

Bing Zhang

List of Publications by Year in descending order

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62
papers

2,604
citations

186265
28
h-index

182427
51
g-index

63
all docs

63
docs citations

63
times ranked

3421
citing authors

#	ARTICLE	IF	CITATIONS
1	Sandwich-type immunosensors and immunoassays exploiting nanostructure labels: A review. <i>Analytica Chimica Acta</i> , 2013, 758, 1-18.	5.4	409
2	DNA-Based Hybridization Chain Reaction for Amplified Bioelectronic Signal and Ultrasensitive Detection of Proteins. <i>Analytical Chemistry</i> , 2012, 84, 5392-5399.	6.5	381
3	Au(III)-promoted magnetic molecularly imprinted polymer nanospheres for electrochemical determination of streptomycin residues in food. <i>Biosensors and Bioelectronics</i> , 2013, 41, 551-556.	10.1	91
4	Anodic Stripping Voltammetric Immunoassay for Ultrasensitive Detection of Low Abundance Proteins Using Quantum Dot Aggregated Hollow Microspheres. <i>Chemistry - A European Journal</i> , 2013, 19, 2496-2503.	3.3	91
5	Electrochemical immunosensor for carcinoembryonic antigen based on nanosilver-coated magnetic beads and gold-graphene nanolabels. <i>Talanta</i> , 2012, 91, 95-102.	5.5	79
6	Hemin/G-quadruplex-based DNAzyme concatamers as electrocatalysts and biolabels for amplified electrochemical immunosensing of IgG1. <i>Chemical Communications</i> , 2012, 48, 8180.	4.1	72
7	Proximity Ligation Assay with Three-Way Junction-Induced Rolling Circle Amplification for Ultrasensitive Electronic Monitoring of Concanavalin A. <i>Analytical Chemistry</i> , 2014, 86, 7773-7781.	6.5	70
8	Multifunctional Gold-Silica Nanostructures for Ultrasensitive Electrochemical Immunoassay of Streptomycin Residues. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4668-4676.	8.0	69
9	Novel Electrochemical Immunoassay for Quantitative Monitoring of Biotin Using Target-Responsive Cargo Release from Mesoporous Silica Nanocontainers. <i>Analytical Chemistry</i> , 2013, 85, 9245-9252.	6.5	68
10	Photoresponsive colorimetric immunoassay based on chitosan modified AgI/TiO ₂ heterojunction for highly sensitive chloramphenicol detection. <i>Biosensors and Bioelectronics</i> , 2017, 87, 579-586.	10.1	66
11	Synthesis of 3-Sulfonylated Coumarins: BF ₃ ·Et ₂ O-Mediated Electrophilic Cyclization of Aryl Alkynoates Using N-Sulfonylsuccinimides. <i>Journal of Organic Chemistry</i> , 2016, 81, 11297-11304.	3.2	60
12	Redox and catalysis all-in-one infinite coordination polymer for electrochemical immunosensor of tumor markers. <i>Biosensors and Bioelectronics</i> , 2015, 64, 6-12.	10.1	58
13	Displacement-type Quartz Crystal Microbalance Immunosensing Platform for Ultrasensitive Monitoring of Small Molecular Toxins. <i>Analytical Chemistry</i> , 2013, 85, 6958-6966.	6.5	54
14	GoldMag nanocomposite-functionalized graphene sensing platform for one-step electrochemical immunoassay of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2011, 28, 174-180.	10.1	52
15	A New Electrochemical Biosensor for Determination of Hydrogen Peroxide in Food Based on Well-Dispersive Gold Nanoparticles on Graphene Oxide. <i>Electroanalysis</i> , 2011, 23, 1821-1829.	2.9	52
16	Pt NPs and DNAzyme functionalized polymer nanospheres as triple signal amplification strategy for highly sensitive electrochemical immunosensor of tumour marker. <i>Biosensors and Bioelectronics</i> , 2016, 86, 156-163.	10.1	51
17	Biotin-avidin-conjugated metal sulfide nanoclusters for simultaneous electrochemical immunoassay of tetracycline and chloramphenicol. <i>Mikrochimica Acta</i> , 2014, 181, 257-262.	5.0	50
18	Poly(o-phenylenediamine)-carried nanogold particles as signal tags for sensitive electrochemical immunoassay of prolactin. <i>Analytica Chimica Acta</i> , 2012, 728, 18-25.	5.4	48

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19	Simultaneous Multiplexed Stripping Voltammetric Monitoring of Marine Toxins in Seafood Based on Distinguishable Metal Nanocluster-Labeled Molecular Tags. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 8974-8982.	5.2	44
20	Nickel-functionalized reduced graphene oxide with polyaniline for non-enzymatic glucose sensing. <i>Mikrochimica Acta</i> , 2015, 182, 625-631.	5.0	43
21	Nanogold-functionalized magnetic beads with redox activity for sensitive electrochemical immunoassay of thyroid-stimulating hormone. <i>Analytica Chimica Acta</i> , 2012, 711, 17-23.	5.4	40
22	Additional Molecular Biological Amplification Strategy for Enhanced Sensitivity of Monitoring Low-Abundance Protein with Dual Nanotags. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4479-4485.	8.0	40
23	Nanogold-“polyaniline”-nanogold microspheres-functionalized molecular tags for sensitive electrochemical immunoassay of thyroid-stimulating hormone. <i>Analytica Chimica Acta</i> , 2012, 738, 76-84.	5.4	36
24	Fe ³⁺ doped ZnO-Ag photocatalyst for photoelectrochemical sensing platform of ultrasensitive Hg ²⁺ detection using exonuclease III-assisted target recycling and DNAzyme-catalyzed amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2531-2537.	7.8	36
25	Synthesis of patterned nanogold and mesoporous CoFe ₂ O ₄ nanoparticle assemblies and their application in clinical immunoassays. <i>Nanoscale</i> , 2011, 3, 2220.	5.6	35
26	Amplified electrochemical sensing of lead ion based on DNA-mediated self-assembly-catalyzed polymerization. <i>Biosensors and Bioelectronics</i> , 2015, 69, 230-234.	10.1	35
27	Sensitive detection of hydrogen peroxide in foodstuff using an organic-inorganic hybrid multilayer-functionalized graphene biosensing platform. <i>Mikrochimica Acta</i> , 2011, 174, 137-144.	5.0	33
28	Target-regulated proximity hybridization with three-way DNA junction for in situ enhanced electronic detection of marine biotoxin based on isothermal cycling signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015, 69, 241-248.	10.1	31
29	A simple and fast chromogenic reaction based on Ag ₃ PO ₄ /Ag nanocomposite for tumor marker detection. <i>Talanta</i> , 2017, 175, 229-234.	5.5	29
30	Competitive-type displacement reaction for direct potentiometric detection of low-abundance protein. <i>Biosensors and Bioelectronics</i> , 2014, 53, 465-471.	10.1	27
31	Equilibrium and dynamic surface tension properties of Gemini quaternary ammonium salt surfactants with hydroxyl. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 500, 230-238.	4.7	24
32	One-step electrochemical immunoassay of biomarker based on nanogold-functionalized graphene sensing platform. <i>Analytical Methods</i> , 2011, 3, 1615.	2.7	23
33	An omega-like DNA nanostructure utilized for small molecule introduction to stimulate formation of DNAzyme-“aptamer conjugates. <i>Chemical Communications</i> , 2014, 50, 1900-1902.	4.1	21
34	NiCoBP-doped carbon nanotube hybrid: A novel oxidase mimetic system for highly efficient electrochemical immunoassay. <i>Analytica Chimica Acta</i> , 2014, 851, 49-56.	5.4	19
35	Cleavage of Metal-Ion-Induced DNAzymes Released from Nanolabels for Highly Sensitive and Specific Immunoassay. <i>Bioconjugate Chemistry</i> , 2013, 24, 678-683.	3.6	17
36	Highly photosensitive colorimetric immunoassay for tumor marker detection based on Cu ²⁺ doped Ag-AgI nanocomposite. <i>Talanta</i> , 2017, 167, 111-117.	5.5	17

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37	Dye sensitized photoelectrochemical immunosensor for the tumor marker CEA by using a flower-like 3D architecture prepared from graphene oxide and MoS ₂ . <i>Mikrochimica Acta</i> , 2018, 185, 310.	5.0	17
38	MoS ₂ @C nanosphere as near infrared / pH dual response platform for chemical photothermal combination treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111054.	5.0	16
39	Cadmium ion-doped magnetic poly(styrene-acrylic acid) nanospheres for sensitive electrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2012, 35, 461-465.	10.1	15
40	Metal sulfide-functionalized DNA concatamer for ultrasensitive electronic monitoring of ATP using a programmable capillary-based aptasensor. <i>Biosensors and Bioelectronics</i> , 2014, 53, 390-398.	10.1	15
41	Displacement-type amperometric immunosensing platform for sensitive determination of tumour markers. <i>Biosensors and Bioelectronics</i> , 2016, 82, 112-118.	10.1	15
42	Cysteine-assisted photoelectrochemical immunoassay for the carcinoembryonic antigen by using an ITO electrode modified with C ₃ N ₄ -BiOCl semiconductor and CuO nanoparticles as antibody labels. <i>Mikrochimica Acta</i> , 2019, 186, 633.	5.0	15
43	Visible light enabled colorimetric tumor marker detection using ternary GO-C ₃ N ₄ -AgBr heterojunction nanophotocatalyst. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 376-382.	7.8	14
44	Bio-dye sensitized detection of Hg ²⁺ based GO-ZnO-CdS nanohybrids. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 495-501.	7.8	13
45	TiO ₂ /SnO ₂ -Au nanocomposite catalyzed photochromic reaction for colorimetric immunoassay of tumor marker. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 169, 75-81.	2.8	13
46	Polyaniline@Au organic-inorganic nanohybrids with thermometer readout for photothermal immunoassay of tumor marker. <i>Mikrochimica Acta</i> , 2021, 188, 63.	5.0	13
47	Biofunctionalized dendritic polyaniline nanofibers for sensitive electrochemical immunoassay of biomarkers. <i>Analyst</i> , 2012, 137, 1656.	3.5	12
48	Digital multimeter-based immunosensing strategy for sensitive monitoring of biomarker by coupling an external capacitor with an enzymatic catalysis. <i>Biosensors and Bioelectronics</i> , 2014, 55, 255-258.	10.1	12
49	Amplified photoelectrochemical immunoassay for the tumor marker carbohydrate antigen 724 based on dye sensitization of the semiconductor composite C ₃ N ₄ -MoS ₂ . <i>Mikrochimica Acta</i> , 2018, 185, 530.	5.0	9
50	N-TiO ₂ /g-C ₃ N ₄ /Up-conversion phosphor composites for the full-spectrum light-responsive deNO _x photocatalysis. <i>Journal of Materials Science</i> , 2018, 53, 7266-7278.	3.7	8
51	Resonance Rayleigh scattering detection of the epidermal growth factor receptor based on an aptamer-functionalized gold-nanoparticle probe. <i>Analytical Methods</i> , 2018, 10, 2910-2916.	2.7	8
52	Colorimetric and photothermal dual-mode immunoassay for tumour marker detection based on a Ag ₂ CO ₃ @Ag nanocomposite. <i>Process Biochemistry</i> , 2019, 87, 66-72.	3.7	8
53	Magnetic responsive <i>Thermomyces lanuginosus</i> lipase for biodiesel synthesis. <i>Materials Today Communications</i> , 2020, 24, 101197.	1.9	7
54	Resonance Rayleigh scattering assay for EGFR using antibody immobilized gold nanoparticles. <i>Luminescence</i> , 2018, 33, 1326-1332.	2.9	5

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55	Photochromic immunoassay for tumor marker detection based on ZnO/AgI nanophotocatalyst. <i>Mikrochimica Acta</i> , 2022, 189, 77.	5.0	4
56	Organic-inorganic hybrid photothermal nanomaterials for combined photothermal and chemotherapy therapy of tumors under the dual biological window. <i>Journal of Materials Science</i> , 2021, 56, 18219-18232.	3.7	3
57	Photocatalytic degradation of ofloxacin by ZnO/CsxWO3 composite synthesized by two-step method: A kinetic study. <i>Functional Materials Letters</i> , 2019, 12, 1950068.	1.2	2
58	The photothermal and adsorption properties of different surfactant-modified caesium tungsten bronze. <i>Materials Technology</i> , 2020, , 1-11.	3.0	2
59	Fabrication of N and F Modified La-TiO ₂ Nanoparticles and Their Enhanced Photocatalytic Response to Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 779-788.	0.9	2
60	A Colorimetric Immunoassay Based on g-C ₃ N ₄ @Fe ₃ O ₄ Nanocomposite for Detection of Carcinoembryonic Antigen. <i>Journal of Analytical Methods in Chemistry</i> , 2022, 2022, 1-7.	1.6	2
61	Molybdenum blue mediated photothermal immunoassay for CEA detection based on Ag ₄ P ₂ O ₇ @Ag nanocomposites. <i>Talanta</i> , 2022, 249, 123665.	5.5	2
62	PEG Modified Bubble-Like Carbon Spherical WO ₃ Using for In Vitro Chemotherapy Photothermal Synergistic Reverse Cancer Cells. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100062.	2.3	1