Xi-Liang Luo

List of Publications by Year
in descending order

306 papers	17,166 citations	12322 69 h-index	22808 112 g-index
308 all docs	308 docs citations	308 times ranked	16688 citing authors

#	Article	IF	Citations
1	Application of Nanoparticles in Electrochemical Sensors and Biosensors. Electroanalysis, 2006, 18, 319-326.	1.5	1,158
2	Electrical biosensors and the label free detection of protein disease biomarkers. Chemical Society Reviews, 2013, 42, 5944.	18.7	381
3	A glucose biosensor based on chitosanâ€“glucose oxidaseâ€“gold nanoparticles biocomposite formed by one-step electrodeposition. Analytical Biochemistry, 2004, 334, 284-289.	1.1	369
4	Electrically Controlled Drug Delivery from Graphene Oxide Nanocomposite Films. ACS Nano, 2014, 8, 1834-1843.	7.3	356
5	Antifouling Strategies for Selective In Vitro and In Vivo Sensing. Chemical Reviews, 2020, 120, 3852-3889.	23.0	325
6	Emerging Pt-based electrocatalysts with highly open nanoarchitectures for boosting oxygen reduction reaction. Nano Today, 2018, 21, 91-105.	6.2	285
7	Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. Accounts of Chemical Research, 2018, 51, 1764-1773.	7.6	277
8	Electrochemically deposited chitosan hydrogel for horseradish peroxidase immobilization through gold nanoparticles self-assembly. Biosensors and Bioelectronics, 2005, 21, 190-196.	5.3	265
9	Highly stable carbon nanotube doped poly(3,4-ethylenedioxythiophene) for chronic neural stimulation. Biomaterials, 2011, 32, 5551-5557.	5.7	225
10	Electrochemically deposited nanocomposite of chitosan and carbon nanotubes for biosensor application. Chemical Communications, 2005, , 2169.	2.2	219
11	Carbon nanotube nanoreservior for controlled release of anti-inflammatory dexamethasone. Biomaterials, 2011, 32, 6316-6323.	5.7	216
12	A simple method to fabricate a chitosan-gold nanoparticles film and its application in glucose biosensor. Bioelectrochemistry, 2007, 70, 342-347.	2.4	203
13	A novel glucose ENFET based on the special reactivity of MnO2 nanoparticles. Biosensors and Bioelectronics, 2004, 19, 1295-1300.	5.3	195
14	An optimised electrochemical biosensor for the label-free detection of C-reactive protein in blood. Biosensors and Bioelectronics, 2013, 39, 94-98.	5.3	192
15	Oxygen vacancies confined in ultrathin nickel oxide nanosheets for enhanced electrocatalytic methanol oxidation. Applied Catalysis B: Environmental, 2019, 244, 1096-1102.	10.8	180
16	PEGylated Polyaniline Nanofibers: Antifouling and Conducting Biomaterial for Electrochemical DNA Sensing. ACS Applied Materials & Interfaces, 2017, 9, 2914-2923.	4.0	179
17	Enhanced catalytic and dopamine sensing properties of electrochemically reduced conducting polymer nanocomposite doped with pure graphene oxide. Biosensors and Bioelectronics, 2014, 58, 153-156.	5.3	176
18	Porous Organic Frameworks: Advanced Materials in Analytical Chemistry. Advanced Science, 2018, 5, 1801116.	5.6	162

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19	Nanomaterial-doped conducting polymers for electrochemical sensors and biosensors. Journal of Materials Chemistry B, 2018, 6, 4173-4190.	2.9	148
20	A novel electrochemical immunosensor for highly sensitive detection of prostate-specific antigen using 3D open-structured PtCu nanoframes for signal amplification. Biosensors and Bioelectronics, 2019, 126, 187-192.	5.3	144
21	Development of Sulfonicâ€Acidâ€Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. Chemistry - A European Journal, 2019, 25, 1614-1635.	1.7	139
22	Mixed Self-Assembled Aptamer and Newly Designed Zwitterionic Peptide as Antifouling Biosensing Interface for Electrochemical Detection of alpha-Fetoprotein. ACS Sensors, 2017, 2, 490-494.	4.0	130
23	Enhancement of a conducting polymer-based biosensor using carbon nanotube-doped polyaniline. Analytica Chimica Acta, 2006, 575, 39-44.	2.6	129
24	The label free picomolar detection of insulin in blood serum. Biosensors and Bioelectronics, 2013, 39, 21-25.	5.3	124
25	Polydopamine Nanosphere/Gold Nanocluster (Au NC)-Based Nanoplatform for Dual Color Simultaneous Detection of Multiple Tumor-Related MicroRNAs with DNase-I-Assisted Target Recycling Amplification. Analytical Chemistry, 2018, 90, 4039-4045.	3.2	122
26	Recent advancements in biocompatible inorganic nanoparticles towards biomedical applications. Biomaterials Science, 2018, 6, 726-745.	2.6	121
27	A review of ratiometric electrochemical sensors: From design schemes to future prospects. Sensors and Actuators B: Chemical, 2018, 274, 501-516.	4.0	118
28	A signal-on photoelectrochemical aptasensor for chloramphenicol assay based on 3D self-supporting AgI/Ag/BiOI Z-scheme heterojunction arrays. Biosensors and Bioelectronics, 2021, 181, 113158.	5.3	118
29	Zwitterionic peptide anchored to conducting polymer PEDOT for the development of antifouling and ultrasensitive electrochemical DNA sensor. Biosensors and Bioelectronics, 2017, 92, 396-401.	5.3	114
30	Glucose biosensor based on ENFET doped with SiO2 nanoparticles. Sensors and Actuators B: Chemical, 2004, 97, 249-255.	4.0	109
31	Rapid room-temperature fabrication of ultrathin Ni(OH)2 nanoflakes with abundant edge sites for efficient urea oxidation. Applied Catalysis B: Environmental, 2019, 259, 118020.	10.8	108
32	A highly sensitive biosensor for tumor maker alpha fetoprotein based on poly(ethylene glycol) doped conducting polymer PEDOT. Biosensors and Bioelectronics, 2016, 79, 736-741.	5.3	107
33	Electrochemical Aptasensor for Ultralow Fouling Cancer Cell Quantification in Complex Biological Media Based on Designed Branched Peptides. Analytical Chemistry, 2019, 91, 8334-8340.	3.2	106
34	Reagentless Glucose Biosensor Based on the Direct Electrochemistry of Glucose Oxidase on Carbon Nanotube-Modified Electrodes. Electroanalysis, 2006, 18, 1131-1134.	1.5	102
35	A Glucose-Assisted Hydrothermal Reaction for Directly Transforming Metalâ€“Organic Frameworks into Hollow Carbonaceous Materials. Chemistry of Materials, 2018, 30, 4401-4408.	3.2	102
36	High-activity Fe3O4 nanozyme as signal amplifier: A simple, low-cost but efficient strategy for ultrasensitive photoelectrochemical immunoassay. Biosensors and Bioelectronics, 2019, 127, 64-71.	5.3	102

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37	Electrochemical Biosensor with Enhanced Antifouling Capability for COVID-19 Nucleic Acid Detection in Complex Biological Media. Analytical Chemistry, 2021, 93, 5963-5971.	3.2	102
38	Pure graphene oxide doped conducting polymer nanocomposite for bio-interfacing. Journal of Materials Chemistry B, 2013, 1, 1340.	2.9	101
39	Detection of Cardiac Biomarkers Using Single Polyaniline Nanowire-Based Conductometric Biosensors. Biosensors, 2012, 2, 205-220.	2.3	100
40	A conducting polymer PEDOT:PSS hydrogel based wearable sensor for accurate uric acid detection in human sweat. Sensors and Actuators B: Chemical, 2021, 348, 130674.	4.0	99
41	Ultrasensitive Label Free Electrical Detection of Insulin in Neat Blood Serum. Analytical Chemistry, 2013, 85, 4129-4134.	3.2	98
42	Evaluation of poly(3,4-ethylenedioxythiophene)/carbon nanotube neural electrode coatings for stimulation in the dorsal root ganglion. Journal of Neural Engineering, 2015, 12, 016008.	1.8	98
43	Electrodeposited Conducting Polyaniline Nanowire Arrays Aligned on Carbon Nanotubes Network for High Performance Supercapacitors and Sensors. Electrochimica Acta, 2016, 199, 234-241.	2.6	98
44	Application of MnO2 nanoparticles as an eliminator of ascorbate interference to amperometric glucose biosensors. Electrochemistry Communications, 2004, 6, 1169-1173.	2.3	95
45	A prostate-specific antigen electrochemical immunosensor based on Pd NPs functionalized electroactive Co-MOF signal amplification strategy. Biosensors and Bioelectronics, 2019, 132, 97-104.	5.3	93
46	Molecularly imprinted electrochemical sensor for propyl gallate based on PtAu bimetallic nanoparticles modified grapheneâ€“carbon nanotube composites. Biosensors and Bioelectronics, 2015, 68, 563-569.	5.3	91
47	Highly sensitive single polyaniline nanowire biosensor for the detection of immunoglobulin G and myoglobin. Biosensors and Bioelectronics, 2011, 26, 3297-3302.	5.3	89
48	Electrodeposited conducting polymer PEDOT doped with pure carbon nanotubes for the detection of dopamine in the presence of ascorbic acid. Sensors and Actuators B: Chemical, 2013, 188, 405-410.	4.0	89
49	A label-free electrochemical DNA biosensor for breast cancer marker BRCA1 based on self-assembled antifouling peptide monolayer. Sensors and Actuators B: Chemical, 2017, 244, 742-749.	4.0	89
50	Low Fouling Protein Detection in Complex Biological Media Supported by a Designed Multifunctional Peptide. ACS Sensors, 2018, 3, 1210-1216.	4.0	89
51	Low fouling label-free DNA sensor based on polyethylene glycols decorated with gold nanoparticles for the detection of breast cancer biomarkers. Biosensors and Bioelectronics, 2015, 71, 51-56.	5.3	87
52	Ratiometric Antifouling Electrochemical Biosensors Based on Multifunctional Peptides and MXene Loaded with Au Nanoparticles and Methylene Blue. ACS Applied Materials & Interfaces, 2021, 13, 20388-20396.	4.0	86
53	A sensitive biosensor for lactate based on layer-by-layer assembling MnO2 nanoparticles and lactate oxidase on ion-sensitive field-effect transistors. Chemical Communications, 2005, , 792.	2.2	85
54	Electrochemical deposition of conducting polymer coatings on magnesium surfaces in ionic liquid. Acta Biomaterialia, 2011, 7, 441-446.	4.1	84

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55	Antifouling aptasensor for the detection of adenosine triphosphate in biological media based on mixed self-assembled aptamer and zwitterionic peptide. Biosensors and Bioelectronics, 2018, 101, 129-134.	5.3	84
56	Universal Design of Selectivity-Enhanced Photoelectrochemical Enzyme Sensor: Integrating Photoanode with Biocathode. Analytical Chemistry, 2018, 90, 10681-10687.	3.2	84
57	Electrochemiluminescence Energy Resonance Transfer System between RuSi Nanoparticles and Hollow Au Nanocages for Nucleic Acid Detection. Analytical Chemistry, 2018, 90, 10434-10441.	3.2	84
58	Fe-doped Ag2S with excellent peroxidase-like activity for colorimetric determination of H2O2. Journal of Alloys and Compounds, 2019, 785, 1189-1197.	2.8	84
59	Nickel nanoparticles modified conducting polymer composite of reduced graphene oxide doped poly(3,4-ethylenedioxythiophene) for enhanced nonenzymatic glucose sensing. Sensors and Actuators B: Chemical, 2015, 221, 606-613.	4.0	83
60	Fabrication of BSA@AuNC-Based Nanostructures for Cell Fluoresce Imaging and Target Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 8947-8954.	4.0	83
61	Nanocomposite and Nanoporous Polyaniline Conducting Polymers Exhibit Enhanced Catalysis of Nitrite Reduction. Chemistry - A European Journal, 2007, 13, 2138-2143.	1.7	81
62	Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. Analytical Chemistry, 2018, 90, 10024-10030.	3.2	81
63	Low fouling strategies for electrochemical biosensors targeting disease biomarkers. Analytical Methods, 2019, 11, 702-711.	1.3	81
64	Sponge-like nanostructured conducting polymers for electrically controlled drug release. Electrochemistry Communications, 2009, 11, 1956-1959.	2.3	79
65	Electrochemical determination of paracetamol based on Au@graphene core-shell nanoparticles doped conducting polymer PEDOT nanocomposite. Sensors and Actuators B: Chemical, 2018, 260, 778-785.	4.0	78
66	Three dimensional sea-urchin-like PdAuCu nanocrystals/ferrocene-grafted-polylysine as an efficient probe to amplify the electrochemical signals for ultrasensitive immunoassay of carcinoembryonic antigen. Biosensors and Bioelectronics, 2019, 132, 294-301.	5.3	77
67	A graphene oxide/conducting polymer nanocomposite for electrochemical dopamine detection: origin of improved sensitivity and specificity. Journal of Materials Chemistry B, 2014, 2, 5209-5219.	2.9	76
68	Dual-Mode Electrochemical Assay of Prostate-Specific Antigen Based on Antifouling Peptides Functionalized with Electrochemical Probes and Internal References. Analytical Chemistry, 2019, 91, 15846-15852.	3.2	73
69	Electrochemical Biosensors Capable of Detecting Biomarkers in Human Serum with Unique Long-Term Antifouling Abilities Based on Designed Multifunctional Peptides. Analytical Chemistry, 2020, 92, 7186-7193.	3.2	73
70	The robust electrochemical detection of a Parkinson's disease marker in whole blood sera. Chemical Science, 2012, 3, 3468.	3.7	72
71	Electrochemically controlled release based on nanoporous conducting polymers. Electrochemistry Communications, 2009, 11, 402-404.	2.3	71
72	Embedded Au Nanoparticles-Based Ratiometric Electrochemical Sensing Strategy for Sensitive and Reliable Detection of Copper Ions. Analytical Chemistry, 2019, 91, 12006-12013.	3.2	70

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73	Antifouling Peptide Hydrogel Based Electrochemical Biosensors for Highly Sensitive Detection of Cancer Biomarker HER2 in Human Serum. Analytical Chemistry, 2021, 93, 7355-7361.	3.2	70
74	A novel label-free electrochemical immunosensor for ultra-sensitively detecting prostate specific antigen based on the enhanced catalytic currents of oxygen reduction catalyzed by core-shell Au@Pt nanocrystals. Biosensors and Bioelectronics, 2018, 102, 276-281.	5.3	69
75	Ascorbic acid sensor based on ion-sensitive field-effect transistor modified with MnO2 nanoparticles. Analytica Chimica Acta, 2004, 512, 57-61.	2.6	68
76	Carbon nanotube doped poly(3,4-ethylenedioxythiophene) for the electrocatalytic oxidation and detection of hydroquinone. Sensors and Actuators B: Chemical, 2013, 176, 69-74.	4.0	68
77	Mixed Self-Assembly of Polyethylene Glycol and Aptamer on Polydopamine Surface for Highly Sensitive and Low-Fouling Detection of Adenosine Triphosphate in Complex Media. ACS Applied Materials & Interfaces, 2017, 9, 31153-31160.	4.0	67
78	Electrochemical synthesis of poly(3,4-ethylenedioxythiophene) doped with gold nanoparticles, and its application to nitrite sensing. Mikrochimica Acta, 2016, 183, 1235-1241.	2.5	65
79	Perylene diimide-functionalized CeO2 nanocomposite as a peroxidase mimic for colorimetric determination of hydrogen peroxide and glutathione. Mikrochimica Acta, 2019, 186, 332.	2.5	64
80	Gold nanoparticles and polyethylene glycols functionalized conducting polyaniline nanowires for ultrasensitive and low fouling immunosensing of alpha-fetoprotein. Biosensors and Bioelectronics, 2016, 86, 143-149.	5.3	63
81	Ultrasensitive and selective voltammetric aptasensor for dopamine based on a conducting polymer nanocomposite doped with graphene oxide. Mikrochimica Acta, 2015, 182, 1123-1129.	2.5	62
82	Coupling photoelectrochemical and electrochemical strategies in one probe electrode: Toward sensitive and reliable dual-signal bioassay for uracil-DNA glycosylase activity. Biosensors and Bioelectronics, 2019, 142, 111569.	5.3	62
83	Ultrathin nickel hydroxide nanosheets with a porous structure for efficient electrocatalytic urea oxidation. Journal of Materials Chemistry A, 2019, 7, 26364-26370.	5.2	62
84	A photoelectrochemical sensor for ultrasensitive dopamine detection based on single-layer NanoMoS2 modified gold electrode. Sensors and Actuators B: Chemical, 2017, 249, 83-89.	4.0	61
85	A morphology-based ultrasensitive multicolor colorimetric assay for detection of blood glucose by enzymatic etching of plasmonic gold nanobipyramids. Analytica Chimica Acta, 2019, 1071, 53-58.	2.6	61
86	Toward DNA electrochemical sensing by free-standing ZnO nanosheets grown on 2D thin-layered MoS2. Biosensors and Bioelectronics, 2017, 89, 538-544.	5.3	60
87	Aptamer induced multicoloured Au NCs-MoS2 â€œswitch onâ€•fluorescence resonance energy transfer biosensor for dual color simultaneous detection of multiple tumor markers by single wavelength excitation. Analytica Chimica Acta, 2017, 983, 173-180.	2.6	60
88	Ratiometric Electrogenerated Chemiluminescence Cytosensor Based on Conducting Polymer Hydrogel Loaded with Internal Standard Molecules. Analytical Chemistry, 2019, 91, 983-989.	3.2	59
89	Graphene oxide doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for high performance nonenzymatic sensing of glucose. Journal of Materials Chemistry B, 2015, 3, 556-561.	2.9	58
90	Designed antifouling peptides planted in conducting polymers through controlled partial doping for electrochemical detection of biomarkers in human serum. Biosensors and Bioelectronics, 2020, 164, 112317.	5.3	58

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91	Nitrogen doped carbon dots: mechanism investigation and their application for label free CA125 analysis. Journal of Materials Chemistry B, 2019, 7, 3053-3058.	2.9	57
92	Signal amplified strategy based on target-induced strand release coupling cleavage of nicking endonuclease for the ultrasensitive detection of ochratoxin A. Biosensors and Bioelectronics, 2013, 39, 145-151.	5.3	56
93	A facile ratiometric electrochemical strategy for ultrasensitive monitoring HER2 using polydopamine-grafted-ferrocene/reduced graphene oxide, Au@Ag nanoshuttles and hollow Ni@PtNi yolk-shell nanocages. Sensors and Actuators B: Chemical, 2021, 331, 129460.	4.0	56
94	Redox and Label-Free Array Detection of Protein Markers in Human Serum. Analytical Chemistry, 2014, 86, 5553-5558.	3.2	55
95	Sensitive SERS detection of miRNA via enzyme-free DNA machine signal amplification. Chemical Communications, 2016, 52, 10269-10272.	2.2	55
96	Nitrogen-doped graphene and conducting polymer PEDOT hybrids for flexible supercapacitor and electrochemical sensor. Electrochimica Acta, 2020, 355, 136772.	2.6	55
97	Enhanced electrochemical biosensing of alpha-fetoprotein based on three-dimensional macroporous conducting polymer polyaniline. Sensors and Actuators B: Chemical, 2018, 255, 2568-2574.	4.0	54
98	Well-dispersed Co3Fe7 alloy nanoparticles wrapped in N-doped defect-rich carbon nanosheets as a highly efficient and methanol-resistant catalyst for oxygen-reduction reaction. Journal of Colloid and Interface Science, 2020, 569, 277-285.	5.0	54
99	Highly sensitive label-free amperometric immunoassay of prostate specific antigen using hollow dendritic AuPtAg alloyed nanocrystals. Biosensors and Bioelectronics, 2018, 111, 47-51.	5.3	53
100	Low fouling electrochemical biosensors based on designed Y-shaped peptides with antifouling and recognizing branches for the detection of IgG in human serum. Biosensors and Bioelectronics, 2021, 178, 113016.	5.3	53
101	A polypeptide-mediated synthesis of green fluorescent gold nanoclusters for Fe3+ sensing and bioimaging. Journal of Colloid and Interface Science, 2017, 506, 386-392.	5.0	52
102	Gold Nanobipyramids as Dual-Functional Substrates for in Situ â€œTurn Onâ€•Analyzing Intracellular Telomerase Activity Based on Target-Triggered Plasmon-Enhanced Fluorescence. ACS Applied Materials & Interfaces, 2018, 10, 26851-26858.	4.0	52
103	Near infrared fluorescent dual ligand functionalized Au NCs based multidimensional sensor array for pattern recognition of multiple proteins and serum discrimination. Biosensors and Bioelectronics, 2017, 97, 203-207.	5.3	51
104	Patchy gold coated Fe3O4 nanospheres with enhanced catalytic activity applied for paper-based bipolar electrode-electrochemiluminescence aptasensors. Biosensors and Bioelectronics, 2018, 114, 44-51.	5.3	51
105	Ultrasensitive label-free electrochemical immunoassay of carbohydrate antigen 15-3 using dendritic Au@Pt nanocrystals/ferrocene-grafted-chitosan for efficient signal amplification. Sensors and Actuators B: Chemical, 2019, 292, 164-170.	4.0	51
106	Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. Sensors and Actuators B: Chemical, 2020, 305, 127329.	4.0	50
107	CdZnTeS quantum dots based electrochemiluminescent image immunoanalysis. Biosensors and Bioelectronics, 2018, 117, 145-152.	5.3	49
108	Ultrahighly Efficient and Stable Fluorescent Gold Nanoclusters Coated with Screened Peptides of Unique Sequences for Effective Protein and Serum Discrimination. Analytical Chemistry, 2019, 91, 13947-13952.	3.2	48

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109	Designed Three-in-One Peptides with Anchoring, Antifouling, and Recognizing Capabilities for Highly Sensitive and Low-Fouling Electrochemical Sensing in Complex Biological Media. Analytical Chemistry, 2020, 92, 5795-5802.	3.2	48
110	Anti-Fouling Magnetic Beads Combined with Signal Amplification Strategies for Ultra-Sensitive and Selective Electrochemiluminescence Detection of MicroRNAs in Complex Biological Media. Analytical Chemistry, 2021, 93, 10679-10687.	3.2	48
111	Poly(3,4-ethylenedioxythiophene)-ionic liquid coating improves neural recording and stimulation functionality of MEAs. Journal of Materials Chemistry C, 2015, 3, 6515-6524.	2.7	47
112	Simple one-pot aqueous synthesis of 3D superstructured PtCoCuPd alloyed tripods with hierarchical branches for ultrasensitive immunoassay of cardiac troponin I. Biosensors and Bioelectronics, 2019, 145, 111638.	5.3	47
113	Antifouling and ultrasensitive biosensing interface based on self-assembled peptide and aptamer on macroporous gold for electrochemical detection of immunoglobulin E in serum. Analytical and Bioanalytical Chemistry, 2018, 410, 5871-5878.	1.9	46
114	Ultrasensitive Nucleic Acid Assay Based on AIE-Active Polymer Dots with Excellent Electrochemiluminescence Stability. Analytical Chemistry, 2021, 93, 6857-6864.	3.2	46
115	More Symmetrical â€œHot Spotsâ€•Ensure Stronger Plasmon-Enhanced Fluorescence: From Au Nanorods to Nanostars. Analytical Chemistry, 2021, 93, 2480-2489.	3.2	46
116	Antifouling Electrochemical Biosensor Based on the Designed Functional Peptide and the Electrodeposited Conducting Polymer for CTC Analysis in Human Blood. Analytical Chemistry, 2022, 94, 2204-2211.	3.2	46
117	Ultrasensitive protein detection using an aptamer-functionalized single polyaniline nanowire. Chemical Communications, 2011, 47, 6368.	2.2	45
118	Rapid real-time electrical detection of proteins using single conducting polymer nanowire-based microfluidic aptasensor. Biosensors and Bioelectronics, 2011, 30, 306-309.	5.3	43
119	Electrochemical sensor for nitrobenzene based on carbon paste electrode modified with a poly(3,4-ethylenedioxythiophene) and carbon nanotube nanocomposite. Mikrochimica Acta, 2014, 181, 463-469.	2.5	43
120	Enhanced electropolymerization of poly(xanthurenic acid)â€“MoS₂ film for specific electrocatalytic detection of guanine and adenine. Journal of Materials Chemistry B, 2015, 3, 4884-4891.	2.9	43
121	Rapid synthesis of nitrogen doped carbon dots and their application as a label free sensor array for simultaneous discrimination of multiple proteins. Journal of Materials Chemistry B, 2017, 5, 8748-8753.	2.9	43
122	Ultrasensitive dual-signal ratiometric electrochemical aptasensor for neuron-specific enolase based on Au nanoparticles@Pd nanoclusters-poly(bismarck brown Y) and dendritic AuPt nanoassemblies. Sensors and Actuators B: Chemical, 2020, 311, 127931.	4.0	43
123	Analytical aspects of fet-based biosensors. Frontiers in Bioscience - Landmark, 2005, 10, 420.	3.0	42
124	Aptamer biosensor for dopamine based on a gold electrode modified with carbon nanoparticles and thionine labeled gold nanoparticles as probe. Mikrochimica Acta, 2015, 182, 1797-1802.	2.5	42
125	AuPt nanocrystals/polydopamine supported on open-pored hollow carbon nanospheres for a dual-signaling electrochemical ratiometric immunosensor towards h-FABP detection. Sensors and Actuators B: Chemical, 2021, 346, 130501.	4.0	42
126	Aptamer biosensor for highly sensitive and selective detection of dopamine using ubiquitous personal glucose meters. Sensors and Actuators B: Chemical, 2015, 209, 596-601.	4.0	40

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127	Low fouling electrochemical sensing in complex biological media by using the ionic liquid-doped conducting polymer PEDOT: application to voltammetric determination of dopamine. Mikrochimica Acta, 2019, 186, 220.	2.5	40
128	In situ electropolymerised silicaâ€“polyaniline coreâ€“shell structures: Electrode modification and enzyme biosensor enhancement. Electrochimica Acta, 2007, 52, 1865-1870.	2.6	39
129	Highly selective ratiometric electrogenerated chemiluminescence assay of DNA methyltransferase activity via polyaniline and anti-fouling peptide modified electrode. Biosensors and Bioelectronics, 2019, 142, 111553.	5.3	39
130	Bovine Serum Albumin-Cross-Linked Polyaniline Nanowires for Ultralow Fouling and Highly Sensitive Electrochemical Protein Quantification in Human Serum Samples. Analytical Chemistry, 2021, 93, 4326-4333.	3.2	39
131	Electrochemical preparation of distinct polyaniline nanostructures by surface charge control of polystyrene nanoparticle templates. Chemical Communications, 2007, , 3207.	2.2	38
132	A multicoloured Au NCs based cross-reactive sensor array for discrimination of multiple proteins. Journal of Materials Chemistry B, 2017, 5, 4207-4213.	2.9	38
133	Highâ€Performance Piezoâ€Electrocatalytic Sensing of Ascorbic Acid with Nanostructured Wurtzite Zinc Oxide. Advanced Materials, 2021, 33, e2105697.	11.1	38
134	Antifouling Aptasensor Based on Self-Assembled Loop-Closed Peptides with Enhanced Stability for CA125 Assay in Complex Biofluids. Analytical Chemistry, 2021, 93, 13555-13563.	3.2	37
135	Cost-effective preparation and sensing application of conducting polymer PEDOT/ionic liquid nanocomposite with excellent electrochemical properties. RSC Advances, 2015, 5, 20741-20746.	1.7	36
136	An antifouling electrochemical immunosensor for carcinoembryonic antigen based on hyaluronic acid doped conducting polymer PEDOT. RSC Advances, 2016, 6, 88411-88416.	1.7	36
137	Electrochemical biosensors for the detection of carcinoembryonic antigen with low fouling and high sensitivity based on copolymerized polydopamine and zwitterionic polymer. Sensors and Actuators B: Chemical, 2020, 319, 128253.	4.0	36
138	Photoelectrochemical dopamine sensor based on a gold electrode modified with SnSe nanosheets. Mikrochimica Acta, 2017, 184, 3333-3338.	2.5	35
139	Label-free electrochemical aptasensor for adenosine detection based on cascade signal amplification strategy. Biosensors and Bioelectronics, 2017, 90, 356-362.	5.3	35
140	Adenosine triphosphate responsive metalâ€“organic frameworks equipped with a DNA structure lock for construction of a ratiometric SERS biosensor. Chemical Communications, 2020, 56, 1413-1416.	2.2	35
141	Antifouling sensors based on peptides for biomarker detection. TrAC - Trends in Analytical Chemistry, 2020, 127, 115903.	5.8	35
142	Ultrasensitive ratiometric electrochemical immunoassay of N-terminal pro-B-type natriuretic peptide based on three-dimensional PtCoNi hollow multi-branches/ferrocene-grafted-ionic liquid and Co N C nanosheets. Sensors and Actuators B: Chemical, 2021, 326, 128794.	4.0	35
143	A Hostâ€“Guest Interaction-Based and Metalâ€“Organic Gel-Based Biosensor with Aggregation-Induced Electrochemiluminescence Enhancement for Methyltransferase Assay. Analytical Chemistry, 2021, 93, 2974-2981.	3.2	35
144	Dual ligand co-functionalized fluorescent gold nanoclusters for the â€œturn onâ€•sensing of glutathione in tumor cells. Journal of Materials Chemistry B, 2016, 4, 1270-1275.	2.9	34

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145	Cobalt and nickel bimetallic sulfide nanoparticles immobilized on montmorillonite demonstrating peroxidase-like activity for H₂O₂ detection. New Journal of Chemistry, 2018, 42, 18749-18758.	1.4	34
146	Separating photoanode from recognition events: toward a general strategy for a self-powered photoelectrochemical immunoassay with both high sensitivity and anti-interference capabilities. Chemical Communications, 2018, 54, 7062-7065.	2.2	34
147	One-pot enzyme- and indicator-free colorimetric sensing of glucose based on MnO2 nano-oxidizer. Sensors and Actuators B: Chemical, 2020, 304, 127304.	4.0	34
148	Preparation and electrochemical catalytic application of nanocrystalline cellulose doped poly(3,4-ethylenedioxythiophene) conducting polymer nanocomposites. RSC Advances, 2014, 4, 24328-24333.	1.7	33
149	Amperometric sensing of nitrite using a glassy carbon electrode modified with a multilayer consisting of carboxylated nanocrystalline cellulose and poly(diallyldimethyl ammonium) ions in a PEDOT host. Mikrochimica Acta, 2016, 183, 2031-2037.	2.5	33
150	A glassy carbon electrode modified with poly(3,4-ethylenedioxythiophene) doped with nano-sized hydroxyapatite for amperometric determination of nitrite. Mikrochimica Acta, 2017, 184, 1721-1727.	2.5	33
151	Aptamer based label free thrombin assay based on the use of silver nanoparticles incorporated into self-polymerized dopamine. Mikrochimica Acta, 2018, 185, 253.	2.5	33
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