Guoqing Wang

List of Publications by Year
in descending order

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58 papers	1,971 citations	257450 24 h-index	254184 43 g-index
60 all docs	60 docs citations	60 times ranked	2505 citing authors

#	Article	IF	Citations
1	Nanomaterial-assisted aptamers for optical sensing. Biosensors and Bioelectronics, 2010, 25, 1859-1868.	10.1	229
2	Surface-enhanced Raman scattering in nanoliter droplets: towards high-sensitivity detection of mercury (II) ions. Analytical and Bioanalytical Chemistry, 2009, 394, 1827-1832.	3.7	194
3	Mesoporous silica-coated gold nanorods: towards sensitive colorimetric sensing of ascorbic acid via target-induced silver overcoating. Nanoscale, 2011, 3, 1756.	5.6	116
4	SERS-based test strips: Principles, designs and applications. Biosensors and Bioelectronics, 2021, 189, 113360.	10.1	100
5	Delivery of synergistic polyphenol combinations using biopolymer-based systems: Advances in physicochemical properties, stability and bioavailability. Critical Reviews in Food Science and Nutrition, 2020, 60, 2083-2097.	10.3	94
6	Chemical redox-regulated mesoporous silica-coated goldnanorods for colorimetric probing of Hg2+ and S^{2â^'}. Analyst, The, 2011, 136, 174-178.	3.5	86
7	Gold nanostructures with near-infrared plasmonic resonance: Synthesis and surface functionalization. Coordination Chemistry Reviews, 2017, 336, 28-42.	18.8	71
8	Iodine-Mediated Etching of Triangular Gold Nanoplates for Colorimetric Sensing of Copper Ion and Aptasensing of Chloramphenicol. ACS Applied Materials & Interfaces, 2017, 9, 34518-34525.	8.0	70
9	Island Growth in the Seed-Mediated Overgrowth of Monometallic Colloidal Nanostructures. CheM, 2017, 3, 678-690.	11.7	61
10	Cross-Linking versus Non-Cross-Linking Aggregation of Gold Nanoparticles Induced by DNA Hybridization: A Comparison of the Rapidity of Solution Color Change. Bioconjugate Chemistry, 2017, 28, 270-277.	3.6	51
11	Evaluation of passive mixing behaviors in a pillar obstruction poly(dimethylsiloxane) microfluidic mixer using fluorescence microscopy. Microfluidics and Nanofluidics, 2009, 7, 267-273.	2.2	49
12	Rapid Nonâ€Crosslinking Aggregation of DNAâ€Functionalized Gold Nanorods and Nanotriangles for Colorimetric Singleâ€Nucleotide Discrimination. Chemistry - A European Journal, 2016, 22, 258-263.	3.3	48
13	High-yield halide-free synthesis of biocompatible Au nanoplates. Chemical Communications, 2016, 52, 398-401.	4.1	48
14	Inspiration from chemical photography: accelerated photoconversion of AgCl to functional silver nanoparticles mediated by DNA. Chemical Communications, 2011, 47, 9426.	4.1	46
15	Gold nanoplates with superb photothermal efficiency and peroxidase-like activity for rapid and synergistic antibacterial therapy. Chemical Communications, 2021, 57, 1133-1136.	4.1	46
16	Enhanced dynamic nuclear polarization via swept microwave frequency combs. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10576-10581.	7.1	45
17	A microscopic survey on microplastics in beverages: the case of beer, mineral water and tea. Analyst, The, 2022, 147, 1099-1105.	3.5	42
18	Directed Assembly of Gold Nanorods by Terminalâ€Base Pairing of Surfaceâ€Grafted DNA. Small, 2017, 13, 1702137.	10.0	41

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19	Topologically Constrained Formation of Stable Z-DNA from Normal Sequence under Physiological Conditions. Journal of the American Chemical Society, 2019, 141, 7758-7764.	13.7	36
20	Novel charge transport in DNA-templated nanowires. Journal of Materials Chemistry, 2012, 22, 13691.	6.7	33
21	Target-Recycling-Amplified Colorimetric Detection of Pollen Allergen Using Non-Cross-Linking Aggregation of DNA-Modified Gold Nanoparticles. ACS Sensors, 2019, 4, 363-369.	7.8	32
22	Aptameric SERS sensor for Hg2+ analysis using silver nanoparticles. Chinese Chemical Letters, 2009, 20, 1475-1477.	9.0	31
23	DNA-templated plasmonic Ag/AgCl nanostructures for molecular selective photocatalysis and photocatalytic inactivation of cancer cells. Journal of Materials Chemistry B, 2013, 1, 5899.	5.8	29
24	Opposite Effects of Flexible Single-Stranded DNA Regions and Rigid Loops in DNAzyme on Colloidal Nanoparticle Stability for â€œTurn-Onâ€•Plasmonic Detection of Lead Ions. ACS Applied Bio Materials, 2020, 3, 7003-7010.	4.6	29
25	Interfacing DNA with Gold Nanoparticles for Heavy Metal Detection. Biosensors, 2020, 10, 167.	4.7	24
26	Rapid Nakedâ€Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Nonâ€Crosslinking Aggregation of DNAâ€Functionalized Gold Nanoparticles. ChemistryOpen, 2016, 5, 508-512.	1.9	22
27	Non-origami DNA for functional nanostructures: From structural control to advanced applications. Nano Today, 2021, 39, 101154.	11.9	22
28	Shape-selective isolation of Au nanoplates from complex colloidal media by depletion flocculation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 216-223.	4.7	20
29	Distinct chemical adsorption behaviors of sulfanilamide as a model antibiotic onto weathered microplastics in complex systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129337.	4.7	20
30	Chemically Fueled Plasmon Switching of Gold Nanorods by Single-Base Pairing of Surface-Grafted DNA. Langmuir, 2019, 35, 11710-11716.	3.5	16
31	Chemical Redox-Modulated Etching of Plasmonic Nanoparticles for Nitrite Detection: Comparison Among Gold Nanosphere, Nanorod, and Nanotriangle. Journal of Analysis and Testing, 2021, 5, 350-359.	5.1	15
32	Colorimetric determination of mercury(II) ion based on DNA-assisted amalgamation: a comparison study on gold, silver and Ag@Au Nanoplates. Mikrochimica Acta, 2019, 186, 713.	5.0	14
33	DNA-modulated photo-transformation of AgCl to silver nanoparticles: visiting the formation mechanism. Journal of Colloid and Interface Science, 2015, 452, 224-234.	9.4	13
34	Accelerated non-crosslinking assembly of DNA-functionalized nanoparticles in alcoholic solvents: for application in the identification of clear liquors. Analyst, The, 2020, 145, 3229-3235.	3.5	13
35	Introducing DNA Nanosensor to Undergraduate Students: Rapid Non-Cross-Linking Aggregation of DNA-Functionalized Gold Nanoparticles for Colorimetric DNA Assay. Journal of Chemical Education, 2021, 98, 3553-3559.	2.3	12
36	Folding of Nanoparticle Chains into 2D Arrays: Structural Change of DNAâ€Functionalized Gold Nanoparticle Assemblies. Advanced Materials Interfaces, 2018, 5, 1800189.	3.7	11

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37	Reversible Shrinkage of DNAâ€Functionalized Gold Nanoparticle Assemblies Revealed by Surface Plasmon Resonance. Biotechnology Journal, 2018, 13, e1800090.	3.5	11
38	Connecting Nanoparticles with Different Colloidal Stability by DNA for Programmed Anisotropic Self-Assembly. Journal of Physical Chemistry C, 2019, 123, 15293-15300.	3.1	11
39	DNA Base Pair Stacking Assembly of Anisotropic Nanoparticles for Biosensing and Ordered Assembly. Analytical Sciences, 2021, 37, 415-419.	1.6	11
40	Identifying Exogenous DNA in Liquid Foods by Gold Nanoparticles: Potential Applications in Traceability. ACS Food Science & Technology, 2021, 1, 605-613.	2.7	11
41	A ZnFe₂O₄-catalyzed segment imprinted polymer on a three-dimensional origami paper-based microfluidic chip for the detection of microcystin. Analyst, The, 2022, 147, 1060-1065.	3.5	11
42	Microplastics exposure as an emerging threat to ancient lineage: A contaminant of concern for abnormal bending of amphioxus via neurotoxicity. Journal of Hazardous Materials, 2022, 438, 129454.	12.4	11
43	Sequenceâ€Specific Metallization of Single Divalent DNAâ€“Nanoparticle Conjugates: A Potential Route to Singleâ€Electron Devices. ChemPlusChem, 2012, 77, 592-597.	2.8	10
44	Hierarchical growth of Au nanograss with intense built-in hotspots for plasmonic applications. Journal of Materials Chemistry C, 2020, 8, 16073-16082.	5.5	10
45	Regioselective DNA Modification and Directed Self-Assembly of Triangular Gold Nanoplates. Nanomaterials, 2019, 9, 581.	4.1	9
46	Efficient Preparation of Largeâ€Sized Rings of Singleâ€Stranded DNA through Oneâ€Pot Ligation of Multiple Fragments. Chemistry - an Asian Journal, 2019, 14, 3251-3254.	3.3	7
47	Dark field microscopic analysis of discrete Au nanostructures: Understanding the correlation of scattering with stoichiometry. Chemical Physics Letters, 2017, 684, 310-315.	2.6	6
48	Range-tunable plasmon switching of gold nanorods by terminal breathing of surface-grafted DNA in alcoholic solvents. Journal of Materials Chemistry C, 2021, 9, 5105-5112.	5.5	6
49	Hierarchical Au Nanoisland Arrays for Anticounterfeiting Surface-Enhanced Raman Scattering Stamps. ACS Applied Nano Materials, 2022, 5, 965-971.	5.0	6
50	Rapid Naked-Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles. ChemistryOpen, 2016, 5, 507-507.	1.9	5
51	Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles for Gene Diagnosis and Directed Assembly. ACS Symposium Series, 2019, , 119-138.	0.5	4
52	Plasmon switching of gold nanoparticles through thermo-responsive terminal breathing of surface-grafted DNA in hydrated ionic liquids. Analyst, The, 2021, 146, 4154-4160.	3.5	4
53	Hysteresis in the Thermo-Responsive Assembly of Hexa(ethylene glycol) Derivative-Modified Gold Nanodiscs as an Effect of Shape. Nanomaterials, 2022, 12, 1421.	4.1	4
54	Facile Characterization of Topology of DNA Catenanes. Biophysical Journal, 2020, 118, 1702-1708.	0.5	2

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55	Capability of Au nano-rhombic dodecahedra in a label-free colorimetric assay: application in the determination of S^{2â^'} and Hg²⁺. Analyst, The, 0, , .	3.5	2
56	DNA-Templated Self-Assembly of Conductive Nanowires. , 2012, , 911-914.		1
57	Directed Assembly: Directed Assembly of Gold Nanorods by Terminal-Base Pairing of Surface-Grafted DNA (Small 44/2017). Small, 2017, 13, .	10.0	0
58	Colloidal Au nanoplates: Synthesis, properties, and applications. , 2022, , .		0