

Zhuangqiang Gao

List of Publications by Year in descending order

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33
papers

2,848
citations

185998

28
h-index

395343

33
g-index

33
all docs

33
docs citations

33
times ranked

3530
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. <i>Nano Letters</i> , 2017, 17, 5572-5579.	4.5	235
2	High-Resolution Colorimetric Assay for Rapid Visual Readout of Phosphatase Activity Based on Gold/Silver Core/Shell Nanorod. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18243-18250.	4.0	217
3	Magnetic Bead-Based Reverse Colorimetric Immunoassay Strategy for Sensing Biomolecules. <i>Analytical Chemistry</i> , 2013, 85, 6945-6952.	3.2	209
4	Facile Synthesis of Enhanced Fluorescent Gold@Silver Bimetallic Nanocluster and Its Application for Highly Sensitive Detection of Inorganic Pyrophosphatase Activity. <i>Analytical Chemistry</i> , 2016, 88, 8886-8892.	3.2	190
5	Irregular-shaped platinum nanoparticles as peroxidase mimics for highly efficient colorimetric immunoassay. <i>Analytica Chimica Acta</i> , 2013, 776, 79-86.	2.6	163
6	Enhanced Colorimetric Immunoassay Accompanying with Enzyme Cascade Amplification Strategy for Ultrasensitive Detection of Low-Abundance Protein. <i>Scientific Reports</i> , 2014, 4, 3966.	1.6	137
7	Urchin-like (gold core)@(platinum shell) nanohybrids: A highly efficient peroxidase-mimetic system for in situ amplified colorimetric immunoassay. <i>Biosensors and Bioelectronics</i> , 2015, 70, 194-201.	5.3	133
8	Tyramine-Based Enzymatic Conjugate Repeats for Ultrasensitive Immunoassay Accompanying Tyramine Signal Amplification with Enzymatic Biocatalytic Precipitation. <i>Analytical Chemistry</i> , 2014, 86, 8352-8358.	3.2	127
9	Multiplexed electrochemical immunoassay of biomarkers using metal sulfide quantum dot nanolabels and trifunctionalized magnetic beads. <i>Biosensors and Bioelectronics</i> , 2013, 46, 37-43.	5.3	117
10	Label-free hairpin DNA-scaffolded silver nanoclusters for fluorescent detection of Hg ²⁺ using exonuclease III-assisted target recycling amplification. <i>Biosensors and Bioelectronics</i> , 2016, 79, 411-415.	5.3	102
11	Hybridization chain reaction-based colorimetric aptasensor of adenosine 5'-triphosphate on unmodified gold nanoparticles and two label-free hairpin probes. <i>Biosensors and Bioelectronics</i> , 2017, 89, 1006-1012.	5.3	100
12	Facile Colorimetric Detection of Silver Ions with Picomolar Sensitivity. <i>Analytical Chemistry</i> , 2017, 89, 3622-3629.	3.2	98
13	Target-Induced Nanocatalyst Deactivation Facilitated by Core@Shell Nanostructures for Signal-Amplified Headspace-Colorimetric Assay of Dissolved Hydrogen Sulfide. <i>Analytical Chemistry</i> , 2015, 87, 10153-10160.	3.2	93
14	Strain Effect in Palladium Nanostructures as Nanozymes. <i>Nano Letters</i> , 2020, 20, 272-277.	4.5	85
15	High-index {hk0} faceted platinum concave nanocubes with enhanced peroxidase-like activity for an ultrasensitive colorimetric immunoassay of the human prostate-specific antigen. <i>Analyst</i> , 2017, 142, 911-917.	1.7	78
16	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5'-triphosphate with unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 86, 978-984.	5.3	72
17	Multifunctional Gold@Silica Nanostructures for Ultrasensitive Electrochemical Immunoassay of Streptomycin Residues. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4668-4676.	4.0	69
18	Hemin/G-quadruplex-based DNAzyme concatamers for in situ amplified impedimetric sensing of copper(II) ion coupling with DNAzyme-catalyzed precipitation strategy. <i>Biosensors and Bioelectronics</i> , 2015, 74, 1-7.	5.3	69

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19	DNAzyme-functionalized gold-palladium hybrid nanostructures for triple signal amplification of impedimetric immunosensor. <i>Biosensors and Bioelectronics</i> , 2014, 54, 365-371.	5.3	67
20	Graphene oxide-labeled sandwich-type impedimetric immunoassay with sensitive enhancement based on enzymatic 4-chloro-1-naphthol oxidation. <i>Biosensors and Bioelectronics</i> , 2013, 47, 149-156.	5.3	63
21	Nanogold-based bio-bar codes for label-free immunosensing of proteins coupling with an in situ DNA-based hybridization chain reaction. <i>Chemical Communications</i> , 2012, 48, 12207.	2.2	62
22	Nanoparticle-based pseudo hapten for target-responsive cargo release from a magnetic mesoporous silica nanocontainer. <i>Chemical Communications</i> , 2014, 50, 6256.	2.2	59
23	Nanogold-enhanced graphene nanosheets as multienzyme assembly for sensitive detection of low-abundance proteins. <i>Biosensors and Bioelectronics</i> , 2013, 44, 108-114.	5.3	46
24	Morphology-Invariant Metallic Nanoparticles with Tunable Plasmonic Properties. <i>ACS Nano</i> , 2021, 15, 2428-2438.	7.3	44
25	Template Regeneration in Galvanic Replacement: A Route to Highly Diverse Hollow Nanostructures. <i>ACS Nano</i> , 2020, 14, 791-801.	7.3	38
26	Nanoplasmonic Sandwich Immunoassay for Tumor-Derived Exosome Detection and Exosomal PD-L1 Profiling. <i>ACS Sensors</i> , 2021, 6, 3308-3319.	4.0	35
27	Enzyme-free amperometric glucose sensor using a glassy carbon electrode modified with poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overl Mikrochimica Acta, 2017, 184, 807-814.	2.5	33
28	Machine-Learning-Assisted Microfluidic Nanoplasmonic Digital Immunoassay for Cytokine Storm Profiling in COVID-19 Patients. <i>ACS Nano</i> , 2021, 15, 18023-18036.	7.3	33
29	A non-enzyme cascade amplification strategy for colorimetric assay of disease biomarkers. <i>Chemical Communications</i> , 2017, 53, 9055-9058.	2.2	25
30	Isothermal cycling and cascade signal amplification strategy for ultrasensitive colorimetric detection of nucleic acids. <i>Mikrochimica Acta</i> , 2015, 182, 449-454.	2.5	18
31	Recent advance of RNA aptamers and DNAzymes for MicroRNA detection. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114423.	5.3	17
32	Peroxidase-AgAu hybrid nanocages as signal transducers for sensitive plasmonic colorimetric sensing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15179-15187.	2.7	7
33	Ultrafast and sensitive colorimetric detection of ascorbic acid with Pd-Pt core-shell nanostructure as peroxidase mimic. <i>Sensors International</i> , 2020, 1, 100031.	4.9	7