Lin Liu

List of Publications by Year in descending order

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107	4,219	38 h-index	60
papers	citations		g-index
108	108	108	5026
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Multistimuliâ€Responsive, Moldable Supramolecular Hydrogels Crossâ€Linked by Ultrafast Complexation of Metal Ions and Biopolymers. Angewandte Chemie - International Edition, 2015, 54, 7944-7948.	7.2	257
2	Highly sensitive and label-free electrochemical detection of microRNAs based on triple signal amplification of multifunctional gold nanoparticles, enzymes and redox-cycling reaction. Biosensors and Bioelectronics, 2014, 53, 399-405.	5.3	139
3	Electrochemical Detection of Amyloid- \hat{l}^2 Oligomers Based on the Signal Amplification of a Network of Silver Nanoparticles. ACS Applied Materials & Silver Nanoparticles. ACS Applied Materials & Silver Nanoparticles.	4.0	123
4	Regenerable and Simultaneous Surface Plasmon Resonance Detection of $\hat{Al^2}(1\hat{a}^40)$ and $\hat{Al^2}(1\hat{a}^42)$ Peptides in Cerebrospinal Fluids with Signal Amplification by Streptavidin Conjugated to an N-Terminus-Specific Antibody. Analytical Chemistry, 2010, 82, 10151-10157.	3.2	117
5	Visual and fluorescent assays for selective detection of beta-amyloid oligomers based on the inner filter effect of gold nanoparticles on the fluorescence of CdTe quantum dots. Biosensors and Bioelectronics, 2016, 85, 625-632.	5.3	108
6	Direct electrochemistry of horseradish peroxidase on graphene-modified electrode for electrocatalytic reduction towards H2O2. Electrochimica Acta, 2011, 56, 1144-1149.	2.6	95
7	Metal-free selenosulfonylation of alkynes: rapid access to \hat{l}^2 -(seleno)vinyl sulfones via a cationic-species-induced pathway. Green Chemistry, 2017, 19, 1490-1493.	4.6	93
8	Boronic Acid-Based Approach for Separation and Immobilization of Glycoproteins and Its Application in Sensing. International Journal of Molecular Sciences, 2013, 14, 20890-20912.	1.8	90
9	Sandwich-type electrochemical biosensor for glycoproteins detection based on dual-amplification of boronic acid-gold nanoparticles and dopamine-gold nanoparticles. Biosensors and Bioelectronics, 2013, 43, 155-159.	5.3	88
10	Copper Redox Cycling in the Prion Protein Depends Critically on Binding Mode. Journal of the American Chemical Society, 2011, 133, 12229-12237.	6.6	86
11	Peroxodisulfate-mediated selenoamination of alkenes yielding amidoselenide-containing sulfamides and azoles. Chemical Communications, 2016, 52, 8471-8474.	2.2	85
12	Design of electrochemical biosensors with peptide probes as the receptors of targets and the inducers of gold nanoparticles assembly on electrode surface. Sensors and Actuators B: Chemical, 2017, 239, 834-840.	4.0	85
13	Competitive electrochemical immunoassay for detection of β-amyloid (1–42) and total β-amyloid peptides using p-aminophenol redox cycling. Biosensors and Bioelectronics, 2014, 51, 208-212.	5.3	83
14	Simple, sensitive and selective detection of dopamine using dithiobis(succinimidylpropionate)-modified gold nanoparticles as colorimetric probes. Analyst, The, 2012, 137, 3794.	1.7	82
15	Label-free and sensitive strategy for microRNAs detection based on the formation of boronate ester bonds and the dual-amplification of gold nanoparticles. Biosensors and Bioelectronics, 2013, 47, 461-466.	5.3	76
16	Electrochemical detection of \hat{l}^2 -amyloid peptides on electrode covered with N-terminus-specific antibody based on electrocatalytic O2 reduction by $\hat{Al}^2(1\hat{a}\in 16)$ -heme-modified gold nanoparticles. Biosensors and Bioelectronics, 2013, 49, 231-235.	5.3	72
17	Amplified voltammetric detection of dopamine using ferrocene-capped gold nanoparticle/streptavidin conjugates. Biosensors and Bioelectronics, 2013, 41, 730-735.	5.3	72
18	An electrochemical microRNAs biosensor with the signal amplification of alkaline phosphatase and electrochemical–chemicalâ edox cycling. Analytica Chimica Acta, 2015, 878, 95-101.	2.6	71

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19	Reaction Rates and Mechanism of the Ascorbic Acid Oxidation by Molecular Oxygen Facilitated by Cu(II)-Containing Amyloid- \hat{l}^2 Complexes and Aggregates. Journal of Physical Chemistry B, 2010, 114, 4896-4903.	1.2	70
20	Aptasensors for the selective detection of alpha-synuclein oligomer by colorimetry, surface plasmon resonance and electrochemical impedance spectroscopy. Sensors and Actuators B: Chemical, 2017, 245, 87-94.	4.0	70
21	Electrostatic self-assembly for preparation of sulfonated graphene/gold nanoparticle hybrids and their application for hydrogen peroxide sensing. Electrochimica Acta, 2012, 85, 628-635.	2.6	67
22	Two-in-one polydopamine nanospheres for fluorescent determination of beta-amyloid oligomers and inhibition of beta-amyloid aggregation. Sensors and Actuators B: Chemical, 2017, 251, 359-365.	4.0	65
23	Nanomaterials-Based Colorimetric Immunoassays. Nanomaterials, 2019, 9, 316.	1.9	64
24	A sensitive and selective nitrite sensor based on a glassy carbon electrode modified with gold nanoparticles and sulfonated graphene. Mikrochimica Acta, 2013, 180, 821-827.	2.5	62
25	A signal-on electrochemical biosensor for evaluation of caspase-3 activity and cell apoptosis by the generation of molecular electrocatalysts on graphene electrode surface for water oxidation. Sensors and Actuators B: Chemical, 2019, 286, 415-420.	4.0	62
26	Peptide aptamer-based biosensor for the detection of human chorionic gonadotropin by converting silver nanoparticles-based colorimetric assay into sensitive electrochemical analysis. Sensors and Actuators B: Chemical, 2017, 243, 784-791.	4.0	59
27	Activity analysis of the carbodiimide-mediated amine coupling reaction on self-assembled monolayers by cyclic voltammetry. Electrochimica Acta, 2013, 89, 616-622.	2.6	58
28	Nanomaterials-Based Optical Techniques for the Detection of Acetylcholinesterase and Pesticides. Sensors, 2015, 15, 499-514.	2.1	58
29	Simple, sensitive and label–free electrochemical detection of microRNAs based on the in situ formation of silver nanoparticles aggregates for signal amplification. Biosensors and Bioelectronics, 2017, 94, 235-242.	5. 3	57
30	The electrochemical determination of l-cysteine at a Ce-doped Mg–Al layered double hydroxide modified glassy carbon electrode. Electrochimica Acta, 2012, 70, 193-198.	2.6	54
31	Simple, rapid and label-free colorimetric assay for arsenic based on unmodified gold nanoparticles and a phytochelatin-like peptide. Analytical Methods, 2012, 4, 3937.	1.3	47
32	Electrochemical detection of amyloid-l² oligomer with the signal amplification of alkaline phosphatase plus electrochemical–chemical–chemical redox cycling. Journal of Electroanalytical Chemistry, 2015, 754, 40-45.	1.9	47
33	Hierarchical Ni(OH) ₂ –MnO ₂ hollow spheres as an electrode material for high-performance supercapacitors. Inorganic Chemistry Frontiers, 2022, 9, 3542-3551.	3.0	45
34	Multistimuliâ€Responsive, Moldable Supramolecular Hydrogels Crossâ€Linked by Ultrafast Complexation of Metal Ions and Biopolymers. Angewandte Chemie, 2015, 127, 8055-8059.	1.6	44
35	An ultrasensitive electrochemical miRNAs sensor based on miRNAs-initiated cleavage of DNA by duplex-specific nuclease and signal amplification of enzyme plus redox cycling reaction. Sensors and Actuators B: Chemical, 2015, 208, 137-142.	4.0	44
36	A robust Zn(<scp>ii</scp>)/Na(<scp>i</scp>)-MOF decorated with [(OAc) ₂ (H ₂ O) _{]_n^{2nâ^'} anions for the luminescence sensing of copper ions based on the inner filter effect. Dalton Transactions, 2018, 47, 7787-7794.}	1.6	43

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37	Candle soot coated nickel foam for facile water and oil mixture separation. RSC Advances, 2014, 4, 7132.	1.7	41
38	Direct Nâ€Methylation Reaction Using DMSO as Oneâ€Carbon Bridge: Convenient Access to Heterocycleâ€Containing βâ€Amino Ketones. Chemistry - an Asian Journal, 2015, 10, 536-539.	1.7	39
39	Protease Biosensor by Conversion of a Homogeneous Assay into a Surface-Tethered Electrochemical Analysis Based on Streptavidin–Biotin Interactions. ACS Sensors, 2021, 6, 1166-1173.	4.0	38
40	A retrievable, water-soluble and biocompatible fluorescent probe for recognition of Cu(II) and sulfide based on a peptide receptor. Talanta, 2015, 143, 307-314.	2.9	37
41	Two sensitive electrochemical strategies for the detection of protein kinase activity based on the 4-mercaptophenylboronic acid-induced in situ assembly of silver nanoparticles. Sensors and Actuators B: Chemical, 2017, 248, 178-186.	4.0	37
42	Glassy carbon electrode modified with 7,7,8,8-tetracyanoquinodimethane and graphene oxide triggered a synergistic effect: Low-potential amperometric detection of reduced glutathione. Biosensors and Bioelectronics, 2017, 96, 1-7.	5.3	37
43	Electrochemical-chemical-chemical redox cycling triggered by thiocholine and hydroquinone with ferrocenecarboxylic acid as the redox mediator. Electrochimica Acta, 2014, 139, 323-330.	2.6	36
44	Ferrocene-phenylalanine hydrogels for immobilization of acetylcholinesterase and detection of chlorpyrifos. Journal of Electroanalytical Chemistry, 2015, 746, 68-74.	1.9	35
45	Preparation of electrochemically reduced graphene oxide-modified electrode and its application for determination of p-aminophenol. Journal of Solid State Electrochemistry, 2012, 16, 2883-2889.	1.2	34
46	A novel Ag(<scp>i</scp>)-calix[4]arene coordination polymer for the sensitive detection and efficient photodegradation of nitrobenzene in aqueous solution. Dalton Transactions, 2017, 46, 178-185.	1.6	34
47	A colorimetric strategy for assay of protease activity based on gold nanoparticle growth controlled by ascorbic acid and Cu(II)-coordinated peptide. Sensors and Actuators B: Chemical, 2018, 266, 246-254.	4.0	33
48	Oxidative Câ \in "S bond cleavage reaction of DMSO for Câ \in "N and Câ \in "C bond formation: new Mannich-type reaction for \hat{l}^2 -amino ketones. RSC Advances, 2015, 5, 3094-3097.	1.7	32
49	4-Mercaptophenylboronic acid-induced in situ formation of silver nanoparticle aggregates as labels on an electrode surface. Electrochemistry Communications, 2017, 74, 28-32.	2.3	32
50	Electrochemical sensing devices using ATCUN-Cu(II) complexes as electrocatalysts for water oxidation. Sensors and Actuators B: Chemical, 2018, 269, 189-194.	4.0	32
51	Electrochemical immunosensors with protease as the signal label for the generation of peptide-Cu(II) complexes as the electrocatalysts toward water oxidation. Sensors and Actuators B: Chemical, 2019, 291, 113-119.	4.0	32
52	Comparing the performances of electrochemical sensors using p-aminophenol redox cycling by different reductants on gold electrodes modified with self-assembled monolayers. Electrochimica Acta, 2013, 109, 348-354.	2.6	31
53	An electrochemical aptasensor for sensitive and selective detection of dopamine based on signal amplification of electrochemical-chemical redox cycling. Journal of Electroanalytical Chemistry, 2016, 775, 58-63.	1.9	31
54	A novel oxidation-reduction method for highly selective detection of cysteine over reduced glutathione based on synergistic effect of fully fluorinated cobalt phthalocyanine and ordered mesoporous carbon. Sensors and Actuators B: Chemical, 2019, 288, 180-187.	4.0	31

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55	A graphene oxide-based fluorescent platform for selective detection of amyloid- \hat{l}^2 oligomers. Analytical Methods, 2015, 7, 8727-8732.	1.3	29
56	Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. Mikrochimica Acta, 2017, 184, 4393-4400.	2.5	28
57	Magnetic bead-based electrochemical and colorimetric assays of circulating tumor cells with boronic acid derivatives as the recognition elements and signal probes. Talanta, 2021, 221, 121640.	2.9	28
58	A simple and label-free electrochemical method for detection of beta-site amyloid precursor protein cleaving enzyme and screening of its inhibitor. Sensors and Actuators B: Chemical, 2015, 213, 111-115.	4.0	27
59	Impedimetric biosensor for assay of caspase-3 activity and evaluation of cell apoptosis using self-assembled biotin-phenylalanine network as signal enhancer. Sensors and Actuators B: Chemical, 2020, 320, 128436.	4.0	27
60	Electrochemical determination of glutathione based on an electrodeposited nickel oxide nanoparticles-modified glassy carbon electrode. Analytical Methods, 2013, 5, 1779.	1.3	25
61	Gold nanoparticles-based electrochemical method for the detection of protein kinase with a peptide-like inhibitor as the bioreceptor. International Journal of Nanomedicine, 2017, Volume 12, 1905-1915.	3.3	25
62	Ascorbic acid-triggered electrochemical–chemical–chemical redox cycling for design of enzyme-amplified electrochemical biosensors on self-assembled monolayer-covered gold electrodes. Journal of Electroanalytical Chemistry, 2014, 731, 78-83.	1.9	24
63	Duplex-specific nuclease-based electrochemical biosensor for the detection of microRNAs by conversion of homogeneous assay into surface-tethered electrochemical analysis. Analytica Chimica Acta, 2021, 1149, 338199.	2.6	23
64	A Graphene Oxide-Based Fluorescent Method for the Detection of Human Chorionic Gonadotropin. Sensors, 2016, 16, 1699.	2.1	22
65	Colorimetric immunoassays based on pyrroloquinoline quinone-catalyzed generation of Fe(II)-ferrozine with tris(2-carboxyethyl)phosphine as the reducing reagent. Sensors and Actuators B: Chemical, 2020, 306, 127571.	4.0	22
66	Colorimetric and Electrochemical Methods for the Detection of SARS-CoV-2 Main Protease by Peptide-Triggered Assembly of Gold Nanoparticles. Molecules, 2022, 27, 615.	1.7	22
67	A signal-on electrochemical strategy for protease detection based on the formation of ATCUN-Cu(II). Sensors and Actuators B: Chemical, 2016, 232, 557-563.	4.0	21
68	Potential applications of SPR in early diagnosis and progression of Alzheimer's disease. RSC Advances, 2012, 2, 2200.	1.7	20
69	Anti-adsorption properties of gold nanoparticle/sulfonated graphene composites for simultaneous determination of dihydroxybenzene isomers. Analytical Methods, 2013, 5, 2536.	1.3	19
70	A graphene oxide-based fluorescent scheme for the determination of the activity of the \hat{l}^2 -site amyloid precursor protein (BACE1) and its inhibitors. Mikrochimica Acta, 2016, 183, 265-271.	2.5	19
71	Direct electrochemistry of glucose oxidase on sulfonated graphene/gold nanoparticle hybrid and its application to glucose biosensing. Journal of Solid State Electrochemistry, 2013, 17, 2487-2494.	1.2	18
72	Magnetic bead-based electrochemical and colorimetric methods for the detection of poly(ADP-ribose) polymerase-1 with boronic acid derivatives as the signal probes. Sensors and Actuators B: Chemical, 2021, 327, 128913.	4.0	18

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73	Electrochemical detection of telomerase in cancer cells based on the in-situ formation of streptavidin-biotin-DNA-biotin networks for signal amplification. Sensors and Actuators B: Chemical, 2021, 334, 129659.	4.0	18
74	Nanomaterials-Based Fluorimetric Methods for MicroRNAs Detection. Materials, 2015, 8, 2809-2829.	1.3	17
75	Electrochemical biosensors by in situ dissolution of self-assembled nanolabels into small monomers on electrode surface. Sensors and Actuators B: Chemical, 2020, 325, 128777.	4.0	17
76	Six-in-one peptide functionalized upconversion@polydopamine nanoparticle-based ratiometric fluorescence sensing platform for real-time evaluating anticancer efficacy through monitoring caspase-3 activity. Sensors and Actuators B: Chemical, 2021, 333, 129554.	4.0	17
77	Nanomaterials for Modulating the Aggregation of β-Amyloid Peptides. Molecules, 2021, 26, 4301.	1.7	17
78	A Colorimetric Enzyme-Linked Immunosorbent Assay with CuO Nanoparticles as Signal Labels Based on the Growth of Gold Nanoparticles In Situ. Nanomaterials, 2019, 9, 4.	1.9	15
79	Self-assembled biotin-phenylalanine nanoparticles for the signal amplification of surface plasmon resonance biosensors. Mikrochimica Acta, 2020, 187, 473.	2.5	15
80	A colorimetric method for determination of theÂprostate specific antigen based on enzyme-free cascaded signal amplification via peptide-copper(II) nanoparticles. Mikrochimica Acta, 2020, 187, 116.	2.5	14
81	A Graphene Oxide-Based Fluorescent Platform for Probing of Phosphatase Activity. Nanomaterials, 2016, 6, 20.	1.9	13
82	A Green-emitting Fluorescent Probe Based on a Benzothiazole Derivative for Imaging Biothiols in Living Cells. Molecules, 2019, 24, 411.	1.7	13
83	Surface plasmon resonance biosensor for the detection of miRNAs by combining the advantages of homogeneous reaction and heterogeneous detection. Talanta, 2021, 234, 122622.	2.9	13
84	Metallothioneins and Synthetic Metal Chelators as Potential Therapeutic Agents for Removal of Aberrant Metal Ions from Metal-Aβ Species. Mini-Reviews in Medicinal Chemistry, 2014, 14, 271-281.	1.1	13
85	Oxidase-mimicking peptide-copper complexes and their applications in sandwich affinity biosensors. Analytica Chimica Acta, 2022, 1214, 339965.	2.6	13
86	Electrochemical detection of kinase by converting homogeneous analysis into heterogeneous assay through avidin-biotin interaction. Talanta, 2021, 234, 122649.	2.9	12
87	Electrochemical Aptasensor for Determination of Mucin 1 by P-Aminophenol Redox Cycling. Analytical Letters, 2014, 47, 2431-2442.	1.0	11
88	Single-labeled peptide substrates for detection of protease activity based on the inherent fluorescence quenching ability of Cu2+. Analytical Methods, 2019, 11, 1248-1253.	1.3	11
89	Heterogeneous sensing of post-translational modification enzymes by integrating the advantage of homogeneous analysis. Talanta, 2022, 237, 122949.	2.9	11
90	Synthesis of Water-Dispersed Ferrecene/Phenylboronic Acid-Modified Bifunctional Gold Nanoparticles and the Application in Biosensing. Materials, 2014, 7, 5554-5564.	1.3	9

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91	Amplified voltammetric detection of glycoproteins using 4-mercaptophenylboronic acid/biotin-modified multifunctional gold nanoparticles as labels. International Journal of Nanomedicine, 2014, 9, 2619.	3.3	8
92	Competitive impedimetric aptasensors for detection of small molecule pollutants by the signal amplification of self-assembled biotin-phenylalanine nanoparticle networks. Electrochemistry Communications, 2020, 118, 106791.	2.3	8
93	In Situ Assembly of Nanomaterials and Molecules for the Signal Enhancement of Electrochemical Biosensors. Nanomaterials, 2021, 11, 3307.	1.9	8
94	A novel nanomachined flow channel glucose sensor based on an alumina membrane. Analytical Methods, 2013, 5, 7022.	1.3	7
95	<i>In situ</i> preparation of Au or Ag nanoparticles in the presence of hyperbranched poly(amidoamine)s with hydrophobic endâ€groups as nanoreactors and reductants. Polymer Composites, 2013, 34, 526-530.	2.3	7
96	A Benzothiazole-based Ratiometric Fluorescent Probe for Benzoyl Peroxide and Its Applications for Living Cells Imaging. Analytical Sciences, 2019, 35, 91-97.	0.8	7
97	Electrochemical Detection of Hydrogen Peroxide by Inhibiting the p-Benzenediboronic Acid-Triggered Assembly of Citrate-Capped Au/Ag Nanoparticles on Electrode Surface. Materials, 2017, 10, 40.	1.3	6
98	A Turn-On Fluorescent Probe for Sensitive Detection of Cysteine in a Fully Aqueous Environment and in Living Cells. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-8.	0.7	6
99	Impedimetric Detection of MicroRNAs by the Signal Amplification of Streptavidin Induced In Situ Formation of Biotin Phenylalanine Nanoparticle Networks. Journal of the Electrochemical Society, 2020, 167, 117505.	1.3	6
100	A copper complex formed with neurokinin B: binding stoichiometry, redox properties, self-assembly and cytotoxicity. Metallomics, 2020, 12, 1802-1810.	1.0	5
101	Surface-tethered electrochemical biosensor for telomerase detection by integration of homogeneous extension and hybridization reactions. Talanta, 2023, 253, 123597.	2.9	5
102	Voltammetric Investigation of Zinc Release from Metallothioneins Modulated by the Glutathione Redox Couple and Separated with a Porous Membrane. Electroanalysis, 2008, 20, 2253-2258.	1.5	4
103	Electrochemical Immunosensors with PQQ-Decorated Carbon Nanotubes as Signal Labels for Electrocatalytic Oxidation of Tris(2-carboxyethyl)phosphine. Nanomaterials, 2021, 11, 1757.	1.9	4
104	Bismuthâ€Coated Reticulated Vitreous Carbon and Bismuthâ€Coated Glassy Carbon Electrodes for Onâ€Line Coupling of ASV with ICPâ€MS. Electroanalysis, 2010, 22, 1476-1482.	1.5	3
105	Accurate determination of the thiol-to-metal ratio in metalloproteins by on-line combination of UV-vis spectrophotometry with electrochemistry. RSC Advances, 2012, 2, 8729.	1.7	2
106	Fluorescent Immunoassay with a Copper Polymer as the Signal Label for Catalytic Oxidation of O-Phenylenediamine. Molecules, 2022, 27, 3675.	1.7	2
107	Metal Release from and Sequestration by Metallothioneins Monitored by Electrochemistry and SPR. Current Pharmaceutical Biotechnology, 2011, 12, 847-852.	0.9	1