Changqing Yi

List of Publications by Year
in descending order

63	2,785	186265 28	175258 52
papers	citations	h-index	g-index

65	65	65	3987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A dual-mode nanosensor based on carbon quantum dots and gold nanoparticles for discriminative detection of glutathione in human plasma. Biosensors and Bioelectronics, 2014, 56, 39-45.	10.1	278
2	Controllable synthesis of functional nanoparticles by microfluidic platforms for biomedical applications â€“ a review. Lab on A Chip, 2017, 17, 209-226.	6.0	213
3	Quinoline derivative-functionalized carbon dots as a fluorescent nanosensor for sensing and intracellular imaging of Zn²⁺. Journal of Materials Chemistry B, 2014, 2, 5020-5027.	5.8	143
4	Simultaneous detection of glucose, uric acid and cholesterol using flexible microneedle electrode array-based biosensor and multi-channel portable electrochemical analyzer. Sensors and Actuators B: Chemical, 2019, 287, 102-110.	7.8	136
5	A Smartphone-Based Sensing System for On-Site Quantitation of Multiple Heavy Metal Ions Using Fluorescent Carbon Nanodots-Based Microarrays. ACS Sensors, 2020, 5, 870-878.	7.8	127
6	Facile synthesis of gadolinium (III) chelates functionalized carbon quantum dots for fluorescence and magnetic resonance dual-modal bioimaging. Carbon, 2015, 93, 742-750.	10.3	98
7	A smartphone-based quantitative point-of-care testing (POCT) system for simultaneous detection of multiple heavy metal ions. Chemical Engineering Journal, 2020, 394, 124966.	12.7	96
8	Ultrasmall Metalâ€“Organic Framework Zn-MOF-74 Nanodots: Size-Controlled Synthesis and Application for Highly Selective Colorimetric Sensing of Iron(III) in Aqueous Solution. ACS Applied Nano Materials, 2018, 1, 3747-3753.	5.0	86
9	Tuning photoluminescence and surface properties of carbon nanodots for chemical sensing. Nanoscale, 2016, 8, 500-507.	5.6	78
10	One-pot synthesis of gadolinium-doped carbon quantum dots for high-performance multimodal bioimaging. Journal of Materials Chemistry B, 2017, 5, 92-101.	5.8	74
11	A touch-actuated glucose sensor fully integrated with microneedle array and reverse iontophoresis for diabetes monitoring. Biosensors and Bioelectronics, 2022, 203, 114026.	10.1	71
12	Recent advances in microfluidic technology for manipulation and analysis of biological cells (2007â€“2017). Analytica Chimica Acta, 2018, 1044, 29-65.	5.4	69
13	Virus Detection: From Stateâ€ofâ€theâ€Art Laboratories to Smartphoneâ€Based Pointâ€ofâ€Care Testing. Advanced Science, 2022, 9, e2105904.	11.2	66
14	A 3D printed smartphone optosensing platform for point-of-need food safety inspection. Analytica Chimica Acta, 2017, 966, 81-89.	5.4	64
15	A smartphone-based quantitative detection device integrated with latex microsphere immunochromatography for on-site detection of zearalenone in cereals and feed. Sensors and Actuators B: Chemical, 2019, 290, 170-179.	7.8	63
16	Rapid determination of dopamine in human plasma using a gold nanoparticle-based dual-mode sensing system. Materials Science and Engineering C, 2016, 61, 207-213.	7.3	61
17	A point-of-need enzyme linked aptamer assay for Mycobacterium tuberculosis detection using a smartphone. Sensors and Actuators B: Chemical, 2018, 254, 337-346.	7.8	54
18	Synthesis, characterization, DNA binding, cleavage activity and cytotoxicity of copper(<scp>ii</scp>) complexes. Dalton Transactions, 2014, 43, 2789-2798.	3.3	53

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19	Colorimetric and bare eye determination of urinary methylamphetamine based on the use of aptamers and the salt-induced aggregation of unmodified gold nanoparticles. Mikrochimica Acta, 2015, 182, 505-511.	5.0	53
20	Peptide-Bridged Assembly of Hybrid Nanomaterial and Its Application for Caspase-3 Detection. ACS Applied Materials & Interfaces, 2013, 5, 6494-6501.	8.0	52
21	Electrochemiluminescent determination of methamphetamine based on tris(2,2â€²-bipyridine)ruthenium(II) ion-association in organically modified silicate films. Analytica Chimica Acta, 2005, 541, 73-81.	5.4	47
22	Nanotechnology for diagnosis and therapy of rheumatoid arthritis: Evolution towards theranostic approaches. Chinese Chemical Letters, 2021, 32, 66-86.	9.0	46
23	Coupling gold nanoparticles to silica nanoparticles through disulfide bonds for glutathione detection. Nanotechnology, 2013, 24, 375501.	2.6	45
24	Point-of-need detection of microcystin-LR using a smartphone-controlled electrochemical analyzer. Sensors and Actuators B: Chemical, 2019, 294, 132-140.	7.8	40
25	Design of Multiple Logic Gates Based on Chemically Triggered Fluorescence Switching of Functionalized Polyethylenimine. ACS Applied Materials & Interfaces, 2016, 8, 9472-9482.	8.0	39
26	A novel dual-emission ratiometric fluorescent nanoprobe for sensing and intracellular imaging of Zn2+. Biosensors and Bioelectronics, 2014, 61, 397-403.	10.1	38
27	Facile synthesis of pH-responsive gadolinium(III)-doped carbon nanodots with red fluorescence and magnetic resonance properties for dual-readout logic gate operations. Carbon, 2020, 166, 265-272.	10.3	34
28	Detection of single-digit foodborne pathogens with the naked eye using carbon nanotube-based multiple cycle signal amplification. Chemical Communications, 2014, 50, 1848.	4.1	33
29	Ultrasensitive detection and rapid identification of multiple foodborne pathogens with the naked eyes. Biosensors and Bioelectronics, 2015, 71, 186-193.	10.1	29
30	A single low-cost microfabrication approach for polymethylmethacrylate, polystyrene, polycarbonate and polysulfone based microdevices. RSC Advances, 2015, 5, 36036-36043.	3.6	29
31	Waterâ€Soluble and Biocompatible Cyclometalated Iridium(III) Complexes: Synthesis, Luminescence and Sensing Application. European Journal of Inorganic Chemistry, 2011, 2011, 197-200.	2.0	28
32	Droplet Microarray Based on Nanosensing Probe Patterns for Simultaneous Detection of Multiple HIV Retroviral Nucleic Acids. ACS Applied Materials & Interfaces, 2020, 12, 55614-55623.	8.0	27
33	Synthesis, characterization and biomedical application of multifunctional luminomagnetic coreâ€“shell nanoparticles. Materials Science and Engineering C, 2015, 46, 32-40.	7.3	26
34	Microwave-assisted synthesis of colorimetric and fluorometric dual-functional hybrid carbon nanodots for Fe3+ detection and bioimaging. Chinese Chemical Letters, 2021, 32, 3189-3194.	9.0	26
35	The structure and function of ribonuclease A upon interacting with carbon nanotubes. Nanotechnology, 2008, 19, 095102.	2.6	24
36	Facile Synthesis of Gadolinium Chelate-Conjugated Polymer Nanoparticles for Fluorescence/Magnetic Resonance Dual-Modal Imaging. Analytical Chemistry, 2018, 90, 1992-2000.	6.5	24

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37	Natural phage nanoparticle-mediated real-time immuno-PCR for ultrasensitive detection of protein marker. Chemical Communications, 2013, 49, 3778.	4.1	23
38	An AIEgen/graphene oxide nanocomposite (AIEgen@GO)â€based twoâ€stage â€œturnâ€onâ€•nucleic acid biosensor for rapid detection of SARSâ€CoVâ€2 viral sequence. Aggregate, 2023, 4, e195.	9.9	23
39	Facile preparation of holmium(III)-doped carbon nanodots for fluorescence/magnetic resonance dual-modal bioimaging. Chinese Chemical Letters, 2018, 29, 1277-1280.	9.0	21
40	Hydroxyl and amino functionalized cyclometalated Ir(III) complexes: Synthesis, characterization and cytotoxicity studies. Journal of Organometallic Chemistry, 2015, 791, 175-182.	1.8	18
41	Coumarin-modified gold nanoprobes for the sensitive detection of caspase-3. RSC Advances, 2015, 5, 43824-43830.	3.6	18
42	An integrative review on the applications of 3D printing in the field of in vitro diagnostics. Chinese Chemical Letters, 2022, 33, 2231-2242.	9.0	18
43	Gadoliniumâ€“porphyrin based polymer nanotheranostics for fluorescence/magnetic resonance imaging guided photodynamic therapy. Nanoscale, 2021, 13, 16197-16206.	5.6	16
44	A â€œthree-in-oneâ€•sample preparation method for simultaneous determination of B-group water-soluble vitamins in infant formula using VitaFastÂ® kits. Food Chemistry, 2014, 153, 371-377.	8.2	15
45	A ratiometric fluorescent core-shell nanoprobe for sensing and imaging of zinc(II) in living cell and zebrafish. Mikrochimica Acta, 2018, 185, 523.	5.0	15
46	Facile synthesis and functionalization of color-tunable Ln3+-doped KGdF4 nanoparticles on a microfluidic platform. Materials Science and Engineering C, 2020, 108, 110381.	7.3	13
47	Facile synthesis and in vivo bioimaging applications of porphyrin derivative-encapsulated polymer nanoparticles. Chinese Chemical Letters, 2022, 33, 4101-4106.	9.0	13
48	Iridium(III) and gadolinium(III) loaded and peptide-modified silica nanoparticles for photoluminescence and magnetic resonance (dual) imaging. Materials Science and Engineering C, 2019, 104, 109972.	7.3	12
49	Multilevel, Dual-Readout Logic Operations Based on pH-Responsive Holmium(III)-Doped Carbon Nanodots. ACS Applied Bio Materials, 2020, 3, 3761-3769.	4.6	12
50	Grafting polyethylenimine with quinoline derivatives for targeted imaging of intracellular Zn 2+ and logic gate operations. Materials Science and Engineering C, 2016, 69, 561-568.	7.3	11
51	Logic Gate Design Using Multicolor Fluorescent Carbon Nanodots for Smartphone-Based Information Extraction. ACS Applied Nano Materials, 2021, 4, 8184-8191.	5.0	11
52	Point-of-need quantitation of 2,4-dichlorophenoxyacetic acid using a ratiometric fluorescent nanoprobe and a smartphone-based sensing system. Sensors and Actuators B: Chemical, 2022, 367, 132083.	7.8	10
53	Hybrid theranostic microbubbles for ultrasound/photoacoustic imaging guided starvation/low-temperature photothermal/hypoxia-activated synergistic cancer therapy. Journal of Materials Chemistry B, 2021, 9, 9358-9369.	5.8	9
54	Inhibition of Biochemical Reactions by Silicon Nanowires through Modulating Enzyme Activities. ChemBioChem, 2007, 8, 1225-1229.	2.6	8

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55	Gold Nanoprobe-Enabled Three-Dimensional Ozone Imaging by Optical Coherence Tomography. Analytical Chemistry, 2017, 89, 2561-2568.	6.5	8
56	Surface Engineering of Carbon Nanodots (C-Dots) for Biomedical Applications. , 2019, , 137-188.		8
57	â€œPlug and Playâ€•logic gate construction based on chemically triggered fluorescence switching of gold nanoparticles conjugated with Cy3-tagged aptamer. Mikrochimica Acta, 2020, 187, 437.	5.0	8
58	Gold nanoparticles functionalized with Ru(II)bipyridyl labeled DNA as a luminescent probe for the sensitive determination of DNase I. Mikrochimica Acta, 2017, 184, 3273-3279.	5.0	7
59	Synthesis of fluorescent nanoprobe with simultaneous response to intracellular pH and Zn2+ for tumor cell distinguishment. Mikrochimica Acta, 2021, 188, 9.	5.0	6
60	An Ir(III) complex capable of discriminating homocysteine from cysteine and glutathione with luminescent signal and imaging studies. Talanta, 2021, 221, 121428.	5.5	4
61	Separation of polystyrene nanoparticles in polydimethylsiloxane microfluidic devices with a combined titania and sodium dodecyl sulfate inner coating. Mikrochimica Acta, 2017, 184, 2227-2239.	5.0	3
62	A microfluidic linear node array for the study of proteinâ€“ligand interactions. Lab on A Chip, 2014, 14, 3993-3999.	6.0	1
63	Development of gold nanoparticles-aptamer nanocomposite for multiplexed analysis of antibiotics and design of molecular logic gates. Nanotechnology, 2022, 33, 015501.	2.6	1