

Guoqing Wang

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,971
citations

257101

24
h-index

253896

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. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1859-1868.	5.3	229
2	Surface-enhanced Raman scattering in nanoliter droplets: towards high-sensitivity detection of mercury (II) ions. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1827-1832.	1.9	194
3	Mesoporous silica-coated gold nanorods: towards sensitive colorimetric sensing of ascorbic acid via target-induced silver overcoating. <i>Nanoscale</i> , 2011, 3, 1756.	2.8	116
4	SERS-based test strips: Principles, designs and applications. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113360.	5.3	100
5	Delivery of synergistic polyphenol combinations using biopolymer-based systems: Advances in physicochemical properties, stability and bioavailability. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 2083-2097.	5.4	94
6	Chemical redox-regulated mesoporous silica-coated goldnanorods for colorimetric probing of Hg ²⁺ and S ²⁻ . <i>Analyst, The</i> , 2011, 136, 174-178.	1.7	86
7	Gold nanostructures with near-infrared plasmonic resonance: Synthesis and surface functionalization. <i>Coordination Chemistry Reviews</i> , 2017, 336, 28-42.	9.5	71
8	Iodine-Mediated Etching of Triangular Gold Nanoplates for Colorimetric Sensing of Copper Ion and Aptasensing of Chloramphenicol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34518-34525.	4.0	70
9	Island Growth in the Seed-Mediated Overgrowth of Monometallic Colloidal Nanostructures. <i>Chem</i> , 2017, 3, 678-690.	5.8	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. <i>Bioconjugate Chemistry</i> , 2017, 28, 270-277.	1.8	51
11	Evaluation of passive mixing behaviors in a pillar obstruction poly(dimethylsiloxane) microfluidic mixer using fluorescence microscopy. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 267-273.	1.0	49
12	Rapid Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanorods and Nanotriangles for Colorimetric Single-Nucleotide Discrimination. <i>Chemistry - A European Journal</i> , 2016, 22, 258-263.	1.7	48
13	High-yield halide-free synthesis of biocompatible Au nanoplates. <i>Chemical Communications</i> , 2016, 52, 398-401.	2.2	48
14	Inspiration from chemical photography: accelerated photoconversion of AgCl to functional silver nanoparticles mediated by DNA. <i>Chemical Communications</i> , 2011, 47, 9426.	2.2	46
15	Gold nanoplates with superb photothermal efficiency and peroxidase-like activity for rapid and synergistic antibacterial therapy. <i>Chemical Communications</i> , 2021, 57, 1133-1136.	2.2	46
16	Enhanced dynamic nuclear polarization via swept microwave frequency combs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10576-10581.	3.3	45
17	A microscopic survey on microplastics in beverages: the case of beer, mineral water and tea. <i>Analyst, The</i> , 2022, 147, 1099-1105.	1.7	42
18	Directed Assembly of Gold Nanorods by Terminal-Base Pairing of Surface-Crafted DNA. <i>Small</i> , 2017, 13, 1702137.	5.2	41

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19	Topologically Constrained Formation of Stable Z-DNA from Normal Sequence under Physiological Conditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 7758-7764.	6.6	36
20	Novel charge transport in DNA-templated nanowires. <i>Journal of Materials Chemistry</i> , 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. <i>ACS Sensors</i> , 2019, 4, 363-369.	4.0	32
22	Aptameric SERS sensor for Hg ²⁺ analysis using silver nanoparticles. <i>Chinese Chemical Letters</i> , 2009, 20, 1475-1477.	4.8	31
23	DNA-templated plasmonic Ag/AgCl nanostructures for molecular selective photocatalysis and photocatalytic inactivation of cancer cells. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5899.	2.9	29
24	Opposite Effects of Flexible Single-Stranded DNA Regions and Rigid Loops in DNAzyme on Colloidal Nanoparticle Stability for "Turn-On" Plasmonic Detection of Lead Ions. <i>ACS Applied Bio Materials</i> , 2020, 3, 7003-7010.	2.3	29
25	Interfacing DNA with Gold Nanoparticles for Heavy Metal Detection. <i>Biosensors</i> , 2020, 10, 167.	2.3	24
26	Rapid Naked-Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles. <i>ChemistryOpen</i> , 2016, 5, 508-512.	0.9	22
27	Non-origami DNA for functional nanostructures: From structural control to advanced applications. <i>Nano Today</i> , 2021, 39, 101154.	6.2	22
28	Shape-selective isolation of Au nanoplates from complex colloidal media by depletion flocculation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 216-223.	2.3	20
29	Distinct chemical adsorption behaviors of sulfanilamide as a model antibiotic onto weathered microplastics in complex systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129337.	2.3	20
30	Chemically Fueled Plasmon Switching of Gold Nanorods by Single-Base Pairing of Surface-Grafted DNA. <i>Langmuir</i> , 2019, 35, 11710-11716.	1.6	16
31	Chemical Redox-Modulated Etching of Plasmonic Nanoparticles for Nitrite Detection: Comparison Among Gold Nanosphere, Nanorod, and Nanotriangle. <i>Journal of Analysis and Testing</i> , 2021, 5, 350-359.	2.5	15
32	Colorimetric determination of mercury(II) ion based on DNA-assisted amalgamation: a comparison study on gold, silver and Ag@Au Nanoplates. <i>Mikrochimica Acta</i> , 2019, 186, 713.	2.5	14
33	DNA-modulated photo-transformation of AgCl to silver nanoparticles: visiting the formation mechanism. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 224-234.	5.0	13
34	Accelerated non-crosslinking assembly of DNA-functionalized nanoparticles in alcoholic solvents: for application in the identification of clear liquors. <i>Analyst</i> , 2020, 145, 3229-3235.	1.7	13
35	Introducing DNA Nanosensor to Undergraduate Students: Rapid Non-Cross-Linking Aggregation of DNA-Functionalized Gold Nanoparticles for Colorimetric DNA Assay. <i>Journal of Chemical Education</i> , 2021, 98, 3553-3559.	1.1	12
36	Folding of Nanoparticle Chains into 2D Arrays: Structural Change of DNA-Functionalized Gold Nanoparticle Assemblies. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800189.	1.9	11

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37	Reversible Shrinkage of DNA-Functionalized Gold Nanoparticle Assemblies Revealed by Surface Plasmon Resonance. <i>Biotechnology Journal</i> , 2018, 13, e1800090.	1.8	11
38	Connecting Nanoparticles with Different Colloidal Stability by DNA for Programmed Anisotropic Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15293-15300.	1.5	11
39	DNA Base Pair Stacking Assembly of Anisotropic Nanoparticles for Biosensing and Ordered Assembly. <i>Analytical Sciences</i> , 2021, 37, 415-419.	0.8	11
40	Identifying Exogenous DNA in Liquid Foods by Gold Nanoparticles: Potential Applications in Traceability. <i>ACS Food Science & Technology</i> , 2021, 1, 605-613.	1.3	11
41	A ZnFe ₂ O ₄ -catalyzed segment imprinted polymer on a three-dimensional origami paper-based microfluidic chip for the detection of microcystin. <i>Analyst, The</i> , 2022, 147, 1060-1065.	1.7	11
42	Microplastics exposure as an emerging threat to ancient lineage: A contaminant of concern for abnormal bending of amphioxus via neurotoxicity. <i>Journal of Hazardous Materials</i> , 2022, 438, 129454.	6.5	11
43	Sequence-Specific Metallization of Single Divalent DNA-Nanoparticle Conjugates: A Potential Route to Single-Electron Devices. <i>ChemPlusChem</i> , 2012, 77, 592-597.	1.3	10
44	Hierarchical growth of Au nanograss with intense built-in hotspots for plasmonic applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16073-16082.	2.7	10
45	Regioselective DNA Modification and Directed Self-Assembly of Triangular Gold Nanoplates. <i>Nanomaterials</i> , 2019, 9, 581.	1.9	9
46	Efficient Preparation of Large-Sized Rings of Single-Stranded DNA through One-Pot Ligation of Multiple Fragments. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3251-3254.	1.7	7
47	Dark field microscopic analysis of discrete Au nanostructures: Understanding the correlation of scattering with stoichiometry. <i>Chemical Physics Letters</i> , 2017, 684, 310-315.	1.2	6
48	Range-tunable plasmon switching of gold nanorods by terminal breathing of surface-grafted DNA in alcoholic solvents. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5105-5112.	2.7	6
49	Hierarchical Au Nanoisland Arrays for Anticounterfeiting Surface-Enhanced Raman Scattering Stamps. <i>ACS Applied Nano Materials</i> , 2022, 5, 965-971.	2.4	6
50	Rapid Naked-Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles. <i>ChemistryOpen</i> , 2016, 5, 507-507.	0.9	5
51	Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles for Gene Diagnosis and Directed Assembly. <i>ACS Symposium Series</i> , 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. <i>Analyst, The</i> , 2021, 146, 4154-4160.	1.7	4
53	Hysteresis in the Thermo-Responsive Assembly of Hexa(ethylene glycol) Derivative-Modified Gold Nanodiscs as an Effect of Shape. <i>Nanomaterials</i> , 2022, 12, 1421.	1.9	4
54	Facile Characterization of Topology of DNA Catenanes. <i>Biophysical Journal</i> , 2020, 118, 1702-1708.	0.2	2

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55	Capability of Au nano-rhombic dodecahedra in a label-free colorimetric assay: application in the determination of S^{2+} and Hg^{2+} . Analyst, The, 0, , .	1.7	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, .	5.2	0
58	Colloidal Au nanoplates: Synthesis, properties, and applications. , 2022, , .		0