Jianshe Huang

List of Publications by Year
in descending order

63 papers	4,349 citations	109137 35 h-index	118652 62 g-index
63 all docs	63 docs citations	63 times ranked	5284 citing authors

#	Article	IF	Citations
1	Simultaneous electrochemical determination of dopamine, uric acid and ascorbic acid using palladium nanoparticle-loaded carbon nanofibers modified electrode. Biosensors and Bioelectronics, 2008, 24, 632-637.	5.3	608
2	Simultaneous determination of dopamine, ascorbic acid and uric acid at electrochemically reduced graphene oxide modified electrode. Sensors and Actuators B: Chemical, 2014, 193, 166-172.	4.0	408
3	Electrospun Palladium Nanoparticleâ€Loaded Carbon Nanofibers and Their Electrocatalytic Activities towards Hydrogen Peroxide and NADH. Advanced Functional Materials, 2008, 18, 441-448.	7.8	281
4	Carbon nanofiber based electrochemical biosensors: A review. Analytical Methods, 2010, 2, 202.	1.3	233
5	Au and Au-Based nanomaterials: Synthesis and recent progress in electrochemical sensor applications. Talanta, 2020, 206, 120210.	2.9	213
6	Simultaneous determination of dopamine, ascorbic acid and uric acid with electrospun carbon nanofibers modified electrode. Electrochemistry Communications, 2008, 10, 1431-1434.	2.3	194
7	Simultaneous determination of catechol and hydroquinone using electrospun carbon nanofibers modified electrode. Sensors and Actuators B: Chemical, 2012, 163, 179-185.	4.0	175
8	Electrochemical Detection of Hydrazine Based on Electrospun Palladium Nanoparticle/Carbon Nanofibers. Electroanalysis, 2009, 21, 1869-1874.	1.5	115
9	Ultrasensitive Immunosensor for Cardiac Troponin I Detection Based on the Electrochemiluminescence of 2D Ru-MOF Nanosheets. Analytical Chemistry, 2019, 91, 10156-10163.	3.2	108
10	Dual-Wavelength Ratiometric Electrochemiluminescence Immunosensor for Cardiac Troponin I Detection. Analytical Chemistry, 2019, 91, 1524-1531.	3.2	105
11	Fine Co Nanoparticles Encapsulated in a N-Doped Porous Carbon Matrix with Superficial N-Doped Porous Carbon Nanofibers for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2017, 9, 21747-21755.	4.0	98
12	Ratiometric Electrochemiluminescent/Electrochemical Strategy for Sensitive Detection of MicroRNA Based on Duplex-Specific Nuclease and Multilayer Circuit of Catalytic Hairpin Assembly. Analytical Chemistry, 2020, 92, 8614-8622.	3.2	70
13	A Novel Electrochemiluminescence Immunosensor for the Analysis of HIV-1 p24 Antigen Based on P-RGO@Au@Ru-SiO₂ Composite. ACS Applied Materials & Interfaces, 2015, 7, 24438-24445.	4.0	69
14	Facile synthesis of composition-tunable PtRh nanosponges for methanol oxidation reaction. Electrochimica Acta, 2018, 266, 305-311.	2.6	69
15	Highly efficient electrocatalytic oxidation of formic acid by electrospun carbon nanofiber-supported PtxAu100â"x bimetallic electrocatalyst. Electrochemistry Communications, 2009, 11, 1281-1284.	2.3	68
16	Electrochemical Immunosensor for Cardiac Troponin I Detection Based on Covalent Organic Framework and Enzyme-Catalyzed Signal Amplification. Analytical Chemistry, 2021, 93, 13572-13579.	3.2	68
17	Holey nitrogen-doped graphene aerogel for simultaneously electrochemical determination of ascorbic acid, dopamine and uric acid. Talanta, 2021, 224, 121851.	2.9	67
18	Electrochemical determination of oxalic acid using palladium nanoparticle-loaded carbon nanofiber modified electrode. Analytical Methods, 2010, 2, 855.	1.3	62

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19	Electrochemiluminescence Biosensor Based on Entropy-Driven Amplification and a Tetrahedral DNA Nanostructure for miRNA-133a Detection. Analytical Chemistry, 2021, 93, 11809-11815.	3.2	61
20	Facile Synthesis of Dendritic Gold Nanostructures with Hyperbranched Architectures and Their Electrocatalytic Activity toward Ethanol Oxidation. ACS Applied Materials & Interfaces, 2013, 5, 9148-9154.	4.0	58
21	One-pot synthesis of interconnected Pt95Co5 nanowires with enhanced electrocatalytic performance for methanol oxidation reaction. Nano Research, 2018, 11, 2562-2572.	5.8	56
22	Bio-inspired FeN₅ moieties anchored on a three-dimensional graphene aerogel to improve oxygen reduction catalytic performance. Journal of Materials Chemistry A, 2018, 6, 18488-18497.	5.2	53
23	Preparation of Silica-Encapsulated Hollow Gold Nanosphere Tags Using Layer-by-Layer Method for Multiplex Surface-Enhanced Raman Scattering Detection. Langmuir, 2011, 27, 10228-10233.	1.6	50
24	In situ synthesis of Pt/carbon nanofiber nanocomposites with enhanced electrocatalytic activity toward methanol oxidation. Journal of Colloid and Interface Science, 2012, 367, 199-203.	5.0	50
25	Dual amplification ratiometric biosensor based on a DNA tetrahedron nanostructure and hybridization chain reaction for the ultrasensitive detection of microRNA-133a. Chemical Communications, 2019, 55, 11551-11554.	2.2	50
26	Synthesis and electrocatalytic activity of Au/Pt bimetallic nanodendrites for ethanol oxidation in alkaline medium. Journal of Colloid and Interface Science, 2012, 367, 342-347.	5.0	48
27	Electrochemiluminescence Immunosensor Based on Au Nanocluster and Hybridization Chain Reaction Signal Amplification for Ultrasensitive Detection of Cardiac Troponin I. ACS Sensors, 2019, 4, 2778-2785.	4.0	48
28	Highly Luminescent and Self-Enhanced Electrochemiluminescence of Tris(bipyridine) Ruthenium(II) Nanohybrid and Its Sensing Application for Label-Free Detection of MicroRNA. Analytical Chemistry, 2019, 91, 13237-13243.	3.2	47
29	Simultaneous electrochemical determination of dihydroxybenzene isomers using electrospun nitrogen-doped carbon nanofiber film electrode. Sensors and Actuators B: Chemical, 2016, 224, 568-576.	4.0	46
30	An electric potential modulated cascade of catalyzed hairpin assembly and rolling chain amplification for microRNA detection. Biosensors and Bioelectronics, 2019, 126, 565-571.	5.3	46
31	An electrochemical sensor for sensitive detection of dopamine based on a COF/Pt/MWCNTâ€“COOH nanocomposite. Chemical Communications, 2022, 58, 6092-6095.	2.2	46
32	Ultrafast growth of dendritic gold nanostructures and their applications in methanol electro-oxidation and surface-enhanced Raman scattering. Journal of Colloid and Interface Science, 2011, 354, 577-584.	5.0	43
33	Highly sensitive composite electrode based on electrospun carbon nanofibers and ionic liquid. Electrochemistry Communications, 2010, 12, 1108-1111.	2.3	41
34	Label-Free and Regenerable Aptasensor for Real-Time Detection of Cadmium(II) by Dual Polarization Interferometry. Analytical Chemistry, 2020, 92, 10007-10015.	3.2	40
35	Determination of Atenolol and Metoprolol by Capillary Electrophoresis with Tris(2,2'-bipyridyl)ruthenium(II) Electrochemiluminescence Detection. Analytical Sciences, 2007, 23, 183-188.	0.8	35
36	Large-Scale and Template-Free Growth of Free-Standing Single-Crystalline Dendritic Ag/Pd Alloy Nanostructure Arrays. Crystal Growth and Design, 2009, 9, 4351-4355.	1.4	35

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37	Enhanced electrochemiluminescence based on Ru(bpy)32+-doped silica nanoparticles and graphene composite for analysis of melamine in milk. Analytica Chimica Acta, 2014, 824, 57-63.	2.6	32
38	A dual-amplification mode and Cu-based metal-organic frameworks mediated electrochemical biosensor for sensitive detection of microRNA. Biosensors and Bioelectronics, 2022, 202, 113992.	5.3	32
39	A novel self-enhanced electrochemiluminescence immunosensor based on hollow Ru-SiO2@PEI nanoparticles for NSE analysis. Scientific Reports, 2016, 6, 22234.	1.6	31
40	Sensitive and Programmable â€œSignal-Offâ€•Electrochemiluminescence Sensing Platform Based on Cascade Amplification and Multiple Quenching Mechanisms. Analytical Chemistry, 2021, 93, 2644-2651.	3.2	30
41	Label-Free and Sensitive Electrochemical Biosensor for Amplification Detection of Target Nucleic Acids Based on Transduction Hairpins and Three-Leg DNAzyme Walkers. Analytical Chemistry, 2021, 93, 8962-8970.	3.2	29
42	Self-Enhanced Chemiluminescence of Tris(bipyridine) Ruthenium(II) Derivative Nanohybrids: Mechanism Insight and Application for Sensitive Silver Ions Detection. Analytical Chemistry, 2020, 92, 7265-7272.	3.2	27
43	A thiamine-triggered fluormetric assay for acetylcholinesterase activity and inhibitor screening based on oxidase-like activity of MnO2 nanosheets. Talanta, 2021, 221, 121362.	2.9	27
44	A novel technique for NACE coupled with simultaneous electrochemiluminescence and electrochemical detection for fast analysis of tertiary amines. Electrophoresis, 2009, 30, 479-486.	1.3	26
45	N-(Aminobutyl)-N-(ethylisoluminol)-functionalized gold nanoparticles on cobalt disulfide nanowire hybrids for the non-enzymatic chemiluminescence detection of H₂O₂. Nanoscale, 2018, 10, 14847-14851.	2.8	26
46	A ratiometric electrochemiluminescence strategy based on two-dimensional nanomaterial-nucleic acid interactions for biosensing and logic gates operation. Biosensors and Bioelectronics, 2021, 178, 113022.	5.3	23
47	Electrochemistry and Electrochemiluminescence of Coumarin Derivative Microrods: Mechanism Insights. Analytical Chemistry, 2021, 93, 3461-3469.	3.2	20
48	Label-free immunosensor for cardiac troponin I detection based on aggregation-induced electrochemiluminescence of a distyrylarylene derivative. Biosensors and Bioelectronics, 2021, 192, 113532.	5.3	20
49	Real-Time Study of the Interaction between G-Rich DNA Oligonucleotides and Lead Ion on DNA Tetrahedron-Functionalized Sensing Platform by Dual Polarization Interferometry. ACS Applied Materials & Interfaces, 2017, 9, 41568-41576.	4.0	19
50	Identification of Herb Acanthopanax senticosus (Rupr. Et Maxim.) Harms by Capillary Electrophoresis with Electrochemical Detection. Analytical Sciences, 2007, 23, 705-711.	0.8	16
51	Cu2+ enhanced chemiluminescence of carbon dots-H2O2 system in alkaline solution. Talanta, 2020, 208, 120380.	2.9	16
52	An intensive and glow-type chemiluminescence of luminol-embedded, guanosine-derived hydrogel. Talanta, 2021, 230, 122351.	2.9	16
53	Simultaneous determination of three Î²-blockers at a carbon nanofiber paste electrode by capillary electrophoresis coupled with amperometric detection. Talanta, 2012, 97, 462-467.	2.9	15
54	Analysis of perphenazine and fluphenazine by capillary electrophoresis coupled with tris (2,2â€²-bipyridyl) ruthenium (II) electrochemiluminescence detection. Talanta, 2014, 118, 1-6.	2.9	15

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55	A composite made from palladium nanoparticles and carbon nanofibers for superior electrocatalytic oxidation of formic acid. Mikrochimica Acta, 2014, 181, 797-803.	2.5	13
56	Label-free Pb2+ detection on the layer-by-layer platform using real-time dual polarization interferometry. Talanta, 2019, 202, 336-341.	2.9	9
57	Electrospun Nanofibers: From Rational Design, Fabrication to Electrochemical Sensing Applications. , 0, , .		8
58	Establishment of Logic Gates Based on Conformational Changes in a Multiple-Factor Biomolecule Interaction Process by Dual Polarization Interferometry. Analytical Chemistry, 2019, 91, 6971-6975.	3.2	8
59	Facile synthesis and electrochemical properties of octahedral gold nanocrystals. Journal of Nanoparticle Research, 2011, 13, 157-163.	0.8	7
60	Novel electrochemiluminescence solid-state pH sensor based on an i-motif forming sequence and rolling circle amplification. Chemical Communications, 2020, 56, 8786-8789.	2.2	7
61	On-line focusing of 5-hydroxy-tryptamine type 3 receptor antagonists via the combination of field-enhanced sample injection and dynamic pH junction in capillary electrophoresis with amperometric detection. Journal of Chromatography A, 2014, 1331, 117-122.	1.8	6
62	Real-Time Analysis of Specific Binding between Apolipoprotein E Isoforms and Amyloid Î²-Peptide by Dual Polarization Interferometry. Analytical Chemistry, 2021, 93, 1472-1479.	3.2	6
63	Dual polarization interferometry (DPI): a new tool in studying the biomolecular interaction. Scientia Sinica Chimica, 2018, 48, 852-865.	0.2	1