

Hui Zhang

List of Publications by Year in descending order

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48
papers

4,288
citations

136950

32
h-index

223800

46
g-index

48
all docs

48
docs citations

48
times ranked

6569
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfigurable 3D plasmonic metamolecules. <i>Nature Materials</i> , 2014, 13, 862-866.	27.5	585
2	Theory of Photoinjection of Hot Plasmonic Carriers from Metal Nanostructures into Semiconductors and Surface Molecules. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16616-16631.	3.1	499
3	Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications. <i>Nano Today</i> , 2014, 9, 85-101.	11.9	270
4	Picosecond energy transfer and multiexciton transfer outpaces Auger recombination in binary CdSe nanoplatelet solids. <i>Nature Materials</i> , 2015, 14, 484-489.	27.5	211
5	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2354-2358.	13.8	209
6	Shedding Light on Vacancy-Doped Copper Chalcogenides: Shape-Controlled Synthesis, Optical Properties, and Modeling of Copper Telluride Nanocrystals with Near-Infrared Plasmon Resonances. <i>ACS Nano</i> , 2013, 7, 4367-4377.	14.6	186
7	Discrete Nanocubes as Plasmonic Reporters of Molecular Chirality. <i>Nano Letters</i> , 2013, 13, 3145-3151.	9.1	178
8	Optical Generation of Hot Plasmonic Carriers in Metal Nanocrystals: The Effects of Shape and Field Enhancement. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7606-7614.	3.1	178
9	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015, 1, e1500988.	10.3	146
10	Giant circular dichroism of a molecule in a region of strong plasmon resonances between two neighboring gold nanocrystals. <i>Physical Review B</i> , 2013, 87, .	3.2	140
11	Chiral Plasmonic Nanostructures on Achiral Nanopillars. <i>Nano Letters</i> , 2013, 13, 5277-5283.	9.1	125
12	Relaxation of Plasmon-Induced Hot Carriers. <i>ACS Photonics</i> , 2018, 5, 2584-2595.	6.6	115
13	Hierarchical synthesis of non-centrosymmetric hybrid nanostructures and enabled plasmon-driven photocatalysis. <i>Nature Communications</i> , 2014, 5, 4792.	12.8	107
14	3D plasmonic chiral colloids. <i>Nanoscale</i> , 2014, 6, 2077.	5.6	98
15	Fractal Nanoparticle Plasmonics: The Cayley Tree. <i>ACS Nano</i> , 2015, 9, 3284-3292.	14.6	96
16	Chiral and Achiral Nanodumbbell Dimers: The Effect of Geometry on Plasmonic Properties. <i>ACS Nano</i> , 2016, 10, 6180-6188.	14.6	88
17	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. <i>ACS Nano</i> , 2015, 9, 5968-5975.	14.6	87
18	Sandwiched ZnO@Au@Cu ₂ O Nanorod Films as Efficient Visible-Light-Driven Plasmonic Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4066-4074.	8.0	82

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19	How To Identify Plasmons from the Optical Response of Nanostructures. ACS Nano, 2017, 11, 7321-7335.	14.6	72
20	Optical Properties of Chiral Plasmonic Tetramers: Circular Dichroism and Multipole Effects. Journal of Physical Chemistry C, 2013, 117, 14770-14777.	3.1	70
21	Kinetic Density Functional Theory for Plasmonic Nanostructures: Breaking of the Plasmon Peak in the Quantum Regime and Generation of Hot Electrons. Journal of Physical Chemistry C, 2015, 119, 6181-6194.	3.1	66
22	Theory of Quantum Plasmon Resonances in Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 16035-16042.	3.1	60
23	Probing the topological phase transition via density oscillations in silicene and germanene. Physical Review B, 2014, 89, .	3.2	53
24	Chiroptical Activity in Silver Cholate Nanostructures Induced by the Formation of Nanoparticle Assemblies. Journal of Physical Chemistry C, 2013, 117, 22240-22244.	3.1	47
25	Aluminum Nanoparticles with Hot Spots for Plasmon-Induced Circular Dichroism of Chiral Molecules in the UV Spectral Interval. Advanced Optical Materials, 2017, 5, 1700069.	7.3	43
26	Doped Silicon Nanocrystal Plasmonics. ACS Photonics, 2017, 4, 963-970.	6.6	43
27	Hot plasmonic electrons for generation of enhanced photocurrent in gold-TiO ₂ nanocomposites. Nanoscale Research Letters, 2015, 10, 38.	5.7	42
28	High and Fast Response of a Graphene-Silicon Photodetector Coupled with 2D Fractal Platinum Nanoparticles. Advanced Optical Materials, 2018, 6, 1700793.	7.3	42
29	Spectral Response of Plasmonic Gold Nanoparticles to Capacitive Charging: Morphology Effects. Journal of Physical Chemistry Letters, 2017, 8, 2681-2688.	4.6	41
30	Fabrication of chiral plasmonic oligomers using cysteine-modified gold nanorods as monomers. Nano Research, 2014, 7, 1699-1705.	10.4	40
31	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO ₂ for Optoelectronic Devices. Advanced Science, 2020, 7, 2001864.	11.2	39
32	Fabricating chiroptical starfruit-like Au nanoparticles via interface modulation of chiral thiols. Nanoscale, 2017, 9, 11093-11102.	5.6	34
33	Effect of electron-hole inhomogeneity on specular Andreev reflection and Andreev retroreflection in a graphene-superconductor hybrid system. Physical Review B, 2011, 83, .	3.2	31
34	Cation exchange synthesis and optoelectronic properties of type II CdTe-Cu ₂ xTe nano-heterostructures. Journal of Materials Chemistry C, 2014, 2, 3189.	5.5	29
35	Plasmonic circular dichroism in side-by-side oligomers of gold nanorods: the influence of chiral molecule location and interparticle distance. Physical Chemistry Chemical Physics, 2015, 17, 8187-8193.	2.8	25
36	Laser-Induced Spectral Hole-Burning through a Broadband Distribution of Au Nanorods. Journal of Physical Chemistry C, 2016, 120, 20518-20524.	3.1	22

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37	Quantum thermal Hall effect in graphene. Physical Review B, 2011, 84, .	3.2	18
38	Dephasing effect on transport of a graphene p-n junction in a quantum Hall regime. Journal of Physics Condensed Matter, 2011, 23, 495301.	1.8	17
39	Plasmonic Metamaterials and Nanocomposites with the Narrow Transparency Window Effect in Broad Extinction Spectra. ACS Photonics, 2014, 1, 822-832.	6.6	16
40	Enhanced Peroxidase-mimicking Activity of Plasmonic Gold-modified Mn ₃ O ₄ Nanocomposites through Photoexcited Hot Electron Transfer. Chemistry - an Asian Journal, 2021, 16, 1603-1607.	3.3	10
41	Stretchable array of metal nanodisks on a 3D sinusoidal wavy elastomeric substrate for frequency tunable plasmonics. Nanotechnology, 2017, 28, 115703.	2.6	9
42	Fabrication of Plasmonic Nanoparticles on a Wave Shape PDMS Substrate. Plasmonics, 2017, 12, 1627-1631.	3.4	7
43	Scaling feature of magnetic field induced Kondo-peak splittings. Physical Review B, 2010, 82, .	3.2	6
44	Theory of quantum spin Hall effect detection by measurements of the polarization resistance. Physical Review B, 2011, 83, .	3.2	3
45	Reply to "Comment on "Scaling feature of magnetic field induced Kondo-peak splittings" ". Physical Review B, 2011, 83, .	3.2	1
46	Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55.		1
47	Strain mapping in symmetrical core-shell gold nanorods from HRTEM images. Vacuum, 2021, 193, 110509.	3.5	1
48	Exciton recombination dynamics in type II CdTe-Cu ₂ -xTe nano-heterostructures with excitonic and plasmonic properties. , 2014, , .		0