

Duanping Sun

List of Publications by Year in descending order

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42
papers

1,964
citations

218677

26
h-index

265206

42
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43
docs citations

43
times ranked

2335
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive Electrochemical Detection of MicroRNA Based on an Arched Probe Mediated Isothermal Exponential Amplification. <i>Analytical Chemistry</i> , 2014, 86, 8200-8205.	6.5	149
2	Electrochemical dual-aptamer-based biosensor for nonenzymatic detection of cardiac troponin I by nanohybrid electrocatalysts labeling combined with DNA nanotetrahedron structure. <i>Biosensors and Bioelectronics</i> , 2019, 134, 49-56.	10.1	132
3	Sensitive electrochemical aptamer cytosensor for highly specific detection of cancer cells based on the hybrid nanoelectrocatalysts and enzyme for signal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 75, 301-307.	10.1	117
4	An electrochemical dual-aptamer biosensor based on metal-organic frameworks MIL-53 decorated with Au@Pt nanoparticles and enzymes for detection of COVID-19 nucleocapsid protein. <i>Electrochimica Acta</i> , 2021, 387, 138553.	5.2	99
5	One-Step Electrodeposition of Silver Nanostructures on 2D/3D Metal-Organic Framework ZIF-67: Comparison and Application in Electrochemical Detection of Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41960-41968.	8.0	90
6	Ultrasensitive electrochemical detection of avian influenza A (H7N9) virus DNA based on isothermal exponential amplification coupled with hybridization chain reaction of DNAzyme nanowires. <i>Biosensors and Bioelectronics</i> , 2015, 64, 566-571.	10.1	83
7	DNA nanotetrahedron-assisted electrochemical aptasensor for cardiac troponin I detection based on the co-catalysis of hybrid nanozyme, natural enzyme and artificial DNAzyme. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111578.	10.1	83
8	Aptamer-based electrochemical cytosensors for tumor cell detection in cancer diagnosis: A review. <i>Analytica Chimica Acta</i> , 2019, 1082, 1-17.	5.4	77
9	Metal-organic frameworks for improving wound healing. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213929.	18.8	76
10	A dual-aptamer-based biosensor for specific detection of breast cancer biomarker HER2 via flower-like nanozymes and DNA nanostructures. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3661-3669.	5.8	72
11	A novel cytosensor for capture, detection and release of breast cancer cells based on metal organic framework PCN-224 and DNA tetrahedron linked dual-aptamer. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 398-404.	7.8	70
12	A DNA nanostructured aptasensor for the sensitive electrochemical detection of HepG2 cells based on multibranch hybridization chain reaction amplification strategy. <i>Biosensors and Bioelectronics</i> , 2018, 117, 416-421.	10.1	68
13	SIRT6 suppresses isoproterenol-induced cardiac hypertrophy through activation of autophagy. <i>Translational Research</i> , 2016, 172, 96-112.e6.	5.0	67
14	A repeatable assembling and disassembling electrochemical aptamer cytosensor for ultrasensitive and highly selective detection of human liver cancer cells. <i>Analytica Chimica Acta</i> , 2015, 885, 166-173.	5.4	66
15	Competitive electrochemical platform for ultrasensitive cytosensing of liver cancer cells by using nanotetrahedra structure with rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2018, 120, 8-14.	10.1	66
16	Label-free electrochemical detection of HepG2 tumor cells with a self-assembled DNA nanostructure-based aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 359-367.	7.8	63
17	Electrochemical biosensor based on gold nanoflowers-encapsulated magnetic metal-organic framework nanozymes for drug evaluation with in-situ monitoring of H ₂ O ₂ released from H9C2 cardiac cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127909.	7.8	61
18	Cyclovirobuxine D Induces Autophagy-Associated Cell Death via the Akt/mTOR Pathway in MCF-7 Human Breast Cancer Cells. <i>Journal of Pharmacological Sciences</i> , 2014, 125, 74-82.	2.5	51

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19	DNA nanotetrahedron linked dual-aptamer based voltammetric aptasensor for cardiac troponin I using a magnetic metal-organic framework as a label. <i>Mikrochimica Acta</i> , 2019, 186, 374.	5.0	48
20	Dual-aptamer-based voltammetric biosensor for the Mycobacterium tuberculosis antigen MPT64 by using a gold electrode modified with a peroxidase loaded composite consisting of gold nanoparticles and a Zr(IV)/terephthalate metal-organic framework. <i>Mikrochimica Acta</i> , 2018, 185, 543.	5.0	43
21	Chrysophanol protects against doxorubicin-induced cardiotoxicity by suppressing cellular PARylation. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 782-793.	12.0	40
22	A voltammetric aptamer-based thrombin biosensor exploiting signal amplification via synergetic catalysis by DNAzyme and enzyme decorated AuPd nanoparticles on a poly(o-phenylenediamine) support. <i>Mikrochimica Acta</i> , 2017, 184, 1791-1799.	5.0	33
23	Zebrafish on a Chip: A Novel Platform for Real-Time Monitoring of Drug-Induced Developmental Toxicity. <i>PLoS ONE</i> , 2014, 9, e94792.	2.5	31
24	Label-free and competitive aptamer cytosensor based on layer-by-layer assembly of DNA-platinum nanoparticles for ultrasensitive determination of tumor cells. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 35-43.	7.8	30
25	Ultrasensitive biosensor for microRNA-155 using synergistically catalytic nanoprobe coupled with improved cascade strand displacement reaction. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111744.	10.1	30
26	Nanomaterial-based Microfluidic Chips for the Capture and Detection of Circulating Tumor Cells. <i>Nanotheranostics</i> , 2017, 1, 389-402.	5.2	29
27	A novel three-dimensional microfluidic platform for on chip multicellular tumor spheroid formation and culture. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 831-842.	2.2	23
28	Voltammetric aptamer based detection of HepG2 tumor cells by using an indium tin oxide electrode array and multifunctional nanoprobe. <i>Mikrochimica Acta</i> , 2017, 184, 3487-3496.	5.0	23
29	The poly(ADP-ribosyl)ation of FoxO3 mediated by PARP1 participates in isoproterenol-induced cardiac hypertrophy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 3027-3039.	4.1	22
30	Enzyme-free electrochemical sensor for the determination of hydrogen peroxide secreted from MCF-7 breast cancer cells using calcined indium metal-organic frameworks as efficient catalysts. <i>Electrochimica Acta</i> , 2020, 359, 136962.	5.2	15
31	2D/3D Copper-Based Metal-Organic Frameworks for Electrochemical Detection of Hydrogen Peroxide. <i>Frontiers in Chemistry</i> , 2021, 9, 743637.	3.6	15
32	Microfluidic contactless conductivity cytometer for electrical cell sensing and counting. <i>RSC Advances</i> , 2015, 5, 59306-59313.	3.6	14
33	Sorting nexin 3 induces heart failure via promoting retromer-dependent nuclear trafficking of STAT3. <i>Cell Death and Differentiation</i> , 2021, 28, 2871-2887.	11.2	14
34	A two-electrode system based electrochemiluminescence detection for microfluidic capillary electrophoresis and its application in pharmaceutical analysis. <i>Luminescence</i> , 2014, 29, 427-432.	2.9	12
35	Comparative toxicity of lead (Pb ²⁺), copper (Cu ²⁺), and mixtures of lead and copper to zebrafish embryos on a microfluidic chip. <i>Biomicrofluidics</i> , 2015, 9, 024105.	2.4	12
36	Poly(ADP-ribose) polymerase 1 induces cardiac fibrosis by mediating mammalian target of rapamycin activity. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 4813-4826.	2.6	11

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37	A Sensitive and Rapid Electrochemical Aptasensor Based on Au@PB for Selective Detection of Mycobacterium Tuberculosis Antigen MPT64. <i>Journal of the Electrochemical Society</i> , 2019, 166, B604-B609.	2.9	9
38	Nonenzymatic Electrochemical Immunosensor Using Ferroferric Oxide@Manganese Dioxide@Reduced Graphene Oxide Nanocomposite as Label for I±-Fetoprotein Detection. <i>Nano</i> , 2016, 11, 1650116.	1.0	7
39	An integrated microfluidics for assessing the anti-aging effect of caffeic acid phenethylester in <i>Caenorhabditis elegans</i> . <i>Electrophoresis</i> , 2021, 42, 742-748.	2.4	4
40	Direct Electrodeposition of Bimetallic Nanostructures on Co-Based MOFs for Electrochemical Sensing of Hydrogen Peroxide. <i>Frontiers in Chemistry</i> , 2022, 10, 856003.	3.6	4
41	A beveled working electrode coupled to a sandglass shape detection cell: A strategy to improve the sensitivity of electrochemiluminescence detection in microchip electrophoresis. <i>Electrochimica Acta</i> , 2013, 90, 101-107.	5.2	3
42	Electrochemical aptasensors for the detection of hepatocellular carcinoma-related biomarkers. <i>New Journal of Chemistry</i> , 2021, 45, 15158-15169.	2.8	2