Jing-Juan Xu

List of Publications by Year
in descending order

341 papers	21,463 citations	8755 77 h-index	16186 128 g-index
344 all docs	344 docs citations	344 times ranked	17334 citing authors

#	Article	IF	Citations
1	Photoelectrochemical bioanalysis: the state of the art. Chemical Society Reviews, 2015, 44, 729-741.	18.7	750
2	Photoelectrochemical DNA Biosensors. Chemical Reviews, 2014, 114, 7421-7441.	23.0	722
3	Energy Level Engineering of MoS₂ by Transition-Metal Doping for Accelerating Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 15479-15485.	6.6	713
4	Hot Electron of Au Nanorods Activates the Electrocatalysis of Hydrogen Evolution on MoS₂ Nanosheets. Journal of the American Chemical Society, 2015, 137, 7365-7370.	6.6	556
5	Two-photon excitation nanoparticles for photodynamic therapy. Chemical Society Reviews, 2016, 45, 6725-6741.	18.7	443
6	Dual-Wavelength Electrochemiluminescence Ratiometry Based on Resonance Energy Transfer between Au Nanoparticles Functionalized g-C₃N₄ Nanosheet and Ru(bpy)₃²⁺ for microRNA Detection. Analytical Chemistry, 2016, 88, 937-944.	3.2	297
7	Gold Nanoparticle Enhanced Electrochemiluminescence of CdS Thin Films for Ultrasensitive Thrombin Detection. Analytical Chemistry, 2011, 83, 4004-4011.	3.2	286
8	Ratiometric fluorescence, electrochemiluminescence, and photoelectrochemical chemo/biosensing based on semiconductor quantum dots. Nanoscale, 2016, 8, 8427-8442.	2.8	277
9	Highly Sensitive Photoelectrochemical Immunoassay with Enhanced Amplification Using Horseradish Peroxidase Induced Biocatalytic Precipitation on a CdS Quantum Dots Multilayer Electrode. Analytical Chemistry, 2012, 84, 917-923.	3.2	270
10	Electrochemically Generated versus Photoexcited Luminescence from Semiconductor Nanomaterials: Bridging the Valley between Two Worlds. Chemical Reviews, 2014, 114, 11027-11059.	23.0	265
11	Distance-dependent quenching and enhancing of electrochemiluminescence from a CdS:Mn nanocrystal film by Au nanoparticles for highly sensitive detection of DNA. Chemical Communications, 2009, , 905.	2.2	264
12	Photoelectrochemical Immunoassays. Analytical Chemistry, 2018, 90, 615-627.	3.2	255
13	Label-free photoelectrochemical immunoassay for Î±-fetoprotein detection based on TiO2/CdS hybrid. Biosensors and Bioelectronics, 2009, 25, 791-796.	5.3	235
14	Photoelectrochemical enzymatic biosensors. Biosensors and Bioelectronics, 2017, 92, 294-304.	5.3	231
15	A Label-Free Photoelectrochemical Immunosensor Based on Water-Soluble CdS Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 11142-11148.	1.5	224
16	Electrochemiluminescence Ratiometry: A New Approach to DNA Biosensing. Analytical Chemistry, 2013, 85, 5321-5325.	3.2	212
17	In Situ Enzymatic Ascorbic Acid Production as Electron Donor for CdS Quantum Dots Equipped TiO₂ Nanotubes: A General and Efficient Approach for New Photoelectrochemical Immunoassay. Analytical Chemistry, 2012, 84, 10518-10521.	3.2	210
18	Direct Plasmon-Accelerated Electrochemical Reaction on Gold Nanoparticles. ACS Nano, 2017, 11, 5897-5905.	7.3	208

#	Article	IF	Citations
19	Quantum Dots: Electrochemiluminescent and Photoelectrochemical Bioanalysis. Analytical Chemistry, 2015, 87, 9520-9531.	3.2	200
20	In-situ synthesis of poly(dimethylsiloxane)â€“gold nanoparticles composite films and its application in microfluidic systems. Lab on A Chip, 2008, 8, 352-357.	3.1	197
21	Functional nanoprobes for ultrasensitive detection of biomolecules: an update. Chemical Society Reviews, 2014, 43, 1601-1611.	18.7	190
22	Signal-On Dual-Potential Electrochemiluminescence Based on Luminolâ€“Gold Bifunctional Nanoparticles for Telomerase Detection. Analytical Chemistry, 2014, 86, 3834-3840.	3.2	186
23	Signalâ€On Electrochemiluminescence Biosensors Based on CdSâ€“Carbon Nanotube Nanocomposite for the Sensitive Detection of Choline and Acetylcholine. Advanced Functional Materials, 2009, 19, 1444-1450.	7.8	177
24	Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. Chemical Communications, 2011, 47, 10990.	2.2	177
25	Exciton-Plasmon Interactions between CdS Quantum Dots and Ag Nanoparticles in Photoelectrochemical System and Its Biosensing Application. Analytical Chemistry, 2012, 84, 5892-5897.	3.2	174
26	Aggregationâ€Induced Electrochemiluminescence of Carboranyl Carbazoles in Aqueous Media. Angewandte Chemie - International Edition, 2019, 58, 3162-3166.	7.2	170
27	A ratiometric electrochemiluminescence detection for cancer cells using g-C 3 N 4 nanosheets and Agâ€“PAMAMâ€“luminol nanocomposites. Biosensors and Bioelectronics, 2016, 77, 76-82.	5.3	162
28	Using G-Quadruplex/Hemin To â€œSwitch-Onâ€•the Cathodic Photocurrent of p-Type PbS Quantum Dots: Toward a Versatile Platform for Photoelectrochemical Aptasensing. Analytical Chemistry, 2015, 87, 2892-2900.	3.2	152
29	Hybrid PbS Quantum Dot/Nanoporous NiO Film Nanostructure: Preparation, Characterization, and Application for a Self-Powered Cathodic Photoelectrochemical Biosensor. Analytical Chemistry, 2017, 89, 8070-8078.	3.2	149
30	Dopamine sensitized nanoporous TiO2 film on electrodes: Photoelectrochemical sensing of NADH under visible irradiation. Biosensors and Bioelectronics, 2009, 24, 2494-2498.	5.3	148
31	Photoelectrochemical aptasensing. TrAC - Trends in Analytical Chemistry, 2016, 82, 307-315.	5.8	145
32	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Auâ€Pt Janus Nanoparticle. Angewandte Chemie - International Edition, 2018, 57, 4010-4014.	7.2	145
33	Electrochemical Biosensors Based on Layer-by-Layer Assemblies. Electroanalysis, 2006, 18, 1737-1748.	1.5	140
34	Visual Electrochemiluminescence Detection of Cancer Biomarkers on a Closed Bipolar Electrode Array Chip. Analytical Chemistry, 2015, 87, 530-537.	3.2	140
35	Optical nano-biosensing interface via nucleic acid amplification strategy: construction and application. Chemical Society Reviews, 2018, 47, 1996-2019.	18.7	139
36	Shape-Controlled Gold Nanoarchitectures: Synthesis, Superhydrophobicity, and Electrocatalytic Properties. Journal of Physical Chemistry C, 2008, 112, 13886-13892.	1.5	138

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37	A Nanochannel Array-Based Electrochemical Device for Quantitative Label-free DNA Analysis. ACS Nano, 2010, 4, 6417-6424.	7.3	134
38	Sensitive Electrochemiluminescence Detection of c-Myc mRNA in Breast Cancer Cells on a Wireless Bipolar Electrode. Analytical Chemistry, 2012, 84, 5407-5414.	3.2	120
39	Selective detection of trace amount of Cu2+ using semiconductor nanoparticles in photoelectrochemical analysis. Nanoscale, 2010, 2, 1112.	2.8	119
40	RuSi@Ru(bpy)₃²⁺/Au@Ag₂S Nanoparticles Electrochemiluminescence Resonance Energy Transfer System for Sensitive DNA Detection. Analytical Chemistry, 2014, 86, 4559-4565.	3.2	117
41	Portable Smartphone-Based QDs for the Visual Onsite Monitoring of Fluoroquinolone Antibiotics in Actual Food and Environmental Samples. ACS Applied Materials & Interfaces, 2020, 12, 14552-14562.	4.0	115
42	Electrochemiluminescence on bipolar electrodes for visual bioanalysis. Chemical Science, 2013, 4, 1182.	3.7	111
43	CdS quantum dots/Ru(bpy)32+ electrochemiluminescence resonance energy transfer system for sensitive cytosensing. Chemical Communications, 2011, 47, 7752.	2.2	109
44	Microchip Device with 64-Site Electrode Array for Multiplexed Immunoassay of Cell Surface Antigens Based on Electrochemiluminescence Resonance Energy Transfer. Analytical Chemistry, 2012, 84, 4207-4213.	3.2	108
45	Sensitive Electrochemiluminescence Biosensor Based on Au-ITO Hybrid Bipolar Electrode Amplification System for Cell Surface Protein Detection. Analytical Chemistry, 2013, 85, 11960-11965.	3.2	108
46	Disposable paper-based bipolar electrode for sensitive electrochemiluminescence detection of a cancer biomarker. Chemical Communications, 2014, 50, 10949.	2.2	108
47	Dual-emitting quantum dot nanohybrid for imaging of latent fingerprints: simultaneous identification of individuals and traffic light-type visualization of TNT. Chemical Science, 2015, 6, 4445-4450.	3.7	108
48	Selective sensing of cysteine on manganese dioxide nanowires and chitosan modified glassy carbon electrodes. Biosensors and Bioelectronics, 2009, 24, 2985-2990.	5.3	107
49	Acetylcholine Esterase Antibodies on BiOI Nanoflakes/TiO₂ Nanoparticles Electrode: A Case of Application for General Photoelectrochemical Enzymatic Analysis. Analytical Chemistry, 2013, 85, 11686-11690.	3.2	106
50	Visual Color-Switch Electrochemiluminescence Biosensing of Cancer Cell Based on Multichannel Bipolar Electrode Chip. Analytical Chemistry, 2016, 88, 2884-2890.	3.2	106
51	Ultrasmall Nanopipette: Toward Continuous Monitoring of Redox Metabolism at Subcellular Level. Angewandte Chemie - International Edition, 2018, 57, 13226-13230.	7.2	105
52	Electrochemiluminescence Resonance Energy Transfer System for Dual-Wavelength Ratiometric miRNA Detection. Analytical Chemistry, 2018, 90, 13723-13728.	3.2	102
53	Gold Nanoparticle Couples with Entropy-Driven Toehold-Mediated DNA Strand Displacement Reaction on Magnetic Beads: Toward Ultrasensitive Energy-Transfer-Based Photoelectrochemical Detection of miRNA-141 in Real Blood Sample. Analytical Chemistry, 2018, 90, 11892-11898.	3.2	102
54	Synthesis of Potassiumâ€Modified Graphene and Its Application in Nitriteâ€Selective Sensing. Advanced Functional Materials, 2012, 22, 1981-1988.	7.8	101

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55	Photoelectrochemical bioanalysis: A mini review. Electrochemistry Communications, 2014, 38, 40-43.	2.3	101
56	Dual-Mode SERS and Electrochemical Detection of miRNA Based on Popcorn-like Gold Nanofilms and Toehold-Mediated Strand Displacement Amplification Reaction. Analytical Chemistry, 2021, 93, 6120-6127.	3.2	98
57	Simultaneous Photoelectrochemical Immunoassay of Dual Cardiac Markers Using Specific Enzyme Tags: A Proof of Principle for Multiplexed Bioanalysis. Analytical Chemistry, 2016, 88, 1990-1994.	3.2	97
58	Alkaline Phosphatase Tagged Antibodies on Gold Nanoparticles/TiO₂ Nanotubes Electrode: A Plasmonic Strategy for Label-Free and Amplified Photoelectrochemical Immunoassay. Analytical Chemistry, 2016, 88, 5626-5630.	3.2	96
59	A highly sensitive ratiometric electrochemiluminescent biosensor for microRNA detection based on cyclic enzyme amplification and resonance energy transfer. Chemical Communications, 2014, 50, 14828-14830.	2.2	94
60	Ultrasensitive MicroRNA Assay via Surface Plasmon Resonance Responses of Au@Ag Nanorods Etching. Analytical Chemistry, 2017, 89, 10585-10591.	3.2	94
61	Photoelectrochemical detection of metal ions. Analyst, The, 2016, 141, 4262-4271.	1.7	93
62	Ultrasensitive DNA detection based on Au nanoparticles and isothermal circular double-assisted electrochemiluminescence signal amplification. Chemical Communications, 2011, 47, 8358.	2.2	89
63	Bipolar Electrode Based Multicolor Electrochemiluminescence Biosensor. Analytical Chemistry, 2017, 89, 8050-8056.	3.2	89
64	Electrogenerated chemiluminescence detection of single entities. Chemical Science, 2021, 12, 5720-5736.	3.7	88
65	Bidirectional Electrochemiluminescence Color Switch: An Application in Detecting Multimarkers of Prostate Cancer. Analytical Chemistry, 2018, 90, 3570-3575.	3.2	86
66	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
67	Electrochemiluminescence Resonance Energy Transfer Between CdS:Eu Nancrystals and Au Nanorods for Sensitive DNA Detection. Journal of Physical Chemistry C, 2012, 116, 17773-17780.	1.5	85
68	ATP-Activatable Photosensitizer Enables Dual Fluorescence Imaging and Targeted Photodynamic Therapy of Tumor. Analytical Chemistry, 2017, 89, 13610-13617.	3.2	84
69	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
70	A General Strategy for Photoelectrochemical Immunoassay Using an Enzyme Label Combined with a CdS Quantum Dot/TiO₂ Nanoparticle Composite Electrode. Analytical Chemistry, 2014, 86, 11513-11516.	3.2	83
71	Exploration of the Kinetics of Toehold-Mediated Strand Displacement via Plasmon Rulers. ACS Nano, 2018, 12, 3341-3350.	7.3	83
72	Reliable FÃ¶rster Resonance Energy Transfer Probe Based on Structure-Switching DNA for Ratiometric Sensing of Telomerase in Living Cells. Analytical Chemistry, 2017, 89, 4216-4222.	3.2	82

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73	Progress in the studies of photoelectrochemical sensors. Science in China Series B: Chemistry, 2009, 52, 1789-1800.	0.8	81
74	Silver Nanoclusters for High-Efficiency Quenching of CdS Nanocrystal Electrochemiluminescence and Sensitive Detection of microRNA. ACS Applied Materials & Interfaces, 2015, 7, 26307-26314.	4.0	81
75	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. Analytical Chemistry, 2017, 89, 11366-11371.	3.2	81
76	Gold nanodendrities on graphene oxide nanosheets for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 1697-1703.	5.2	80
77	Plasmon-Enhanced Electrochemiluminescence for Nucleic Acid Detection Based on Gold Nanodendrites. Analytical Chemistry, 2018, 90, 1340-1347.	3.2	80
78	Recent Advances in Aggregationâ€Induced Electrochemiluminescence. Chemistry - A European Journal, 2019, 25, 12671-12683.	1.7	80
79	Recent advances in nanotechnology for simultaneous detection of multiple pathogenic bacteria. Nano Today, 2021, 38, 101121.	6.2	80
80	General Strategy for Enhancing Electrochemiluminescence of Semiconductor Nanocrystals by Hydrogen Peroxide and Potassium Persulfate as Dual Coreactants. Analytical Chemistry, 2015, 87, 12372-12379.	3.2	79
81	Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. Biosensors and Bioelectronics, 2017, 94, 207-218.	5.3	79
82	Electrochemiluminescence quenching by CdTe quantum dots through energy scavenging for ultrasensitive detection of antigen. Chemical Communications, 2010, 46, 5079.	2.2	78
83	Electrochemical Detection Method for Nonelectroactive and Electroactive Analytes in Microchip Electrophoresis. Analytical Chemistry, 2004, 76, 6902-6907.	3.2	77
84	A New Electrochemiluminescence Emission of Mn²⁺-Doped ZnS Nanocrystals in Aqueous Solution. Journal of Physical Chemistry C, 2008, 112, 17581-17585.	1.5	76
85	The coupling of localized surface plasmon resonance-based photoelectrochemistry and nanoparticle size effect: towards novel plasmonic photoelectrochemical biosensing. Chemical Communications, 2012, 48, 895-897.	2.2	75
86	Electrochemiluminescence behaviors of Eu³⁺-doped CdS nanocrystals film in aqueous solution. Nanoscale, 2012, 4, 831-836.	2.8	75
87	Monitoring the Changes of pH in Lysosomes during Autophagy and Apoptosis by Plasmon Enhanced Raman Imaging. Analytical Chemistry, 2019, 91, 8398-8405.	3.2	75
88	An Integrated Electrochemical Nanodevice for Intracellular RNA Collection and Detection in Single Living Cell. Angewandte Chemie - International Edition, 2021, 60, 13244-13250.	7.2	75
89	Highly Sensitive Colorimetric Cancer Cell Detection Based on Dual Signal Amplification. ACS Applied Materials & Interfaces, 2016, 8, 4434-4441.	4.0	74
90	Bismuth Oxyiodide Couples with Glucose Oxidase: A Special Synergized Dual-Catalysis Mechanism for Photoelectrochemical Enzymatic Bioanalysis. ACS Applied Materials & Interfaces, 2018, 10, 3372-3379.	4.0	74

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91	Super-Resolution Electrogenerated Chemiluminescence Microscopy for Single-Nanocatalyst Imaging. Journal of the American Chemical Society, 2021, 143, 18511-18518.	6.6	74
92	Self-Assembled DNA Tetrahedral Scaffolds for the Construction of Electrochemiluminescence Biosensor with Programmable DNA Cyclic Amplification. ACS Applied Materials & Interfaces, 2017, 9, 17637-17644.	4.0	73
93	Nanochannels Photoelectrochemical Biosensor. Analytical Chemistry, 2018, 90, 2341-2347.	3.2	73
94	Improved AIEâ€Active Probe with High Sensitivity for Accurate Uranyl Ion Monitoring in the Wild Using Portable Electrochemiluminescence System for Environmental Applications. Advanced Functional Materials, 2020, 30, 2000220.	7.8	71
95	DNA Labeling Generates a Unique Amplification Probe for Sensitive Photoelectrochemical Immunoassay of HIV-1 p24 Antigen. Analytical Chemistry, 2015, 87, 5496-5499.	3.2	70
96	Anomalous Diffusion of Electrically Neutral Molecules in Charged Nanochannels. Angewandte Chemie - International Edition, 2010, 49, 7943-7947.	7.2	69
97	Immunogold labeling-induced synergy effect for amplified photoelectrochemical immunoassay of prostate-specific antigen. Chemical Communications, 2012, 48, 5253.	2.2	69
98	Cu Nanoclusters-Encapsulated Liposomes: Toward Sensitive Liposomal Photoelectrochemical Immunoassay. Analytical Chemistry, 2018, 90, 2749-2755.	3.2	69
99	Highly Sensitive Electrochemiluminescence Detection of Single-Nucleotide Polymorphisms Based on Isothermal Cycle-Assisted Triple-Stem Probe with Dual-Nanoparticle Label. Analytical Chemistry, 2011, 83, 8320-8328.	3.2	68
100	Ultrasensitive photoelectrochemical biosensing based on biocatalytic deposition. Electrochemistry Communications, 2011, 13, 495-497.	2.3	68
101	Efficient quenching of electrochemiluminescence from K-doped grapheneâ€“CdS:Eu NCs by G-quadruplexâ€“hemin and target recycling-assisted amplification for ultrasensitive DNA biosensing. Chemical Communications, 2013, 49, 2246.	2.2	68
102	Protein Binding Bends the Gold Nanoparticle Capped DNA Sequence: Toward Novel Energy-Transfer-Based Photoelectrochemical Protein Detection. Analytical Chemistry, 2016, 88, 3864-3871.	3.2	67
103	Insight into Ion Transfer through the Subâ€Nanometer Channels in Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2017, 56, 4767-4771.	7.2	66
104	In Situ Modification of a Semiconductor Surface by an Enzymatic Process: A General Strategy for Photoelectrochemical Bioanalysis. Analytical Chemistry, 2013, 85, 8503-8506.	3.2	65
105	Invoking Direct Excitonâ€“Plasmon Interactions by Catalytic Ag Deposition on Au Nanoparticles: Photoelectrochemical Bioanalysis with High Efficiency. Analytical Chemistry, 2016, 88, 4183-4187.	3.2	65
106	Recent advances in electrochemiluminescence resonance energy transfer for bioanalysis: Fundamentals and applications. TrAC - Trends in Analytical Chemistry, 2020, 122, 115746.	5.8	65
107	Recent advances of ratiometric electrochemiluminescence biosensors. Journal of Materials Chemistry B, 2019, 7, 6469-6475.	2.9	64
108	Self-Supply of H₂O₂ and O₂ by Hydrolyzing CaO₂ to Enhance the Electrochemiluminescence of Luminol Based on a Closed Bipolar Electrode. Analytical Chemistry, 2020, 92, 12693-12699.	3.2	64

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109	An Integrated Photoelectrochemical Nanotool for Intracellular Drug Delivery and Evaluation of Treatment Effect. Angewandte Chemie - International Edition, 2021, 60, 25762-25765.	7.2	64
110	Paper-based electroanalytical devices for in situ determination of salicylic acid in living tomato leaves. Biosensors and Bioelectronics, 2014, 60, 154-160.	5.3	62
111	A dual target-recycling amplification strategy for sensitive detection of microRNAs based on duplex-specific nuclease and catalytic hairpin assembly. Chemical Communications, 2015, 51, 13504-13507.	2.2	62
112	Organic Cyanide Decorated SERS Active Nanopipettes for Quantitative Detection of Hemeproteins and Fe³⁺ in Single Cells. Analytical Chemistry, 2017, 89, 2522-2530.	3.2	62
113	Rational engineering of semiconductor QDs enabling remarkable 1 O 2 production for tumor-targeted photodynamic therapy. Biomaterials, 2017, 148, 31-40.	5.7	62
114	Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite Bi₄NbO₈Cl. Analytical Chemistry, 2017, 89, 7869-7875.	3.2	62
115	A redox-activated theranostic nanoagent: toward multi-mode imaging guided chemo-photothermal therapy. Chemical Science, 2018, 9, 6749-6757.	3.7	62
116	Spatiotemporal imaging of electrocatalytic activity on single 2D gold nanoplates via electrogenerated chemiluminescence microscopy. Chemical Science, 2019, 10, 4141-4147.	3.7	62
117	Temporal Sensing Platform Based on Bipolar Electrode for the Ultrasensitive Detection of Cancer Cells. Analytical Chemistry, 2016, 88, 8795-8801.	3.2	60
118	Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. Nanoscale, 2016, 8, 17407-17414.	2.8	60
119	A paper-based SERS test strip for quantitative detection of Mucin-1 in whole blood. Talanta, 2018, 179, 9-14.	2.9	60
120	Electrochemiluminescence aptasensor based on bipolar electrode for detection of adenosine in cancer cells. Biosensors and Bioelectronics, 2014, 55, 459-463.	5.3	58
121	DNA tetrahedral scaffolds-based platform for the construction of electrochemiluminescence biosensor. Biosensors and Bioelectronics, 2017, 90, 251-257.	5.3	58
122	Dual-Functional Carbon Dots Pattern on Paper Chips for Fe³⁺ and Ferritin Analysis in Whole Blood. Analytical Chemistry, 2017, 89, 2131-2137.	3.2	58
123	Electrocatalytic Oxidation of Dopamine and Ascorbic Acid on Carbon Paste Electrode Modified with Nanosized Cobalt Phthalocyanine Particles: Simultaneous Determination in the Presence of CTAB. Electroanalysis, 2006, 18, 282-290.	1.5	57
124	Relationship between Nanostructure and Electrochemical/Biosensing Properties of MnO2 Nanomaterials for H2O2/Choline. Journal of Physical Chemistry C, 2008, 112, 18984-18990.	1.5	56
125	Distance mediated electrochemiluminescence enhancement of CdS thin films induced by the plasmon coupling of gold nanoparticle dimers. Chemical Communications, 2016, 52, 14230-14233.	2.2	56
126	Ascorbate sensor based on â€˜self-dopedâ€™ polyaniline. Electroanalysis, 1997, 9, 1185-1188.	1.5	55

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127	Folding-based photoelectrochemical biosensor: binding-induced conformation change of a quantum dot-tagged DNA probe for mercury(<scp>ii</scp>) detection. Chemical Communications, 2014, 50, 12088-12090.	2.2	55
128	Spatial-resolved electrochemiluminescence ratiometry based on bipolar electrode for bioanalysis. Biosensors and Bioelectronics, 2016, 86, 683-689.	5.3	55
129	Enediol-Ligands-Encapsulated Liposomes Enables Sensitive Immunoassay: A Proof-of-Concept for General Liposomes-Based Photoelectrochemical Bioanalysis. Analytical Chemistry, 2017, 89, 6300-6304.	3.2	54
130	An exploration of nucleic acid liquid biopsy using a glucose meter. Chemical Science, 2018, 9, 3517-3522.	3.7	54
131	Semiconducting Organicâ€“Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. Analytical Chemistry, 2018, 90, 3759-3765.	3.2	54
132	Organic Photoâ€Electrochemical Transistorâ€Based Biosensor: A Proofâ€ofâ€Concept Study toward Highly Sensitive DNA Detection. Advanced Healthcare Materials, 2018, 7, e1800536.	3.9	54
133	Ag nanoclusters could efficiently quench the photoresponse of CdS quantum dots for novel energy transfer-based photoelectrochemical bioanalysis. Biosensors and Bioelectronics, 2016, 85, 930-934.	5.3	53
134	An aptamer-binding DNA walking machine for sensitive electrochemiluminescence detection of tumor exosomes. Chemical Communications, 2020, 56, 269-272.	2.2	53
135	Plasmonic Enhanced Gold Nanoclusters-Based Photoelectrochemical Biosensor for Sensitive Alkaline Phosphatase Activity Analysis. Analytical Chemistry, 2020, 92, 6886-6892.	3.2	53
136	A Reagentless Hydrogen Peroxide Biosensor Based on the Coimmobilization of Thionine and Horseradish Peroxidase by Their Cross-Linking with Glutaraldehyde on Glassy Carbon Electrode. Electroanalysis, 1998, 10, 713-716.	1.5	52
137	A reusable potassium ion biosensor based on electrochemiluminescence resonance energy transfer. Chemical Communications, 2013, 49, 1539.	2.2	51
138	Polymer Dots for Photoelectrochemical Bioanalysis. Analytical Chemistry, 2017, 89, 4945-4950.	3.2	51
139	Semiconducting CuO Nanotubes: Synthesis, Characterization, and Bifunctional Photocathodic Enzymatic Bioanalysis. Analytical Chemistry, 2018, 90, 5439-5444.	3.2	50
140	Visual electrochemiluminescence ratiometry on bipolar electrode for bioanalysis. Biosensors and Bioelectronics, 2018, 102, 624-630.	5.3	50
141	Poly thymine stabilized copper nanoclusters as a fluorescence probe for melamine sensing. Talanta, 2015, 144, 642-647.	2.9	49
142	Energy Transfer between Semiconducting Polymer Dots and Gold Nanoparticles in a Photoelectrochemical System: A Case Application for Cathodic Bioanalysis. Analytical Chemistry, 2018, 90, 4277-4281.	3.2	49
143	Boosting the oxygen evolution reaction performance of CoS₂ microspheres by subtle ionic liquid modification. Chemical Communications, 2018, 54, 8765-8768.	2.2	49
144	Ultrasensitive Detection of Severe Fever with Thrombocytopenia Syndrome Virus Based on Immunofluorescent Carbon Dots/SiO₂ Nanosphere-Based Lateral Flow Assay. ACS Omega, 2019, 4, 21431-21438.	1.6	49

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145	Fabrication of a Biomimetic Nanochannel Logic Platform and Its Applications in the Intelligent Detection of miRNA Related to Liver Cancer. Analytical Chemistry, 2020, 92, 5952-5959.	3.2	48
146	Bidirectional Electrochemiluminescent Sensing: An Application in Detecting miRNA-141. Analytical Chemistry, 2019, 91, 12000-12005.	3.2	46
147	Ultrasensitive Nucleic Acid Assay Based on AIE-Active Polymer Dots with Excellent Electrochemiluminescence Stability. Analytical Chemistry, 2021, 93, 6857-6864.	3.2	46
148	Bismuthoxyiodide Nanoflakes/Titania Nanotubes Arrayed p-n Heterojunction and Its Application for Photoelectrochemical Bioanalysis. Scientific Reports, 2014, 4, 4426.	1.6	45
149	Oriented assembly of invisible probes: towards single mRNA imaging in living cells. Chemical Science, 2016, 7, 3256-3263.	3.7	45
150	An Efficient Electrochemiluminescence Enhancement Strategy on Bipolar Electrode for Bioanalysis. Analytical Chemistry, 2019, 91, 12553-12559.	3.2	45
151	Effect of Nanoemitters on Suppressing the Formation of Metal Adduct Ions in Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 1838-1845.	3.2	44
152	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Auâ€Pt Janus Nanoparticle. Angewandte Chemie, 2018, 130, 4074-4078.	1.6	44
153	Coupling a Wireless Bipolar Ultramicroelectrode with Nanoâ€electrospray Ionization Mass Spectrometry: Insights into the Ultrafast Initial Step of Electrochemical Reactions. Angewandte Chemie - International Edition, 2020, 59, 18244-18248.	7.2	44
154	Nucleolin-Targeted Ratiometric Fluorescent Carbon Dots with a Remarkably Large Emission Wavelength Shift for Precise Imaging of Cathepsin B in Living Cancer Cells. Analytical Chemistry, 2021, 93, 4042-4050.	3.2	44
155	Three-Dimensional TiO₂@Cu₂O@Nickel Foam Electrodes: Design, Characterization, and Validation of O₂-Independent Photocathodic Enzymatic Bioanalysis. ACS Applied Materials & Interfaces, 2019, 11, 25702-25707.	4.0	43
156	Analytical aspects of fet-based biosensors. Frontiers in Bioscience - Landmark, 2005, 10, 420.	3.0	42
157	Cell surface carbohydrates evaluation via a photoelectrochemical approach. Chemical Communications, 2012, 48, 9456.	2.2	41
158	Flexible Gold Electrode Array for Multiplexed Immunoelectrochemical Measurement of Three Protein Biomarkers for Prostate Cancer. ACS Applied Materials & Interfaces, 2014, 6, 20137-20143.	4.0	41
159	An offâ€“onâ€“off electrochemiluminescence approach for ultrasensitive detection of thrombin. Biosensors and Bioelectronics, 2014, 59, 58-63.	5.3	41
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