

Shenguang Ge

List of Publications by Year in descending order

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Version: 2024-02-01

219
papers

11,353
citations

19608

61
h-index

42291

92
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223
all docs

223
docs citations

223
times ranked

9363
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-based chemiluminescence ELISA: Lab-on-paper based on chitosan modified paper device and wax-screen-printing. <i>Biosensors and Bioelectronics</i> , 2012, 31, 212-218.	5.3	396
2	Three-dimensional paper-based electrochemiluminescence immunodevice for multiplexed measurement of biomarkers and point-of-care testing. <i>Biomaterials</i> , 2012, 33, 1024-1031.	5.7	344
3	Microfluidic paper-based chemiluminescence biosensor for simultaneous determination of glucose and uric acid. <i>Lab on A Chip</i> , 2011, 11, 1286.	3.1	296
4	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.	3.1	257
5	Flexible Electronics Based on Micro/Nanostructured Paper. <i>Advanced Materials</i> , 2018, 30, e1801588.	11.1	249
6	Electrochemical biosensor based on graphene oxide@Au nanoclusters composites for l-cysteine analysis. <i>Biosensors and Bioelectronics</i> , 2012, 31, 49-54.	5.3	205
7	A novel chemiluminescence paper microfluidic biosensor based on enzymatic reaction for uric acid determination. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3284-3289.	5.3	178
8	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, 544-550.	5.3	177
9	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. <i>Chemical Communications</i> , 2014, 50, 1417-1419.	2.2	166
10	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.	2.6	161
11	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, 238-243.	5.3	159
12	Photoelectrochemical Lab-on-Paper Device Based on an Integrated Paper Supercapacitor and Internal Light Source. <i>Analytical Chemistry</i> , 2013, 85, 3961-3970.	3.2	142
13	Paper-Based Electrochemiluminescent 3D Immunodevice for Lab-On-Paper, Specific, and Sensitive Point-of-Care Testing. <i>Chemistry - A European Journal</i> , 2012, 18, 4938-4945.	1.7	132
14	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.	4.0	129
15	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.	4.0	118
16	Molecularly Imprinted Polymer Grafted Porous Au@Paper Electrode for an Microfluidic Electro-Analytical Origami Device. <i>Advanced Functional Materials</i> , 2013, 23, 3115-3123.	7.8	115
17	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. <i>Lab on A Chip</i> , 2012, 12, 4489.	3.1	114
18	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.	5.3	108

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19	Ultrasensitive electrochemiluminescence assay of tumor cells and evaluation of H ₂ O ₂ on a paper-based closed-bipolar electrode by in-situ hybridization chain reaction amplification. <i>Biosensors and Bioelectronics</i> , 2018, 102, 411-417.	5.3	108
20	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.	5.3	107
21	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.	4.0	107
22	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, 5369-5377.	3.2	105
23	Nanomaterials-modified cellulose paper as a platform for biosensing applications. <i>Nanoscale</i> , 2017, 9, 4366-4382.	2.8	102
24	In-situ synthesized polypyrrole-cellulose conductive networks for potential-tunable foldable power paper. <i>Nano Energy</i> , 2017, 31, 174-182.	8.2	100
25	A disposable paper-based electrochemical sensor with an addressable electrode array for cancer screening. <i>Chemical Communications</i> , 2012, 48, 9397.	2.2	99
26	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, 475-477.	2.2	99
27	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.	5.3	96
28	Molecularly imprinted polymer grafted paper-based multi-disk micro-disk plate for chemiluminescence detection of pesticide. <i>Biosensors and Bioelectronics</i> , 2013, 50, 262-268.	5.3	91
29	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, 684-690.	5.3	91
30	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.	4.0	90
31	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.	4.0	89
32	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.	4.0	88
33	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.	2.6	87
34	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.	2.6	85
35	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.	5.3	85
36	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</i> , 2013, 138, 939-945.	1.7	84

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37	Paper-Based Bipolar Electrode Electrochemiluminescence Platform for Detection of Multiple miRNAs. <i>Analytical Chemistry</i> , 2021, 93, 1702-1708.	3.2	84
38	A paper-based photoelectrochemical immunoassay for low-cost and multiplexed point-of-care testing. <i>Chemical Communications</i> , 2013, 49, 3294.	2.2	83
39	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.	5.3	81
40	Simple and covalent fabrication of a paper device and its application in sensitive chemiluminescence immunoassay. <i>Analyst</i> , 2012, 137, 3821.	1.7	80
41	A microfluidic origami electrochemiluminescence aptamer-device based on a porous Au-paper electrode and a phenyleneethynylene derivative. <i>Chemical Communications</i> , 2013, 49, 1383-1385.	2.2	80
42	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.	4.0	79
43	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.	5.8	77
44	Visible photoelectrochemical sensing platform by in situ generated CdS quantum dots decorated branched-TiO ₂ nanorods equipped with Prussian blue electrochromic display. <i>Biosensors and Bioelectronics</i> , 2017, 89, 859-865.	5.3	77
45	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.	3.1	76
46	Facile and sensitive paper-based chemiluminescence DNA biosensor using carbon dots dotted nanoporous gold signal amplification label. <i>Analytical Methods</i> , 2013, 5, 1328.	1.3	76
47	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.	2.2	76
48	Lab-on-paper-based devices using chemiluminescence and electrogenerated chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5613-5630.	1.9	73
49	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.	2.6	72
50	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.	5.3	71
51	Multiplex electrochemical origami immunodevice based on cuboid silver-paper electrode and metal ions tagged nanoporous silver-chitosan. <i>Biosensors and Bioelectronics</i> , 2014, 56, 167-173.	5.3	69
52	Applications of graphene and related nanomaterials in analytical chemistry. <i>New Journal of Chemistry</i> , 2015, 39, 2380-2395.	1.4	69
53	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, 416-422.	5.3	66
54	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.	2.6	65

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55	Electrophoretic separation in a microfluidic paper-based analytical device with an on-column wireless electrogenerated chemiluminescence detector. <i>Chemical Communications</i> , 2014, 50, 5699.	2.2	65
56	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 ₂ Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 11297-11304.	3.2	65
57	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.	5.4	64
58	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.	4.0	64
59	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.	5.3	63
60	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.	4.0	63
61	All-graphene composite materials for signal amplification toward ultrasensitive electrochemical immunosensing of tumor marker. <i>Biosensors and Bioelectronics</i> , 2015, 71, 108-114.	5.3	62
62	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, 111-117.	5.3	61
63	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.	5.3	60
64	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.	4.0	60
65	Ultrasensitive electrochemiluminescence immunoassay for tumor marker detection using functionalized Ru-silica@nanoporous gold composite as labels. <i>Analyst</i> , 2012, 137, 680-685.	1.7	59
66	In situ grown COFs on 3D strutted graphene aerogel for electrochemical detection of NO released from living cells. <i>Chemical Engineering Journal</i> , 2021, 420, 127559.	6.6	59
67	3D DNA Walker-Assisted CRISPR/Cas12a Trans-Cleavage for Ultrasensitive Electrochemiluminescence Detection of miRNA-141. <i>Analytical Chemistry</i> , 2021, 93, 13373-13381.	3.2	59
68	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, 1704-1709.	2.0	58
69	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.	5.3	58
70	Paper-based closed Au-Bipolar electrode electrochemiluminescence sensing platform for the detection of miRNA-155. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111917.	5.3	58
71	AgInSe ₂ -Sensitized ZnO Nanoflower Wide-Spectrum Response Photoelectrochemical/Visual Sensing Platform via Au@Nanorod-Anchored CeO ₂ Octahedron Regulated Signal. <i>Analytical Chemistry</i> , 2020, 92, 7604-7611.	3.2	58
72	A disposable immunosensor device for point-of-care test of tumor marker based on copper-mediated amplification. <i>Biosensors and Bioelectronics</i> , 2013, 43, 425-431.	5.3	56

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73	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.	4.0	55
74	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.	4.0	54
75	Paper-Based Electronics: Flexible Electronics Based on Micro/Nanostructured Paper (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT/Overlo	11.1	54
76	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, 307-313.	5.3	52
77	Metal-Enhanced Ratiometric Fluorescence/Naked Eye Bimodal Biosensor for Lead Ions Analysis with Bifunctional Nanocomposite Probes. <i>Analytical Chemistry</i> , 2017, 89, 3597-3605.	3.2	52
78	Electrochemical K-562 cells sensor based on origami paper device for point-of-care testing. <i>Talanta</i> , 2015, 145, 12-19.	2.9	51
79	BSA activated CdTe quantum dot nanosensor for antimony ion detection. <i>Analyst, The</i> , 2010, 135, 111-115.	1.7	50
80	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.	2.5	49
81	Ultrasensitive Microfluidic Paper-Based Electrochemical/Visual Analytical Device via Signal Amplification of Pd@Hollow Zn/Co Core@Shell ZIF67/ZIF8 Nanoparticles for Prostate-Specific Antigen Detection. <i>Analytical Chemistry</i> , 2021, 93, 5459-5467.	3.2	49
82	Ultrasensitive electrochemical immunosensor for CA15-3 using thionine-nanoporous gold@graphene as a platform and horseradish peroxidase-encapsulated liposomes as signal amplification. <i>Analyst, The</i> , 2012, 137, 4440.	1.7	48
83	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.	4.0	48
84	A molecularly imprinted polypyrrole for ultrasensitive voltammetric determination of glyphosate. <i>Mikrochimica Acta</i> , 2017, 184, 1959-1967.	2.5	48
85	Near-Infrared Light-Initiated Photoelectrochemical Biosensor Based on Upconversion Nanorods for Immobilization-Free miRNA Detection with Double Signal Amplification. <i>Analytical Chemistry</i> , 2021, 93, 11251-11258.	3.2	47
86	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, 21-27.	5.3	46
87	Microfluidic paper-based multiplex colorimetric immunodevice based on the catalytic effect of Pd/Fe3O4@C peroxidase mimetics on multiple chromogenic reactions. <i>Analytica Chimica Acta</i> , 2015, 862, 70-76.	2.6	46
88	Platelike WO3 sensitized with CdS quantum dots heterostructures for photoelectrochemical dynamic sensing of H2O2 based on enzymatic etching. <i>Biosensors and Bioelectronics</i> , 2016, 85, 205-211.	5.3	46
89	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.	3.2	46
90	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.	4.0	46

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91	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.	6.6	46
92	A Target-Driven Self-Feedback Paper-Based Photoelectrochemical Sensing Platform for Ultrasensitive Detection of Ochratoxin A with an In ₂ S ₃ /WO ₃ Heterojunction Structure. <i>Analytical Chemistry</i> , 2022, 94, 1705-1712.	3.2	45
93	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.	2.2	44
94	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.	5.3	44
95	Ternary Electrochemiluminescence Biosensor Based on DNA Walkers and AuPd Nanomaterials as a Coreaction Accelerator for the Detection of miRNA-141. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25783-25791.	4.0	44
96	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, 204-211.	5.3	43
97	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, 12453-12462.	1.7	42
98	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.	2.6	42
99	Dual-Mode Aptasensor Assembled by a WO ₃ /Fe ₂ O ₃ Heterojunction for Paper-Based Colorimetric Prediction/Photoelectrochemical Multicomponent Analysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3645-3652.	4.0	42
100	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.	2.2	41
101	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.	5.3	41
102	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.	5.3	40
103	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.	5.3	38
104	A self-powered origami paper analytical device with a pop-up structure for dual-mode electrochemical sensing of ATP assisted by glucose oxidase-triggered reaction. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111839.	5.3	38
105	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.	2.2	37
106	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.	3.1	37
107	Photoelectrochemical biosensor of HIV-1 based on cascaded photoactive materials and triple-helix molecular switch. <i>Biosensors and Bioelectronics</i> , 2019, 139, 111325.	5.3	37
108	Reversible electron storage in tandem photoelectrochemical cell for light driven unassisted overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119094.	10.8	37

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109	Rechargeable battery-triggered electrochemiluminescence detection on microfluidic origami immunodevice based on two electrodes. <i>Chemical Communications</i> , 2012, 48, 9971.	2.2	36
110	Disposable electrochemical immunosensor for simultaneous assay of a panel of breast cancer tumor markers. <i>Analyst</i> , 2012, 137, 4727.	1.7	36
111	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.	2.9	36
112	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.	2.9	36
113	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.	3.2	36
114	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, 615-619.	1.4	35
115	Self-powered competitive immunosensor driven by biofuel cell based on hollow-channel paper analytical devices. <i>Biosensors and Bioelectronics</i> , 2015, 71, 18-24.	5.3	35
116	Bi ₂ S ₃ @MoS ₂ Nanoflowers on Cellulose Fibers Combined with Octahedral CeO ₂ for Dual-Mode Microfluidic Paper-Based MiRNA-141 Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32780-32789.	4.0	35
117	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.	4.0	34
118	Auto-cleaning paper-based electrochemiluminescence biosensor coupled with binary catalysis of cubic Cu ₂ O-Au and polyethyleneimine for quantification of Ni ²⁺ and Hg ²⁺ . <i>Biosensors and Bioelectronics</i> , 2019, 126, 339-345.	5.3	34
119	Two-dimensional black phosphorus nanoflakes: A coreactant-free electrochemiluminescence luminophors for selective Pb ²⁺ detection based on resonance energy transfer. <i>Journal of Hazardous Materials</i> , 2021, 403, 123601.	6.5	34
120	Engineering paper-based visible light-responsive Sn-self doped domed SnO ₂ nanotubes for ultrasensitive photoelectrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2021, 185, 113250.	5.3	34
121	Ultrathin MoSe ₂ nanosheet anchored CdS-ZnO functional paper chip as a highly efficient tandem Z-scheme heterojunction photoanode for scalable photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120184.	10.8	34
122	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.	1.7	33
123	Paper-based sandwich type SERS sensor based on silver nanoparticles and biomimetic recognizer. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 127989.	4.0	33
124	Photoelectrochemical lab-on-paper device based on molecularly imprinted polymer and porous Au-paper electrode. <i>Analyst</i> , 2013, 138, 4802.	1.7	32
125	Triggerable H ₂ O ₂ "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.	3.2	32
126	Paper-Supported Self-Powered System Based on a Glucose/O ₂ Biofuel Cell for Visual MicroRNA-21 Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5114-5122.	4.0	32

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127	Paper-Based Constant Potential Electrochemiluminescence Sensing Platform with Black Phosphorus as a Lumiphore Enabled by a Perovskite Solar Cell. <i>Analytical Chemistry</i> , 2020, 92, 6822-6826.	3.2	32
128	Cathode-Anode Spatial Division Photoelectrochemical Platform Based on a One-Step DNA Walker for Monitoring of miRNA-21. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35389-35396.	4.0	32
129	Dual-Engine Powered Paper Photoelectrochemical Platform Based on 3D DNA Nanomachine-Mediated CRISPR/Cas12a for Detection of Multiple miRNAs. <i>Analytical Chemistry</i> , 2022, 94, 8075-8084.	3.2	32
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