Hao Wang

List of Publications by Year
in descending order

31 papers	1,734 citations	393982 19 h-index	476904 29 g-index
31 all docs	31 docs citations	31 times ranked	2270 citing authors

#	Article	IF	Citations
1	Room-Temperature Strong Lightâ€“Matter Interaction with Active Control in Single Plasmonic Nanorod Coupled with Two-Dimensional Atomic Crystals. Nano Letters, 2017, 17, 4689-4697.	4.5	237
2	Strong Light-Matter Interactions in Single Open Plasmonic Nanocavities at the Quantum Optics Limit. Physical Review Letters, 2017, 118, 237401.	2.9	207
3	Directional Fano Resonance in a Silicon Nanosphere Dimer. ACS Nano, 2015, 9, 2968-2980.	7.3	198
4	High efficiency planar Si/organic heterojunction hybrid solar cells. Applied Physics Letters, 2012, 100, 073503.	1.5	148
5	Highly efficient Si-nanorods/organic hybrid core-sheath heterojunction solar cells. Applied Physics Letters, 2011, 99, .	1.5	102
6	Magnetically induced forward scattering at visible wavelengths in silicon nanosphere oligomers. Nature Communications, 2015, 6, 7042.	5.8	95
7	Janus Magnetoâ€“Electric Nanosphere Dimers Exhibiting Unidirectional Visible Light Scattering and Strong Electromagnetic Field Enhancement. ACS Nano, 2015, 9, 436-448.	7.3	91
8	Resonance Coupling in Heterostructures Composed of Silicon Nanosphere and Monolayer WS₂: A Magnetic-Dipole-Mediated Energy Transfer Process. ACS Nano, 2019, 13, 1739-1750.	7.3	90
9	Room-temperature valleytronic transistor. Nature Nanotechnology, 2020, 15, 743-749.	15.6	87
10	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
11	Resonance Coupling in Silicon Nanosphereâ€“J-Aggregate Heterostructures. Nano Letters, 2016, 16, 6886-6895.	4.5	58
12	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
13	Resonance Coupling in an Individual Gold Nanorodâ€“Monolayer WS₂ Heterostructure: Photoluminescence Enhancement with Spectral Broadening. ACS Nano, 2020, 14, 13841-13851.	7.3	48
14	Observation of chiral and slow plasmons in twisted bilayer graphene. Nature, 2022, 605, 63-68.	13.7	45
15	Plasmonically enabled two-dimensional material-based optoelectronic devices. Nanoscale, 2020, 12, 8095-8108.	2.8	38
16	Anapole States and Toroidal Resonances Realized in Simple Gold Nanoplateâ€onâ€Mirror Structures. Advanced Optical Materials, 2020, 8, 2001173.	3.6	27
17	Molecular Tunnel Junction-Controlled High-Order Charge Transfer Plasmon and Fano Resonances. ACS Nano, 2018, 12, 12541-12550.	7.3	24
18	Resonance coupling in hybrid gold nanoholeâ€“monolayer WS2 nanostructures. Applied Materials Today, 2019, 15, 145-152.	2.3	23

#	Article	IF	Citations
19	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
20	Switching plasmonic Fano resonance in gold nanosphereâ€“nanoplate heterodimers. Nanoscale, 2019, 11, 9641-9653.	2.8	19
21	Plasmonic Al nanopyramid array sensor for monitoring the attaching and spreading of cells. Sensors and Actuators B: Chemical, 2019, 279, 503-508.	4.0	13
22	Superhydrophobic SERS substrates based on silicon hierarchical nanostructures. Journal of Optics (United Kingdom), 2018, 20, 024012.	1.0	12
23	A Plasmon-Mediated Electron Emission Process. ACS Nano, 2019, 13, 1977-1989.	7.3	11
24	Facet- and Gas-Dependent Reshaping of Au Nanoplates by Plasma Treatment. ACS Nano, 2021, 15, 9860-9870.	7.3	9
25	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
26	Control of lightâ€“valley interactions in 2D transition metal dichalcogenides with nanophotonic structures. Nanoscale, 2021, 13, 6357-6372.	2.8	7
27	Substrateâ€Modulated Electromagnetic Resonances in Colloidal Cu 2 O Nanospheres. Particle and Particle Systems Characterization, 2020, 37, 2000106.	1.2	5
28	An in situ characterization technique for electron emission behavior under a photo-electric-common-excitation field: study on the vertical few-layer graphene individuals. Nanotechnology, 2019, 30, 445202.	1.3	3
29	Single Plasmonic Particle with Exposed Sensing Hot Spot for Exploring Gas Molecule Adsorption in Nanolocalized Space. Analytical Chemistry, 2019, 91, 4063-4069.	3.2	2
30	Construction of Cloud Platform for Mining Group Operation. Journal of Physics: Conference Series, 2019, 1302, 042028.	0.3	0
31	Manipulation of Strong Light-matter Interactions in Two-dimensional Transition-metal Dichagenides Coupled with Nanophotonic Structures. , 2022, , .		0