

Changqing Yi

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,785
citations

186265

28
h-index

175258

52
g-index

65
all docs

65
docs citations

65
times ranked

3987
citing authors

#	ARTICLE	IF	CITATIONS
1	An AlEgen/graphene oxide nanocomposite (AlEgen@GO)-based two-stage turn-on nucleic acid biosensor for rapid detection of SARS-CoV-2 viral sequence. <i>Aggregate</i> , 2023, 4, e195.	9.9	23
2	An integrative review on the applications of 3D printing in the field of in vitro diagnostics. <i>Chinese Chemical Letters</i> , 2022, 33, 2231-2242.	9.0	18
3	Development of gold nanoparticles-aptamer nanocomposite for multiplexed analysis of antibiotics and design of molecular logic gates. <i>Nanotechnology</i> , 2022, 33, 015501.	2.6	1
4	Facile synthesis and in vivo bioimaging applications of porphyrin derivative-encapsulated polymer nanoparticles. <i>Chinese Chemical Letters</i> , 2022, 33, 4101-4106.	9.0	13
5	A touch-actuated glucose sensor fully integrated with microneedle array and reverse iontophoresis for diabetes monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114026.	10.1	71
6	Virus Detection: From State-of-the-Art Laboratories to Smartphone-Based Point-of-Care Testing. <i>Advanced Science</i> , 2022, 9, e2105904.	11.2	66
7	Point-of-need quantitation of 2,4-dichlorophenoxyacetic acid using a ratiometric fluorescent nanoprobe and a smartphone-based sensing system. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132083.	7.8	10
8	An Ir(III) complex capable of discriminating homocysteine from cysteine and glutathione with luminescent signal and imaging studies. <i>Talanta</i> , 2021, 221, 121428.	5.5	4
9	Gadolinium-porphyrin based polymer nanotheranostics for fluorescence/magnetic resonance imaging guided photodynamic therapy. <i>Nanoscale</i> , 2021, 13, 16197-16206.	5.6	16
10	Microwave-assisted synthesis of colorimetric and fluorometric dual-functional hybrid carbon nanodots for Fe ³⁺ detection and bioimaging. <i>Chinese Chemical Letters</i> , 2021, 32, 3189-3194.	9.0	26
11	Logic Gate Design Using Multicolor Fluorescent Carbon Nanodots for Smartphone-Based Information Extraction. <i>ACS Applied Nano Materials</i> , 2021, 4, 8184-8191.	5.0	11
12	Nanotechnology for diagnosis and therapy of rheumatoid arthritis: Evolution towards theranostic approaches. <i>Chinese Chemical Letters</i> , 2021, 32, 66-86.	9.0	46
13	Synthesis of fluorescent nanoprobe with simultaneous response to intracellular pH and Zn ²⁺ for tumor cell distinguishment. <i>Mikrochimica Acta</i> , 2021, 188, 9.	5.0	6
14	Hybrid theranostic microbubbles for ultrasound/photoacoustic imaging guided starvation/low-temperature photothermal/hypoxia-activated synergistic cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9358-9369.	5.8	9
15	Facile synthesis and functionalization of color-tunable Ln ³⁺ -doped KGdF ₄ nanoparticles on a microfluidic platform. <i>Materials Science and Engineering C</i> , 2020, 108, 110381.	7.3	13
16	Plug and Play logic gate construction based on chemically triggered fluorescence switching of gold nanoparticles conjugated with Cy3-tagged aptamer. <i>Mikrochimica Acta</i> , 2020, 187, 437.	5.0	8
17	Droplet Microarray Based on Nanosensing Probe Patterns for Simultaneous Detection of Multiple HIV Retroviral Nucleic Acids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55614-55623.	8.0	27
18	A Smartphone-Based Sensing System for On-Site Quantitation of Multiple Heavy Metal Ions Using Fluorescent Carbon Nanodots-Based Microarrays. <i>ACS Sensors</i> , 2020, 5, 870-878.	7.8	127

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19	A smartphone-based quantitative point-of-care testing (POCT) system for simultaneous detection of multiple heavy metal ions. <i>Chemical Engineering Journal</i> , 2020, 394, 124966.	12.7	96
20	Facile synthesis of pH-responsive gadolinium(III)-doped carbon nanodots with red fluorescence and magnetic resonance properties for dual-readout logic gate operations. <i>Carbon</i> , 2020, 166, 265-272.	10.3	34
21	Multilevel, Dual-Readout Logic Operations Based on pH-Responsive Holmium(III)-Doped Carbon Nanodots. <i>ACS Applied Bio Materials</i> , 2020, 3, 3761-3769.	4.6	12
22	Iridium(III) and gadolinium(III) loaded and peptide-modified silica nanoparticles for photoluminescence and magnetic resonance (dual) imaging. <i>Materials Science and Engineering C</i> , 2019, 104, 109972.	7.3	12
23	Point-of-need detection of microcystin-LR using a smartphone-controlled electrochemical analyzer. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 132-140.	7.8	40
24	A smartphone-based quantitative detection device integrated with latex microsphere immunochromatography for on-site detection of zearalenone in cereals and feed. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 170-179.	7.8	63
25	Simultaneous detection of glucose, uric acid and cholesterol using flexible microneedle electrode array-based biosensor and multi-channel portable electrochemical analyzer. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 102-110.	7.8	136
26	Surface Engineering of Carbon Nanodots (C-Dots) for Biomedical Applications. , 2019, , 137-188.		8
27	Facile Synthesis of Gadolinium Chelate-Conjugated Polymer Nanoparticles for Fluorescence/Magnetic Resonance Dual-Modal Imaging. <i>Analytical Chemistry</i> , 2018, 90, 1992-2000.	6.5	24
28	A point-of-need enzyme linked aptamer assay for Mycobacterium tuberculosis detection using a smartphone. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 337-346.	7.8	54
29	Facile preparation of holmium(III)-doped carbon nanodots for fluorescence/magnetic resonance dual-modal bioimaging. <i>Chinese Chemical Letters</i> , 2018, 29, 1277-1280.	9.0	21
30	A ratiometric fluorescent core-shell nanoprobe for sensing and imaging of zinc(II) in living cell and zebrafish. <i>Mikrochimica Acta</i> , 2018, 185, 523.	5.0	15
31	Recent advances in microfluidic technology for manipulation and analysis of biological cells (2007-2017). <i>Analytica Chimica Acta</i> , 2018, 1044, 29-65.	5.4	69
32	Ultras-small Metal-Organic Framework Zn-MOF-74 Nanodots: Size-Controlled Synthesis and Application for Highly Selective Colorimetric Sensing of Iron(III) in Aqueous Solution. <i>ACS Applied Nano Materials</i> , 2018, 1, 3747-3753.	5.0	86
33	Gold Nanoprobe-Enabled Three-Dimensional Ozone Imaging by Optical Coherence Tomography. <i>Analytical Chemistry</i> , 2017, 89, 2561-2568.	6.5	8
34	A 3D printed smartphone optosensing platform for point-of-need food safety inspection. <i>Analytica Chimica Acta</i> , 2017, 966, 81-89.	5.4	64
35	Separation of polystyrene nanoparticles in polydimethylsiloxane microfluidic devices with a combined titania and sodium dodecyl sulfate inner coating. <i>Mikrochimica Acta</i> , 2017, 184, 2227-2239.	5.0	3
36	Gold nanoparticles functionalized with Ru(II)bipyridyl labeled DNA as a luminescent probe for the sensitive determination of DNase I. <i>Mikrochimica Acta</i> , 2017, 184, 3273-3279.	5.0	7

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37	Controllable synthesis of functional nanoparticles by microfluidic platforms for biomedical applications – a review. <i>Lab on A Chip</i> , 2017, 17, 209-226.	6.0	213
38	One-pot synthesis of gadolinium-doped carbon quantum dots for high-performance multimodal bioimaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 92-101.	5.8	74
39	Design of Multiple Logic Gates Based on Chemically Triggered Fluorescence Switching of Functionalized Polyethylenimine. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9472-9482.	8.0	39
40	Grafting polyethylenimine with quinoline derivatives for targeted imaging of intracellular Zn ²⁺ and logic gate operations. <i>Materials Science and Engineering C</i> , 2016, 69, 561-568.	7.3	11
41	Rapid determination of dopamine in human plasma using a gold nanoparticle-based dual-mode sensing system. <i>Materials Science and Engineering C</i> , 2016, 61, 207-213.	7.3	61
42	Tuning photoluminescence and surface properties of carbon nanodots for chemical sensing. <i>Nanoscale</i> , 2016, 8, 500-507.	5.6	78
43	Facile synthesis of gadolinium (III) chelates functionalized carbon quantum dots for fluorescence and magnetic resonance dual-modal bioimaging. <i>Carbon</i> , 2015, 93, 742-750.	10.3	98
44	Hydroxyl and amino functionalized cyclometalated Ir(III) complexes: Synthesis, characterization and cytotoxicity studies. <i>Journal of Organometallic Chemistry</i> , 2015, 791, 175-182.	1.8	18
45	Colorimetric and bare eye determination of urinary methylamphetamine based on the use of aptamers and the salt-induced aggregation of unmodified gold nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 505-511.	5.0	53
46	Ultrasensitive detection and rapid identification of multiple foodborne pathogens with the naked eyes. <i>Biosensors and Bioelectronics</i> , 2015, 71, 186-193.	10.1	29
47	A single low-cost microfabrication approach for polymethylmethacrylate, polystyrene, polycarbonate and polysulfone based microdevices. <i>RSC Advances</i> , 2015, 5, 36036-36043.	3.6	29
48	Coumarin-modified gold nanoprobe for the sensitive detection of caspase-3. <i>RSC Advances</i> , 2015, 5, 43824-43830.	3.6	18
49	Synthesis, characterization and biomedical application of multifunctional luminomagnetic core-shell nanoparticles. <i>Materials Science and Engineering C</i> , 2015, 46, 32-40.	7.3	26
50	A “three-in-one” sample preparation method for simultaneous determination of B-group water-soluble vitamins in infant formula using VitaFast® kits. <i>Food Chemistry</i> , 2014, 153, 371-377.	8.2	15
51	Quinoline derivative-functionalized carbon dots as a fluorescent nanosensor for sensing and intracellular imaging of Zn ²⁺ . <i>Journal of Materials Chemistry B</i> , 2014, 2, 5020-5027.	5.8	143
52	Detection of single-digit foodborne pathogens with the naked eye using carbon nanotube-based multiple cycle signal amplification. <i>Chemical Communications</i> , 2014, 50, 1848.	4.1	33
53	A microfluidic linear node array for the study of protein-ligand interactions. <i>Lab on A Chip</i> , 2014, 14, 3993-3999.	6.0	1
54	Synthesis, characterization, DNA binding, cleavage activity and cytotoxicity of copper complexes. <i>Dalton Transactions</i> , 2014, 43, 2789-2798.	3.3	53

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55	A dual-mode nanosensor based on carbon quantum dots and gold nanoparticles for discriminative detection of glutathione in human plasma. <i>Biosensors and Bioelectronics</i> , 2014, 56, 39-45.	10.1	278
56	A novel dual-emission ratiometric fluorescent nanoprobe for sensing and intracellular imaging of Zn ²⁺ . <i>Biosensors and Bioelectronics</i> , 2014, 61, 397-403.	10.1	38
57	Peptide-Bridged Assembly of Hybrid Nanomaterial and Its Application for Caspase-3 Detection. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6494-6501.	8.0	52
58	Coupling gold nanoparticles to silica nanoparticles through disulfide bonds for glutathione detection. <i>Nanotechnology</i> , 2013, 24, 375501.	2.6	45
59	Natural phage nanoparticle-mediated real-time immuno-PCR for ultrasensitive detection of protein marker. <i>Chemical Communications</i> , 2013, 49, 3778.	4.1	23
60	Water-soluble and Biocompatible Cyclometalated Iridium(III) Complexes: Synthesis, Luminescence and Sensing Application. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 197-200.	2.0	28
61	The structure and function of ribonuclease A upon interacting with carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 095102.	2.6	24
62	Inhibition of Biochemical Reactions by Silicon Nanowires through Modulating Enzyme Activities. <i>ChemBioChem</i> , 2007, 8, 1225-1229.	2.6	8
63	Electrochemiluminescent determination of methamphetamine based on tris(2,2'-bipyridine)ruthenium(II) ion-association in organically modified silicate films. <i>Analytica Chimica Acta</i> , 2005, 541, 73-81.	5.4	47