

# Chen-Zhong Li

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,461  
citations

185998

28  
h-index

214527

47  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3742  
citing authors

#	ARTICLE	IF	CITATIONS
1	2D metal carbides and nitrides (MXenes) for sensors and biosensors. <i>Biosensors and Bioelectronics</i> , 2022, 205, 113943.	5.3	112
2	Paper-Based Fluidic Sensing Platforms for Î²-Adrenergic Agonist Residue Point-of-Care Testing. <i>Biosensors</i> , 2022, 12, 518.	2.3	2
3	A review of biosensor technologies for blood biomarkers toward monitoring cardiovascular diseases at the point-of-care. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112621.	5.3	78
4	A light-up â€œG-quadruplex nanostringâ€ for label-free and selective detection of miRNA via duplex-specific nuclease mediated tandem rolling circle amplification. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 32, 102339.	1.7	9
5	Internet of medical things (IoMT)-integrated biosensors for point-of-care testing of infectious diseases. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113074.	5.3	203
6	Lighting up ATP in cells and tissues using a simple aptamer-based fluorescent probe. <i>Mikrochimica Acta</i> , 2021, 188, 352.	2.5	7
7	Sensitive detection of p53 DNA based on spatially confined fluorescence resonance energy transfer and multivalent assembly of branched DNA. <i>Analytical Methods</i> , 2021, 13, 4314-4319.	1.3	3
8	A facile DNA/RNA nanoflower for sensitive imaging of telomerase RNA in living cells based on â€œzipper lock-and-keyâ€ strategy. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111788.	5.3	17
9	Non-Invasive Plasmonic-Based Real-Time Characterization of Cardiac Drugs on Cardiomyocytes Functional Behavior. <i>Analytical Chemistry</i> , 2020, 92, 2244-2250.	3.2	9
10	Bioelectronic properties of DNA, protein, cells and their applications for diagnostic medical devices. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112441.	5.3	11
11	Label-free amplified fluorescence detection of DNA biomarkers based on KFP polymerase-driven double strand displacement reactions and magnetic nanoprobe. <i>Analytical Methods</i> , 2020, 12, 3092-3097.	1.3	3
12	A facile deoxyuridine/biotin-modified molecular beacon for simultaneous detection of proteins and nucleic acids <i>via</i> a label-free and background-eliminated fluorescence assay. <i>Analyst, The</i> , 2019, 144, 5504-5510.	1.7	9
13	Smart-phone, paper-based fluorescent sensor for ultra-low inorganic phosphate detection in environmental samples. <i>Microsystems and Nanoengineering</i> , 2019, 5, 56.	3.4	49
14	Fluorometric sensing of pH values using green-emitting black phosphorus quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 640.	2.5	20
15	Whole cell analysis ranging from intercellular assay to organ on a chip. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 117, 157-165.	5.8	3
16	Visualizing the down-regulation of hTERT mRNA expression using gold-nanoflare probes and verifying the correlation with cancer cell apoptosis. <i>Analyst, The</i> , 2019, 144, 2994-3004.	1.7	7
17	Sweat-Based in Vitro Diagnostics (IVD): From Sample Collection to Point-of-Care Testing (POCT). <i>Journal of Analysis and Testing</i> , 2019, 3, 80-88.	2.5	12
18	Special Topic: Point-of-Care Testing (POCT) and In Vitro Diagnostics (IVDs). <i>Journal of Analysis and Testing</i> , 2019, 3, 1-2.	2.5	8

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19	Microfluidic Electrochemical Devices for Biosensing. <i>Journal of Analysis and Testing</i> , 2019, 3, 3-18.	2.5	48
20	Recent Advances in Carbon Nanodots: Properties and Applications in Cancer Diagnosis and Treatment. <i>Journal of Analysis and Testing</i> , 2019, 3, 37-49.	2.5	20
21	A novel highly selective near-infrared and naked-eye fluorescence probe for imaging peroxynitrite. <i>Analytical Methods</i> , 2019, 11, 1522-1529.	1.3	17
22	Lewis acid-catalyzed tandem cyclization of <i>in situ</i> generated <i>ortho</i> -quinone methides and arylsulfonyl hydrazides for a one-pot entry to 3-sulfonylbenzofurans. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3929-3933.	2.3	12
23	Wearable Biomedical Devices: State of the Art, Challenges, and Future Perspectives. <i>Electrochemical Society Interface</i> , 2019, 28, 71-74.	0.3	5
24	Using a glucose meter to quantitatively detect disease biomarkers through a universal nanozyme integrated lateral fluidic sensing platform. <i>Biosensors and Bioelectronics</i> , 2019, 126, 690-696.	5.3	44
25	Sensitive detection of formamidopyrimidine-DNA glycosylase activity based on target-induced self-primed rolling circle amplification and magnetic nanoprobe. <i>Analyst</i> , 2018, 143, 1593-1598.	1.7	13
26	Metal-Free One-Pot Synthesis of 3-Phosphinoylbenzofurans via Phospha-Michael Addition/Cyclization of H-Phosphine Oxides and <i>in situ</i> Generated <i>ortho</i> -Quinone Methides. <i>Organic Letters</i> , 2018, 20, 477-480.	2.4	49
27	<i>In situ</i> monitoring of cytoplasmic precursor and mature microRNA using gold nanoparticle and graphene oxide composite probes. <i>Analytica Chimica Acta</i> , 2018, 1021, 129-139.	2.6	21
28	Bright Yellow Fluorescent Carbon Dots as a Multifunctional Sensing Platform for the Label-Free Detection of Fluoroquinolones and Histidine. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42915-42924.	4.0	121
29	Fluorometric determination of hydroquinone by using blue emitting N/S/P-codoped carbon dots. <i>Mikrochimica Acta</i> , 2018, 185, 550.	2.5	31
30	Assay of miRNA in cell samples using enhanced resonance light scattering technique based on self aggregation of magnetic nanoparticles. <i>Nanomedicine</i> , 2018, 13, 2301-2310.	1.7	4
31	A sensitive electrochemical immunosensor for label-free detection of Zika-virus protein. <i>Scientific Reports</i> , 2018, 8, 9700.	1.6	148
32	Resonance light scattering aptasensor for urinary 8-hydroxy-2'-deoxyguanosine based on magnetic nanoparticles: a preliminary study of oxidative stress association with air pollution. <i>Mikrochimica Acta</i> , 2018, 185, 419.	2.5	15
33	Sensitive detection of T4 polynucleotide kinase activity based on multifunctional magnetic probes and polymerization nicking reactions mediated hyperbranched rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2017, 91, 631-636.	5.3	42
34	A reusable aptasensor of thrombin based on DNA machine employing resonance light scattering technique. <i>Biosensors and Bioelectronics</i> , 2017, 92, 259-265.	5.3	46
35	Electrochemical Lateral Flow Paper Strip for Oxidative-Stress Induced DNA Damage Assessment. <i>Methods in Molecular Biology</i> , 2017, 1572, 23-39.	0.4	3
36	An anthraquinone-based highly selective colorimetric and fluorometric sensor for sequential detection of Cu <sup>2+</sup> and S <sup>2-</sup> with intracellular application. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8957-8966.	2.9	52

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37	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. <i>Analyst</i> , 2017, 142, 3598-3604.	1.7	13
38	Ag nanoparticles supported on nickel foam: a flexible 3D electrode for methanol electrocatalytic oxidation. <i>RSC Advances</i> , 2017, 7, 39539-39545.	1.7	10
39	$\beta$ -Amyloid Biomarker Detection for Alzheimer's Disease. <i>Journal of Analysis and Testing</i> , 2017, 1, 1.	2.5	8
40	Biosensing of DNA oxidative damage: a model of using glucose meter for non-glucose biomarker detection. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 979-987.	3.3	18
41	Cancer cell death induced by nanomagnetoelectin. <i>European Journal of Cell Biology</i> , 2017, 96, 600-611.	1.6	5
42	Genome-wide functional analysis on the molecular mechanism of specifically biosynthesized fluorescence Eu complex. <i>Oncotarget</i> , 2017, 8, 72082-72095.	0.8	3
43	A Label-Free and Sensitive Fluorescent Qualitative Assay for Bisphenol A Based on Rolling Circle Amplification/Exonuclease III-Combined Cascade Amplification. <i>Nanomaterials</i> , 2016, 6, 190.	1.9	15
44	Azo dye decolorization by a halotolerant exoelectrogenic decolorizer isolated from marine sediment. <i>Chemosphere</i> , 2016, 158, 30-36.	4.2	30
45	Rapid in vivo measurement of $\beta$ -amyloid reveals biphasic clearance kinetics in an Alzheimer's mouse model. <i>Journal of Experimental Medicine</i> , 2016, 213, 677-685.	4.2	44
46	Synthesis, structural characterization, <i>in vitro</i> cytotoxicities, and BSA interaction of di-organotin(IV) complexes derived from salicylaldehyde nicotinoyl hydrazone. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2598-2609.	0.8	25
47	Near-infrared photoluminescence enhancement of N-acetyl-L-cysteine (NAC)-protected gold nanoparticles via fluorescence resonance energy transfer from NAC-stabilized CdTe quantum dots. <i>RSC Advances</i> , 2016, 6, 88042-88049.	1.7	1
48	$\beta$ -Cyclodextrin and Its Derivatives Functionalized Magnetic Nanoparticles for Targeting Delivery of Curcumin and Cell Imaging. <i>Chinese Journal of Chemistry</i> , 2016, 34, 599-608.	2.6	16
49	SPR immunosensor for the detection of <i>Staphylococcus aureus</i> . , 2016, , .		1
50	A novel fluorescein-based colorimetric probe for Cu <sup>2+</sup> detection. <i>RSC Advances</i> , 2016, 6, 59677-59683.	1.7	27
51	In situ synthesized Au@Ag nanocages on graphene oxide nanosheets: a highly active and recyclable catalyst for the reduction of 4-nitrophenol. <i>New Journal of Chemistry</i> , 2016, 40, 1685-1692.	1.4	37
52	Microelectromechanical System-Based Sensing Arrays for Comparative <i>In Vitro</i> Nanotoxicity Assessment at Single Cell and Small Cell-Population Using Electrochemical Impedance Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5804-5812.	4.0	37
53	A direct assay of carboxyl-containing small molecules by SALDI-MS on a AgNP/rGO-based nanoporous hybrid film. <i>Analyst</i> , 2016, 141, 2712-2726.	1.7	25
54	Electrochemical Imaging of Dopamine Release from Three-Dimensional-Cultured PC12 Cells Using Large-Scale Integration-Based Amperometric Sensors. <i>Analytical Chemistry</i> , 2015, 87, 6364-6370.	3.2	63

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55	Biomacromolecular logic gate, encoder/decoder and keypad lock based on DNA damage with electrochemiluminescence and electrochemical signals as outputs. <i>Chemical Communications</i> , 2015, 51, 13185-13188.	2.2	47
56	PC12 cell integrated biosensing neuron devices for evaluating neuronal exocytosis function upon silver nanoparticles exposure. <i>Science China Chemistry</i> , 2015, 58, 1600-1604.	4.2	8
57	Lectin staining and Western blot data showing differential sialylation of nutrient-deprived cancer cells to sialic acid supplementation. <i>Data in Brief</i> , 2015, 5, 481-488.	0.5	11
58	Functional analysis of synthetic DELLA domain peptides and bioactive gibberellin assay using surface plasmon resonance technology. <i>Talanta</i> , 2015, 144, 502-509.	2.9	4
59	Nutrient-deprived cancer cells preferentially use sialic acid to maintain cell surface glycosylation. <i>Biomaterials</i> , 2015, 70, 23-36.	5.7	32
60	Study of the effect of molecular structure and alkyl groups bound with tin( <i>iv</i> ) on their cytotoxicity of organotin( <i>iv</i> ) 2-phenyl-4-selenazole carboxylates. <i>RSC Advances</i> , 2015, 5, 102885-102894.	1.7	28
61	Indole-based pH probe with ratiometric fluorescence behavior for intracellular imaging. <i>RSC Advances</i> , 2015, 5, 99739-99744.	1.7	11
62	Immuno Nanoparticles Integrated Electrical Control of Targeted Cancer Cell Development Using Whole Cell Bioelectronic Device. <i>Theranostics</i> , 2014, 4, 919-930.	4.6	28
63	Electrochemical Sensors for Nitric Oxide Detection in Biological Applications. <i>Electroanalysis</i> , 2014, 26, 449-468.	1.5	65
64	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. <i>Biomaterials</i> , 2014, 35, 9423-9437.	5.7	10
65	Lectin approaches for glycoproteomics in FDA-approved cancer biomarkers. <i>Expert Review of Proteomics</i> , 2014, 11, 227-236.	1.3	58
66	Electrical field manipulation of cancer cell behavior monitored by whole cell biosensing device. <i>Biomedical Microdevices</i> , 2013, 15, 657-663.	1.4	21
67	Deposition Strategies for Osmium/Enzyme Films on Gold Electrode Based Sensing Arrays. <i>Electroanalysis</i> , 2013, 25, 341-344.	1.5	3
68	Assessment of the Resistance to Uranium (VI) Exposure by <i>Arthrobacter</i> sp. Isolated from Hanford Site Soil. <i>Geomicrobiology Journal</i> , 2013, 30, 120-130.	1.0	18
69	The peak effect of the photocurrent on the concentration of electron mediator (para-benzoquinone) in thylakoids. <i>Electrochimica Acta</i> , 2013, 113, 603-608.	2.6	7
70	Impedance Based Nanotoxicity Assessment of Graphene Nanomaterials at the Cellular and Tissue Level. <i>Analytical Letters</i> , 2012, 45, 272-282.	1.0	33
71	Chitosan-modified graphene electrodes for DNA mutation analysis. <i>Journal of Electroanalytical Chemistry</i> , 2012, 686, 69-72.	1.9	50
72	Comparative Study of Single-, Few-, and Multilayered Graphene toward Enzyme Conjugation and Electrochemical Response. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6556-6559.	1.5	93

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73	Surface Engineering of Graphene-Enzyme Nanocomposites for Miniaturized Biofuel Cell. IEEE Nanotechnology Magazine, 2011, 10, 59-62.	1.1	30
74	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
75	Paper based point-of-care testing disc for multiplex whole cell bacteria analysis. Biosensors and Bioelectronics, 2011, 26, 4342-4348.	5.3	192
76	Metallo Porphyrin Functionalized Microelectrodes for Electrocatalytic Sensing of Nitric Oxide. American Journal of Biomedical Sciences, 2009, 1, 274-282.	0.2	20
77	Redox properties of engineered ruthenium myoglobin. Bioelectrochemistry, 2009, 75, 182-188.	2.4	12
78	Electrical Immuno Nanosensor for Breast Cancer Biomarker Assay. , 2009, , .		3