

Weihai Ni

List of Publications by Year in descending order

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63
papers

5,225
citations

136950

32
h-index

118850

62
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64
all docs

64
docs citations

64
times ranked

7607
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape- and Size-Dependent Refractive Index Sensitivity of Gold Nanoparticles. <i>Langmuir</i> , 2008, 24, 5233-5237.	3.5	1,126
2	Tailoring Longitudinal Surface Plasmon Wavelengths, Scattering and Absorption Cross Sections of Gold Nanorods. <i>ACS Nano</i> , 2008, 2, 677-686.	14.6	527
3	Au Nanorod Helical Superstructures with Designed Chirality. <i>Journal of the American Chemical Society</i> , 2015, 137, 457-462.	13.7	289
4	pH-Controlled Reversible Assembly and Disassembly of Gold Nanorods. <i>Small</i> , 2008, 4, 1287-1292.	10.0	256
5	Bifacial DNA Origami-Directed Discrete, Three-Dimensional, Anisotropic Plasmonic Nanoarchitectures with Tailored Optical Chirality. <i>Journal of the American Chemical Society</i> , 2013, 135, 11441-11444.	13.7	208
6	Growth of Gold Bipyramids with Improved Yield and Their Curvature-Directed Oxidation. <i>Small</i> , 2007, 3, 2103-2113.	10.0	203
7	A General Approach to the Synthesis of Gold-Metal Sulfide Core-Shell and Heterostructures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2881-2885.	13.8	191
8	Observing Plasmonic-Molecular Resonance Coupling on Single Gold Nanorods. <i>Nano Letters</i> , 2010, 10, 77-84.	9.1	180
9	Coupling between Molecular and Plasmonic Resonances in Freestanding Dye-Gold Nanorod Hybrid Nanostructures. <i>Journal of the American Chemical Society</i> , 2008, 130, 6692-6693.	13.7	179
10	Identification of the Optimal Spectral Region for Plasmonic and Nanoplasmonic Sensing. <i>ACS Nano</i> , 2010, 4, 349-357.	14.6	174
11	Highly uniform SERS substrates formed by wrinkle-confined drying of gold colloids. <i>Chemical Science</i> , 2010, 1, 174.	7.4	127
12	Plasmon Coupling in Clusters Composed of Two-Dimensionally Ordered Gold Nanocubes. <i>Small</i> , 2009, 5, 2111-2119.	10.0	119
13	Chemical seeded growth of Ag nanoparticle arrays and their application as reproducible SERS substrates. <i>Nano Today</i> , 2010, 5, 21-27.	11.9	109
14	Formation of Gold and Silver Nanoparticle Arrays and Thin Shells on Mesostructured Silica Nanofibers. <i>Advanced Functional Materials</i> , 2007, 17, 3258-3266.	14.9	98
15	Effects of Dyes, Gold Nanocrystals, pH, and Metal Ions on Plasmonic and Molecular Resonance Coupling. <i>Journal of the American Chemical Society</i> , 2010, 132, 4806-4814.	13.7	97
16	Novel polymer-free iridescent lamellar hydrogel for two-dimensional confined growth of ultrathin gold membranes. <i>Nature Communications</i> , 2014, 5, 3313.	12.8	95
17	Circular dichroism from single plasmonic nanostructures with extrinsic chirality. <i>Nanoscale</i> , 2014, 6, 14244-14253.	5.6	90
18	Emission enhancement from metallodielectric-capped ZnO films. <i>Journal of Applied Physics</i> , 2006, 100, 026103.	2.5	86

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19	Site-Specific Surface Functionalization of Gold Nanorods Using DNA Origami Clamps. <i>Journal of the American Chemical Society</i> , 2016, 138, 1764-1767.	13.7	84
20	Evidence for Hydrogen-Bonding-Directed Assembly of Gold Nanorods in Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1181-1185.	4.6	81
21	Reconfigurable Plasmonic Diastereomers Assembled by DNA Origami. <i>ACS Nano</i> , 2019, 13, 13702-13708.	14.6	66
22	Strong Chiroptical Activities in Gold Nanorod Dimers Assembled Using DNA Origami Templates. <i>ACS Photonics</i> , 2015, 2, 392-397.	6.6	63
23	Role of Bromide in Hydrogen Peroxide Oxidation of CTAB-Stabilized Gold Nanorods in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 4072-4077.	3.5	56
24	Multifunctional Mesostructured Silica Microspheres from an Ultrasonic Aerosol Spray. <i>Advanced Functional Materials</i> , 2008, 18, 2956-2962.	14.9	53
25	Incorporation of Gold Nanorods and Their Enhancement of Fluorescence in Mesostructured Silica Thin Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18895-18903.	3.1	52
26	Enhancing Single-Nanoparticle Surface-Chemistry by Plasmonic Overheating in an Optical Trap. <i>Nano Letters</i> , 2012, 12, 4647-4650.	9.1	51
27	Mapping Hot Electron Response of Individual Gold Nanocrystals on a TiO ₂ Photoanode. <i>Nano Letters</i> , 2020, 20, 2423-2431.	9.1	44
28	Gold nanorod@iron oxide core-shell heterostructures: synthesis, characterization, and photocatalytic performance. <i>Nanoscale</i> , 2017, 9, 3925-3933.	5.6	43
29	Controllable Biosynthesis and Properties of Gold Nanoplates Using Yeast Extract. <i>Nano-Micro Letters</i> , 2017, 9, 5.	27.0	42
30	Surface-enhanced Raman scattering from AgNP-graphene-AgNP sandwiched nanostructures. <i>Nanoscale</i> , 2015, 7, 17529-17537.	5.6	37
31	Optical Fiber-Excited Surface Plasmon Resonance Spectroscopy of Single and Ensemble Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8105-8109.	3.1	33
32	DNA Origami-Directed, Discrete Three-Dimensional Plasmonic Tetrahedron Nanoarchitectures with Tailored Optical Chirality. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5388-5392.	8.0	33
33	Angle-Resolved Plasmonic Properties of Single Gold Nanorod Dimers. <i>Nano-Micro Letters</i> , 2014, 6, 372-380.	27.0	29
34	Antibonding Plasmon Modes in Colloidal Gold Nanorod Clusters. <i>Langmuir</i> , 2012, 28, 8826-8833.	3.5	27
35	DNA-Directed Gold Nanodimers with Tailored Ensemble Surface-Enhanced Raman Scattering Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10423-10427.	8.0	27
36	Direct coating of mesoporous titania on CTAB-capped gold nanorods. <i>Nanoscale</i> , 2016, 8, 5417-5421.	5.6	26

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37	Fluorescent Mesoporous Polythiophene@Silica Composite Particles Synthesized by in Situ Polymerization of Structure-Directing Monomers. <i>Chemistry of Materials</i> , 2007, 19, 6222-6229.	6.7	25
38	Tuning the structural asymmetries of three-dimensional gold nanorod assemblies. <i>Chemical Communications</i> , 2015, 51, 13627-13629.	4.1	24
39	Near infrared distributed feedback lasers based on LDS dye-doped zirconia-organically modified silicate channel waveguides. <i>Optics Express</i> , 2005, 13, 1643.	3.4	20
40	Rapid Seedless Synthesis of Gold Nanoplates with Microscaled Edge Length in a High Yield and Their Application in SERS. <i>Nano-Micro Letters</i> , 2016, 8, 328-335.	27.0	18
41	Dispersive Plasmon Damping in Single Gold Nanorods by Platinum Adsorbates. <i>Small</i> , 2016, 12, 5081-5089.	10.0	11
42	Au/NaYF ₄ :Yb,Er Binary Superparticles: Synthesis and Optical Properties. <i>Israel Journal of Chemistry</i> , 2016, 56, 242-248.	2.3	10
43	DNA-Assembled Chiral Satellite-Core Nanoparticle Superstructures: Two-State Chiral Interactions from Dynamic and Static Conformations. <i>Nano Letters</i> , 2022, 22, 4784-4791.	9.1	10
44	2D Confined-Space Assisted Growth of Molecular-Level-Thick Polypyrrole Sheets with High Conductivity and Transparency. <i>Macromolecular Rapid Communications</i> , 2016, 37, 590-596.	3.9	9
45	Emergent phases in a compass chain with multisite interactions. <i>Physical Review B</i> , 2017, 95, .	3.2	9
46	Enhancement of interfacial catalysis in a triphase reactor using oxygen nanocarriers. <i>Nano Research</i> , 2021, 14, 172-176.	10.4	9
47	<i>In situ</i> monitoring of silver adsorption on assembled gold nanorods by surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2020, 31, 295601.	2.6	8
48	Fano-like chiroptical response in plasmonic heterodimer nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3604-3610.	2.8	7
49	Amplified spontaneous emission from an infrared dye doped zirconia-organically modified silicate thin film waveguides. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 44, 53-57.	2.4	6
50	Hot spots growth on single nanowire controlled by electric charge. <i>Nanoscale</i> , 2016, 8, 12029-12034.	5.6	6
51	Massively Screening the Temporal Spectra of Single Nanoparticles to Uncover the Mechanism of Nanosynthesis. <i>Small</i> , 2016, 12, 5049-5057.	10.0	5
52	Tailoring optical cross sections of gold nanorods at a target plasmonic resonance wavelength using bromosalicylic acid. <i>RSC Advances</i> , 2019, 9, 16028-16034.	3.6	5
53	Fabrication and Broadband Upconversion Luminescence of Au@TiO ₂ :Yb, Er Core-Shell Nanostructures. <i>Chemistry Letters</i> , 2019, 48, 651-653.	1.3	5
54	Metal Adsorbate-Induced Plasmon Damping in Gold Nanorods: The Difference Between Metals. <i>Nano</i> , 2016, 11, 1650099.	1.0	4

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55	Exponential Dependence of Photocatalytic Activity on Linker Chain Length of Au-Linker-Cu ₂ O Plasmonic Photocatalysts with Sub-nanometer Precision. <i>Catalysis Letters</i> , 2018, 148, 3363-3369.	2.6	4
56	Gold Nanorod@Ruthenium Oxide Core-Shell Heterostructures: Synthesis, Single-Particle Characterizations, and Enhanced Hot Electron Generation. <i>Advanced Optical Materials</i> , 2021, 9, 2002136.	7.3	4
57	Plasmonic thermochromism based on a reversible redox reaction of Ag ⁺ /Ag on Au nanorods. <i>Nanoscale</i> , 2020, 12, 7301-7308.	5.6	3
58	Collective resonance in helical superstructures of gold nanorods. <i>Physical Review B</i> , 2020, 101, .	3.2	3
59	4.9% Au stabilizes Ag in an atomically homogenous bimetallic alloy for anisotropic nanocrystals with enhanced stability under light irradiation. <i>Nanoscale</i> , 2021, 13, 10335-10341.	5.6	2
60	Enhancement of Hot Electron Generation in Colloidal Plasmonic Nanocrystals by Adsorption of Pt Clusters. <i>Advanced Optical Materials</i> , 0, , 2102720.	7.3	2
61	Chainlike assembly of oleic acid-capped NaYF ₄ :Yb,Er nanoparticles and their fixing by silica encapsulation. <i>RSC Advances</i> , 2016, 6, 62019-62023.	3.6	1
62	Single-particle spectroscopic investigation on the scattering spectrum of Au@MoS ₂ core-shell nanosphere heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
63	Amplification of optical pulse signal using chirped fiber grating. , 2002, , .		0