Hou

List of Publications by Year in descending order

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47
papers

5,659
citations

159585

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h-index

223800

46
g-index

47
all docs

47
docs citations

47
times ranked

7426
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelike electronic energy transfer in donor-acceptor molecular systems through quantum coherence. <i>Nature Nanotechnology</i> , 2022, 17, 729-736.	31.5	19
2	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	12.6	77
3	Probing intramolecular vibronic coupling through vibronic-state imaging. <i>Nature Communications</i> , 2021, 12, 1280.	12.8	34
4	Raman Detection of Bond Breaking and Making of a Chemisorbed Up-Standing Single Molecule at Single-Bond Level. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1961-1968.	4.6	18
5	Interfacial Hydrogen-Bonding Dynamics in Surface-Facilitated Dehydrogenation of Water on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2020, 142, 826-834.	13.7	31
6	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020, 14, 693-699.	31.4	152
7	Creation of the Dirac Nodal Line by Extrinsic Symmetry Engineering. <i>Nano Letters</i> , 2020, 20, 2157-2162.	9.1	7
8	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
9	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. <i>Physical Review Letters</i> , 2019, 122, 233901.	7.8	62
10	Visualizing Elementary Reactions of Methanol by Electrons and Holes on TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28805-28814.	3.1	17
11	Epitaxial growth of ultraflat stanene with topological band inversion. <i>Nature Materials</i> , 2018, 17, 1081-1086.	27.5	267
12	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
13	Substantially Enhancing Quantum Coherence of Electrons in Graphene via Electron-Plasmon Coupling. <i>Physical Review Letters</i> , 2017, 119, 156803.	7.8	6
14	Electrically driven single-photon emission from an isolated single molecule. <i>Nature Communications</i> , 2017, 8, 580.	12.8	92
15	Subnanometer-resolved chemical imaging via multivariate analysis of tip-enhanced Raman maps. <i>Light: Science and Applications</i> , 2017, 6, e17098-e17098.	16.6	36
16	Visualizing coherent intermolecular dipole-dipole coupling in real space. <i>Nature</i> , 2016, 531, 623-627.	27.8	284
17	Surface Landau levels and spin states in bismuth (111) ultrathin films. <i>Nature Communications</i> , 2016, 7, 10814.	12.8	45
18	Distinguishing adjacent molecules on a surface using plasmon-enhanced Raman scattering. <i>Nature Nanotechnology</i> , 2015, 10, 865-869.	31.5	239

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19	Facile synthesis of pentacle gold-copper alloy nanocrystals and their plasmonic and catalytic properties. <i>Nature Communications</i> , 2014, 5, 4327.	12.8	294
20	Evidence of van Hove Singularities in Ordered Grain Boundaries of Graphene. <i>Physical Review Letters</i> , 2014, 112, 226802.	7.8	61
21	Fabrication and scanning tunneling microscopy characterization of suspended monolayer graphene on periodic Si nanopillars. <i>Applied Physics Letters</i> , 2013, 102, 201602.	3.3	7
22	Chemical mapping of a single molecule by plasmon-enhanced Raman scattering. <i>Nature</i> , 2013, 498, 82-86.	27.8	1,437
23	Orbital-selective single molecule rectifier on graphene-covered Ru(0001) surface. <i>Applied Physics Letters</i> , 2013, 102, 163506.	3.3	10
24	Vacancy-induced splitting of the Dirac nodal point in graphene. <i>Physical Review B</i> , 2012, 85, .	3.2	42
25	ZhangetAl.Reply:. <i>Physical Review Letters</i> , 2011, 107, .	7.8	6
26	Shape of the Landau subbands in disordered graphene. <i>Physical Review B</i> , 2011, 83, .	3.2	8
27	Generation of molecular hot electroluminescence by resonant nanocavity plasmons. <i>Nature Photonics</i> , 2010, 4, 50-54.	31.4	257
28	Enhancement and suppression effect of molecules on nanocavity plasmon emissions excited by tunneling electrons. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	12
29	Manipulating and tailoring the properties of 0-D and 1-D nanomaterials. <i>Journal of Materials Chemistry</i> , 2010, 20, 5567.	6.7	13
30	Evaluation of the Green's function of disordered graphene. <i>Physical Review B</i> , 2010, 82, .	3.2	13
31	Electronic structure in gapped graphene with a Coulomb potential. <i>Physical Review B</i> , 2009, 79, .	3.2	25
32	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
33	Ballistic rectification in a Z-shaped graphene nanoribbon junction. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	55
34	Chiral selective tunneling induced negative differential resistance in zigzag graphene nanoribbon: A theoretical study. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	93
35	Characterizing and Manipulating Individual Molecules by Scanning Tunneling Microscopy. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 468-474.	1.3	3
36	Strong Surface Effect on Cathodoluminescence of an Individual Tapered ZnO Nanorod. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17265-17267.	3.1	34

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37	Electronic structure of bilayer graphene: A real-space Green's function study. Physical Review B, 2007, 75, .	3.2	35
38	Will zigzag graphene nanoribbon turn to half metal under electric field?. Applied Physics Letters, 2007, 91, .	3.3	299
39	Piezoelectricity in ZnO nanowires: A first-principles study. Applied Physics Letters, 2006, 89, 223111.	3.3	178
40	Study of single molecules and their assemblies by scanning tunneling microscopy. Pure and Applied Chemistry, 2006, 78, 905-933.	1.9	3
41	Structural and electronic properties of OsB ₂ : A hard metallic material. Physical Review B, 2006, 74, .	3.2	65
42	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. Science, 2005, 309, 1542-1544.	12.6	594
43	Are fluorinated boron nitride nanotubes n-type semiconductors?. Applied Physics Letters, 2005, 87, 243113.	3.3	71
44	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. Applied Physics Letters, 2005, 86, 223106.	3.3	73
45	Synthesis and optical properties of well-aligned ZnO nanorod array on an undoped ZnO film. Applied Physics Letters, 2005, 86, 031909.	3.3	154
46	Single-Molecular Imaging of Anticoagulation Factor I from Snake Venom by Atomic Force Microscopy. Chinese Journal of Chemistry, 2002, 20, 899-903.	4.9	0
47	Topology of two-dimensional C ₆₀ domains. Nature, 2001, 409, 304-305.	27.8	101