

Hui Zhang

List of Publications by Year in descending order

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48
papers

4,288
citations

136950

32
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223800

46
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all docs

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docs citations

48
times ranked

6569
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Peroxidase-mimicking Activity of Plasmonic Gold-modified Mn ₃ O ₄ Nanocomposites through Photoexcited Hot Electron Transfer. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1603-1607.	3.3	10
2	Strain mapping in symmetrical core-shell gold nanorods from HRTEM images. <i>Vacuum</i> , 2021, 193, 110509.	3.5	1
3	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO ₂ for Optoelectronic Devices. <i>Advanced Science</i> , 2020, 7, 2001864.	11.2	39
4	High and Fast Response of a Graphene-Silicon Photodetector Coupled with 2D Fractal Platinum Nanoparticles. <i>Advanced Optical Materials</i> , 2018, 6, 1700793.	7.3	42
5	Relaxation of Plasmon-Induced Hot Carriers. <i>ACS Photonics</i> , 2018, 5, 2584-2595.	6.6	115
6	Stretchable array of metal nanodisks on a 3D sinusoidal wavy elastomeric substrate for frequency tunable plasmonics. <i>Nanotechnology</i> , 2017, 28, 115703.	2.6	9
7	Aluminum Nanoparticles with Hot Spots for Plasmon-Induced Circular Dichroism of Chiral Molecules in the UV Spectral Interval. <i>Advanced Optical Materials</i> , 2017, 5, 1700069.	7.3	43
8	Spectral Response of Plasmonic Gold Nanoparticles to Capacitive Charging: Morphology Effects. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2681-2688.	4.6	41
9	Fabrication of Plasmonic Nanoparticles on a Wave Shape PDMS Substrate. <i>Plasmonics</i> , 2017, 12, 1627-1631.	3.4	7
10	Doped Silicon Nanocrystal Plasmonics. <i>ACS Photonics</i> , 2017, 4, 963-970.	6.6	43
11	Fabricating chiroptical starfruit-like Au nanoparticles via interface modulation of chiral thiols. <i>Nanoscale</i> , 2017, 9, 11093-11102.	5.6	34
12	How To Identify Plasmons from the Optical Response of Nanostructures. <i>ACS Nano</i> , 2017, 11, 7321-7335.	14.6	72
13	Chiral and Achiral Nanodumbbell Dimers: The Effect of Geometry on Plasmonic Properties. <i>ACS Nano</i> , 2016, 10, 6180-6188.	14.6	88
14	Laser-Induced Spectral Hole-Burning through a Broadband Distribution of Au Nanorods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20518-20524.	3.1	22
15	Plasmonic circular dichroism in side-by-side oligomers of gold nanorods: the influence of chiral molecule location and interparticle distance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8187-8193.	2.8	25
16	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015, 1, e1500988.	10.3	146
17	Kinetic Density Functional Theory for Plasmonic Nanostructures: Breaking of the Plasmon Peak in the Quantum Regime and Generation of Hot Electrons. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6181-6194.	3.1	66
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	Fractal Nanoparticle Plasmonics: The Cayley Tree. ACS Nano, 2015, 9, 3284-3292.	14.6	96
20	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. ACS Nano, 2015, 9, 5968-5975.	14.6	87
21	Hot plasmonic electrons for generation of enhanced photocurrent in gold-TiO ₂ nanocomposites. Nanoscale Research Letters, 2015, 10, 38.	5.7	42
22	Picosecond energy transfer and multiexciton transfer outpaces Auger recombination in binary CdSe nanoplatelet solids. Nature Materials, 2015, 14, 484-489.	27.5	211
23	Exciton recombination dynamics in type II CdTe-Cu _{2-x} Te nano-heterostructures with excitonic and plasmonic properties. , 2014, , .		0
24	3D plasmonic chiral colloids. Nanoscale, 2014, 6, 2077.	5.6	98
25	Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications. Nano Today, 2014, 9, 85-101.	11.9	270
26	Optical Generation of Hot Plasmonic Carriers in Metal Nanocrystals: The Effects of Shape and Field Enhancement. Journal of Physical Chemistry C, 2014, 118, 7606-7614.	3.1	178
27	Probing the topological phase transition via density oscillations in silicene and germanene. Physical Review B, 2014, 89, .	3.2	53
28	Fabrication of chiral plasmonic oligomers using cysteine-modified gold nanorods as monomers. Nano Research, 2014, 7, 1699-1705.	10.4	40
29	Cation exchange synthesis and optoelectronic properties of type II CdTe-Cu _{2-x} Te nano-heterostructures. Journal of Materials Chemistry C, 2014, 2, 3189.	5.5	29
30	Theory of Quantum Plasmon Resonances in Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 16035-16042.	3.1	60
31	Hierarchical synthesis of non-centrosymmetric hybrid nanostructures and enabled plasmon-driven photocatalysis. Nature Communications, 2014, 5, 4792.	12.8	107
32	Plasmonic Metamaterials and Nanocomposites with the Narrow Transparency Window Effect in Broad Extinction Spectra. ACS Photonics, 2014, 1, 822-832.	6.6	16
33	Reconfigurable 3D plasmonic metamolecules. Nature Materials, 2014, 13, 862-866.	27.5	585
34	Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55.		1
35	Optical Properties of Chiral Plasmonic Tetramers: Circular Dichroism and Multipole Effects. Journal of Physical Chemistry C, 2013, 117, 14770-14777.	3.1	70
36	Theory of Photoinjection of Hot Plasmonic Carriers from Metal Nanostructures into Semiconductors and Surface Molecules. Journal of Physical Chemistry C, 2013, 117, 16616-16631.	3.1	499

#	ARTICLE	IF	CITATIONS
37	Chiral Plasmonic Nanostructures on Achiral Nanopillars. Nano Letters, 2013, 13, 5277-5283.	9.1	125
38	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
39	Discrete Nanocubes as Plasmonic Reporters of Molecular Chirality. Nano Letters, 2013, 13, 3145-3151.	9.1	178
40	Shedding Light on Vacancy-Doped Copper Chalcogenides: Shape-Controlled Synthesis, Optical Properties, and Modeling of Copper Telluride Nanocrystals with Near-Infrared Plasmon Resonances. ACS Nano, 2013, 7, 4367-4377.	14.6	186
41	Giant circular dichroism of a molecule in a region of strong plasmon resonances between two neighboring gold nanocrystals. Physical Review B, 2013, 87, .	3.2	140
42	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. Angewandte Chemie - International Edition, 2012, 51, 2354-2358.	13.8	209
43	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
44	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
45	Reply to "Comment on "Scaling feature of magnetic field induced Kondo-peak splittings"â€™. Physical Review B, 2011, 83, .	3.2	1
46	Quantum thermal Hall effect in graphene. Physical Review B, 2011, 84, .	3.2	18
47	Theory of quantum spin Hall effect detection by measurements of the polarization resistance. Physical Review B, 2011, 83, .	3.2	3
48	Scaling feature of magnetic field induced Kondo-peak splittings. Physical Review B, 2010, 82, .	3.2	6