

Yi Wang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,970
citations

172457

29
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

6526
citing authors

#	ARTICLE	IF	CITATIONS
1	25th Anniversary Article: Galvanic Replacement: A Simple and Versatile Route to Hollow Nanostructures with Tunable and Well-Controlled Properties. <i>Advanced Materials</i> , 2013, 25, 6313-6333.	21.0	856
2	Highly selective detection of phosphate in very complicated matrixes with an off-on fluorescent probe of europium-adjusted carbon dots. <i>Chemical Communications</i> , 2011, 47, 2604.	4.1	441
3	Synthesis of Ag Nanocubes 18–32 nm in Edge Length: The Effects of Polyol on Reduction Kinetics, Size Control, and Reproducibility. <i>Journal of the American Chemical Society</i> , 2013, 135, 1941-1951.	13.7	275
4	Use of Reduction Rate as a Quantitative Knob for Controlling the Twin Structure and Shape of Palladium Nanocrystals. <i>Nano Letters</i> , 2015, 15, 1445-1450.	9.1	180
5	Polyol Synthesis of Ultrathin Pd Nanowires via Attachment-Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014, 24, 131-139.	14.9	173
6	Synthesis of Silver Octahedra with Controlled Sizes and Optical Properties via Seed-Mediated Growth. <i>ACS Nano</i> , 2013, 7, 4586-4594.	14.6	159
7	Shape-Controlled Synthesis of Palladium Nanocrystals: A Mechanistic Understanding of the Evolution from Octahedrons to Tetrahedrons. <i>Nano Letters</i> , 2013, 13, 2276-2281.	9.1	117
8	Shape-controlled synthesis of metal nanocrystals. <i>MRS Bulletin</i> , 2013, 38, 335-344.	3.5	111
9	A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. <i>ChemCatChem</i> , 2015, 7, 2077-2084.	3.7	111
10	Protein-Protected Au Clusters as a New Class of Nanoscale Biosensor for Label-Free Fluorescence Detection of Proteases. <i>Small</i> , 2012, 8, 3769-3773.	10.0	107
11	Rapid synthesis of highly luminescent and stable Au ₂₀ nanoclusters for active tumor-targeted imaging in vitro and in vivo. <i>Nanoscale</i> , 2014, 6, 2261-2269.	5.6	102
12	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. <i>ACS Nano</i> , 2015, 9, 10047-10054.	14.6	96
13	Polyol Syntheses of Palladium Decahedra and Icosahedra as Pure Samples by Maneuvering the Reaction Kinetics with Additives. <i>ACS Nano</i> , 2014, 8, 7041-7050.	14.6	95
14	End-to-end assembly of gold nanorods by means of oligonucleotide-mercury(ii) molecular recognition. <i>Chemical Communications</i> , 2010, 46, 1332.	4.1	93
15	Green and easy synthesis of biocompatible graphene for use as an anticoagulant. <i>RSC Advances</i> , 2012, 2, 2322.	3.6	78
16	Using SV119-Gold Nanocage Conjugates to Eradicate Cancer Stem Cells Through a Combination of Photothermal and Chemo Therapies. <i>Advanced Healthcare Materials</i> , 2014, 3, 1283-1291.	7.6	69
17	Facile Fabrication of Metal Nanoparticle/Graphene Oxide Hybrids: A New Strategy To Directly Illuminate Graphene for Optical Imaging. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12815-12821.	3.1	66
18	Controlled Synthesis of Nanosized Palladium icosahedra and Their Catalytic Activity towards Formic Acid Oxidation. <i>ChemSusChem</i> , 2013, 6, 1923-1930.	6.8	62

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19	Synthesis of Colloidal Metal Nanocrystals in Droplet Reactors: The Pros and Cons of Interfacial Adsorption. <i>Nano Letters</i> , 2014, 14, 4189-4194.	9.1	62
20	Seed-Mediated Synthesis of Silver Nanocrystals with Controlled Sizes and Shapes in Droplet Microreactors Separated by Air. <i>Langmuir</i> , 2013, 29, 15719-15725.	3.5	48
21	Luminescent golden silk and fabric through in situ chemically coating pristine-silk with gold nanoclusters. <i>Biomaterials</i> , 2015, 36, 26-32.	11.4	47
22	Seed-mediated growth of Au@Ag core-shell nanorods for the detection of ellagic acid in whitening cosmetics. <i>Analytica Chimica Acta</i> , 2018, 1002, 97-104.	5.4	41
23	Morphological control of nanoprobe for colorimetric antioxidant detection. <i>Biosensors and Bioelectronics</i> , 2018, 122, 183-188.	10.1	40
24	One-pot preparation of dextran-capped gold nanoparticles at room temperature and colorimetric detection of dihydralazine sulfate in uric samples. <i>Analytical Methods</i> , 2010, 2, 1982.	2.7	39
25	Highly selective detection of bacterial alarmone ppGpp with an off-on fluorescent probe of copper-mediated silver nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013, 49, 433-437.	10.1	39
26	Controllable preparation of metal nanoparticle/carbon nanotube hybrids as efficient dark field light scattering agents for cell imaging. <i>Chemical Communications</i> , 2010, 46, 4303.	4.1	37
27	Real-time monitoring of oxidative etching on single Ag nanocubes via light-scattering dark-field microscopy imaging. <i>Nanoscale</i> , 2015, 7, 15209-15213.	5.6	36
28	Seed-mediated growth of bimetallic nanoparticles as an effective strategy for sensitive detection of vitamin C. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 95-101.	7.8	36
29	Highly selective and sensitive detection of coralyne based on the binding chemistry of aptamer and graphene oxide. <i>Talanta</i> , 2013, 112, 117-122.	5.5	34
30	A One-Pot Green Method for One-Dimensional Assembly of Gold Nanoparticles with a Novel Chitosan-Ninhydrin Bioconjugate at Physiological Temperature. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4315-4320.	3.1	29
31	Manipulating Bimetallic Nanostructures With Tunable Localized Surface Plasmon Resonance and Their Applications for Sensing. <i>Frontiers in Chemistry</i> , 2020, 8, 411.	3.6	28
32	Bimetallic nanoclusters with strong red fluorescence for sensitive detection of hypochlorite in tap water. <i>Mikrochimica Acta</i> , 2017, 184, 3781-3787.	5.0	26
33	Highly selective detection of sulfide through poisoning silver nanoparticle catalysts. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 414-420.	7.8	24
34	Electrochemical synthesis of catalytic materials for energy catalysis. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1001-1016.	14.0	23
35	A one-pot strategy for biomimetic synthesis and self-assembly of gold nanoparticles. <i>Nanotechnology</i> , 2010, 21, 305601.	2.6	22
36	Label-Free Detection of Prion Protein with Its DNA Aptamer through the Formation of T-Hg ²⁺ -T Configuration. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9565-9569.	2.6	21

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37	Light scattering investigations on mercury ion induced amalgamation of gold nanoparticles in aqueous medium. <i>Science China Chemistry</i> , 2012, 55, 1445-1450.	8.2	15
38	Copper(II)-mediated silver nanoclusters as a fluorescent platform for highly sensitive detection of alendronate sodium. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 271-277.	7.8	14
39	Nanofabrication of hollowed-out Au@AgPt core-frames via selective carving of silver and deposition of platinum. <i>Chemical Communications</i> , 2020, 56, 2945-2948.	4.1	14
40	Facile Fabrication of a Gold Nanocluster-Based Membrane for the Detection of Hydrogen Peroxide. <i>Sensors</i> , 2016, 16, 1124.	3.8	13
41	One-pot synthesis of wavy gold-silver alloy nanoplates with tunable elemental compositions: Optical and photothermal properties. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161767.	5.5	13
42	Detection of B-type natriuretic peptide by establishing a low-cost and replicable fluorescence resonance energy transfer platform. <i>Mikrochimica Acta</i> , 2020, 187, 331.	5.0	12
43	Use of seed-mediated growth of bimetallic nanorods as a knob for antioxidant assay. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 158-165.	7.8	11
44	Etching-controlled suppression of fluorescence resonance energy transfer between nitrogen-doped carbon dots and Ag nanoprisms for glucose assay and diabetes diagnosis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118713.	3.9	10
45	Facile synthesis of high-purity single-twinned Au nanocrystals through manipulation of reaction kinetics. <i>CrystEngComm</i> , 2015, 17, 6636-6640.	2.6	8
46	Detection of tiopronin in body fluids and pharmaceutical products using red-emissive DNA-stabilized silver nanoclusters as a fluorescent probe. <i>Mikrochimica Acta</i> , 2019, 186, 609.	5.0	8
47	Regulating peroxidase-like activity of Pd nanocubes through surface inactivation and its application for sulfide detection. <i>New Journal of Chemistry</i> , 2019, 43, 371-376.	2.8	8
48	Controlled formation of intense hot spots in Pd@Ag core-shell nano-octapods for efficient photothermal conversion. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	7
49	Defect-rich CoOOH nanorings: A biocompatible and cost-efficient material for clinical diagnosis of children heart failure. <i>Chemical Engineering Journal</i> , 2021, 426, 131834.	12.7	6
50	Fe(III)-mediated reversible catalytic activity of MoS ₂ nanozymes for bisphosphonate drug sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111953.	5.0	5
51	Yolk-Shell AuAgPt Alloy Nanostructures with Tunable Morphologies: Plasmon-Enhanced Photothermal and Catalytic Properties. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	3
52	Interstitial diffuse radiance spectroscopy of gold nanocages and nanorods in bulk muscle tissues. <i>International Journal of Nanomedicine</i> , 2015, 10, 1307.	6.7	0