Ai-Lin Liu

List of Publications by Year
in descending order

72 papers	2,714 citations	186265 28 h-index	189892 50 g-index
74 all docs	74 docs citations	74 times ranked	3463 citing authors

#	Article	IF	Citations
1	Levofloxacin-based carbon dots to enhance antibacterial activities and combat antibiotic resistance. Carbon, 2022, 186, 452-464.	10.3	47
2	Disclosing targets and pharmacological mechanisms of total bioflavonoids extracted from Selaginella doederleinii against non-small cell lung cancer by combination of network pharmacology and proteomics. Journal of Ethnopharmacology, 2022, 286, 114836.	4.1	4
3	Quaternized carbon quantum dots with broad-spectrum antibacterial activity for the treatment of wounds infected with mixed bacteria. Acta Biomaterialia, 2022, 138, 528-544.	8.3	70
4	Electrochemical monitoring the effect of drug intervention on PC12Âcell damage model cultured on paper-PLA 3D printed device. Analytica Chimica Acta, 2022, 1194, 339409.	5.4	4
5	Synthesis of curcumin-quaternized carbon quantum dots with enhanced broad-spectrum antibacterial activity for promoting infected wound healing. Materials Science and Engineering C, 2022, 133, 112608.	7.3	13
6	Tissue Distribution, Excretion, and Interaction With Human Serum Albumin of Total Bioflavonoid Extract From Selaginella doederleinii. Frontiers in Pharmacology, 2022, 13, 849110.	3.5	2
7	Boosting the oxidase-like activity of platinum nanozyme in MBTH-TOOS chromogenic system for detection of trypsin and its inhibitor. Talanta, 2021, 234, 122647.	5.5	8
8	Dual-probe fluorescent biosensor based on T7 exonuclease-assisted target recycling amplification for simultaneous sensitive detection of microRNA-21 and microRNA-155. Analytical and Bioanalytical Chemistry, 2021, 413, 1605-1614.	3.7	22
9	Pharmacokinetics, Tissue Distribution, and Human Serum Albumin Binding Properties of Delicaflavone, a Novel Anti-Tumor Candidate. Frontiers in Pharmacology, 2021, 12, 761884.	3.5	10
10	MoOx quantum dots with peroxidase-like activity on microfluidic paper-based analytical device for rapid colorimetric detection of H2O2 released from PC12 cells. Sensors and Actuators B: Chemical, 2020, 305, 127512.	7.8	46
11	Sepsis progression monitoring via human serum fibronectin detection based on sandwich-type electrochemical immunosensor. Analytica Chimica Acta, 2020, 1100, 225-231.	5.4	9
12	Detection of Epidermal Growth Factor Receptor Gene Status via a DNA Electrochemical Biosensor Based on Lambda Exonuclease-assisted Signal Amplification. Analytical Sciences, 2020, 36, 697-702.	1.6	7
13	Ethyl Acetate Extract of Selaginella doederleinii Hieron Induces Cell Autophagic Death and Apoptosis in Colorectal Cancer via PI3K-Akt-mTOR and AMPKÎ±-Signaling Pathways. Frontiers in Pharmacology, 2020, 11, 565090.	3.5	13
14	Nitrogen-doped carbon dots as a ratiometric fluorescent probe for determination of the activity of acid phosphatase, for inhibitor screening, and for intracellular imaging. Mikrochimica Acta, 2019, 186, 558.	5.0	28
15	Paper-based 3D culture device integrated with electrochemical sensor for the on-line cell viability evaluation of amyloid-beta peptide induced damage in PC12â€¯cells. Biosensors and Bioelectronics, 2019, 144, 111686.	10.1	16
16	Improving quantitative control and homogeneous distribution of samples on paper-based analytical devices via drop-on-demand inkjet printing. Analyst, The, 2019, 144, 4013-4023.	3.5	3
17	Nanoporous gold electrode prepared from two-step square wave voltammetry (SWV) and its application for electrochemical DNA biosensing of lung resistance related protein (LRP) gene. Journal of Electroanalytical Chemistry, 2019, 840, 165-173.	3.8	14
18	Ultrasensitive Electrochemical Biosensor Developed by Probe Lengthening for Detection of Genomic DNA in Human Serum. Analytical Chemistry, 2019, 91, 4552-4558.	6.5	33

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19	Facile electrochemiluminescence sensing platform based on water-soluble tungsten oxide quantum dots for ultrasensitive detection of dopamine released by cells. Analytica Chimica Acta, 2019, 1065, 21-28.	5.4	19
20	Facilely prepared low-density DNA monolayerâ€“based electrochemical biosensor with high detection performance in human serum. Analytical and Bioanalytical Chemistry, 2019, 411, 2101-2109.	3.7	5
21	Facile and highly sensitive photoelectrochemical biosensing platform based on hierarchical architectured polydopamine/tungsten oxide nanocomposite film. Biosensors and Bioelectronics, 2019, 126, 1-6.	10.1	46
22	An electrochemical biosensor for sensitive detection of nicotine-induced dopamine secreted by PC12 cells. Journal of Electroanalytical Chemistry, 2019, 832, 217-224.	3.8	13
23	An ammonia-based etchant for attaining copper nanoclusters with green fluorescence emission. Nanoscale, 2018, 10, 6467-6473.	5.6	62
24	2â€²-Fluoro ribonucleic acid modified DNA dual-probe sensing strategy for enzyme-amplified electrochemical detection of double-strand DNA of PML/RARÎ± related fusion gene. Biosensors and Bioelectronics, 2018, 112, 170-176.	10.1	12
25	Facile electrochemiluminescence sensing platform based on high-quantum-yield gold nanocluster probe for ultrasensitive glutathione detection. Biosensors and Bioelectronics, 2018, 105, 71-76.	10.1	74
26	Genotyping of common EGFR mutations in lung cancer patients by electrochemical biosensor. Journal of Pharmaceutical and Biomedical Analysis, 2018, 150, 176-182.	2.8	15
27	A DNA electrochemical biosensor based on homogeneous hybridization for the determination of Cryptococcus neoformans. Journal of Electroanalytical Chemistry, 2018, 827, 27-33.	3.8	8
28	Sensitive electrochemical cytosensor for highly specific detection of osteosarcoma 143B cells based on graphene-3D gold nanocomposites. Journal of Electroanalytical Chemistry, 2018, 824, 108-113.	3.8	5
29	Fabrication of Water-Soluble, Green-Emitting Gold Nanoclusters with a 65% Photoluminescence Quantum Yield via Hostâ€“Guest Recognition. Chemistry of Materials, 2017, 29, 1362-1369.	6.7	209
30	Fluorescent turn-off competitive immunoassay for biotin based on hydrothermally synthesized carbon dots. Mikrochimica Acta, 2017, 184, 907-914.	5.0	17
31	Valence States Effect on Electrogenerated Chemiluminescence of Gold Nanocluster. ACS Applied Materials & Interfaces, 2017, 9, 14929-14934.	8.0	60
32	Chitosan-stabilized platinum nanoparticles as effective oxidase mimics for colorimetric detection of acid phosphatase. Nanoscale, 2017, 9, 10292-10300.	5.6	187
33	A strategy for integrated pharmacokinetic study of cardiovascular herbal medicines based on chemiluminescence and HPLC-MS/MS assays: a case using Danshen injection. RSC Advances, 2017, 7, 13570-13583.	3.6	13
34	Electrochemiluminescence sensor based on methionine-modified gold nanoclusters for highly sensitive determination of dopamine released by cells. Mikrochimica Acta, 2017, 184, 735-743.	5.0	45
35	Magnetic electrochemiluminescent immunoassay with quantum dots label for highly efficient detection of the tumor marker Î±-fetoprotein. Journal of Electroanalytical Chemistry, 2017, 785, 8-13.	3.8	23
36	Highly sensitive and rapid colorimetric sensing platform based on water-soluble WO x quantum dots with intrinsic peroxidase-like activity. Analytica Chimica Acta, 2017, 992, 128-134.	5.4	22

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37	Pharmacokinetics study of isorhamnetin in rat plasma by a sensitive electrochemical sensor based on reduced graphene oxide. RSC Advances, 2017, 7, 36728-36734.	3.6	5
38	Electrochemical DNA biosensor based on grafting-to mode of terminal deoxynucleoside transferase-mediated extension. Biosensors and Bioelectronics, 2017, 98, 345-349.	10.1	13
39	DPPHÂ·â€“luminol chemiluminescence system and its application in the determination of scutellarin in pharmaceutical injections and rat plasma with flow injection analysis. Luminescence, 2017, 32, 588-595.	2.9	6
40	Simple and effective label-free electrochemical immunoassay for carbohydrate antigen 19-9 based on polythionine-Au composites as enhanced sensing signals for detecting different clinical samples. International Journal of Nanomedicine, 2017, Volume 12, 3049-3058.	6.7	40
41	Chemiluminescent properties of a fluorescent SiCÂ·SiO_x composite. RSC Advances, 2016, 6, 86602-86606.	3.6	1
42	Fabrication and multifunctional properties of ultrasmall water-soluble tungsten oxide quantum dots. Chemical Communications, 2016, 52, 9534-9537.	4.1	27
43	One-pot green synthesis of mussel-inspired myoglobinâ€“gold nanoparticlesâ€“polydopamineâ€“graphene polymeric bionanocomposite for biosensor application. Journal of Electroanalytical Chemistry, 2016, 764, 104-109.	3.8	18
44	Detection EGFR exon 19 status of lung cancer patients by DNA electrochemical biosensor. Biosensors and Bioelectronics, 2016, 80, 411-417.	10.1	47
45	Sensitive electrochemical immunosensor based on three-dimensional nanostructure gold electrode. International Journal of Nanomedicine, 2015, 10, 2219.	6.7	10
46	Dual-probe electrochemical DNA biosensor based on the â€œYâ€•junction structure and restriction endonuclease assisted cyclic enzymatic amplification for detection of double-strand DNA of PML/RARÎ± related fusion gene. Biosensors and Bioelectronics, 2015, 71, 463-469.	10.1	29
47	A nonenzymatic amperometric glucose sensor based on three dimensional nanostructure gold electrode. Sensors and Actuators B: Chemical, 2015, 212, 72-77.	7.8	82
48	pH-Sensitive gold nanoclusters: preparation and analytical applications for urea, urease, and urease inhibitor detection. Chemical Communications, 2015, 51, 7847-7850.	4.1	88
49	Methionine-directed fabrication of gold nanoclusters with yellow fluorescent emission for Cu2+ sensing. Biosensors and Bioelectronics, 2015, 65, 397-403.	10.1	116
50	Label-free electrochemical DNA biosensor for rapid detection of mutidrug resistance gene based on Au nanoparticles/toluidine blueâ€“graphene oxide nanocomposites. Sensors and Actuators B: Chemical, 2015, 207, 269-276.	7.8	144
51	Development of an Electrochemical Sensing Technique for Rapid Genotyping of Hepatitis B Virus. Sensors, 2014, 14, 5611-5621.	3.8	5
52	Electrochemical immunosensor for detection of topoisomerase based on grapheneâ€“gold nanocomposites. Talanta, 2014, 125, 439-445.	5.5	12
53	A novel nanocomposite matrix based on graphene oxide and ferrocene-branched organically modified solâ€“gel/chitosan for biosensor application. Journal of Solid State Electrochemistry, 2014, 18, 1941-1949.	2.5	34
54	Label-free electrochemical immunosensor based on multi-functional gold nanoparticlesâ€“polydopamineâ€“thionineâ€“graphene oxide nanocomposites film for determination of alpha-fetoprotein. Journal of Electroanalytical Chemistry, 2014, 712, 89-95.	3.8	46

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55	In Situ Growth of Porous Platinum Nanoparticles on Graphene Oxide for Colorimetric Detection of Cancer Cells. Analytical Chemistry, 2014, 86, 2711-2718.	6.5	233
56	Bovine Serum Albumin-Based Probe Carrier Platform for Electrochemical DNA Biosensing. Analytical Chemistry, 2013, 85, 273-277.	6.5	54
57	Electrochemical method for monitoring the progress of polymerase chain reactions using Methylene blue as an indicator. Mikrochimica Acta, 2013, 180, 871-878.	5.0	6
58	An electrochemical DNA sensor for detection of cytokeratin 19. Analytical Methods, 2013, 5, 2329.	2.7	4
59	Enzyme-based E-RNA sensor array with a hairpin probe: Specific detection of gene mutation. Sensors and Actuators B: Chemical, 2013, 181, 227-233.	7.8	7
60	A sandwich-type DNA biosensor based on electrochemical co-reduction synthesis of graphene-three dimensional nanostructure gold nanocomposite films. Analytica Chimica Acta, 2013, 767, 50-58.	5.4	71
61	Detection of femtomolar level osteosarcoma-related gene via a chronocoulometric DNA biosensor based on nanostructure gold electrode. International Journal of Nanomedicine, 2012, 7, 527.	6.7	18
62	Electrochemical biosensor for detection of PML/RARÎ± fusion gene based on eriochrome cyanine R film modified glassy carbon electrode. Electrochimica Acta, 2012, 69, 56-59.	5.2	12
63	Molecular beacon-based fluorescence biosensor for the detection of gene fragment and PCR amplification products related to chronic myelogenous leukemia. Analytical and Bioanalytical Chemistry, 2012, 402, 805-812.	3.7	13
64	Electrochemical DNA biosensor based on aldehyde-agarose hydrogel modified glassy carbon electrode for detection of PML/RARa fusion gene. Sensors and Actuators B: Chemical, 2011, 160, 1458-1463.	7.8	31
65	Enzyme-amplified electrochemical biosensor for detection of PMLâ€“RARÎ± fusion gene based on hairpin LNA probe. Biosensors and Bioelectronics, 2011, 28, 277-283.	10.1	48
66	Design of a sandwich-mode amperometric biosensor for detection of PML/RARÎ± fusion gene using locked nucleic acids on gold electrode. Biosensors and Bioelectronics, 2011, 26, 2870-2876.	10.1	45
67	Electrochemical biosensor based on nanoporous gold electrode for detection of PML/RARÎ± fusion gene. Biosensors and Bioelectronics, 2011, 26, 3812-3817.	10.1	50
68	A Sandwichâ€Type Electrochemical Biosensor for Detection of BCR/ABL Fusion Gene Using Locked Nucleic Acids on Gold Electrode. Electroanalysis, 2009, 21, 1159-1166.	2.9	25
69	Simultaneous voltammetric determination of norepinephrine, ascorbic acid and uric acid on polycalconcarboxylic acid modified glassy carbon electrode. Biosensors and Bioelectronics, 2008, 23, 1488-1495.	10.1	118
70	Study of the electrochemical behavior of isorhamnetin on a glassy carbon electrode and its application. Talanta, 2008, 77, 314-318.	5.5	20
71	A Polymer Film Modified Sensor for Voltammetric Determination of Uric Acid in the Presence of Ascorbic Acid and Its Application in Urine. Chemical and Pharmaceutical Bulletin, 2008, 56, 1665-1669.	1.3	6
72	Electrochemical Oxidation of Luteolin at a Glassy Carbon Electrode and Its Application in Pharmaceutical Analysis. Chemical and Pharmaceutical Bulletin, 2008, 56, 745-748.	1.3	45