

Rijun Gui

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

5,127
citations

66343

42
h-index

95266

68
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all docs

94
docs citations

94
times ranked

5822
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental synthesis, functionalized modifications and potential applications of mono-elemental zero-dimensional boron nanomaterials. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5111-5146.	10.3	15
2	Sulfur nanoparticle-encapsulated MOF and boron nanosheet-ferrocene complex modified electrode platform for ratiometric electrochemical sensing of adriamycin and real-time monitoring of drug release. <i>Microchemical Journal</i> , 2022, 177, 107319.	4.5	26
3	Urate oxidase-loaded MOF electrodeposited on boron nanosheet-doxorubicin complex as multifunctional nano-enzyme platform for enzymatic and ratiometric electrochemical biosensing. <i>Talanta</i> , 2022, 243, 123359.	5.5	17
4	Mono-elemental two-dimensional boron nanomaterials beyond theoretical simulations: From experimental preparation, functionalized modification to practical applications. <i>Advances in Colloid and Interface Science</i> , 2022, 304, 102669.	14.7	6
5	Phosphorescence-based ratiometric probes: Design, preparation and applications in sensing, imaging and biomedicine therapy. <i>Coordination Chemistry Reviews</i> , 2021, 431, 213694.	18.8	37
6	A petal-shaped MOF assembled with a gold nanocage and urate oxidase used as an artificial enzyme nanohybrid for tandem catalysis and dual-channel biosensing. <i>Nanoscale</i> , 2021, 13, 13014-13023.	5.6	24
7	Dual-signal ratiometric platforms: Construction principles and electrochemical biosensing applications at the live cell and small animal levels. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 134, 116124.	11.4	31
8	Zero-dimensional sulfur nanomaterials: Synthesis, modifications and applications. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213913.	18.8	45
9	Ratiometric two-photon fluorescence probes for sensing, imaging and biomedicine applications at living cell and small animal levels. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214114.	18.8	55
10	Assembly of Black Phosphorus Nanosheets and MOF to Form Functional Hybrid Thin-Film for Precise Protein Capture, Dual-Signal and Intrinsic Self-Calibration Sensing of Specific Cancer-Derived Exosomes. <i>Analytical Chemistry</i> , 2020, 92, 2866-2875.	6.5	95
11	Emerging metal ion-coordinated black phosphorus nanosheets and black phosphorus quantum dots with excellent stabilities. <i>Dalton Transactions</i> , 2020, 49, 11911-11920.	3.3	17
12	Mn-Doping-induced hierarchical petal growth of a flower-like 3D MOF assembled with black phosphorous nanosheets as an electrochemical aptasensor of human stress-induced phosphoprotein 1. <i>Nanoscale</i> , 2020, 12, 14538-14548.	5.6	36
13	Visual bio-detection and versatile bio-imaging of zinc-ion-coordinated black phosphorus quantum dots with improved stability and bright fluorescence. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112390.	10.1	29
14	Black phosphorus nanosheets adhering to thionine-doped 2D MOF as a smart aptasensor enabling accurate capture and ratiometric electrochemical detection of target microRNA. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127777.	7.8	77
15	Assembly of black phosphorus quantum dots-doped MOF and silver nanoclusters as a versatile enzyme-catalyzed biosensor for solution, flexible substrate and latent fingerprint visual detection of baicalin. <i>Biosensors and Bioelectronics</i> , 2020, 152, 112012.	10.1	74
16	Self-assembly of DNA-templated copper nanoclusters and carbon dots for ratiometric fluorometric and visual determination of arginine and acetaminophen with a logic-gate operation. <i>Mikrochimica Acta</i> , 2020, 187, 154.	5.0	81
17	Ketjen black/ferrocene dual-doped MOFs and aptamer-coupling gold nanoparticles used as a novel ratiometric electrochemical aptasensor for vanillin detection. <i>Analytica Chimica Acta</i> , 2019, 1083, 101-109.	5.4	83
18	Colorimetric and fluorometric dual-channel ratiometric determination of fungicide cymoxanil based on analyte-induced aggregation of silver nanoparticles and dually emitting carbon dots. <i>Mikrochimica Acta</i> , 2019, 186, 580.	5.0	52

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19	Recent advances in synthetic methods and applications of photo-luminescent molecularly imprinted polymers. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 41, 100315.	11.6	40
20	Magnetic and fluorescent nanohybrids with surface imprinting silica as a dual-functional sensing platform for ratiometric fluorescence detection of phycoerythrin. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11483-11492.	5.5	30
21	Preparation and applications of electrochemical chemosensors based on carbon-nanomaterial-modified molecularly imprinted polymers. <i>Nanoscale Advances</i> , 2019, 1, 3325-3363.	4.6	65
22	An amplified label-free electrochemical aptasensor of $\hat{\text{I}}^3$ -interferon based on target-induced DNA strand transform of hairpin-to-linear conformation enabling simultaneous capture of redox probe and target. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111732.	10.1	35
23	Recent advances in dual-emission ratiometric fluorescence probes for chemo/biosensing and bioimaging of biomarkers. <i>Coordination Chemistry Reviews</i> , 2019, 383, 82-103.	18.8	352
24	Creatinine-induced specific signal responses and enzymeless ratiometric electrochemical detection based on copper nanoparticles electrodeposited on reduced graphene oxide-based hybrids. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 201-208.	7.8	63
25	Two-dimensional group-VA nanomaterials beyond black phosphorus: synthetic methods, properties, functional nanostructures and applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25712-25771.	10.3	49
26	Reduced graphene oxide/nile blue/gold nanoparticles complex-modified glassy carbon electrode used as a sensitive and label-free aptasensor for ratiometric electrochemical sensing of dopamine. <i>Analytica Chimica Acta</i> , 2018, 1025, 154-162.	5.4	141
27	DNA assembly of carbon dots and 5-fluorouracil used for room-temperature phosphorescence turn-on sensing of AFP and AFP-triggered simultaneous release of dual-drug. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1623-1630.	7.8	26
28	Red-emitting BSA-stabilized copper nanoclusters acted as a sensitive probe for fluorescence sensing and visual imaging detection of rutin. <i>Talanta</i> , 2018, 178, 1006-1010.	5.5	65
29	Simultaneous and selective measurement of dopamine and uric acid using glassy carbon electrodes modified with a complex of gold nanoparticles and multiwall carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2069-2077.	7.8	91
30	Recent advances and future prospects in molecularly imprinted polymers-based electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2018, 100, 56-70.	10.1	332
31	Ratiometric fluorescence and visual imaging detection of dopamine based on carbon dots/copper nanoclusters dual-emitting nanohybrids. <i>Talanta</i> , 2018, 178, 109-115.	5.5	130
32	Specific enzymatic synthesis of 2,3-diaminophenazine and copper nanoclusters used for dual-emission ratiometric and naked-eye visual fluorescence sensing of choline. <i>New Journal of Chemistry</i> , 2018, 42, 17323-17330.	2.8	62
33	Selective and sensitive electrochemical sensing of gastrodin based on nickel foam modified with reduced graphene oxide/silver nanoparticles complex-encapsulated molecularly imprinted polymers. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 14-21.	7.8	80
34	Melamine-Induced Decomposition and Anti-FRET Effect from a Self-Assembled Complex of Rhodamine 6G and DNA-Stabilized Silver Nanoclusters Used for Dual-Emitting Ratiometric and Naked-Eye-Visible Fluorescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9819-9827.	5.2	54
35	Ratiometric fluorescence, solution-phase and filter-paper visualization detection of ciprofloxacin based on dual-emitting carbon dot/silicon dot hybrids. <i>New Journal of Chemistry</i> , 2018, 42, 16217-16225.	2.8	80
36	A bimetallic nanoparticle/graphene oxide/thionine composite-modified glassy carbon electrode used as a facile ratiometric electrochemical sensor for sensitive uric acid determination. <i>New Journal of Chemistry</i> , 2018, 42, 14796-14804.	2.8	53

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37	Black phosphorus quantum dots: synthesis, properties, functionalized modification and applications. <i>Chemical Society Reviews</i> , 2018, 47, 6795-6823.	38.1	250
38	Self-Assembled Ionic Liquid-Phosphomolybdic Acid/Reduced Graphene Oxide Composite Modified Electrode for Sensitive Determination of Dopamine. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3014-M3018.	1.8	3
39	Fabrication strategies, sensing modes and analytical applications of ratiometric electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2017, 91, 523-537.	10.1	151
40	Recent advances in optical properties and applications of colloidal quantum dots under two-photon excitation. <i>Coordination Chemistry Reviews</i> , 2017, 338, 141-185.	18.8	56
41	A facile strategy for ratiometric electrochemical sensing of quercetin in electrolyte solution directly using bare glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017, 795, 97-102.	3.8	30
42	Electrodeposition one-step preparation of silver nanoparticles/carbon dots/reduced graphene oxide ternary dendritic nanocomposites for sensitive detection of doxorubicin. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 50-57.	7.8	70
43	Aptamer-modified CuS nanocrystals/graphene oxide composites for controlled release of glucosamine and chemo-photothermal therapy of tumor cells. <i>Materials Letters</i> , 2017, 195, 131-135.	2.6	11
44	Carrot-derived carbon dots modified with polyethyleneimine and nile blue for ratiometric two-photon fluorescence turn-on sensing of sulfide anion in biological fluids. <i>Talanta</i> , 2017, 169, 141-148.	5.5	85
45	Facile construction of reduced graphene oxide-carbon dot complex embedded molecularly imprinted polymers for dual-amplification and selective electrochemical sensing of rutoside. <i>New Journal of Chemistry</i> , 2017, 41, 9977-9983.	2.8	31
46	Facile fabrication of dual-ratiometric electrochemical sensors based on a bare electrode for dual-signal sensing of analytes in electrolyte solution. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 71-78.	7.8	36
47	A general strategy to facilitate design ratiometric electrochemical sensors in electrolyte solution by directly using a bare electrode for dual-signal sensing of analytes. <i>Talanta</i> , 2017, 162, 435-439.	5.5	36
48	Aptamer and 5-fluorouracil dual-loading Ag ₂ S quantum dots used as a sensitive label-free probe for near-infrared photoluminescence turn-on detection of CA125 antigen. <i>Biosensors and Bioelectronics</i> , 2017, 92, 378-384.	10.1	64
49	Ratiometric, visual, dual-signal fluorescent sensing and imaging of pH/copper ions in real samples based on carbon dots-fluorescein isothiocyanate composites. <i>Talanta</i> , 2017, 162, 65-71.	5.5	81
50	Glycerol-regulated facile synthesis and targeted cell imaging of highly luminescent Ag ₂ Te quantum dots with tunable near-infrared emission. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 118-123.	5.0	19
51	Synthetic methods and potential applications of transition metal dichalcogenide/graphene nanocomposites. <i>Coordination Chemistry Reviews</i> , 2016, 326, 86-110.	18.8	48
52	Ratiometric two-photon excited photoluminescence of quantum dots triggered by near-infrared-light for real-time detection of nitric oxide release in situ. <i>Analytica Chimica Acta</i> , 2016, 922, 48-54.	5.4	38
53	Carbon nanomaterials-based electrochemical aptasensors. <i>Biosensors and Bioelectronics</i> , 2016, 79, 136-149.	10.1	148
54	Label-free quadruple signal amplification strategy for sensitive electrochemical p53 gene biosensing. <i>Biosensors and Bioelectronics</i> , 2016, 77, 157-163.	10.1	29

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55	Two-photon excited quantum dots with compact surface coatings of polymer ligands used as an upconversion luminescent probe for dopamine detection in biological fluids. <i>Analyst, The</i> , 2015, 140, 2037-2043.	3.5	22
56	Single electrode biosensor for simultaneous determination of interferon gamma and lysozyme. <i>Biosensors and Bioelectronics</i> , 2015, 68, 55-61.	10.1	47
57	Ag ₂ Te quantum dots with compact surface coatings of multivalent polymers: Ambient one-pot aqueous synthesis and the second near-infrared bioimaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 115-120.	5.0	41
58	Amphoteric surfactant promoted three-dimensional assembly of graphene micro/nanoclusters to accommodate Pt nanoparticles for methanol oxidation. <i>Electrochimica Acta</i> , 2015, 160, 288-295.	5.2	37
59	Glutathione capped Mn ²⁺ -doped ZnSe quantum dots-photodonor nanocomposites for two-photon excited fluorescence-induced nitric oxide release. <i>Materials Chemistry and Physics</i> , 2015, 162, 286-290.	4.0	14
60	Aptamer-functionalized hydrogel as effective anti-cancer drugs delivery agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 40-46.	5.0	24
61	An electrochemical sensor for the sensitive detection of rutin based on a novel composite of activated silica gel and graphene. <i>RSC Advances</i> , 2015, 5, 39131-39137.	3.6	23
62	Room-temperature phosphorescence logic gates developed from nucleic acid functionalized carbon dots and graphene oxide. <i>Nanoscale</i> , 2015, 7, 8289-8293.	5.6	45
63	Facile synthesis of gold nanorods/hydrogels core/shell nanospheres for pH and near-infrared-light induced release of 5-fluorouracil and chemo-photothermal therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 498-505.	5.0	42
64	A plasmonic aptasensor for ultrasensitive detection of thrombin via arrested rolling circle amplification. <i>Chemical Communications</i> , 2015, 51, 7927-7930.	4.1	34
65	Recent advances in synthetic methods and applications of colloidal silver chalcogenide quantum dots. <i>Coordination Chemistry Reviews</i> , 2015, 296, 91-124.	18.8	119
66	Electrodeposition of PtNi bimetallic nanoparticles on three-dimensional graphene for highly efficient methanol oxidation. <i>RSC Advances</i> , 2015, 5, 86578-86583.	3.6	21
67	Assembled magnetic nanoparticles for photosensitive nitric oxide release and turn-on fluorescence detection in situ. <i>Materials Chemistry and Physics</i> , 2015, 167, 231-235.	4.0	11
68	Self-assembly synthesis of magnetic fluorescein derivatives for Cu(II)-assisted OFF-ON fluorescence probe of nitric oxide. <i>Materials Letters</i> , 2014, 132, 436-439.	2.6	7
69	Encapsulating magnetic and fluorescent mesoporous silica into thermosensitive chitosan microspheres for cell imaging and controlled drug release in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 1-9.	5.0	76
70	Embedding fluorescent mesoporous silica nanoparticles into biocompatible nanogels for tumor cell imaging and thermo/pH-sensitive in vitro drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 518-525.	5.0	46
71	Multidentate polymers stabilized water-dispersed copper nanoclusters: facile photoreduction synthesis and selective fluorescence turn-on response. <i>RSC Advances</i> , 2014, 4, 29083.	3.6	27
72	Ratiometric and Time-Resolved Fluorimetry from Quantum Dots Featuring Drug Carriers for Real-Time Monitoring of Drug Release in Situ. <i>Analytical Chemistry</i> , 2014, 86, 5211-5214.	6.5	45

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73	Protein-stabilized fluorescent nanocrystals consisting of a gold core and a silver shell for detecting the total amount of cysteine and homocysteine. <i>Mikrochimica Acta</i> , 2014, 181, 1231-1238.	5.0	13
74	Amphiphilic polymer-template synthesis and pH-triggered phase transfer of luminescent silver nanocrystals. <i>Materials Letters</i> , 2013, 96, 20-23.	2.6	4
75	Acetyl acetonate-stabilized Mn ²⁺ :CdS quantum dots: Aqueous synthesis and reversible fluorescence tuned by redox reaction. <i>Materials Letters</i> , 2013, 98, 190-193.	2.6	3
76	An improved method for ratiometric fluorescence detection of pH and Cd ²⁺ using fluorescein isothiocyanate-quantum dots conjugates. <i>Analytica Chimica Acta</i> , 2013, 767, 134-140.	5.4	97
77	Layer-by-layer aqueous synthesis, characterization and fluorescence properties of type-II CdTe/CdS core/shell quantum dots with near-infrared emission. <i>RSC Advances</i> , 2013, 3, 20959-20969.	3.6	24
78	A near-infrared-emitting CdTe/CdS core/shell quantum dots-based OFF-ON fluorescence sensor for highly selective and sensitive detection of Cd ²⁺ . <i>Talanta</i> , 2012, 94, 257-262.	5.5	89
79	Rhodamine 6G conjugated-quantum dots used for highly sensitive and selective ratiometric fluorescence sensor of glutathione. <i>Talanta</i> , 2012, 94, 295-300.	5.5	59
80	Thermosensitive, reversible luminescence properties and bright fluorescence imaging of water-soluble quantum dots/microgels nanocompounds. <i>Materials Letters</i> , 2012, 88, 122-125.	2.6	13