

Shenguang Ge

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

210
papers

9,007
citations

55
h-index

83
g-index

223
ext. papers

10,237
ext. citations

8.2
avg, IF

6.44
L-index

#	Paper	IF	Citations
210	Paper-based chemiluminescence ELISA: lab-on-paper based on chitosan modified paper device and wax-screen-printing. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 212-8	11.8	358
209	Three-dimensional paper-based electrochemiluminescence immunodevice for multiplexed measurement of biomarkers and point-of-care testing. <i>Biomaterials</i> , 2012 , 33, 1024-31	15.6	318
208	Microfluidic paper-based chemiluminescence biosensor for simultaneous determination of glucose and uric acid. <i>Lab on A Chip</i> , 2011 , 11, 1286-91	7.2	261
207	3D origami-based multifunction-integrated immunodevice: low-cost and multiplexed sandwich chemiluminescence immunoassay on microfluidic paper-based analytical device. <i>Lab on A Chip</i> , 2012 , 12, 3150-8	7.2	232
206	Flexible Electronics Based on Micro/Nanostructured Paper. <i>Advanced Materials</i> , 2018 , 30, e1801588	24	185
205	Electrochemical biosensor based on graphene oxide-Au nanoclusters composites for L-cysteine analysis. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 49-54	11.8	179
204	A novel chemiluminescence paper microfluidic biosensor based on enzymatic reaction for uric acid determination. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3284-9	11.8	165
203	Three-dimensional paper-based electrochemiluminescence device for simultaneous detection of Pb ²⁺ and Hg ²⁺ based on potential-control technique. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 544-50	11.8	163
202	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. <i>Chemical Communications</i> , 2014 , 50, 1417-9	5.8	148
201	Paper-based three-dimensional electrochemical immunodevice based on multi-walled carbon nanotubes functionalized paper for sensitive point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 238-43	11.8	148
200	Electrochemical DNA sensor based on three-dimensional folding paper device for specific and sensitive point-of-care testing. <i>Electrochimica Acta</i> , 2012 , 80, 334-341	6.7	147
199	Photoelectrochemical lab-on-paper device based on an integrated paper supercapacitor and internal light source. <i>Analytical Chemistry</i> , 2013 , 85, 3961-70	7.8	130
198	Paper-based electrochemiluminescent 3D immunodevice for lab-on-paper, specific, and sensitive point-of-care testing. <i>Chemistry - A European Journal</i> , 2012 , 18, 4938-45	4.8	123
197	Aptamer-based fluorescent and visual biosensor for multiplexed monitoring of cancer cells in microfluidic paper-based analytical devices. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 347-354	8.5	105
196	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. <i>Lab on A Chip</i> , 2012 , 12, 4489-98	7.2	103
195	Molecularly Imprinted Polymer Grafted Porous Au-Paper Electrode for an Microfluidic Electro-Analytical Origami Device. <i>Advanced Functional Materials</i> , 2013 , 23, 3115-3123	15.6	101
194	In-situ synthesized polypyrrole-cellulose conductive networks for potential-tunable foldable power paper. <i>Nano Energy</i> , 2017 , 31, 174-182	17.1	93

193	Colorimetric assay of K-562 cells based on folic acid-conjugated porous bimetallic Pd@Au nanoparticles for point-of-care testing. <i>Chemical Communications</i> , 2014 , 50, 475-7	5.8	92
192	Paper-Based Device for Colorimetric and Photoelectrochemical Quantification of the Flux of H ₂ O ₂ Releasing from MCF-7 Cancer Cells. <i>Analytical Chemistry</i> , 2016 , 88, 5369-77	7.8	92
191	Ultrasensitive electrochemical paper-based biosensor for microRNA via strand displacement reaction and metal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 561-569	8.5	92
190	Photoelectrochemical sensor for pentachlorophenol on microfluidic paper-based analytical device based on the molecular imprinting technique. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 97-103	11.8	91
189	A disposable paper-based electrochemical sensor with an addressable electrode array for cancer screening. <i>Chemical Communications</i> , 2012 , 48, 9397-9	5.8	91
188	Growth of gold-manganese oxide nanostructures on a 3D origami device for glucose-oxidase label based electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 76-82	11.8	90
187	Ultrasensitive microfluidic paper-based electrochemical/visual biosensor based on spherical-like cerium dioxide catalyst for miR-21 detection. <i>Biosensors and Bioelectronics</i> , 2018 , 105, 218-225	11.8	86
186	Nanomaterials-modified cellulose paper as a platform for biosensing applications. <i>Nanoscale</i> , 2017 , 9, 4366-4382	7.7	85
185	Multiplexed sandwich immunoassays using flow-injection electrochemiluminescence with designed substrate spatial-resolved technique for detection of tumor markers. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 684-90	11.8	84
184	Ultrasensitive electrochemiluminescence assay of tumor cells and evaluation of HO on a paper-based closed-bipolar electrode by in-situ hybridization chain reaction amplification. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 411-417	11.8	79
183	Colorimetric detection of the flux of hydrogen peroxide released from living cells based on the high peroxidase-like catalytic performance of porous PtPd nanorods. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 456-462	11.8	78
182	Molecularly imprinted polymer grafted paper-based multi-disk micro-disk plate for chemiluminescence detection of pesticide. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 262-8	11.8	76
181	A paper-based photoelectrochemical immunoassay for low-cost and multiplexed point-of-care testing. <i>Chemical Communications</i> , 2013 , 49, 3294-6	5.8	75
180	Paper-based electrochemical cyto-device for sensitive detection of cancer cells and in situ anticancer drug screening. <i>Analytica Chimica Acta</i> , 2014 , 847, 1-9	6.6	74
179	A microfluidic origami electrochemiluminescence aptamer-device based on a porous Au-paper electrode and a phenyleneethynylene derivative. <i>Chemical Communications</i> , 2013 , 49, 1383-5	5.8	74
178	Ultrasensitive Photoelectrochemical Biosensing of Cell Surface N-Glycan Expression Based on the Enhancement of Nanogold-Assembled Mesoporous Silica Amplified by Graphene Quantum Dots and Hybridization Chain Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6670-6678	9.5	72
177	A three-dimensional origami-based immuno-biofuel cell for self-powered, low-cost, and sensitive point-of-care testing. <i>Chemical Communications</i> , 2014 , 50, 1947-9	5.8	72
176	A novel microfluidic origami photoelectrochemical sensor based on CdTe quantum dots modified molecularly imprinted polymer and its highly selective detection of S-fenvalerate. <i>Electrochimica Acta</i> , 2013 , 107, 147-154	6.7	72

175	Simple and covalent fabrication of a paper device and its application in sensitive chemiluminescence immunoassay. <i>Analyst, The</i> , 2012 , 137, 3821-7	5	72
174	Visible light photoelectrochemical sensor based on Au nanoparticles and molecularly imprinted poly(o-phenylenediamine)-modified TiO ₂ nanotubes for specific and sensitive detection chlorpyrifos. <i>Analyst, The</i> , 2013 , 138, 939-45	5	72
173	Paper-based electrochemiluminescence origami cyto-device for multiple cancer cells detection using porous AuPd alloy as catalytically promoted nanolabels. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 450-457	11.8	71
172	Photoelectrochemical lab-on-paper device equipped with a porous Au-paper electrode and fluidic delay-switch for sensitive detection of DNA hybridization. <i>Lab on A Chip</i> , 2013 , 13, 3945-55	7.2	69
171	A novel microfluidic paper-based colorimetric sensor based on molecularly imprinted polymer membranes for highly selective and sensitive detection of bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 130-136	8.5	68
170	Visible photoelectrochemical sensing platform by in situ generated CdS quantum dots decorated branched-TiO nanorods equipped with Prussian blue electrochromic display. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 859-865	11.8	64
169	Facile and sensitive paper-based chemiluminescence DNA biosensor using carbon dots dotted nanoporous gold signal amplification label. <i>Analytical Methods</i> , 2013 , 5, 1328	3.2	64
168	Colorimetric and Electrochemiluminescence Dual-Mode Sensing of Lead Ion Based on Integrated Lab-on-Paper Device. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3431-3440	9.5	63
167	Chemical and biochemical analysis on lab-on-a-chip devices fabricated using three-dimensional printing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 85, 166-180	14.6	61
166	Battery-triggered ultrasensitive electrochemiluminescence detection on microfluidic paper-based immunodevice based on dual-signal amplification strategy. <i>Analytica Chimica Acta</i> , 2013 , 767, 66-74	6.6	60
165	Synthesis and characterization of graphene nanosheets attached to spiky MnO ₂ nanospheres and its application in ultrasensitive immunoassay. <i>Carbon</i> , 2013 , 57, 22-33	10.4	60
164	Multiplex electrochemical origami immunodevice based on cuboid silver-paper electrode and metal ions tagged nanoporous silver-chitosan. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 167-73	11.8	59
163	Lab-on-paper-based devices using chemiluminescence and electrogenerated chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 5613-30	4.4	59
162	Ultrasensitive electrochemical immunoassay for carcinoembryonic antigen based on three-dimensional macroporous gold nanoparticles/graphene composite platform and multienzyme functionalized nanoporous silver label. <i>Analytica Chimica Acta</i> , 2013 , 775, 85-92	6.6	59
161	Applications of graphene and related nanomaterials in analytical chemistry. <i>New Journal of Chemistry</i> , 2015 , 39, 2380-2395	3.6	59
160	In situ assembly of porous Au-paper electrode and functionalization of magnetic silica nanoparticles with HRP via click chemistry for Microcystin-LR immunoassay. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 111-7	11.8	59
159	Ultrasensitive Microfluidic Paper-Based Electrochemical Biosensor Based on Molecularly Imprinted Film and Boronate Affinity Sandwich Assay for Glycoprotein Detection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16198-16206	9.5	58
158	Microfluidic paper-based analytical device for photoelectrochemical immunoassay with multiplex signal amplification using multibranch hybridization chain reaction and PdAu enzyme mimetics. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 416-22	11.8	57

157	Electrophoretic separation in a microfluidic paper-based analytical device with an on-column wireless electrogenerated chemiluminescence detector. <i>Chemical Communications</i> , 2014 , 50, 5699-702	5.8	57
156	Polyhedral-AuPd nanoparticles-based dual-mode cytosensor with turn on enable signal for highly sensitive cell evaluation on lab-on-paper device. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 651-658	11.8	56
155	All-graphene composite materials for signal amplification toward ultrasensitive electrochemical immunosensing of tumor marker. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 108-114	11.8	55
154	Ultrasensitive electrochemiluminescence immunoassay for tumor marker detection using functionalized Ru-silica@nanoporous gold composite as labels. <i>Analyst, The</i> , 2012 , 137, 680-5	5	55
153	Paper-Based SERS Sensing Platform Based on 3D Silver Dendrites and Molecularly Imprinted Identifier Sandwich Hybrid for Neonicotinoid Quantification. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8845-8854	9.5	53
152	Ultrasensitive electrochemical cancer cells sensor based on trimetallic dendritic Au@PtPd nanoparticles for signal amplification on lab-on-paper device. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 665-672	8.5	52
151	Multiplexed enzyme-free electrochemical immunosensor based on ZnO nanorods modified reduced graphene oxide-paper electrode and silver deposition-induced signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 30-36	11.8	52
150	"On-Off-On" Photoelectrochemical/Visual Lab-on-Paper Sensing via Signal Amplification of CdS Quantum Dots@Leaf-Shape ZnO and Quenching of Au-Modified Prism-Anchored Octahedral CeO Nanoparticles. <i>Analytical Chemistry</i> , 2018 , 90, 11297-11304	7.8	52
149	Graphene functionalized porous Au-paper based electrochemiluminescence device for detection of DNA using luminescent silver nanoparticles coated calcium carbonate/carboxymethyl chitosan hybrid microspheres as labels. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 307-13	11.8	51
148	Development of a novel deltamethrin sensor based on molecularly imprinted silica nanospheres embedded CdTe quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 1704-9	4.4	51
147	Layer-by-layer self-assembly CdTe quantum dots and molecularly imprinted polymers modified chemiluminescence sensor for deltamethrin detection. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 222-227	8.5	51
146	A Graphene-enhanced imaging of microRNA with enzyme-free signal amplification of catalyzed hairpin assembly in living cells. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 909-914	11.8	49
145	Metal-Enhanced Ratiometric Fluorescence/Naked Eye Bimodal Biosensor for Lead Ions Analysis with Bifunctional Nanocomposite Probes. <i>Analytical Chemistry</i> , 2017 , 89, 3597-3605	7.8	47
144	Photoelectrochemical sensor based on molecularly imprinted film modified hierarchical branched titanium dioxide nanorods for chlorpyrifos detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 251, 1-8	8.5	47
143	Disposable electrochemical immunosensor based on peroxidase-like magnetic silica/graphene oxide composites for detection of cancer antigen 153. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 317-326	8.5	47
142	A disposable immunosensor device for point-of-care test of tumor marker based on copper-mediated amplification. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 425-31	11.8	47
141	Cyto-sensing in electrochemical lab-on-paper cyto-device for in-situ evaluation of multi-glycan expressions on cancer cells. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 232-239	11.8	46
140	Ultrasensitive Enzyme-free Biosensor by Coupling Cyclodextrin Functionalized Au Nanoparticles and High-Performance Au-Paper Electrode. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3333-3340	9.5	46

139	Electrochemical K-562 cells sensor based on origami paper device for point-of-care testing. <i>Talanta</i> , 2015 , 145, 12-9	6.2	45
138	A paper-based electrochemiluminescence electrode as an aptamer-based cytosensor using PtNi@carbon dots as nanolabels for detection of cancer cells and for in-situ screening of anticancer drugs. <i>Mikrochimica Acta</i> , 2016 , 183, 1873-1880	5.8	43
137	Hand-drawn&written pen-on-paper electrochemiluminescence immunodevice powered by rechargeable battery for low-cost point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 21-7	11.8	43
136	Ultrasensitive electrochemical immunosensor for CA 15-3 using thionine-nanoporous gold-graphene as a platform and horseradish peroxidase-encapsulated liposomes as signal amplification. <i>Analyst, The</i> , 2012 , 137, 4440-7	5	43
135	An origami electrochemiluminescence immunosensor based on gold/graphene for specific, sensitive point-of-care testing of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 247-254	8.5	42
134	Development of a 3D origami multiplex electrochemical immunodevice using a nanoporous silver-paper electrode and metal ion functionalized nanoporous gold-chitosan. <i>Chemical Communications</i> , 2013 , 49, 9540-2	5.8	42
133	BSA activated CdTe quantum dot nanosensor for antimony ion detection. <i>Analyst, The</i> , 2010 , 135, 111-5	5	42
132	Paper-based biosensor relying on flower-like reduced graphene guided enzymatically deposition of polyaniline for Pb(2+) detection. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 215-221	11.8	41
131	Paper-based electrochemical immunosensor for carcinoembryonic antigen based on three dimensional flower-like gold electrode and gold-silver bimetallic nanoparticles. <i>Electrochimica Acta</i> , 2014 , 147, 650-656	6.7	38
130	Fluorescence "turn-on" determination of H ₂ O ₂ using multilayer porous SiO ₂ /NGQDs and PdAu mimetics enzymatic/oxidative cleavage of single-stranded DNA. <i>Biosensors and Bioelectronics</i> , 2016 , 82, 204-11	11.8	35
129	Paper-based closed Au-Bipolar electrode electrochemiluminescence sensing platform for the detection of miRNA-155. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111917	11.8	35
128	Platelike WO ₃ sensitized with CdS quantum dots heterostructures for photoelectrochemical dynamic sensing of H ₂ O ₂ based on enzymatic etching. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 205-211	11.8	35
127	Paper-Based Electronics: Flexible Electronics Based on Micro/Nanostructured Paper (Adv. Mater. 51/2018). <i>Advanced Materials</i> , 2018 , 30, 1870394	24	35
126	Stackable Lab-on-Paper Device with All-in-One Au Electrode for High-Efficiency Photoelectrochemical Cyto-Sensing. <i>Analytical Chemistry</i> , 2018 , 90, 7212-7220	7.8	35
125	Microfluidic paper-based multiplex colorimetric immunodevice based on the catalytic effect of Pd/Fe ₃ O ₄ @C peroxidase mimetics on multiple chromogenic reactions. <i>Analytica Chimica Acta</i> , 2015 , 862, 70-6	6.6	34
124	Electrochemical device based on a Pt nanosphere-paper working electrode for in situ and real-time determination of the flux of H ₂ O ₂ releasing from SK-BR-3 cancer cells. <i>Chemical Communications</i> , 2014 , 50, 10315-8	5.8	34
123	Self-powered and sensitive DNA detection in a three-dimensional origami-based biofuel cell based on a porous Pt-paper cathode. <i>Chemistry - A European Journal</i> , 2014 , 20, 12453-62	4.8	34
122	A 3D origami multiple electrochemiluminescence immunodevice based on a porous silver-paper electrode and multi-labeled nanoporous gold-carbon spheres. <i>Chemical Communications</i> , 2013 , 49, 7687-9	5.8	33

121	On-line molecular imprinted solid-phase extraction flow-injection fluorescence sensor for determination of florfenicol in animal tissues. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 52, 615-9	3.5	33
120	Metal-enhanced fluorescence/visual bimodal platform for multiplexed ultrasensitive detection of microRNA with reusable paper analytical devices. <i>Biosensors and Bioelectronics</i> , 2017 , 95, 181-188	11.8	32
119	Self-powered competitive immunosensor driven by biofuel cell based on hollow-channel paper analytical devices. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 18-24	11.8	32
118	AgInSe-Sensitized ZnO Nanoflower Wide-Spectrum Response Photoelectrochemical/Visual Sensing Platform via Au@Nanorod-Anchored CeO Octahedron Regulated Signal. <i>Analytical Chemistry</i> , 2020 , 92, 7604-7611	7.8	32
117	Photoelectrochemical detection of tumor markers based on a CdS quantum dot/ZnO nanorod/Au@Pt-paper electrode 3D origami immunodevice. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2426-2432	7.3	32
116	Electrochemiluminescence device for in-situ and accurate determination of CA153 at the MCF-7 cell surface based on graphene quantum dots loaded surface villous Au nanocage. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 286-293	11.8	31
115	An aldehyde group-based P-acid probe for selective fluorescence turn-on sensing of cysteine and homocysteine. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 17-23	11.8	31
114	A 3D origami electrochemical immunodevice based on a Au@Pd alloy nanoparticle-paper electrode for the detection of carcinoembryonic antigen. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6669-6674	7.3	31
113	Rechargeable battery-triggered electrochemiluminescence detection on microfluidic origami immunodevice based on two electrodes. <i>Chemical Communications</i> , 2012 , 48, 9971-3	5.8	31
112	Paper-Based Bipolar Electrode Electrochemiluminescence Platform for Detection of Multiple miRNAs. <i>Analytical Chemistry</i> , 2021 , 93, 1702-1708	7.8	30
111	A molecularly imprinted polypyrrole for ultrasensitive voltammetric determination of glyphosate. <i>Mikrochimica Acta</i> , 2017 , 184, 1959-1967	5.8	29
110	A disposable paper-based electrochemiluminescence device for ultrasensitive monitoring of CEA based on Ru(bpy) ₃ ²⁺ @Au nanocages. <i>RSC Advances</i> , 2015 , 5, 28324-28331	3.7	29
109	Disposable electrochemical immunosensor for simultaneous assay of a panel of breast cancer tumor markers. <i>Analyst, The</i> , 2012 , 137, 4727-33	5	29
108	Electrogenerated Chemiluminescence from a Phenyleneethynylene Derivative and its Ultrasensitive Immunosensing Application Using a Nanotubular Mesoporous PtAg Alloy for Signal Amplification. <i>Advanced Functional Materials</i> , 2012 , 22, 3899-3906	15.6	29
107	Photoelectrochemical biosensor of HIV-1 based on cascaded photoactive materials and triple-helix molecular switch. <i>Biosensors and Bioelectronics</i> , 2019 , 139, 111325	11.8	28
106	Real-time visual determination of the flux of hydrogen sulphide using a hollow-channel paper electrode. <i>Chemical Communications</i> , 2015 , 51, 14030-3	5.8	28
105	Ultrasensitive detection of lead ion sensor based on gold nanodendrites modified electrode and electrochemiluminescent quenching of quantum dots by electrocatalytic silver/zinc oxide coupled structures. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 176-82	11.8	28
104	Flexible and Biocompatibility Power Source for Electronics: A Cellulose Paper Based Hole-Transport-Materials-Free Perovskite Solar Cell. <i>Solar Rrl</i> , 2018 , 2, 1800175	7.1	28

103	Aptamer based test stripe for ultrasensitive detection of mercury(II) using a phenylene-ethynylene reagent on nanoporous silver as a chemiluminescence reagent. <i>Mikrochimica Acta</i> , 2014 , 181, 663-670	5.8	27
102	Photoelectrochemical lab-on-paper device based on molecularly imprinted polymer and porous Au-paper electrode. <i>Analyt, The</i> , 2013 , 138, 4802-11	5	27
101	Application of Au cage/Ru(bpy) ₃ ²⁺ nanostructures for the electrochemiluminescence detection of K562 cancer cells based on aptamer. <i>Sensors and Actuators B: Chemical</i> , 2015 , 214, 144-151	8.5	26
100	An enhanced photoelectrochemical platform: graphite-like carbon nitride nanosheet-functionalized ZnO nanotubes. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4980-4987	7.3	26
99	Cathode Photoelectrochemical Paper Device for microRNA Detection Based on Cascaded Photoactive Structures and Hemin/Pt Nanoparticle-Decorated DNA Dendrimers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17177-17184	9.5	25
98	Fluorescence resonance energy transfer sensor between quantum dot donors and neutral red acceptors and its detection of BSA in micelles. <i>Dyes and Pigments</i> , 2011 , 91, 304-308	4.6	25
97	Low-Power and High-Performance Trimethylamine Gas Sensor Based on n-n Heterojunction Microbelts of Perylene Diimide/CdS. <i>Analytical Chemistry</i> , 2019 , 91, 5591-5598	7.8	24
96	Paper-based sandwich type SERS sensor based on silver nanoparticles and biomimetic recognizer. <i>Sensors and Actuators B: Chemical</i> , 2020 , 313, 127989	8.5	24
95	Electrochemiluminescence of graphitic carbon nitride and its application in ultrasensitive detection of lead(II) ions. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7181-91	4.4	24
94	Ultrasensitive photoelectrochemical immunoassay based on CdS@Cu ₂ O co-sensitized porous ZnO nanosheets and promoted by multiwalled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 234, 658-666	8.5	24
93	Auto-cleaning paper-based electrochemiluminescence biosensor coupled with binary catalysis of cubic CuO-Au and polyethyleneimine for quantification of Ni and Hg. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 339-345	11.8	24
92	Co ₃ O ₄ -Au polyhedron mimic peroxidase- and cascade enzyme-assisted cycling process-based photoelectrochemical biosensor for monitoring of miRNA-141. <i>Chemical Engineering Journal</i> , 2021 , 406, 126892	14.7	24
91	Electrochemical biosensor for p53 gene based on HRP-mimicking DNAzyme-catalyzed deposition of polyaniline coupled with hybridization chain reaction. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 210-216	8.5	23
90	Real-time and in situ enzyme inhibition assay for the flux of hydrogen sulfide based on 3D interwoven AuPd-reduced graphene oxide network. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 53-58	11.8	23
89	Paper-Based Analytical Devices Relying on Visible-Light-Enhanced Glucose/Air Biofuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24330-7	9.5	22
88	Triggerable HO-Cleavable Switch of Paper-Based Biochips Endows Precision of Chemometer/Ratiometric Electrochemical Quantification of Analyte in High-Efficiency Point-of-Care Testing. <i>Analytical Chemistry</i> , 2019 , 91, 10273-10281	7.8	22
87	Internal Light Source-Driven Photoelectrochemical 3D-rGO/Cellulose Device Based on Cascade DNA Amplification Strategy Integrating Target Analog Chain and DNA Mimic Enzyme. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37839-37847	9.5	21
86	Paper based modification-free photoelectrochemical sensing platform with single-crystalline aloe like TiO as electron transporting material for cTnI detection. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 17-23	11.8	21

85	A 3D electrochemical immunodevice based on a porous Pt-paper electrode and metal ion functionalized flower-like Au nanoparticles. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2764-2769	7.3	21
84	Reversible electron storage in tandem photoelectrochemical cell for light driven unassisted overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119094	21.8	21
83	Hierarchical hematite/TiO nanorod arrays coupled with responsive mesoporous silica nanomaterial for highly sensitive photoelectrochemical sensing. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 515-521	11.8	21
82	A chemiluminescence excited photoelectrochemistry aptamer-device equipped with a tin dioxide quantum dot/reduced graphene oxide nanocomposite modified porous Au-paper electrode. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3462-3468	7.3	21
81	Fluorescence immunosensor based on p-acid-encapsulated silica nanoparticles for tumor marker detection. <i>Analyst, The</i> , 2012 , 137, 2834-9	5	21
80	Paper-Based Constant Potential Electrochemiluminescence Sensing Platform with Black Phosphorus as a Luminophore Enabled by a Perovskite Solar Cell. <i>Analytical Chemistry</i> , 2020 , 92, 6822-6828	7.8	20
79	Electrochemiluminescence based detection of microRNA by applying an amplification strategy and Hg(II)-triggered disassembly of a metal organic frameworks functionalized with ruthenium(II)tris(bipyridine). <i>Mikrochimica Acta</i> , 2018 , 185, 133	5.8	20
78	Steric paper based ratio-type electrochemical biosensor with hollow-channel for sensitive detection of Zn ²⁺ . <i>Science Bulletin</i> , 2017 , 62, 1114-1121	10.6	20
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