Catherine Jones Murphy

List of Publications by Year
in descending order

373 papers	51,078 citations	2802 94 h-index	1347 223 g-index
385 all docs	385 docs citations	385 times ranked	43849 citing authors

#	Article	IF	Citations
1	The golden age: gold nanoparticles for biomedicine. Chemical Society Reviews, 2012, 41, 2740-2779.	38.1	2,900
2	Anisotropic Metal Nanoparticles:Â Synthesis, Assembly, and Optical Applications. Journal of Physical Chemistry B, 2005, 109, 13857-13870.	2.6	2,820
3	Wet Chemical Synthesis of High Aspect Ratio Cylindrical Gold Nanorods. Journal of Physical Chemistry B, 2001, 105, 4065-4067.	2.6	2,386
4	Gold Nanoparticles Are Taken Up by Human Cells but Do Not Cause Acute Cytotoxicity. Small, 2005, 1, 325-327.	10.0	2,190
5	Gold Nanoparticles in Biology: Beyond Toxicity to Cellular Imaging. Accounts of Chemical Research, 2008, 41, 1721-1730.	15.6	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.	13.7	1,506
7	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. Journal of Nanoparticle Research, 2010, 12, 2313-2333.	1.9	1,300
8	Seeded High Yield Synthesis of Short Au Nanorods in Aqueous Solution. Langmuir, 2004, 20, 6414-6420.	3.5	1,293
9	Seeding Growth for Size Control of 5â^'40 nm Diameter Gold Nanoparticles. Langmuir, 2001, 17, 6782-6786.	3.5	1,230
10	Wet chemical synthesis of silver nanorods and nanowires of controllable aspect ratio. Chemical Communications, 2001, , 617-618.	4.1	1,084
11	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. Small, 2009, 5, 701-708.	10.0	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.	6.7	873
14	An Improved Synthesis of High-Aspect-Ratio Gold Nanorods. Advanced Materials, 2003, 15, 414-416.	21.0	797
15	Recent Progress in Cancer Thermal Therapy Using Gold Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 4691-4716.	3.1	778
16	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.	13.7	721
17	Quantitation of Metal Content in the Silver-Assisted Growth of Gold Nanorods. Journal of Physical Chemistry B, 2006, 110, 3990-3994.	2.6	652
18	Preferential End-to-End Assembly of Gold Nanorods by Biotinâ^'Streptavidin Connectors. Journal of the American Chemical Society, 2003, 125, 13914-13915.	13.7	643

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19	Evidence for Seed-Mediated Nucleation in the Chemical Reduction of Gold Salts to Gold Nanoparticles. Chemistry of Materials, 2001, 13, 2313-2322.	6.7	641
20	Photophysical Properties of ZnS Nanoclusters with Spatially Localized Mn2+. The Journal of Physical Chemistry, 1996, 100, 4551-4555.	2.9	638
21	Surface-Enhanced Raman Spectroscopy of Self-Assembled Monolayers:Â Sandwich Architecture and Nanoparticle Shape Dependence. Analytical Chemistry, 2005, 77, 3261-3266.	6.5	628
22	Solution-Phase Synthesis of Cu2O Nanocubes. Nano Letters, 2003, 3, 231-234.	9.1	627
23	Toxicity of Engineered Nanoparticles in the Environment. Analytical Chemistry, 2013, 85, 3036-3049.	6.5	604
24	Seedless, Surfactantless Wet Chemical Synthesis of Silver Nanowires. Nano Letters, 2003, 3, 667-669.	9.1	585
25	The Quest for Shape Control: A History of Gold Nanorod Synthesis. Chemistry of Materials, 2013, 25, 1250-1261.	6.7	578
26	Dependence of the Gold Nanorod Aspect Ratio on the Nature of the Directing Surfactant in Aqueous Solution. Langmuir, 2003, 19, 9065-9070.	3.5	568
27	Solution-Phase Synthesis of Sub-10 nm Auâ˜Ag Alloy Nanoparticles. Nano Letters, 2002, 2, 1235-1237.	9.1	542
28	Chemical sensing and imaging with metallic nanorods. Chemical Communications, 2008, , 544-557.	4.1	496
29	Fine-Tuning the Shape of Gold Nanorods. Chemistry of Materials, 2005, 17, 3668-3672.	6.7	483
30	Targeted Photothermal Lysis of the Pathogenic Bacteria, Pseudomonas aeruginosa, with Gold Nanorods. Nano Letters, 2008, 8, 302-306.	9.1	467
31	MATERIALS SCIENCE: Nanocubes and Nanoboxes. Science, 2002, 298, 2139-2141.	12.6	442
32	Peer Reviewed: Optical Sensing with Quantum Dots. Analytical Chemistry, 2002, 74, 520 A-526 A.	6.5	442
33	Aspect ratio dependence on surface enhanced Raman scattering using silver and gold nanorod substrates. Physical Chemistry Chemical Physics, 2006, 8, 165-170.	2.8	438
34	Applications of Colloidal Inorganic Nanoparticles: From MedicineÂtoÂEnergy. Journal of the American Chemical Society, 2012, 134, 15607-15620.	13.7	388
35	Polyelectrolyte-Coated Gold Nanorods:â€‰ Synthesis, Characterization and Immobilization. Chemistry of Materials, 2005, 17, 1325-1330.	6.7	387
36	Self-Assembly Patterns Formed upon Solvent Evaporation of Aqueous Cetyltrimethylammonium Bromide-Coated Gold Nanoparticles of Various Shapes. Langmuir, 2005, 21, 2923-2929.	3.5	375

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37	One-Dimensional Colloidal Gold and Silver Nanostructures. Inorganic Chemistry, 2006, 45, 7544-7554.	4.0	361
38	Distance and Plasmon Wavelength Dependent Fluorescence of Molecules Bound to Silica-Coated Gold Nanorods. ACS Nano, 2014, 8, 8392-8406.	14.6	356
39	Shape-Dependent Plasmon-Resonant Gold Nanoparticles. Small, 2006, 2, 636-639.	10.0	343
40	Anisotropic Noble Metal Nanocrystal Growth: The Role of Halides. Chemistry of Materials, 2014, 26, 34-43.	6.7	340
41	Nanoindentation of Silver Nanowires. Nano Letters, 2003, 3, 1495-1498.	9.1	335
42	Synthesis and DNA-Binding Properties of [Ru(NH3)4dppz]2+. Inorganic Chemistry, 1998, 37, 139-141.	4.0	316
43	Transfer of gold nanoparticles from the water column to the estuarine food web. Nature Nanotechnology, 2009, 4, 441-444.	31.5	307
44	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.	9.1	304
45	The Gold Standard: Gold Nanoparticle Libraries To Understand the Nanoâ€"Bio Interface. Accounts of Chemical Research, 2013, 46, 650-661.	15.6	293
46	Nanoparticles for Imaging, Sensing, and Therapeutic Intervention. ACS Nano, 2014, 8, 3107-3122.	14.6	255
47	The Many Faces of Gold Nanorods. Journal of Physical Chemistry Letters, 2010, 1, 2867-2875.	4.6	247
48	Sensing Strategy for Lithium Ion Based on Gold Nanoparticles. Langmuir, 2002, 18, 10407-10410.	3.5	246
49	A Blue-Emitting CdS/Dendrimer Nanocomposite. Advanced Materials, 1998, 10, 1083-1087.	21.0	245
50	Anisotropic Chemical Reactivity of Gold Spheroids and Nanorods. Langmuir, 2002, 18, 922-927.	3.5	226
51	Gold nanorod crystal growth: From seed-mediated synthesis to nanoscale sculpting. Current Opinion in Colloid and Interface Science, 2011, 16, 128-134.	7.4	219
52	Nanoparticleâ€"Protein Interactions: A Thermodynamic and Kinetic Study of the Adsorption of Bovine Serum Albumin to Gold Nanoparticle Surfaces. Langmuir, 2013, 29, 14984-14996.	3.5	216
53	Luminescence Spectral Properties of CdS Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 7613-7620.	2.6	213
54	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.	14.6	210

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55	Protein-Sized Quantum Dot Luminescence Can Distinguish between "Straight", "Bent", and "Kinked" Oligonucleotides. Journal of the American Chemical Society, 1995, 117, 9099-9100.	13.7	206
56	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.	7.4	203
57	Sustainability as an emerging design criterion in nanoparticle synthesis and applications. Journal of Materials Chemistry, 2008, 18, 2173.	6.7	193
58	Uptake, distribution and toxicity of gold nanoparticles in tobacco (Nicotiana xanthi) seedlings. Nanotoxicology, 2012, 6, 353-360.	3.0	192
59	Liquid crystalline assemblies of ordered gold nanorods. Journal of Materials Chemistry, 2002, 12, 2909-2912.	6.7	191
60	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. Environmental Science & Technology, 2016, 50, 6124-6145.	10.0	191
61	Deposition of CTAB-Terminated Nanorods on Bacteria to Form Highly Conducting Hybrid Systems. Journal of the American Chemical Society, 2005, 127, 17600-17601.	13.7	190
62	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.	2.6	188
63	Variation of Protein Corona Composition of Gold Nanoparticles Following Plasmonic Heating. Nano Letters, 2014, 14, 6-12.	9.1	184
64	Controlling the size of Cu2O nanocubes from 200 to 25 nm. Journal of Materials Chemistry, 2004, 14, 735.	6.7	182
65	Surfactant-Directed Synthesis and Optical Properties of One-Dimensional Plasmonic Metallic Nanostructures. MRS Bulletin, 2005, 30, 349-355.	3.5	169
66	Nanoindentation of Cu2O Nanocubes. Nano Letters, 2004, 4, 1903-1907.	9.1	168
67	Bimetallic silverâ€"gold nanowires: fabrication and use in surface-enhanced Raman scattering. Journal of Materials Chemistry, 2006, 16, 3929-3935.	6.7	168
68	Azide-Derivatized Gold Nanorods:â€‰ Functional Materials for â€œClickâ€•Chemistry. Langmuir, 2008, 24, 266-272.	3.5	163
69	Anisotropic Nanoparticles and Anisotropic Surface Chemistry. Journal of Physical Chemistry Letters, 2016, 7, 632-641.	4.6	162
70	Mini Gold Nanorods with Tunable Plasmonic Peaks beyond 1000 nm. Chemistry of Materials, 2018, 30, 1427-1435.	6.7	161
71	Fast photoinduced electron transfer through DNA intercalation.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 5315-5319.	7.1	159
72	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.	13.7	159

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73	Optical Properties of [Ru(phen)2dppz]2+as a Function of Nonaqueous Environment. Inorganic Chemistry, 1997, 36, 962-965.	4.0	158
74	Measurement of Local DNA Reorganization on the Picosecond and Nanosecond Time Scales. Journal of the American Chemical Society, 1999, 121, 11644-11649.	13.7	158
75	Biotinâ˜Streptavidin-Induced Aggregation of Gold Nanorods:Â Tuning Rodâ˜Rod Orientation. Langmuir, 2005, 21, 10756-10762.	3.5	156
76	Surface Chemistry of Gold Nanorods. Langmuir, 2016, 32, 9905-9921.	3.5	156
77	Understanding the Seed-Mediated Growth of Gold Nanorods through a Fractional Factorial Design of Experiments. Langmuir, 2017, 33, 1891-1907.	3.5	154
78	Surface chemistry, charge and ligand type impact the toxicity of gold nanoparticles to Daphnia magna. Environmental Science: Nano, 2014, 1, 260-270.	4.3	143
79	Power-Law Solvation Dynamics in DNA over Six Decades in Time. Journal of the American Chemical Society, 2005, 127, 7270-7271.	13.7	141
80	pH-Triggered Assembly of Gold Nanorods. Langmuir, 2005, 21, 2022-2026.	3.5	136
81	Alignment of Gold Nanorods in Polymer Composites and on Polymer Surfaces. Advanced Materials, 2005, 17, 2173-2177.	21.0	131
82	Ultrafast Dynamics in DNA:â€‰ â€œFrayingâ€•at the End of the Helix. Journal of the American Chemical Society, 2006, 128, 6885-6892.	13.7	130
83	Complex Local Dynamics in DNA on the Picosecond and Nanosecond Time Scales. Physical Review Letters, 2002, 88, 158101.	7.8	129
84	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.	14.6	126
85	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.	7.1	124
86	Immobilization of Gold Nanorods onto Acid-Terminated Self-Assembled Monolayers via Electrostatic Interactions. Langmuir, 2004, 20, 7117-7122.	3.5	122
87	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. ACS Central Science, 2015, 1, 117-123.	11.3	121
88	Nanoplasmonics. Chemical Society Reviews, 2014, 43, 3820.	38.1	107
89	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.	10.0	103
90	Using Gold Nanorods to Probe Cell-Induced Collagen Deformation. Nano Letters, 2007, 7, 116-119.	9.1	102

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91	Time-Resolved Spectral Observations of Cadmium-Enriched Cadmium Sulfide Nanoparticles and the Effects of DNA Oligomer Binding. Analytical Biochemistry, 2000, 280, 128-136.	2.4	99
92	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.	13.7	98
93	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.	7.1	96
94	New Advances in Nanotechnology-Based Diagnosis and Therapeutics for Breast Cancer: An Assessment of Active-Targeting Inorganic Nanoplatforms. Bioconjugate Chemistry, 2017, 28, 135-152.	3.6	95
95	[25] Ruthenium complexes as luminescent reporters of DNA. Methods in Enzymology, 1993, 226, 576-594.	1.0	94
96	Study of Wild-Type Î±-Synuclein Binding and Orientation on Gold Nanoparticles. Langmuir, 2013, 29, 4603-4615.	3.5	91
97	Cation Exchange on the Surface of Gold Nanorods with a Polymerizable Surfactant: Polymerization, Stability, and Toxicity Evaluation. Langmuir, 2010, 26, 9328-9333.	3.5	87
98	Local Dynamics in DNA by Temperature-Dependent Stokes Shifts of an Intercalated Dye. Journal of the American Chemical Society, 1998, 120, 2449-2456.	13.7	86
99	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.	2.5	85
100	Oligonucleotide-Directed Assembly of Materials:â€‰ Defined Oligomers. Journal of the American Chemical Society, 2001, 123, 1828-1833.	13.7	84
101	Multicolor polymeric carbon dots: synthesis, separation and polyamide-supported molecular fluorescence. Chemical Science, 2021, 12, 2441-2455.	7.4	82
102	Quantitative Determination of Ligand Densities on Nanomaterials by X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2015, 7, 1720-1725.	8.0	79
103	Iron Oxide Coated Gold Nanorods: Synthesis, Characterization, and Magnetic Manipulation. Langmuir, 2008, 24, 6232-6237.	3.5	77
104	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.	4.0	77
105	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. Journal of Physical Chemistry C, 2015, 119, 534-546.	3.1	77
106	Gold Nanorods as Nanoadmicelles: 1-Naphthol Partitioning into a Nanorod-Bound Surfactant Bilayer. Langmuir, 2008, 24, 10235-10239.	3.5	76
107	Polyamineâˆ’Quantum Dot Nanocomposites:Â Linear versus Starburst Stabilizer Architectures. Chemistry of Materials, 1999, 11, 3595-3601.	6.7	75
108	Control of Protein Orientation on Gold Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 21035-21043.	3.1	75

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109	Thermal Decomposition of Generation-4 Polyamidoamine Dendrimer Films:Â Decomposition Catalyzed by Dendrimer-Encapsulated Pt Particles. Langmuir, 2005, 21, 3998-4006.	3.5	72
110	Aggregation Kinetics of Dendrimer-Stabilized CdS Nanoclusters. Langmuir, 2000, 16, 2621-2626.	3.5	70
111	Platinum Ion Uptake by Dendrimers:Â An NMR and AFM Study. Inorganic Chemistry, 2004, 43, 1421-1428.	4.0	70
112	Ultrafast Thermal Analysis of Surface Functionalized Gold Nanorods in Aqueous Solution. ACS Nano, 2013, 7, 589-597.	14.6	69
113	Advances in contrast agents, reporters, and detection. Journal of Biomedical Optics, 2001, 6, 106.	2.6	68
114	Face-Dependent Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy of 2,2â€²-Bipyridine on Au(100) and Au(111). Journal of Physical Chemistry C, 2012, 116, 5128-5140.	3.1	68
115	Polyelectrolyte Wrapping Layers Control Rates of Photothermal Molecular Release from Gold Nanorods. Nano Letters, 2012, 12, 2982-2987.	9.1	68
116	Formation of supported lipid bilayers containing phase-segregated domains and their interaction with gold nanoparticles. Environmental Science: Nano, 2016, 3, 45-55.	4.3	68
117	Lifetime-based fiber-optic water sensor using a luminescent complex in a lithium-treated Nafionâ„¢ membrane. Analytica Chimica Acta, 2001, 448, 1-8.	5.4	66
118	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.	13.7	66
119	Best Practices for the Reporting of Colloidal Inorganic Nanomaterials. Chemistry of Materials, 2015, 27, 4911-4913.	6.7	64
120	Influence of gold nanoparticle surface chemistry and diameter upon Alzheimerâ€™s disease amyloid-Î² protein aggregation. Journal of Biological Engineering, 2017, 11, 5.	4.7	63
121	Nanovacuums: Nanoparticle Uptake and Differential Cellular Migration on a Carpet of Nanoparticles. Nano Letters, 2013, 13, 2295-2302.	9.1	62
122	AFM Characterization of Dendrimer-Stabilized Platinum Nanoparticles. Langmuir, 2005, 21, 3122-3131.	3.5	60
123	Opportunities for Electrocatalytic CO₂ Reduction Enabled by Surface Ligands. Journal of the American Chemical Society, 2022, 144, 2829-2840.	13.7	60
124	Gold Nanoparticles with a Polymerizable Surfactant Bilayer: Synthesis, Polymerization, and Stability Evaluation. Langmuir, 2009, 25, 13874-13879.	3.5	59
125	Plastic deformation of pentagonal silver nanowires: Comparison between AFM nanoindentation and atomistic simulations. Physical Review B, 2008, 77, .	3.2	57
126	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.	14.6	57

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127	Emission Spectral Properties of Cadmium Sulfide Nanoparticles with Multiphoton Excitation. Journal of Physical Chemistry B, 2002, 106, 5365-5370.	2.6	55
128	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.	14.5	55
129	Identification of Nanoparticles with a Colorimetric Sensor Array. ACS Sensors, 2016, 1, 17-21.	7.8	55
130	Virus-Sized Gold Nanorods: Plasmonic Particles for Biology. Accounts of Chemical Research, 2019, 52, 2124-2135.	15.6	54
131	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.	8.0	53
132	Clickable polyglycerol hyperbranched polymers and their application to gold nanoparticles and acid-labile nanocarriers. Chemical Communications, 2011, 47, 1279-1281.	4.1	53
133	Facile phase transfer of gold nanoparticles from aqueous solution to organic solvents with thiolated poly(ethylene glycol). RSC Advances, 2014, 4, 52676-52679.	3.6	53
134	NanoEHS â€“ defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.	4.3	53
135	Tuning Cellular Response to Nanoparticles via Surface Chemistry and Aggregation. Small, 2014, 10, 1642-1651.	10.0	52
136	A Possible Oriented Attachment Growth Mechanism for Silver Nanowire Formation. Crystal Growth and Design, 2015, 15, 1968-1974.	3.0	52
137	Tunable One-Dimensional Silverâˆ'Silica Nanopeapod Architectures. Journal of Physical Chemistry B, 2006, 110, 7226-7231.	2.6	51
138	Polyelectrolyte-coated gold nanorods and their interactions with type I collagen. Biomaterials, 2009, 30, 5639-5648.	11.4	51
139	Metagenomic analysis of microbial communities yields insight into impacts of nanoparticle design. Nature Nanotechnology, 2018, 13, 253-259.	31.5	51
140	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.	3.5	50
141	Plasmonic Enhancement of the Two Photon Absorption Cross Section of an Organic Chromophore Using Polyelectrolyte-Coated Gold Nanorods. Langmuir, 2012, 28, 9147-9154.	3.5	50
142	Thermal Transport across Surfactant Layers on Gold Nanorods in Aqueous Solution. ACS Applied Materials & Interfaces, 2016, 8, 10581-10589.	8.0	50
143	Quantitative Imaging of Organic Ligand Density on Anisotropic Inorganic Nanocrystals. Nano Letters, 2019, 19, 6308-6314.	9.1	50
144	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.	13.7	49

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145	In Situ Attenuated Total Reflection Infrared Spectroscopy of Dendrimer-Stabilized Platinum Nanoparticles Adsorbed on Alumina. Journal of Physical Chemistry B, 2004, 108, 12911-12916.	2.6	49
146	Spheres vs. rods: The shape of gold nanoparticles influences aggregation and deposition behavior. Chemosphere, 2013, 91, 93-98.	8.2	49
147	In solution SERS sensing using mesoporous silica-coated gold nanorods. Analyst, The, 2016, 141, 5088-5095.	3.5	49
148	Oxidation State of Capping Agent Affects Spatial Reactivity on Gold Nanorods. Journal of the American Chemical Society, 2017, 139, 9851-9854.	13.7	49
149	Nanoscale structure and dynamics of DNA. Physical Chemistry Chemical Physics, 2008, 10, 1229-1242.	2.8	47
150	Heat Transport between Au Nanorods, Surrounding Liquids, and Solid Supports. Journal of Physical Chemistry C, 2012, 116, 26335-26341.	3.1	47
151	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. CheM, 2018, 4, 2709-2723.	11.7	46
152	The Effect of Gold Nanorods on Cell-Mediated Collagen Remodeling. Nano Letters, 2008, 8, 3409-3412.	9.1	45
153	Seed mediated growth of gold nanorods: towards nanorod matryoshkas. Faraday Discussions, 2016, 191, 9-33.	3.2	45
154	Growth-Based Bacterial Viability Assay for Interference-Free and High-Throughput Toxicity Screening of Nanomaterials. Analytical Chemistry, 2017, 89, 2057-2064.	6.5	45
155	Protein Adsorption to Charged Gold Nanospheres as a Function of Protein Deformability. Langmuir, 2017, 33, 7751-7761.	3.5	45
156	Evidence for Patchy Lipid Layers on Gold Nanoparticle Surfaces. Langmuir, 2012, 28, 5404-5416.	3.5	44
157	A Two-Color Fluorescent Lithium Ion Sensor. Inorganic Chemistry, 2001, 40, 6080-6082.	4.0	43
158	Coumarin base-pair replacement as a fluorescent probe of ultrafast DNA dynamics. Tetrahedron, 2007, 63, 3450-3456.	1.9	42
159	Quantification of Lipid Corona Formation on Colloidal Nanoparticles from Lipid Vesicles. Analytical Chemistry, 2018, 90, 14387-14394.	6.5	41
160	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.	2.6	38
161	Gene expression as an indicator of the molecular response and toxicity in the bacterium Shewanella oneidensis and the water flea Daphnia magna exposed to functionalized gold nanoparticles. Environmental Science: Nano, 2015, 2, 615-629.	4.3	38
162	Microfluidic-SERS devices for one shot limit-of-detection. Analyst, The, 2014, 139, 3227-3234.	3.5	37

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163	Light scattering from gold nanorods: tracking material deformation. Nanotechnology, 2005, 16, 2601-2605.	2.6	36
164	Co-transport of gold nanospheres with single-walled carbon nanotubes in saturated porous media. Water Research, 2016, 99, 7-15.	11.3	36
165	Layer-by-Layer Synthesis of Conformal Metalâ€“Organic Framework Shells on Gold Nanorods. Chemistry of Materials, 2018, 30, 7255-7261.	6.7	34
166	Sodium-Ion Binding to DNA:â€‰ Detection by Ultrafast Time-Resolved Stokes-Shift Spectroscopy. Journal of the American Chemical Society, 2003, 125, 11812-11813.	13.7	33
167	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.	4.3	32
168	Photocatalytic Hydrogen Production at Titania-Supported Pt Nanoclusters That Are Derived from Surface-Anchored Molecular Precursors. Journal of Physical Chemistry C, 2012, 116, 1429-1438.	3.1	31
169	Surface Charge Controls the Fate of Au Nanorods in Saline Estuaries. Environmental Science & Technology, 2013, 47, 12844-12851.	10.0	31
170	Interactions of Bacterial Lipopolysaccharides with Gold Nanorod Surfaces Investigated by Refractometric Sensing. ACS Applied Materials & Interfaces, 2015, 7, 24915-24925.	8.0	31
171	Sulfate-Mediated End-to-End Assembly of Gold Nanorods. Langmuir, 2017, 33, 1486-1495.	3.5	31
172	Preferential Binding of Cytochrome c to Anionic Ligand-Coated Gold Nanoparticles: A Complementary Computational and Experimental Approach. ACS Nano, 2019, 13, 6856-6866.	14.6	31
173	Role of Monovalent Counterions in the Ultrafast Dynamics of DNA. Journal of Physical Chemistry B, 2006, 110, 13248-13255.	2.6	30
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