

Jing-Hua Chen

List of Publications by Year in descending order

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99
papers

3,854
citations

126907

33
h-index

138484

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103
all docs

103
docs citations

103
times ranked

4456
citing authors

#	ARTICLE	IF	CITATIONS
1	A visible and colorimetric aptasensor based on DNA-capped single-walled carbon nanotubes for detection of exosomes. <i>Biosensors and Bioelectronics</i> , 2017, 92, 8-15.	10.1	228
2	A Ratiometric Fluorescent Bioprobe Based on Carbon Dots and Acridone Derivate for Signal Amplification Detection Exosomal microRNA. <i>Analytical Chemistry</i> , 2018, 90, 8969-8976.	6.5	153
3	A ratiometric electrochemical biosensor for the exosomal microRNAs detection based on bipedal DNA walkers propelled by locked nucleic acid modified toehold mediate strand displacement reaction. <i>Biosensors and Bioelectronics</i> , 2018, 102, 33-40.	10.1	147
4	A paper-supported aptasensor based on upconversion luminescence resonance energy transfer for the accessible determination of exosomes. <i>Biosensors and Bioelectronics</i> , 2018, 102, 582-588.	10.1	123
5	A fluorescent aptasensor based on DNA-scaffolded silver-nanocluster for ochratoxin A detection. <i>Biosensors and Bioelectronics</i> , 2014, 57, 226-231.	10.1	122
6	Enzyme-Free and Label-Free Ultrasensitive Electrochemical Detection of Human Immunodeficiency Virus DNA in Biological Samples Based on Long-Range Self-Assembled DNA Nanostructures. <i>Analytical Chemistry</i> , 2012, 84, 8277-8283.	6.5	120
7	An ultrasensitive electrochemical biosensor for detection of DNA species related to oral cancer based on nuclease-assisted target recycling and amplification of DNAzyme. <i>Chemical Communications</i> , 2011, 47, 8004.	4.1	110
8	Enzymatic Redesigning of Biologically Active Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2005, 280, 42817-42825.	3.4	109
9	Ultrasensitive electrochemical detection of cancer-associated circulating microRNA in serum samples based on DNA concatamers. <i>Biosensors and Bioelectronics</i> , 2013, 50, 132-136.	10.1	108
10	Colorimetric determination of sarcosine in urine samples of prostatic carcinoma by mimic enzyme palladium nanoparticles. <i>Analytica Chimica Acta</i> , 2014, 825, 63-68.	5.4	106
11	Using an Enzymatic Combinatorial Approach to Identify Anticoagulant Heparan Sulfate Structures. <i>Chemistry and Biology</i> , 2007, 14, 986-993.	6.0	98
12	Electrochemical Biosensor for Detection of BCR/ABL Fusion Gene Using Locked Nucleic Acids on 4-Aminobenzenesulfonic Acid-Modified Glassy Carbon Electrode. <i>Analytical Chemistry</i> , 2008, 80, 8028-8034.	6.5	98
13	A signal-on fluorescent aptasensor based on Tb ³⁺ and structure-switching aptamer for label-free detection of Ochratoxin A in wheat. <i>Biosensors and Bioelectronics</i> , 2013, 41, 704-709.	10.1	91
14	A signal amplification electrochemical aptasensor for the detection of breast cancer cell via free-running DNA walker. <i>Biosensors and Bioelectronics</i> , 2016, 85, 184-189.	10.1	80
15	A theoretical study on superalkali-doped nanocages: unique inorganic electrides with high stability, deep-ultraviolet transparency, and a considerable nonlinear optical response. <i>Dalton Transactions</i> , 2016, 45, 7500-7509.	3.3	78
16	A signal-on electrochemiluminescence aptamer biosensor for the detection of ultratrace thrombin based on junction-probe. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2645-2650.	10.1	76
17	An ultrasensitive signal-on electrochemical aptasensor via target-induced conjunction of split aptamer fragments. <i>Biosensors and Bioelectronics</i> , 2010, 25, 996-1000.	10.1	74
18	A ratiometric electrochemical DNA biosensor for detection of exosomal MicroRNA. <i>Talanta</i> , 2020, 207, 120298.	5.5	74

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19	An immobilization-free electrochemical impedance biosensor based on duplex-specific nuclease assisted target recycling for amplified detection of microRNA. <i>Biosensors and Bioelectronics</i> , 2016, 75, 452-457.	10.1	73
20	Electrochemical aptasensor for the detection of vascular endothelial growth factor (VEGF) based on DNA-templated Ag/Pt bimetallic nanoclusters. <i>Chinese Chemical Letters</i> , 2016, 27, 920-926.	9.0	69
21	An ultrahighly sensitive and selective electrochemical DNA sensor via nicking endonuclease assisted current change amplification. <i>Chemical Communications</i> , 2010, 46, 5939.	4.1	57
22	Electrocatalytic Oxidation and Determination of Dopamine in the Presence of Ascorbic Acid and Uric Acid at a Poly (4-(2-Pyridylazo)-Resorcinol) Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2007, 19, 612-615.	2.9	56
23	An ultrasensitive label-free electrochemical biosensor for microRNA-21 detection based on a 2'-O-methyl modified DNAzyme and duplex-specific nuclease assisted target recycling. <i>Chemical Communications</i> , 2014, 50, 12375-12377.	4.1	54
24	Carbon nanotubes functionalized electrospun nanofibers formed 3D electrode enables highly strong ECL of peroxydisulfate and its application in immunoassay. <i>Biosensors and Bioelectronics</i> , 2014, 61, 575-578.	10.1	44
25	A nature-inspired colorimetric and fluorescent dual-modal biosensor for exosomes detection. <i>Talanta</i> , 2020, 214, 120851.	5.5	44
26	Biosynthesis of 3-O-sulfated heparan sulfate: unique substrate specificity of heparan sulfate 3-O-sulfotransferase isoform 5. <i>Glycobiology</i> , 2003, 13, 785-794.	2.5	42
27	Direct detection of circulating microRNAs in serum of cancer patients by coupling protein-facilitated specific enrichment and rolling circle amplification. <i>Chemical Communications</i> , 2014, 50, 3292-3295.	4.1	41
28	Label free electrochemical sensor for Pb ²⁺ based on graphene oxide mediated deposition of silver nanoparticles. <i>Electrochimica Acta</i> , 2016, 187, 286-292.	5.2	40
29	Colorimetric detection of exosomal microRNA through switching the visible-light-induced oxidase mimic activity of acridone derivate. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112834.	10.1	40
30	Stability and Nonlinear Optical Response of Alkalides that Contain a Completely Encapsulated Superalkali Cluster. <i>ChemPhysChem</i> , 2016, 17, 2672-2678.	2.1	39
31	Upconversion luminescence assay for the detection of the vascular endothelial growth factor, a biomarker for breast cancer. <i>Mikrochimica Acta</i> , 2016, 183, 3201-3208.	5.0	38
32	Hybridization biosensor using 2-nitroacridone as electrochemical indicator for detection of short DNA species of Chronic Myelogenous Leukemia. <i>Biosensors and Bioelectronics</i> , 2008, 24, 349-355.	10.1	35
33	A novel Tb ³⁺ -promoted G-quadruplex-hemin DNAzyme for the development of label-free visual biosensors. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4053-4057.	10.1	35
34	Electrochemical bisphenol A sensor based on carbon nanohorns. <i>Analytical Methods</i> , 2013, 5, 3328.	2.7	33
35	A novel colorimetric sensor for Hg ²⁺ based on hybridization chain reaction and silver nanowire amplification. <i>Chemical Communications</i> , 2015, 51, 15043-15046.	4.1	33
36	Electrochemical aptasensor based on multidirectional hybridization chain reaction for detection of tumorous exosomes. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129471.	7.8	33

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37	Hyaluronic acid and polyethylenimine self-assembled polyion complexes as pH-sensitive drug carrier for cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 81-87.	5.0	31
38	Numerous long single-stranded DNAs produced by dual amplification reactions for electrochemical detection of exosomal microRNAs. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112555.	10.1	31
39	An aptasensor based on upconversion nanoparticles as LRET donors for the detection of exosomes. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126900.	7.8	30
40	A tyrosinase-induced fluorescence immunoassay for detection of tau protein using dopamine-functionalized CuInS ₂ /ZnS quantum dots. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5277-5285.	3.7	30
41	Electrochemical genotyping and detection of single-nucleotide polymorphisms based on junction-probe containing 2'-deoxyinosine. <i>Chemical Communications</i> , 2010, 46, 6986.	4.1	29
42	A novel sensitive colorimetric sensor for Cu ²⁺ based on in situ formation of fluorescent quantum dots with photocatalytic activity. <i>Biosensors and Bioelectronics</i> , 2017, 89, 866-870.	10.1	29
43	Aloe derived nanovesicle as a functional carrier for indocyanine green encapsulation and phototherapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 439.	9.1	29
44	A strategy for development of electrochemical DNA biosensor based on site-specific DNA cleavage of restriction endonuclease. <i>Biosensors and Bioelectronics</i> , 2010, 26, 144-148.	10.1	28
45	Enzymatic Extraction of Bioactive and Self-Assembling Wool Keratin for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2020, 20, e2000073.	4.1	27
46	Coinage metalides: a new class of excess electron compounds with high stability and large nonlinear optical responses. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8476-8484.	2.8	26
47	Comparison of Curative Effect of Human Umbilical Cord-Derived Mesenchymal Stem Cells and Their Small Extracellular Vesicles in Treating Osteoarthritis. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 8185-8202.	6.7	26
48	A Sandwich-Type Electrochemical Biosensor for Detection of BCR/ABL Fusion Gene Using Locked Nucleic Acids on Gold Electrode. <i>Electroanalysis</i> , 2009, 21, 1159-1166.	2.9	25
49	Label-free fluorescent biosensor based on the target recycling and Thioflavin T-induced quadruplex formation for short DNA species of c-erbB-2 detection. <i>Analytica Chimica Acta</i> , 2014, 817, 42-47.	5.4	25
50	Quasi-Chalcogen Characteristics of Al ₁₂ Be: A New Member of the Three-Dimensional Periodic Table. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2464-2471.	3.1	25
51	A signal-on fluorescent aptasensor based on single-stranded DNA-sensitized luminescence of terbium (III) for label-free detection of breast cancer cells. <i>Talanta</i> , 2015, 138, 225-230.	5.5	23
52	An electrochemical microRNA biosensor based on protein p19 combining an acridone derivate as indicator and DNA concatamers for signal amplification. <i>Electrochemistry Communications</i> , 2015, 60, 185-189.	4.7	23
53	A DNA electrochemical biosensor based on triplex DNA-templated Ag/Pt nanoclusters for the detection of single-nucleotide variant. <i>Talanta</i> , 2020, 207, 120257.	5.5	23
54	Enzyme-free and label-free fluorescence sensor for the detection of liver cancer related short gene. <i>Biosensors and Bioelectronics</i> , 2015, 66, 399-404.	10.1	22

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55	A photoelectrochemical biosensor for determination of DNA based on flower rod-like zinc oxide heterostructures. <i>Mikrochimica Acta</i> , 2017, 184, 2541-2549.	5.0	22
56	On the Possibility of Using the Jellium Model as a Guide To Design Bimetallic Superalkali Cations. <i>Chemistry - A European Journal</i> , 2019, 25, 4358-4366.	3.3	21
57	An ultrasensitive fluorescence aptasensor for carcino-embryonic antigen detection based on fluorescence resonance energy transfer from upconversion phosphors to Au nanoparticles. <i>Analytical Methods</i> , 2018, 10, 1552-1559.	2.7	20
58	An electrochemical biosensor based on DNA "nanobridge" for amplified detection of exosomal microRNAs. <i>Chinese Chemical Letters</i> , 2021, 32, 3474-3478.	9.0	20
59	Electrochemical Studies of the Interaction of 2-Nitroacridone with DNA and Determination of DNA. <i>Electroanalysis</i> , 2007, 19, 1765-1772.	2.9	19
60	Heparosan based negatively charged nanocarrier for rapid intracellular drug delivery. <i>International Journal of Pharmaceutics</i> , 2014, 473, 493-500.	5.2	19
61	Decorating Zintl polyanions with alkali metal cations: A novel strategy to design superatom cations with low electron affinity. <i>Journal of Alloys and Compounds</i> , 2018, 740, 400-405.	5.5	19
62	A dual-modal aptasensor based on a multifunctional acridone derivate for exosomes detection. <i>Analytica Chimica Acta</i> , 2022, 1191, 339279.	5.4	19
63	Characterization of the structure of antithrombin-binding heparan sulfate generated by heparan sulfate 3-O-sulfotransferase 5. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1725, 190-200.	2.4	18
64	Electrochemical study of bergenin on a poly(4-(2-pyridylazo)-resorcinol) modified glassy carbon electrode and its determination in tablets and urine. <i>Talanta</i> , 2007, 72, 1805-1810.	5.5	18
65	A colorimetric sensor for acid phosphatase activity detection based on acridone derivative as visible-light-stimulated oxidase mimic. <i>Analytica Chimica Acta</i> , 2021, 1155, 338357.	5.4	18
66	On the potential of all-boron fullerene B40 as a carrier for anti-cancer drug nitrosourea. <i>Journal of Molecular Liquids</i> , 2021, 342, 117533.	4.9	18
67	Combination of lyophilized adipose-derived stem cell concentrated conditioned medium and polysaccharide hydrogel in the inhibition of hypertrophic scarring. <i>Stem Cell Research and Therapy</i> , 2021, 12, 23.	5.5	18
68	Label-free microRNA detection based on terbium and duplex-specific nuclease assisted target recycling. <i>Analyst</i> , 2015, 140, 5082-5089.	3.5	17
69	Theoretical characterization of a series of N5-based aromatic hyperhalogen anions. <i>Dalton Transactions</i> , 2015, 44, 19901-19908.	3.3	17
70	A universal locked nucleic acid-integrated X-shaped DNA probe design for amplified fluorescence detection of single-nucleotide variant. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 123-128.	7.8	17
71	Label-free fluorescent and electrochemical biosensors based on defective G-quadruplexes. <i>Biosensors and Bioelectronics</i> , 2018, 118, 1-8.	10.1	16
72	Construction of serum resistant micelles based on heparosan for targeted cancer therapy. <i>Carbohydrate Polymers</i> , 2014, 110, 135-141.	10.2	15

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73	Theoretical Study of the Substituent Effects on the Nonlinear Optical Properties of a Room-Temperature Stable Organic Electride. <i>ChemPhysChem</i> , 2016, 17, 3907-3915.	2.1	15
74	ZnO flower-rod/g-C ₃ N ₄ -gold nanoparticle-based photoelectrochemical aptasensor for detection of carcinoembryonic antigen. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6529-6538.	3.7	14
75	Acridone Derivate Simultaneously Featuring Multiple Functions and Its Applications. <i>Analytical Chemistry</i> , 2019, 91, 8406-8414.	6.5	14
76	DFT study on the adsorption of 5-fluorouracil on B ₄₀ , B ₃₉ M, and M@B ₄₀ (M = Mg, Al, Si, Mn, Cu, Zn). <i>RSC Advances</i> , 2021, 11, 39508-39517.	3.6	14
77	Dual-mode turn-on ratiometric fluorescence sensor based on carbon dots and CuInS ₂ /ZnS quantum dots for detection of chlorotetracycline. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120851.	3.9	14
78	A DFT study on the adsorption behavior of antiviral Favipiravir drug on B N (n = 12, 16, 20, and 24) nanocages: The size effect. <i>Journal of Molecular Liquids</i> , 2022, 360, 119388.	4.9	14
79	Fabrication of doxorubicin and heparin co-loaded microcapsules for synergistic cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 554-560.	7.5	12
80	Ultrasensitive electrochemiluminescence biosensor based on locked nucleic acid modified toehold-mediated strand displacement reaction and junction-probe. <i>Analyst</i> , 2014, 139, 6109-6112.	3.5	12
81	Can Fluorinated Molecular Cages Be Utilized as Building Blocks of Hyperhalogens?. <i>ChemPhysChem</i> , 2016, 17, 1468-1474.	2.1	12
82	A novel label-free and sensitive electrochemical biosensor for Hg ²⁺ based on ligase-mediated formation of DNAzyme. <i>Talanta</i> , 2016, 161, 138-142.	5.5	11
83	A Fluorescence Inner-Filter Effect Based Sensing Platform for Turn-On Detection of Glutathione in Human Serum. <i>Sensors</i> , 2019, 19, 228.	3.8	10
84	A novel micro-fluidic biosensor for the rapid and sequence-specific detection of DNA with electrophoretic driving mode and laser-induced fluorescence detector. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 145-152.	2.2	9
85	A upconversion luminescence biosensor based on dual-signal amplification for the detection of short DNA species of c-erbB-2 oncogene. <i>Scientific Reports</i> , 2016, 6, 24813.	3.3	9
86	A photoluminescent biosensor based on long-range self-assembled DNA cascades and upconversion nanoparticles for the detection of breast cancer-associated circulating microRNA in serum samples. <i>RSC Advances</i> , 2015, 5, 18008-18012.	3.6	8
87	Sensitive, Highly Stable, and Anti-Fouling Electrode with Hexanethiol and Poly-A Modification for Exosomal microRNA Detection. <i>Analytical Chemistry</i> , 2022, 94, 5382-5391.	6.5	8
88	Sensitive fluorescent detection of exosomal microRNA based on enzymes-assisted dual-signal amplification. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114259.	10.1	8
89	Designing an alkali-metal-like superatom Ca ₃ B for ambient nitrogen reduction to ammonia. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18908-18915.	2.8	7
90	Small extracellular vesicles from human adipose-derived mesenchymal stromal cells: a potential promoter of fat graft survival. <i>Stem Cell Research and Therapy</i> , 2021, 12, 263.	5.5	6

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91	Construction of Photoelectrochemical DNA Biosensors Based on TiO ₂ @Carbon Dots@Black Phosphorous Quantum Dots. <i>Micromachines</i> , 2021, 12, 1523.	2.9	6
92	Electrochemical Detection of Alpha-Fetoprotein Based on Black Phosphorus Nanosheets Modification with Iron Ions. <i>Micromachines</i> , 2022, 13, 673.	2.9	6
93	Codelivery of "Stacked Dual Anticancer Drugs Based on Aloe-Derived Nanovesicles for Breast Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27686-27702.	8.0	6
94	On the Interaction between Superatom Al ₁₂ Be and DNA Nucleobases/Base Pairs: Bonding Nature and Potential Applications in O ₂ Activation and CO Oxidation. <i>ACS Omega</i> , 2020, 5, 15325-15334.	3.5	5
95	Detection of phospholipase A2 in serum based on LRET mechanism between upconversion nanoparticles and SYBR green I. <i>Analytica Chimica Acta</i> , 2021, 1143, 37-44.	5.4	5
96	Cisplatin under oriented external electric fields: A deeper insight into electrochemotherapy at the molecular level. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26578.	2.0	4
97	Upconversion luminescence-based aptasensor for the detection of thyroid-stimulating hormone in serum. <i>Mikrochimica Acta</i> , 2022, 189, 179.	5.0	4
98	Dual-mode detection of dopamine based on OD/2D/2D CuInS ₂ /ZnS quantum dot-black phosphorous nanosheet-TiO ₂ nanosheet nanocomposites. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1829.	3.7	1
99	Theoretical investigation on the low-energy isomer identification, structural evolution, stability, and electronic properties of Al ₁₀ Be (x= 1-9) nanoalloys. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 87, 56-67.	2.4	0