

Hao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,734
citations

394286

19
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of chiral and slow plasmons in twisted bilayer graphene. <i>Nature</i> , 2022, 605, 63-68.	13.7	45
2	Manipulation of Strong Light-matter Interactions in Two-dimensional Transition-metal Dichalcogenides Coupled with Nanophotonic Structures. , 2022, , .		0
3	Control of lightâ€“valley interactions in 2D transition metal dichalcogenides with nanophotonic structures. <i>Nanoscale</i> , 2021, 13, 6357-6372.	2.8	7
4	Facet- and Gas-Dependent Reshaping of Au Nanoplates by Plasma Treatment. <i>ACS Nano</i> , 2021, 15, 9860-9870.	7.3	9
5	Anapole States and Toroidal Resonances Realized in Simple Gold Nanoplateâ€“Mirror Structures. <i>Advanced Optical Materials</i> , 2020, 8, 2001173.	3.6	27
6	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020, 15, 743-749.	15.6	87
7	Resonance Coupling in an Individual Gold Nanorodâ€“Monolayer WS ₂ Heterostructure: Photoluminescence Enhancement with Spectral Broadening. <i>ACS Nano</i> , 2020, 14, 13841-13851.	7.3	48
8	Substrateâ€“Modulated Electromagnetic Resonances in Colloidal Cu ₂ O Nanospheres. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000106.	1.2	5
9	Plasmonically enabled two-dimensional material-based optoelectronic devices. <i>Nanoscale</i> , 2020, 12, 8095-8108.	2.8	38
10	Construction of Cloud Platform for Mining Group Operation. <i>Journal of Physics: Conference Series</i> , 2019, 1302, 042028.	0.3	0
11	An in situ characterization technique for electron emission behavior under a photo-electric-common-excitation field: study on the vertical few-layer graphene individuals. <i>Nanotechnology</i> , 2019, 30, 445202.	1.3	3
12	Resonance coupling in hybrid gold nanoholeâ€“monolayer WS ₂ nanostructures. <i>Applied Materials Today</i> , 2019, 15, 145-152.	2.3	23
13	Switching plasmonic Fano resonance in gold nanosphereâ€“nanoplate heterodimers. <i>Nanoscale</i> , 2019, 11, 9641-9653.	2.8	19
14	Single Plasmonic Particle with Exposed Sensing Hot Spot for Exploring Gas Molecule Adsorption in Nanolocalized Space. <i>Analytical Chemistry</i> , 2019, 91, 4063-4069.	3.2	2
15	A Plasmon-Mediated Electron Emission Process. <i>ACS Nano</i> , 2019, 13, 1977-1989.	7.3	11
16	Resonance Coupling in Heterostructures Composed of Silicon Nanosphere and Monolayer WS ₂ : A Magnetic-Dipole-Mediated Energy Transfer Process. <i>ACS Nano</i> , 2019, 13, 1739-1750.	7.3	90
17	Plasmonic Al nanopyramid array sensor for monitoring the attaching and spreading of cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 503-508.	4.0	13
18	Superhydrophobic SERS substrates based on silicon hierarchical nanostructures. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 024012.	1.0	12

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19	Molecular Tunnel Junction-Controlled High-Order Charge Transfer Plasmon and Fano Resonances. ACS Nano, 2018, 12, 12541-12550.	7.3	24
20	Room-temperature strong coupling between dipolar plasmon resonance in single gold nanorod and two-dimensional excitons in monolayer WSe ₂ . Chinese Physics B, 2018, 27, 096101.	0.7	19
21	Plasmonic Nanoprobe of (Gold Triangular Nanoprism Core)/(Polyaniline Shell) for Real-Time Three-Dimensional pH Imaging of Anterior Chamber. Analytical Chemistry, 2017, 89, 9758-9766.	3.2	8
22	Room-Temperature Strong Light-Matter Interaction with Active Control in Single Plasmonic Nanorod Coupled with Two-Dimensional Atomic Crystals. Nano Letters, 2017, 17, 4689-4697.	4.5	237
23	Strong Light-Matter Interactions in Single Open Plasmonic Nanocavities at the Quantum Optics Limit. Physical Review Letters, 2017, 118, 237401.	2.9	207
24	Resonance Coupling in Silicon Nanosphere-J-Aggregate Heterostructures. Nano Letters, 2016, 16, 6886-6895.	4.5	58
25	Janus Magneto-Electric Nanosphere Dimers Exhibiting Unidirectional Visible Light Scattering and Strong Electromagnetic Field Enhancement. ACS Nano, 2015, 9, 436-448.	7.3	91
26	Directional Fano Resonance in a Silicon Nanosphere Dimer. ACS Nano, 2015, 9, 2968-2980.	7.3	198
27	Characteristics of a Silicon Nanowires/PEDOT:PSS Heterojunction and Its Effect on the Solar Cell Performance. ACS Applied Materials & Interfaces, 2015, 7, 5830-5836.	4.0	50
28	Magnetically induced forward scattering at visible wavelengths in silicon nanosphere oligomers. Nature Communications, 2015, 6, 7042.	5.8	95
29	Fabrication of Si/Au Core/Shell Nanoplasmonic Structures with Ultrasensitive Surface-Enhanced Raman Scattering for Monolayer Molecule Detection. Journal of Physical Chemistry C, 2015, 119, 1234-1246.	1.5	58
30	High efficiency planar Si/organic heterojunction hybrid solar cells. Applied Physics Letters, 2012, 100, 073503.	1.5	148
31	Highly efficient Si-nanorods/organic hybrid core-sheath heterojunction solar cells. Applied Physics Letters, 2011, 99, .	1.5	102