Chen-Zhong Li

List of Publications by Year
in descending order

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Version: 2024-02-01

78	2,461	185998	214527
papers	citations	28 h-index	47 g-index

82	82	82	3742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Internet of medical things (IoMT)-integrated biosensors for point-of-care testing of infectious diseases. Biosensors and Bioelectronics, 2021, 179, 113074.	5.3	203
2	Paper based point-of-care testing disc for multiplex whole cell bacteria analysis. Biosensors and Bioelectronics, 2011, 26, 4342-4348.	5.3	192
3	A sensitive electrochemical immunosensor for label-free detection of Zika-virus protein. Scientific Reports, 2018, 8, 9700.	1.6	148
4	Bright Yellow Fluorescent Carbon Dots as a Multifunctional Sensing Platform for the Label-Free Detection of Fluoroquinolones and Histidine. ACS Applied Materials & Interfaces, 2018, 10, 42915-42924.	4.0	121
5	2D metal carbides and nitrides (MXenes) for sensors and biosensors. Biosensors and Bioelectronics, 2022, 205, 113943.	5.3	112
6	Comparative Study of Single-, Few-, and Multilayered Graphene toward Enzyme Conjugation and Electrochemical Response. Journal of Physical Chemistry C, 2012, 116, 6556-6559.	1.5	93
7	A review of biosensor technologies for blood biomarkers toward monitoring cardiovascular diseases at the point-of-care. Biosensors and Bioelectronics, 2021, 171, 112621.	5.3	78
8	Electrochemical Sensors for Nitric Oxide Detection in Biological Applications. Electroanalysis, 2014, 26, 449-468.	1.5	65
9	Electrochemical Imaging of Dopamine Release from Three-Dimensional-Cultured PC12 Cells Using Large-Scale Integration-Based Amperometric Sensors. Analytical Chemistry, 2015, 87, 6364-6370.	3.2	63
10	Lectin approaches for glycoproteomics in FDA-approved cancer biomarkers. Expert Review of Proteomics, 2014, 11, 227-236.	1.3	58
11	An anthraquinone-based highly selective colorimetric and fluorometric sensor for sequential detection of Cu²⁺ and S^{2â˜’} with intracellular application. Journal of Materials Chemistry B, 2017, 5, 8957-8966.	2.9	52
12	Chitosan-modified graphene electrodes for DNA mutation analysis. Journal of Electroanalytical Chemistry, 2012, 686, 69-72.	1.9	50
13	Metal-Free One-Pot Synthesis of 3-Phosphinoylbenzofurans via Phospha-Michael Addition/Cyclization of H-Phosphine Oxides and in Situ Generated ortho-Quinone Methides. Organic Letters, 2018, 20, 477-480.	2.4	49
14	Smart-phone, paper-based fluorescent sensor for ultra-low inorganic phosphate detection in environmental samples. Microsystems and Nanoengineering, 2019, 5, 56.	3.4	49
15	Microfluidic Electrochemical Devices for Biosensing. Journal of Analysis and Testing, 2019, 3, 3-18.	2.5	48
16	Biomacromolecular logic gate, encoder/decoder and keypad lock based on DNA damage with electrochemiluminescence and electrochemical signals as outputs. Chemical Communications, 2015, 51, 13185-13188.	2.2	47
17	A reusable aptasensor of thrombin based on DNA machine employing resonance light scattering technique. Biosensors and Bioelectronics, 2017, 92, 259-265.	5.3	46
18	Detection of antibodies directed at M. hyorhinis p37 in the serum of men with newly diagnosed prostate cancer. BMC Cancer, 2011, 11, 233.	1.1	44

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19	Rapid in vivo measurement of Î²-amyloid reveals biphasic clearance kinetics in an Alzheimerâ€™s mouse model. Journal of Experimental Medicine, 2016, 213, 677-685.	4.2	44
20	Using a glucose meter to quantitatively detect disease biomarkers through a universal nanozyme integrated lateral fluidic sensing platform. Biosensors and Bioelectronics, 2019, 126, 690-696.	5.3	44
21	Sensitive detection of T4 polynucleotide kinase activity based on multifunctional magnetic probes and polymerization nicking reactions mediated hyperbranched rolling circle amplification. Biosensors and Bioelectronics, 2017, 91, 631-636.	5.3	42
22	In situ synthesized Auâ€“Ag nanocages on graphene oxide nanosheets: a highly active and recyclable catalyst for the reduction of 4-nitrophenol. New Journal of Chemistry, 2016, 40, 1685-1692.	1.4	37
23	Microelectromechanical System-Based Sensing Arrays for Comparative in Vitro Nanotoxicity Assessment at Single Cell and Small Cell-Population Using Electrochemical Impedance Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 5804-5812.	4.0	37
24	Impedance Based Nanotoxicity Assessment of Graphene Nanomaterials at the Cellular and Tissue Level. Analytical Letters, 2012, 45, 272-282.	1.0	33
25	Nutrient-deprived cancer cells preferentially use sialic acid to maintain cell surface glycosylation. Biomaterials, 2015, 70, 23-36.	5.7	32
26	Fluorometric determination of hydroquinone by using blue emitting N/S/P-codoped carbon dots. Mikrochimica Acta, 2018, 185, 550.	2.5	31
27	Surface Engineering of Graphene-Enzyme Nanocomposites for Miniaturized Biofuel Cell. IEEE Nanotechnology Magazine, 2011, 10, 59-62.	1.1	30
28	Azo dye decolorization by a halotolerant exoelectrogenic decolorizer isolated from marine sediment. Chemosphere, 2016, 158, 30-36.	4.2	30
29	Immuno Nanoparticles Integrated Electrical Control of Targeted Cancer Cell Development Using Whole Cell Bioelectronic Device. Theranostics, 2014, 4, 919-930.	4.6	28
30	Study of the effect of molecular structure and alkyl groups bound with tin(<scp>iv</scp>) on their cytotoxicity of organotin(<scp>iv</scp>) 2-phenyl-4-selenazole carboxylates. RSC Advances, 2015, 5, 102885-102894.	1.7	28
31	A novel fluorescein-based colorimetric probe for Cu²⁺ detection. RSC Advances, 2016, 6, 59677-59683.	1.7	27
32	Synthesis, structural characterization, in vitro cytotoxicities, and BSA interaction of di-organotin(IV) complexes derived from salicylaldehyde nicotinoyl hydrazone. Journal of Coordination Chemistry, 2016, 69, 2598-2609.	0.8	25
33	A direct assay of carboxyl-containing small molecules by SALDI-MS on a AgNP/rGO-based nanoporous hybrid film. Analyst, The, 2016, 141, 2712-2726.	1.7	25
34	Electrical field manipulation of cancer cell behavior monitored by whole cell biosensing device. Biomedical Microdevices, 2013, 15, 657-663.	1.4	21
35	In situ monitoring of cytoplasmic precursor and mature microRNA using gold nanoparticle and graphene oxide composite probes. Analytica Chimica Acta, 2018, 1021, 129-139.	2.6	21
36	Metallo Protoporphyrin Functionalized Microelectrodes for Electrocatalytic Sensing of Nitric Oxide. American Journal of Biomedical Sciences, 2009, 1, 274-282.	0.2	20

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37	Fluorometric sensing of pH values using green-emitting black phosphorus quantum dots. Mikrochimica Acta, 2019, 186, 640.	2.5	20
38	Recent Advances in Carbon Nanodots: Properties and Applications in Cancer Diagnosis and Treatment. Journal of Analysis and Testing, 2019, 3, 37-49.	2.5	20
39	Assessment of the Resistance to Uranium (VI) Exposure byArthrobactersp. Isolated from Hanford Site Soil. Geomicrobiology Journal, 2013, 30, 120-130.	1.0	18
40	Biosensing of DNA oxidative damage: a model of using glucose meter for non-glucose biomarker detection. International Journal of Nanomedicine, 2017, Volume 12, 979-987.	3.3	18
41	A novel highly selective near-infrared and naked-eye fluorescence probe for imaging peroxynitrite. Analytical Methods, 2019, 11, 1522-1529.	1.3	17
42	A facile DNA/RNA nanoflower for sensitive imaging of telomerase RNA in living cells based on â€œzipper lock-and-keyâ€•strategy. Biosensors and Bioelectronics, 2020, 147, 111788.	5.3	17
43	Î²â€Cyclodextrin and Its Derivatives Functionalized Magnetic Nanoparticles for Targeting Delivery of Curcumin and Cell Imaging. Chinese Journal of Chemistry, 2016, 34, 599-608.	2.6	16
44	A Label-Free and Sensitive Fluorescent Qualitative Assay for Bisphenol A Based on Rolling Circle Amplification/Exonuclease III-Combined Cascade Amplification. Nanomaterials, 2016, 6, 190.	1.9	15
45	Resonance light scattering aptasensor for urinary 8-hydroxy-2â€²-deoxyguanosine based on magnetic nanoparticles: a preliminary study of oxidative stress association with air pollution. Mikrochimica Acta, 2018, 185, 419.	2.5	15
46	Sensitive and selective detection of the p53 gene based on a triple-helix magnetic probe coupled to a fluorescent liposome hybridization assembly via rolling circle amplification. Analyst, The, 2017, 142, 3598-3604.	1.7	13
47	Sensitive detection of formamidopyrimidine-DNA glycosylase activity based on target-induced self-primed rolling circle amplification and magnetic nanoprobes. Analyst, The, 2018, 143, 1593-1598.	1.7	13
48	Redox properties of engineered ruthenium myoglobin. Bioelectrochemistry, 2009, 75, 182-188.	2.4	12
49	Sweat-Based in Vitro Diagnostics (IVD): From Sample Collection to Point-of-Care Testing (POCT). Journal of Analysis and Testing, 2019, 3, 80-88.	2.5	12
50	Lewis acid-catalyzed tandem cyclization of in situ generated o-quinone methides and arylsulfonyl hydrazides for a one-pot entry to 3-sulfonylbenzofurans. Organic Chemistry Frontiers, 2019, 6, 3929-3933.	2.3	12
51	Lectin staining and Western blot data showing differential sialylation of nutrient-deprived cancer cells to sialic acid supplementation. Data in Brief, 2015, 5, 481-488.	0.5	11
52	Indole-based pH probe with ratiometric fluorescence behavior for intracellular imaging. RSC Advances, 2015, 5, 99739-99744.	1.7	11
53	Bioelectronic properties of DNA, protein, cells and their applications for diagnostic medical devices. Biosensors and Bioelectronics, 2020, 167, 112441.	5.3	11
54	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. Biomaterials, 2014, 35, 9423-9437.	5.7	10

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55	Ag nanoparticles supported on nickel foam: a flexible 3D electrode for methanol electrocatalytic oxidation. RSC Advances, 2017, 7, 39539-39545.	1.7	10
56	A facile deoxyuridine/biotin-modified molecular beacon for simultaneous detection of proteins and nucleic acids via a label-free and background-eliminated fluorescence assay. Analyst, The, 2019, 144, 5504-5510.	1.7	9
57	Non-Invasive Plasmonic-Based Real-Time Characterization of Cardiac Drugs on Cardiomyocytes Functional Behavior. Analytical Chemistry, 2020, 92, 2244-2250.	3.2	9
58	A light-up â€œG-quadruplex nanostringâ€•for label-free and selective detection of miRNA via duplex-specific nuclease mediated tandem rolling circle amplification. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 32, 102339.	1.7	9
59	PC12 cell integrated biosensing neuron devices for evaluating neuronal exocytosis function upon silver nanoparticles exposure. Science China Chemistry, 2015, 58, 1600-1604.	4.2	8
60	Î²-Amyloid Biomarker Detection for Alzheimerâ€™s Disease. Journal of Analysis and Testing, 2017, 1, 1.	2.5	8
61	Special Topic: Point-of-Care Testing (POCT) and In Vitro Diagnostics (IVDs). Journal of Analysis and Testing, 2019, 3, 1-2.	2.5	8
62	The peak effect of the photocurrent on the concentration of electron mediator (para-benzoquinone) in thylakoids. Electrochimica Acta, 2013, 113, 603-608.	2.6	7
63	Visualizing the down-regulation of hTERT mRNA expression using gold-nanoflare probes and verifying the correlation with cancer cell apoptosis. Analyst, The, 2019, 144, 2994-3004.	1.7	7
64	Lighting up ATP in cells and tissues using a simple aptamer-based fluorescent probe. Mikrochimica Acta, 2021, 188, 352.	2.5	7
65	Wearable Biomedical Devices: State of the Art, Challenges, and Future Perspectives. Electrochemical Society Interface, 2019, 28, 71-74.	0.3	5
66	Cancer cell death induced by nanomagnetolectin. European Journal of Cell Biology, 2017, 96, 600-611.	1.6	5
67	Functional analysis of synthetic DELLA domain peptides and bioactive gibberellin assay using surface plasmon resonance technology. Talanta, 2015, 144, 502-509.	2.9	4
68	Assay of miRNA in cell samples using enhanced resonance light scattering technique based on self aggregation of magnetic nanoparticles. Nanomedicine, 2018, 13, 2301-2310.	1.7	4
69	Electrical Immuno Nanosensor for Breast Cancer Biomarker Assay. , 2009, , .		3
70	Deposition Strategies for Osmium/Enzyme Films on Gold Electrode Based Sensing Arrays. Electroanalysis, 2013, 25, 341-344.	1.5	3
71	Electrochemical Lateral Flow Paper Strip for Oxidative-Stress Induced DNA Damage Assessment. Methods in Molecular Biology, 2017, 1572, 23-39.	0.4	3
72	Whole cell analysis ranging from intercellular assay to organ on a chip. TrAC - Trends in Analytical Chemistry, 2019, 117, 157-165.	5.8	3

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73	Label-free amplified fluorescence detection of DNA biomarkers based on KFP polymerase-driven double strand displacement reactions and magnetic nanoprobes. Analytical Methods, 2020, 12, 3092-3097.	1.3	3
74	Sensitive detection of p53 DNA based on spatially confined fluorescence resonance energy transfer and multivalent assembly of branched DNA. Analytical Methods, 2021, 13, 4314-4319.	1.3	3
75	Genome-wide functional analysis on the molecular mechanism of specifically biosynthesized fluorescence Eu complex. Oncotarget, 2017, 8, 72082-72095.	0.8	3
76	Paper-Based Fluidic Sensing Platforms for Î²-Adrenergic Agonist Residue Point-of-Care Testing. Biosensors, 2022, 12, 518.	2.3	2
77	Near-infrared photoluminescence enhancement of N-acetyl-<scp>l</scp>-cysteine (NAC)-protected gold nanoparticles via fluorescence resonance energy transfer from NAC-stabilized CdTe quantum dots. RSC Advances, 2016, 6, 88042-88049.	1.7	1
78	SPR immunosensor for the detection of Staphylococcus aureus. , 2016, , .		1