List of Publications by Year in descending order

250 papers	49,231 citations	3333 91 h-index	1496 219 g-index
258 all docs	258 docs citations	258 times ranked	42654 citing authors

#	Article	IF	Citations
1	The golden age: gold nanoparticles for biomedicine. Chemical Society Reviews, 2012, 41, 2740-2779.	18.7	2,900
2	Anisotropic Metal Nanoparticles:Â Synthesis, Assembly, and Optical Applications. Journal of Physical Chemistry B, 2005, 109, 13857-13870.	1.2	2,820
3	Wet Chemical Synthesis of High Aspect Ratio Cylindrical Gold Nanorods. Journal of Physical Chemistry B, 2001, 105, 4065-4067.	1.2	2,386
4	Gold Nanoparticles Are Taken Up by Human Cells but Do Not Cause Acute Cytotoxicity. Small, 2005, 1, 325-327.	5.2	2,190
5	Gold Nanoparticles in Biology: Beyond Toxicity to Cellular Imaging. Accounts of Chemical Research, 2008, 41, 1721-1730.	7.6	1,637
6	Room Temperature, High-Yield Synthesis of Multiple Shapes of Gold Nanoparticles in Aqueous Solution. Journal of the American Chemical Society, 2004, 126, 8648-8649.	6.6	1,506
7	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. Journal of Nanoparticle Research, 2010, 12, 2313-2333.	0.8	1,300
8	Seeded High Yield Synthesis of Short Au Nanorods in Aqueous Solution. Langmuir, 2004, 20, 6414-6420.	1.6	1,293
9	Seeding Growth for Size Control of 5â^'40 nm Diameter Gold Nanoparticles. Langmuir, 2001, 17, 6782-6786.	1.6	1,230
10	Wet chemical synthesis of silver nanorods and nanowires of controllable aspect ratio. Chemical Communications, 2001, , 617-618.	2.2	1,084
11	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. Small, 2009, 5, 701-708.	5.2	927
12	Growth and form of gold nanorods prepared by seed-mediated, surfactant-directed synthesis. Journal of Materials Chemistry, 2002, 12, 1765-1770.	6.7	908
13	Seed-Mediated Synthesis of Gold Nanorods:Â Role of the Size and Nature of the Seed. Chemistry of Materials, 2004, 16, 3633-3640.	3.2	873
14	Recent Progress in Cancer Thermal Therapy Using Gold Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 4691-4716.	1.5	778
15	Gold nanorods: Their potential for photothermal therapeutics and drug delivery, tempered by the complexity of their biological interactions. Advanced Drug Delivery Reviews, 2012, 64, 190-199.	6.6	721
16	Quantitation of Metal Content in the Silver-Assisted Growth of Gold Nanorods. Journal of Physical Chemistry B, 2006, 110, 3990-3994.	1.2	652
17	Preferential End-to-End Assembly of Gold Nanorods by Biotinâ^'Streptavidin Connectors. Journal of the American Chemical Society, 2003, 125, 13914-13915.	6.6	643
18	Evidence for Seed-Mediated Nucleation in the Chemical Reduction of Gold Salts to Gold Nanoparticles. Chemistry of Materials, 2001, 13, 2313-2322.	3.2	641

#	Article	IF	Citations
19	Photophysical Properties of ZnS Nanoclusters with Spatially Localized Mn2+. The Journal of Physical Chemistry, 1996, 100, 4551-4555.	2.9	638
20	Surface-Enhanced Raman Spectroscopy of Self-Assembled Monolayers:Â Sandwich Architecture and Nanoparticle Shape Dependence. Analytical Chemistry, 2005, 77, 3261-3266.	3.2	628
21	Solution-Phase Synthesis of Cu2O Nanocubes. Nano Letters, 2003, 3, 231-234.	4.5	627
22	Toxicity of Engineered Nanoparticles in the Environment. Analytical Chemistry, 2013, 85, 3036-3049.	3.2	604
23	Seedless, Surfactantless Wet Chemical Synthesis of Silver Nanowires. Nano Letters, 2003, 3, 667-669.	4.5	585
24	The Quest for Shape Control: A History of Gold Nanorod Synthesis. Chemistry of Materials, 2013, 25, 1250-1261.	3.2	578
25	Dependence of the Gold Nanorod Aspect Ratio on the Nature of the Directing Surfactant in Aqueous Solution. Langmuir, 2003, 19, 9065-9070.	1.6	568
26	Solution-Phase Synthesis of Sub-10 nm Auâ^'Ag Alloy Nanoparticles. Nano Letters, 2002, 2, 1235-1237.	4.5	542
27	Chemical sensing and imaging with metallic nanorods. Chemical Communications, 2008, , 544-557.	2.2	496
28	Fine-Tuning the Shape of Gold Nanorods. Chemistry of Materials, 2005, 17, 3668-3672.	3.2	483
29	Targeted Photothermal Lysis of the Pathogenic Bacteria, Pseudomonas aeruginosa, with Gold Nanorods. Nano Letters, 2008, 8, 302-306.	4.5	467
30	MATERIALS SCIENCE: Nanocubes and Nanoboxes. Science, 2002, 298, 2139-2141.	6.0	442
31	Peer Reviewed: Optical Sensing with Quantum Dots. Analytical Chemistry, 2002, 74, 520 A-526 A.	3.2	442
32	Aspect ratio dependence on surface enhanced Raman scattering using silver and gold nanorod substrates. Physical Chemistry Chemical Physics, 2006, 8, 165-170.	1.3	438
33	Applications of Colloidal Inorganic Nanoparticles: From MedicineÂtoÂEnergy. Journal of the American Chemical Society, 2012, 134, 15607-15620.	6.6	388
34	Polyelectrolyte-Coated Gold Nanorods:â€‰ Synthesis, Characterization and Immobilization. Chemistry of Materials, 2005, 17, 1325-1330.	3.2	387
35	Self-Assembly Patterns Formed upon Solvent Evaporation of Aqueous Cetyltrimethylammonium Bromide-Coated Gold Nanoparticles of Various Shapes. Langmuir, 2005, 21, 2923-2929.	1.6	375
36	One-Dimensional Colloidal Gold and Silver Nanostructures. Inorganic Chemistry, 2006, 45, 7544-7554.	1.9	361

#	Article	IF	Citations
37	Distance and Plasmon Wavelength Dependent Fluorescence of Molecules Bound to Silica-Coated Gold Nanorods. ACS Nano, 2014, 8, 8392-8406.	7.3	356
38	Shape-Dependent Plasmon-Resonant Gold Nanoparticles. Small, 2006, 2, 636-639.	5.2	343
39	Anisotropic Noble Metal Nanocrystal Growth: The Role of Halides. Chemistry of Materials, 2014, 26, 34-43.	3.2	340
40	Nanoindentation of Silver Nanowires. Nano Letters, 2003, 3, 1495-1498.	4.5	335
41	Synthesis and DNA-Binding Properties of [Ru(NH3)4dppz]2+. Inorganic Chemistry, 1998, 37, 139-141.	1.9	316
42	Transfer of gold nanoparticles from the water column to the estuarine food web. Nature Nanotechnology, 2009, 4, 441-444.	15.6	307
43	Preparation of Polystyrene- and Silica-Coated Gold Nanorods and Their Use as Templates for the Synthesis of Hollow Nanotubes. Nano Letters, 2001, 1, 601-603.	4.5	304
44	The Gold Standard: Gold Nanoparticle Libraries To Understand the Nanoâ€“Bio Interface. Accounts of Chemical Research, 2013, 46, 650-661.	7.6	293
45	Nanoparticles for Imaging, Sensing, and Therapeutic Intervention. ACS Nano, 2014, 8, 3107-3122.	7.3	255
46	The Many Faces of Gold Nanorods. Journal of Physical Chemistry Letters, 2010, 1, 2867-2875.	2.1	247
47	Sensing Strategy for Lithium Ion Based on Gold Nanoparticles. Langmuir, 2002, 18, 10407-10410.	1.6	246
48	A Blue-Emitting CdS/Dendrimer Nanocomposite. Advanced Materials, 1998, 10, 1083-1087.	11.1	245
49	Anisotropic Chemical Reactivity of Gold Spheroids and Nanorods. Langmuir, 2002, 18, 922-927.	1.6	226
50	Gold nanorod crystal growth: From seed-mediated synthesis to nanoscale sculpting. Current Opinion in Colloid and Interface Science, 2011, 16, 128-134.	3.4	219
51	Nanoparticleâ€“Protein Interactions: A Thermodynamic and Kinetic Study of the Adsorption of Bovine Serum Albumin to Gold Nanoparticle Surfaces. Langmuir, 2013, 29, 14984-14996.	1.6	216
52	Luminescence Spectral Properties of CdS Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 7613-7620.	1.2	213
53	A Simple Millifluidic Benchtop Reactor System for the High-Throughput Synthesis and Functionalization of Gold Nanoparticles with Different Sizes and Shapes. ACS Nano, 2013, 7, 4135-4150.	7.3	210
54	Protein-Sized Quantum Dot Luminescence Can Distinguish between "Straight", "Bent", and "Kinked" Oligonucleotides. Journal of the American Chemical Society, 1995, 117, 9099-9100.	6.6	206

#	Article	IF	Citations
55	Impacts of gold nanoparticle charge and ligand type on surface binding and toxicity to Gram-negative and Gram-positive bacteria. Chemical Science, 2015, 6, 5186-5196.	3.7	203
56	Sustainability as an emerging design criterion in nanoparticle synthesis and applications. Journal of Materials Chemistry, 2008, 18, 2173.	6.7	193
57	Uptake, distribution and toxicity of gold nanoparticles in tobacco (Nicotiana xanthi) seedlings. Nanotoxicology, 2012, 6, 353-360.	1.6	192
58	Liquid crystalline assemblies of ordered gold nanorods. Journal of Materials Chemistry, 2002, 12, 2909-2912.	6.7	191
59	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. Environmental Science & Technology, 2016, 50, 6124-6145.	4.6	191
60	Deposition of CTAB-Terminated Nanorods on Bacteria to Form Highly Conducting Hybrid Systems. Journal of the American Chemical Society, 2005, 127, 17600-17601.	6.6	190
61	Oligonucleotide Adsorption to Gold Nanoparticles:Â A Surface-Enhanced Raman Spectroscopy Study of Intrinsically Bent DNA. Journal of Physical Chemistry B, 2001, 105, 12609-12615.	1.2	188
62	Variation of Protein Corona Composition of Gold Nanoparticles Following Plasmonic Heating. Nano Letters, 2014, 14, 6-12.	4.5	184
63	Controlling the size of Cu2O nanocubes from 200 to 25 nm. Journal of Materials Chemistry, 2004, 14, 735.	6.7	182
64	Surfactant-Directed Synthesis and Optical Properties of One-Dimensional Plasmonic Metallic Nanostructures. MRS Bulletin, 2005, 30, 349-355.	1.7	169
65	Nanoindentation of Cu2O Nanocubes. Nano Letters, 2004, 4, 1903-1907.	4.5	168
66	Bimetallic silverâ€“gold nanowires: fabrication and use in surface-enhanced Raman scattering. Journal of Materials Chemistry, 2006, 16, 3929-3935.	6.7	168
67	Azide-Derivatized Gold Nanorods:â€‰ Functional Materials for â€œClickâ€•Chemistry. Langmuir, 2008, 24, 266-272.	1.6	163
68	Anisotropic Nanoparticles and Anisotropic Surface Chemistry. Journal of Physical Chemistry Letters, 2016, 7, 632-641.	2.1	162
69	Mini Gold Nanorods with Tunable Plasmonic Peaks beyond 1000 nm. Chemistry of Materials, 2018, 30, 1427-1435.	3.2	161
70	Temperature- and Salt-Dependent Binding of Long DNA to Protein-Sized Quantum Dots:Â Thermodynamics of â€œInorganic Proteinâ€â€”DNA Interactions. Journal of the American Chemical Society, 2000, 122, 14-17.	6.6	159
71	Optical Properties of [Ru(phen)2dppz]2+as a Function of Nonaqueous Environment. Inorganic Chemistry, 1997, 36, 962-965.	1.9	158
72	Measurement of Local DNA Reorganization on the Picosecond and Nanosecond Time Scales. Journal of the American Chemical Society, 1999, 121, 11644-11649.	6.6	158

#	Article	IF	Citations
73	Biotinâˆ’Streptavidin-Induced Aggregation of Gold Nanorods:Â Tuning Rodâˆ’Rod Orientation. Langmuir, 2005, 21, 10756-10762.	1.6	156
74	Surface Chemistry of Gold Nanorods. Langmuir, 2016, 32, 9905-9921.	1.6	156
75	Understanding the Seed-Mediated Growth of Gold Nanorods through a Fractional Factorial Design of Experiments. Langmuir, 2017, 33, 1891-1907.	1.6	154
76	Surface chemistry, charge and ligand type impact the toxicity of gold nanoparticles to Daphnia magna. Environmental Science: Nano, 2014, 1, 260-270.	2.2	143
77	Power-Law Solvation Dynamics in DNA over Six Decades in Time. Journal of the American Chemical Society, 2005, 127, 7270-7271.	6.6	141
78	pH-Triggered Assembly of Gold Nanorods. Langmuir, 2005, 21, 2022-2026.	1.6	136
79	Ultrafast Dynamics in DNA:â€‰â€œFrayingâ€•at the End of the Helix. Journal of the American Chemical Society, 2006, 128, 6885-6892.	6.6	130
80	Complex Local Dynamics in DNA on the Picosecond and Nanosecond Time Scales. Physical Review Letters, 2002, 88, 158101.	2.9	129
81	Off-Resonance Surface-Enhanced Raman Spectroscopy from Gold Nanorod Suspensions as a Function of Aspect Ratio: Not What We Thought. ACS Nano, 2013, 7, 2099-2105.	7.3	126
82	One low-dose exposure of gold nanoparticles induces long-term changes in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13318-13323.	3.3	124
83	Immobilization of Gold Nanorods onto Acid-Terminated Self-Assembled Monolayers via Electrostatic Interactions. Langmuir, 2004, 20, 7117-7122.	1.6	122
84	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. ACS Central Science, 2015, 1, 117-123.	5.3	121
85	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. Environmental Science & Technology, 2015, 49, 10642-10650.	4.6	103
86	Using Gold Nanorods to Probe Cell-Induced Collagen Deformation. Nano Letters, 2007, 7, 116-119.	4.5	102
87	Time-Resolved Spectral Observations of Cadmium-Enriched Cadmium Sulfide Nanoparticles and the Effects of DNA Oligomer Binding. Analytical Biochemistry, 2000, 280, 128-136.	1.1	99
88	Preferential Adsorption of a â€œKinkedâ€•DNA to a Neutral Curved Surface:Â Comparisons to and Implications for Nonspecific DNAâˆ’Protein Interactions. Journal of the American Chemical Society, 1996, 118, 7028-7032.	6.6	98
89	Resonant secondary light emission from plasmonic Au nanostructures at high electron temperatures created by pulsed-laser excitation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 906-911.	3.3	96
90	New Advances in Nanotechnology-Based Diagnosis and Therapeutics for Breast Cancer: An Assessment of Active-Targeting Inorganic Nanoplatforms. Bioconjugate Chemistry, 2017, 28, 135-152.	1.8	95

#	Article	IF	Citations
91	[25] Ruthenium complexes as luminescent reporters of DNA. Methods in Enzymology, 1993, 226, 576-594.	0.4	94
92	Study of Wild-Type Î±-Synuclein Binding and Orientation on Gold Nanoparticles. Langmuir, 2013, 29, 4603-4615.	1.6	91
93	Cation Exchange on the Surface of Gold Nanorods with a Polymerizable Surfactant: Polymerization, Stability, and Toxicity Evaluation. Langmuir, 2010, 26, 9328-9333.	1.6	87
94	Local Dynamics in DNA by Temperature-Dependent Stokes Shifts of an Intercalated Dye. Journal of the American Chemical Society, 1998, 120, 2449-2456.	6.6	86
95	Surface-Coverage Dependence of Surface-Enhanced Raman Scattering from Gold Nanocubes on Self-Assembled Monolayers of Analyte. Journal of Physical Chemistry A, 2009, 113, 3973-3978.	1.1	85
96	Oligonucleotide-Directed Assembly of Materials:â€‰ Defined Oligomers. Journal of the American Chemical Society, 2001, 123, 1828-1833.	6.6	84
97	Quantitative Determination of Ligand Densities on Nanomaterials by X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2015, 7, 1720-1725.	4.0	79
98	Iron Oxide Coated Gold Nanorods: Synthesis, Characterization, and Magnetic Manipulation. Langmuir, 2008, 24, 6232-6237.	1.6	77
99	Effects of charge and surface ligand properties of nanoparticles on oxidative stress and gene expression within the gut of Daphnia magna. Aquatic Toxicology, 2015, 162, 1-9.	1.9	77
100	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. Journal of Physical Chemistry C, 2015, 119, 534-546.	1.5	77
101	Gold Nanorods as Nanoadmicelles: 1-Naphthol Partitioning into a Nanorod-Bound Surfactant Bilayer. Langmuir, 2008, 24, 10235-10239.	1.6	76
102	Polyamineâ^'Quantum Dot Nanocomposites:Â Linear versus Starburst Stabilizer Architectures. Chemistry of Materials, 1999, 11, 3595-3601.	3.2	75
103	Control of Protein Orientation on Gold Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 21035-21043.	1.5	75
104	Aggregation Kinetics of Dendrimer-Stabilized CdS Nanoclusters. Langmuir, 2000, 16, 2621-2626.	1.6	70
105	Platinum Ion Uptake by Dendrimers:Â An NMR and AFM Study. Inorganic Chemistry, 2004, 43, 1421-1428.	1.9	70
106	Ultrafast Thermal Analysis of Surface Functionalized Gold Nanorods in Aqueous Solution. ACS Nano, 2013, 7, 589-597.	7.3	69
107	Advances in contrast agents, reporters, and detection. Journal of Biomedical Optics, 2001, 6, 106.	1.4	68
108	Polyelectrolyte Wrapping Layers Control Rates of Photothermal Molecular Release from Gold Nanorods. Nano Letters, 2012, 12, 2982-2987.	4.5	68

#	Article	IF	Citations
109	Formation of supported lipid bilayers containing phase-segregated domains and their interaction with gold nanoparticles. Environmental Science: Nano, 2016, 3, 45-55.	2.2	68
110	Lifetime-based fiber-optic water sensor using a luminescent complex in a lithium-treated Nafionâ„¢ membrane. Analytica Chimica Acta, 2001, 448, 1-8.	2.6	66
111	Solution NMR Analysis of Ligand Environment in Quaternary Ammonium-Terminated Self-Assembled Monolayers on Gold Nanoparticles: The Effect of Surface Curvature and Ligand Structure. Journal of the American Chemical Society, 2019, 141, 4316-4327.	6.6	66
112	Best Practices for the Reporting of Colloidal Inorganic Nanomaterials. Chemistry of Materials, 2015, 27, 4911-4913.	3.2	64
113	Influence of gold nanoparticle surface chemistry and diameter upon Alzheimerâ€™s disease amyloid-Î² protein aggregation. Journal of Biological Engineering, 2017, 11, 5.	2.0	63
114	Nanovacuums: Nanoparticle Uptake and Differential Cellular Migration on a Carpet of Nanoparticles. Nano Letters, 2013, 13, 2295-2302.	4.5	62
115	AFM Characterization of Dendrimer-Stabilized Platinum Nanoparticles. Langmuir, 2005, 21, 3122-3131.	1.6	60
116	Opportunities for Electrocatalytic CO₂ Reduction Enabled by Surface Ligands. Journal of the American Chemical Society, 2022, 144, 2829-2840.	6.6	60
117	Gold Nanoparticles with a Polymerizable Surfactant Bilayer: Synthesis, Polymerization, and Stability Evaluation. Langmuir, 2009, 25, 13874-13879.	1.6	59
118	Plastic deformation of pentagonal silver nanowires: Comparison between AFM nanoindentation and atomistic simulations. Physical Review B, 2008, 77, .	1.1	57
119	Cascading Effects of Nanoparticle Coatings: Surface Functionalization Dictates the Assemblage of Complexed Proteins and Subsequent Interaction with Model Cell Membranes. ACS Nano, 2017, 11, 5489-5499.	7.3	57
120	Emission Spectral Properties of Cadmium Sulfide Nanoparticles with Multiphoton Excitation. Journal of Physical Chemistry B, 2002, 106, 5365-5370.	1.2	55
121	Effect of lesions on the dynamics of DNA on the picosecond and nanosecond timescales using a polarity sensitive probe. Nucleic Acids Research, 2004, 32, 2494-2507.	6.5	55
122	Identification of Nanoparticles with a Colorimetric Sensor Array. ACS Sensors, 2016, 1, 17-21.	4.0	55
123	Virus-Sized Gold Nanorods: Plasmonic Particles for Biology. Accounts of Chemical Research, 2019, 52, 2124-2135.	7.6	54
124	Polyelectrolyte Coating Provides a Facile Route to Suspend Gold Nanorods in Polar Organic Solvents and Hydrophobic Polymers. ACS Applied Materials & Interfaces, 2010, 2, 3417-3421.	4.0	53
125	NanoEHS â€“ defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.	2.2	53
126	Tuning Cellular Response to Nanoparticles via Surface Chemistry and Aggregation. Small, 2014, 10, 1642-1651.	5.2	52

#	Article	IF	Citations
127	A Possible Oriented Attachment Growth Mechanism for Silver Nanowire Formation. Crystal Growth and Design, 2015, 15, 1968-1974.	1.4	52
128	Tunable One-Dimensional Silverâ"Silica Nanopeapod Architectures. Journal of Physical Chemistry B, 2006, 110, 7226-7231.	1.2	51
129	Polyelectrolyte-coated gold nanorods and their interactions with type I collagen. Biomaterials, 2009, 30, 5639-5648.	5.7	51
130	Metagenomic analysis of microbial communities yields insight into impacts of nanoparticle design. Nature Nanotechnology, 2018, 13, 253-259.	15.6	51
131	On the interaction of [Ru(phen)2dppz]2+ (dppz=dipyrido[3,2-a:2â€²,3â€²-c]phenazine) with different oligonucleotides. Journal of Inorganic Biochemistry, 1998, 69, 129-133.	1.5	50
132	Plasmonic Enhancement of the Two Photon Absorption Cross Section of an Organic Chromophore Using Polyelectrolyte-Coated Gold Nanorods. Langmuir, 2012, 28, 9147-9154.	1.6	50
133	Thermal Transport across Surfactant Layers on Gold Nanorods in Aqueous Solution. ACS Applied Materials & Interfaces, 2016, 8, 10581-10589.	4.0	50
134	Quantitative Imaging of Organic Ligand Density on Anisotropic Inorganic Nanocrystals. Nano Letters, 2019, 19, 6308-6314.	4.5	50
135	Photoluminescence-based correlation of semiconductor electric field thickness with adsorbate Hammett substituent constants. Adsorption of aniline derivatives onto cadmium selenide. Journal of the American Chemical Society, 1990, 112, 8344-8348.	6.6	49
136	In Situ Attenuated Total Reflection Infrared Spectroscopy of Dendrimer-Stabilized Platinum Nanoparticles Adsorbed on Alumina. Journal of Physical Chemistry B, 2004, 108, 12911-12916.	1.2	49
137	Spheres vs. rods: The shape of gold nanoparticles influences aggregation and deposition behavior. Chemosphere, 2013, 91, 93-98.	4.2	49
138	In solution SERS sensing using mesoporous silica-coated gold nanorods. Analyst, The, 2016, 141, 5088-5095.	1.7	49
139	Oxidation State of Capping Agent Affects Spatial Reactivity on Gold Nanorods. Journal of the American Chemical Society, 2017, 139, 9851-9854.	6.6	49
140	Nanoscale structure and dynamics of DNA. Physical Chemistry Chemical Physics, 2008, 10, 1229-1242.	1.3	47
141	Heat Transport between Au Nanorods, Surrounding Liquids, and Solid Supports. Journal of Physical Chemistry C, 2012, 116, 26335-26341.	1.5	47
142	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. CheM, 2018, 4, 2709-2723.	5.8	46
143	The Effect of Gold Nanorods on Cell-Mediated Collagen Remodeling. Nano Letters, 2008, 8, 3409-3412.	4.5	45
144	Seed mediated growth of gold nanorods: towards nanorod matryoshkas. Faraday Discussions, 2016, 191, 9-33.	1.6	45

#	Article	IF	Citations
145	Growth-Based Bacterial Viability Assay for Interference-Free and High-Throughput Toxicity Screening of Nanomaterials. Analytical Chemistry, 2017, 89, 2057-2064.	3.2	45
146	Protein Adsorption to Charged Gold Nanospheres as a Function of Protein Deformability. Langmuir, 2017, 33, 7751-7761.	1.6	45
147	Evidence for Patchy Lipid Layers on Gold Nanoparticle Surfaces. Langmuir, 2012, 28, 5404-5416.	1.6	44
148	A Two-Color Fluorescent Lithium Ion Sensor. Inorganic Chemistry, 2001, 40, 6080-6082.	1.9	43
149	Coumarin base-pair replacement as a fluorescent probe of ultrafast DNA dynamics. Tetrahedron, 2007, 63, 3450-3456.	1.0	42
150	Quantification of Lipid Corona Formation on Colloidal Nanoparticles from Lipid Vesicles. Analytical Chemistry, 2018, 90, 14387-14394.	3.2	41
151	Î±-Synucleinâ€™s Adsorption, Conformation, and Orientation on Cationic Gold Nanoparticle Surfaces Seeds Global Conformation Change. Journal of Physical Chemistry B, 2014, 118, 3559-3571.	1.2	38
152	Microfluidic-SERS devices for one shot limit-of-detection. Analyst, The, 2014, 139, 3227-3234.	1.7	37
153	Light scattering from gold nanorods: tracking material deformation. Nanotechnology, 2005, 16, 2601-2605.	1.3	36
154	Co-transport of gold nanospheres with single-walled carbon nanotubes in saturated porous media. Water Research, 2016, 99, 7-15.	5.3	36
155	Layer-by-Layer Synthesis of Conformal Metalâ€“Organic Framework Shells on Gold Nanorods. Chemistry of Materials, 2018, 30, 7255-7261.	3.2	34
156	Sodium-Ion Binding to DNA:â€‰ Detection by Ultrafast Time-Resolved Stokes-Shift Spectroscopy. Journal of the American Chemical Society, 2003, 125, 11812-11813.	6.6	33
157	Using an environmentally-relevant panel of Gram-negative bacteria to assess the toxicity of polyallylamine hydrochloride-wrapped gold nanoparticles. Environmental Science: Nano, 2018, 5, 279-288.	2.2	32
158	Surface Charge Controls the Fate of Au Nanorods in Saline Estuaries. Environmental Science & Technology, 2013, 47, 12844-12851.	4.6	31
159	Interactions of Bacterial Lipopolysaccharides with Gold Nanorod Surfaces Investigated by Refractometric Sensing. ACS Applied Materials & Interfaces, 2015, 7, 24915-24925.	4.0	31
160	Sulfate-Mediated End-to-End Assembly of Gold Nanorods. Langmuir, 2017, 33, 1486-1495.	1.6	31
161	Preferential Binding of Cytochrome c to Anionic Ligand-Coated Gold Nanoparticles: A Complementary Computational and Experimental Approach. ACS Nano, 2019, 13, 6856-6866.	7.3	31
162	Role of Monovalent Counterions in the Ultrafast Dynamics of DNA. Journal of Physical Chemistry B, 2006, 110, 13248-13255.	1.2	30

#	Article	IF	Citations
163	Measuring binding kinetics of aromatic thiolated molecules with nanoparticles via surface-enhanced Raman spectroscopy. Nanoscale, 2015, 7, 8766-8775.	2.8	30
164	One-pot synthesis of silica-coated magnetic plasmonic tracer nanoparticles. Chemical Communications, 2008, , 6140.	2.2	29
165	Homing Peptide-Conjugated Gold Nanorods: The Effect of Amino Acid Sequence Display on Nanorod Uptake and Cellular Proliferation. Bioconjugate Chemistry, 2014, 25, 1162-1171.	1.8	29
166	On Electronic and Charge Interference in Second Harmonic Generation Responses from Gold Metal Nanoparticles at Supported Lipid Bilayers. Journal of Physical Chemistry C, 2016, 120, 20659-20667.	1.5	29
167	Quantification of Free Polyelectrolytes Present in Colloidal Suspension, Revealing a Source of Toxic Responses for Polyelectrolyte-Wrapped Gold Nanoparticles. Analytical Chemistry, 2017, 89, 1823-1830.	3.2	29
168	Glycosaminoglycan-functionalized gold nanorods: interactions with cardiac cells and type I collagen. Journal of Materials Chemistry, 2009, 19, 6332.	6.7	28
169	Competition Between Extinction and Enhancement in Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 1193-1196.	2.1	28
170	A Demonstration of Le Chatelierâ€™s Principle on the Nanoscale. ACS Central Science, 2017, 3, 1096-1102.	5.3	28
171	Adsorption of Cellular Proteins to Polyelectrolyte-Functionalized Gold Nanorods: A Mechanism for Nanoparticle Regulation of Cell Phenotype?. PLoS ONE, 2014, 9, e86670.	1.1	27
172	Influence of the nature of quantum dot surface cations on interactions with DNA. Journal of Inorganic Biochemistry, 2007, 101, 559-564.	1.5	26
173	Synthesis and Characterization of Silverâ€“Platinum Bimetallic Nanowires and Platinum Nanotubes. Journal of Cluster Science, 2009, 20, 319-330.	1.7	26
174	Tuning of size and shape of Auâ€“Pt nanocatalysts for direct methanol fuel cells. Journal of Nanoparticle Research, 2011, 13, 6347-6364.	0.8	26
175	High-Index Facets in Gold Nanocrystals Elucidated by Coherent Electron Diffraction. Nano Letters, 2013, 13, 1840-1846.	4.5	26
176	Synthesis and Solvent-Dependent Properties of Ru(acac)2dppz. Inorganic Chemistry, 1999, 38, 2536-2538.	1.9	24
177	Peripheral Membrane Proteins Facilitate Nanoparticle Binding at Lipid Bilayer Interfaces. Langmuir, 2018, 34, 10793-10805.	1.6	24
178	Effect of surface ligands on gold nanocatalysts for CO₂ reduction. Chemical Science, 2020, 11, 12298-12306.	3.7	24
179	Anionic nanoparticle-induced perturbation to phospholipid membranes affects ion channel function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27854-27861.	3.3	24
180	Patchy silica-coated silver nanowires as SERS substrates. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	23

#	Article	IF	Citations
181	Surface-Enhanced Raman Spectroscopy of Polyelectrolyte-Wrapped Gold Nanoparticles in Colloidal Suspension. Journal of Physical Chemistry C, 2013, 117, 10677-10682.	1.5	23
182	Density, Structure, and Stability of Citrate^{3â€“} and H₂citrate^{â€“} on Bare and Coated Gold Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 28393-28404.	1.5	23
183	Gold Nanorods Indirectly Promote Migration of Metastatic Human Breast Cancer Cells in Three-Dimensional Cultures. ACS Nano, 2015, 9, 6801-6816.	7.3	22
184	Nanomaterial Probes in the Environment: Gold Nanoparticle Soil Retention and Environmental Stability as a Function of Surface Chemistry. ACS Sustainable Chemistry and Engineering, 2017, 5, 11451-11458.	3.2	22
185	Two-Phase Synthesis of Goldâ€“Copper Bimetallic Nanoparticles of Tunable Composition: Toward Optimized Catalytic CO₂ Reduction. ACS Applied Nano Materials, 2019, 2, 3989-3998.	2.4	22
186	CdS nanoclusters stabilized by thiolate ligands: A mini-review. Journal of Cluster Science, 1996, 7, 341-350.	1.7	21
187	Selective blue emission from an HPBOâ€“Li+ complex in alkaline media. New Journal of Chemistry, 2001, 25, 1600-1604.	1.4	21
188	A Fiber-Optic Fluorescence Sensor for Lithium Ion in Acetonitrile. Analytical Chemistry, 2002, 74, 4757-4762.	3.2	20
189	Anisotropic silica coating on gold nanorods boosts their potential as SERS sensors. Nanoscale, 2022, 14, 5214-5226.	2.8	20
190	Optical sensing properties of [Ru(CN)4dppz]2â˜ (dppz=dipyrido[3,2-a:2â€²,3â€²-c]phenazine). Inorganica Chimica Acta, 2000, 298, 209-215.	1.2	18
191	Off-Resonant Two-Photon Absorption Cross-Section Enhancement of an Organic Chromophore on Gold Nanorods. Journal of Physical Chemistry Letters, 2013, 4, 749-752.	2.1	18
192	Facile Functionalization of Gold Nanoparticles with PLGA Polymer Brushes and Efficient Encapsulation into PLGA Nanoparticles: Toward Spatially Precise Bioimaging of Polymeric Nanoparticles. Particle and Particle Systems Characterization, 2019, 36, 1800414.	1.2	18
193	Size Effects in Gold Nanorod Light-to-Heat Conversion under Femtosecond Illumination. Journal of Physical Chemistry C, 2021, 125, 16268-16278.	1.5	18
194	Photophysical Probes of DNA Sequence-Directed Structure and Dynamics. Advances in Photochemistry, 2007, , 145-217.	0.4	17
195	Research highlights: investigating the role of nanoparticle surface charge in nanoâ€“bio interactions. Environmental Science: Nano, 2017, 4, 741-746.	2.2	17
196	Intrinsic Bending in GGCC Tracts as Probed by Fluorescence Resonance Energy Transfer. Analytical Biochemistry, 2000, 284, 99-106.	1.1	16
197	Synthesis and Self-Assembly of an Oligonucleotide-Modified Cyclobutadiene Complex. Organometallics, 2000, 19, 368-370.	1.1	16
198	Age-Dependent Expression of Collagen Receptors and Deformation of Type I Collagen Substrates by Rat Cardiac Fibroblasts. Microscopy and Microanalysis, 2011, 17, 555-562.	0.2	16

#	Article	IF	Citations
199	Interaction of Alpha-Synuclein and Its Mutants with Rigid Lipid Vesicle Mimics of Varying Surface Curvature. ACS Nano, 2020, 14, 10153-10167.	7.3	16
200	The coordination of mono- and diphosphines to the surface of cadmium selenide. Polyhedron, 1990, 9, 1913-1918.	1.0	15
201	Specific fluorescence determination of lithium ion based on 2-(2-hydroxyphenyl)benzoxazole. Analyst, The, 2001, 126, 1499-1501.	1.7	15
202	Spatial Control of Chemistry on the Inside and Outside of Inorganic Nanocrystals. ACS Nano, 2009, 3, 770-774.	7.3	15
203	The Early Life of Gold Nanorods: Temporal Separation of Anisotropic and Isotropic Growth Modes. Journal of Cluster Science, 2012, 23, 799-809.	1.7	15
204	Controlling the Spatial and Momentum Distributions of Plasmonic Carriers: Volume vs Surface Effects. ACS Nano, 2021, 15, 1566-1578.	7.3	15
205	Rod-like Cu/La/O nanoparticles as a catalyst for phenol hydroxylation. Chemical Communications, 2005, , 5907.	2.2	14
206	Observation of Molecular Diffusion in Polyelectrolyte-Wrapped SERS Nanoprobes. Langmuir, 2014, 30, 8931-8937.	1.6	14
207	Plasmon-enhanced upconversion: engineering enhancement and quenching at nano and macro scales. Optical Materials Express, 2018, 8, 3787.	1.6	13
208	Quantum Dots as Inorganic DNA-Binding Proteins. Materials Research Society Symposia Proceedings, 1996, 452, 597.	0.1	12
209	Optical Detection of Thymine Dinucleoside Monophosphate and Its cis-syn Photodimer by Inorganic Nanoparticles. Journal of Fluorescence, 2004, 14, 407-415.	1.3	12
210	Defects in Self-Assembled Monolayers on Nanoparticles Prompt Phospholipid Extraction and Bilayer-Curvature-Dependent Deformations. Journal of Physical Chemistry C, 2019, 123, 27951-27958.	1.5	11
211	Ultrasonic Nebulization for TEM Sample Preparation on Single-Layer Graphene Grids. Nano Letters, 2019, 19, 1938-1943.	4.5	11
212	Metallointercalators as Probes of the DNA Ï€-way. Advances in Chemistry Series, 1996, , 449-469.	0.6	10
213	Recognition of hypermethylated triplet repeats in vitro by cationic nanoparticles. Journal of Biomedical Optics, 2001, 6, 111.	1.4	10
214	Anisotropic Metal Nanoparticles: Synthesis, Assembly, and Optical Applications. ChemInform, 2005, 36, no.	0.1	10
215	Magnetic, Fluorescent, and Copolymeric Silicone Microspheres. Advanced Science, 2015, 2, 1500114.	5.6	10
216	Surface Coating Structure and Its Interaction with Cytochrome c in EG₆-Coated Nanoparticles Varies with Surface Curvature. Langmuir, 2020, 36, 5030-5039.	1.6	10

#	Article	IF	Citations
217	How Do Proteins Associate with Nanoscale Metalâ€“Organic Framework Surfaces?. Langmuir, 2021, 37, 9910-9919.	1.6	9
218	Ensemble effects in Cu/Au ultrasmall nanoparticles control the branching point for C1 selectivity during CO₂ electroreduction. Chemical Science, 2021, 12, 9146-9152.	3.7	9
219	Computational Study of the Surfaceâ€Enhanced Raman Scattering from Silicaâ€Coated Silver Nanowires. Photochemistry and Photobiology, 2014, 90, 415-418.	1.3	8
220	Implications of aspect ratio on the uptake and nanotoxicity of gold nanomaterials. NanoImpact, 2019, 14, 100153.	2.4	8
221	Gold nanoparticles disrupt actin organization and pulmonary endothelial barriers. Scientific Reports, 2020, 10, 13320.	1.6	8
222	Ligand Length and Surface Curvature Modulate Nanoparticle Surface Heterogeneity and Electrostatics. Journal of Physical Chemistry C, 2020, 124, 24513-24525.	1.5	8
223	Regulating and Directionally Controlling Electron Emission from Gold Nanorods with Silica Coatings. Nano Letters, 2022, 22, 644-651.	4.5	8
224	PLGA-Gold Nanocomposite: Preparation and Biomedical Applications. Pharmaceutics, 2022, 14, 660.	2.0	8
225	Isolation Methods Influence the Protein Corona Composition on Gold-Coated Iron Oxide Nanoparticles. Analytical Chemistry, 2022, 94, 4737-4746.	3.2	8
226	Network-based analysis implies critical roles of microRNAs in the long-term cellular responses to gold nanoparticles. Nanoscale, 2020, 12, 21172-21187.	2.8	7
227	Gold nanorod impact on mechanical properties of stretchable hydrogels. Soft Matter, 2020, 16, 6582-6590.	1.2	7
228	Probing DNA Structure With Nanoparticles. , 2005, 303, 179-190.		6
229	A golden time for nanotechnology. MRS Bulletin, 2020, 45, 387-393.	1.7	6
230	Nanoparticles Interfere with Chemotaxis: An Example of Nanoparticles as Molecular â€œKnockoutsâ€•at the Cellular Level. ACS Nano, 2021, 15, 8813-8825.	7.3	6
231	The Gold Nanorod-Biology Interface: From Proteins to Cells to Tissue. Current Physical Chemistry, 2013, 3, 128-135.	0.1	5
232	Nanoparticle tracking analysis and statistical mixture distribution analysis to quantify nanoparticleâ€“vesicle binding. Journal of Colloid and Interface Science, 2022, 615, 50-58.	5.0	5
233	High-Aspect-Ratio Gold Nanorods: Their Synthesis and Application to Image Cell-Induced Strain Fields in Collagen Films. Methods in Molecular Biology, 2013, 1026, 1-20.	0.4	4
234	<title>Dipyridophenazine complexes of Ru(II): versatile optical sensors for small and large molecules</title>. Proceedings of SPIE, 1997, 2980, 473.	0.8	3

#	Article	IF	Citations
235	<title>Fiber optic imaging for in-situ chemical measurements</title>. , 1999, 3540, 210.		3
236	<title>Detection of unusual DNA structures with nanoparticles</title>. , 2000, 3924, 10.		3
237	Metallic Nanoantennae and their Use in Organic-Polymer Photovoltaics. Journal of Cluster Science, 2011, 22, 59-64.	1.7	3
238	Dynamic aqueous transformations of lithium cobalt oxide nanoparticle induce distinct oxidative stress responses of B. subtilis. Environmental Science: Nano, 2021, 8, 1614-1627.	2.2	3
239	A Comparison of the Photophysical Properties of Thiolate-Capped CdS Quantum Dots with Thiolate-Capped CdS Molecular Clusters. Materials Research Society Symposia Proceedings, 1999, 571, 247.	0.1	2
240	The JPC Periodic Table. Journal of Physical Chemistry Letters, 2019, 10, 4051-4062.	2.1	2
241	Editorial for January 2019 for JPC A/B/C. Journal of Physical Chemistry B, 2019, 123, 1-9.	1.2	2
242	<title>Novel ruthenium cyanide complex for optical sensing</title>. , 1995, , .		1
243	<title>Inorganic nanoparticles as optical sensors of DNA</title>. , 2001, , .		0
244	Seeded and Non-Seeded Methods to Make Metallic Nanorods and Nanowires in Aqueous Solution. Materials Research Society Symposia Proceedings, 2003, 789, 35.	0.1	0
245	Future Plasmonic Nanomaterials. Journal of Physical Chemistry Letters, 2013, 4, 3152-3152.	2.1	0
246	Quantitative Chemical Mapping of Anisotropic Molecular Distributions on Gold Nanorods. Microscopy and Microanalysis, 2019, 25, 1772-1773.	0.2	0
247	Ultrafast dynamics in DNA. , 2000, , .		0
248	Ultrafast Dynamics in DNA. Springer Series in Chemical Physics, 2001, , 563-565.	0.2	0
249	Diffusion Linked Solidification Model of Axisymmetric Growth of Gold Nanorods. Solid Mechanics and Its Applications, 2009, , 199-210.	0.1	0
250	Chemical Sensing Applications of Semiconductor Photoluminescence. , 1991, , 317-331.		0