Yan Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

96 papers	5,023 citations	76196 40 h-index	95083 68 g-index
97 all docs	97 docs citations	97 times ranked	6076 citing authors

#	Article	IF	Citations
1	Paper-Based Bipolar Electrode Electrochemiluminescence Platform Combined with Pencil-Drawing Trace for the Detection of M.SssI Methyltransferase. Analytical Chemistry, 2022, 94, 8327-8334.	3.2	38
2	Ratiometric electrochemiluminescence lab-on-paper device for DNA methylation determination based on highly conductive copper paper electrode. Biosensors and Bioelectronics, 2022, 214, 114522.	5.3	7
3	Co3O4-Au polyhedron mimic peroxidase- and cascade enzyme-assisted cycling process-based photoelectrochemical biosensor for monitoring of miRNA-141. Chemical Engineering Journal, 2021, 406, 126892.	6.6	46
4	In situ grown COFs on 3D strutted graphene aerogel for electrochemical detection of NO released from living cells. Chemical Engineering Journal, 2021, 420, 127559.	6.6	59
5	Facile synthesis of novel dopamine-modified glass fibers for improving alkali resistance of fibers and flexural strength of fiber-reinforced cement. RSC Advances, 2021, 11, 18818-18826.	1.7	7
6	Porphyrin-Based Covalent Organic Framework Thin Films as Cathodic Materials for â€œOnâ€“Offâ€“Onâ€• Photoelectrochemical Sensing of Lead Ions. ACS Applied Materials & Interfaces, 2021, 13, 20397-20404.	4.0	89
7	Self-Circulation Oxygenâ€“Hydrogen Peroxideâ€“Oxygen System for Ultrasensitive Cathode Photoelectrochemical Bioassay Using a Stacked Sealed Paper Device. ACS Applied Materials & Interfaces, 2021, 13, 19793-19802.	4.0	19
8	Enhanced triethylamine sensing performance of superfine NiO nanoparticles decoration by two-dimensional hexagonal boron nitride. Advanced Powder Technology, 2021, 32, 3801-3813.	2.0	6
9	Multiple cooperative amplification paper SERS aptasensor based on AuNPs/3D succulent-like silver for okadaic acid quantization. Sensors and Actuators B: Chemical, 2021, 344, 130174.	4.0	23
10	All-sealed paper-based electrochemiluminescence platform for on-site determination of lead ions. Biosensors and Bioelectronics, 2021, 192, 113524.	5.3	17
11	Non-covalent interaction-driven self-assembly of perylene diimide on rGO for room-temperature sensing of triethylamine with enhanced immunity to humidity. Chemical Engineering Journal, 2020, 385, 123397.	6.6	31
12	3D synergistical rGO/Eu(TPyP)(Pc) hybrid aerogel for high-performance NO2 gas sensor with enhanced immunity to humidity. Journal of Hazardous Materials, 2020, 384, 121426.	6.5	39
13	Ultrasensitive Photoelectrochemical Detection of MicroRNA on Paper by Combining a Cascade Nanozyme-Engineered Biocatalytic Precipitation Reaction and Target-Triggerable DNA Motor. ACS Sensors, 2020, 5, 1482-1490.	4.0	74
14	Paper-based sandwich type SERS sensor based on silver nanoparticles and biomimetic recognizer. Sensors and Actuators B: Chemical, 2020, 313, 127989.	4.0	33
15	DNAzyme-Triggered Visual and Ratiometric Electrochemiluminescence Dual-Readout Assay for Pb(II) Based on an Assembled Paper Device. Analytical Chemistry, 2020, 92, 3874-3881.	3.2	117
16	Triggerable H₂O₂â€“Cleavable Switch of Paper-Based Biochips Endows Precision of Chemometer/Ratiometric Electrochemical Quantification of Analyte in High-Efficiency Point-of-Care Testing. Analytical Chemistry, 2019, 91, 10273-10281.	3.2	32
17	Noninvasive and Wearable Respiration Sensor Based on Organic Semiconductor Film with Strong Electron Affinity. Analytical Chemistry, 2019, 91, 10320-10327.	3.2	24
18	Photoelectrochemical biosensor of HIV-1 based on cascaded photoactive materials and triple-helix molecular switch. Biosensors and Bioelectronics, 2019, 139, 111325.	5.3	37

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19	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. Mikrochimica Acta, 2019, 186, 320.	2.5	15
20	Low-Power and High-Performance Trimethylamine Gas Sensor Based on n-n Heterojunction Microbelts of Perylene Diimide/CdS. Analytical Chemistry, 2019, 91, 5591-5598.	3.2	36
21	Mimic peroxidase-transfer enhancement of photoelectrochemical aptasensing via CuO nanoflowers functionalized lab-on-paper device with a controllable fluid separator. Biosensors and Bioelectronics, 2019, 133, 32-38.	5.3	19
22	Auto-cleaning paper-based electrochemiluminescence biosensor coupled with binary catalysis of cubic Cu2O-Au and polyethyleneimine for quantification of Ni2+ and Hg2+. Biosensors and Bioelectronics, 2019, 126, 339-345.	5.3	34
23	Editable TiO₂ Nanomaterial-Modified Paper in Situ for Highly Efficient Detection of Carcinoembryonic Antigen by Photoelectrochemical Method. ACS Applied Materials & Interfaces, 2018, 10, 14594-14601.	4.0	52
24	Dual-mode fluorescence biosensor platform based on T-shaped duplex structure for detection of microRNA and folate receptor. Sensors and Actuators B: Chemical, 2018, 261, 44-50.	4.0	19
25	Ultrasensitive Enzyme-free Biosensor by Coupling Cyclodextrin Functionalized Au Nanoparticles and High-Performance Au-Paper Electrode. ACS Applied Materials & Interfaces, 2018, 10, 3333-3340.	4.0	60
26	Colorimetric and Electrochemiluminescence Dual-Mode Sensing of Lead Ion Based on Integrated Lab-on-Paper Device. ACS Applied Materials & Interfaces, 2018, 10, 3431-3440.	4.0	90
27	Paperâ€Based Electronics: Flexible Electronics Based on Micro/Nanostructured Paper (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	11.1	54
28	Highly conductive and bendable gold networks attached on intertwined cellulose fibers for output controllable power paper. Journal of Materials Chemistry A, 2018, 6, 19611-19620.	5.2	25
29	Addressable TiO₂ Nanotubes Functionalized Paper-Based Cyto-Sensor with Photocontrollable Switch for Highly-Efficient Evaluating Surface Protein Expressions of Cancer Cells. Analytical Chemistry, 2018, 90, 13882-13890.	3.2	74
30	Stackable Lab-on-Paper Device with All-in-One Au Electrode for High-Efficiency Photoelectrochemical Cyto-Sensing. Analytical Chemistry, 2018, 90, 7212-7220.	3.2	46
31	Flexible Electronics Based on Micro/Nanostructured Paper. Advanced Materials, 2018, 30, e1801588.	11.1	249
32	â€œOnâ€“Offâ€“Onâ€•Photoelectrochemical/Visual Lab-on-Paper Sensing via Signal Amplification of CdS Quantum Dots@Leaf-Shape ZnO and Quenching of Au-Modified Prism-Anchored Octahedral CeO₂ Nanoparticles. Analytical Chemistry, 2018, 90, 11297-11304.	3.2	65
33	Nanomaterials-modified cellulose paper as a platform for biosensing applications. Nanoscale, 2017, 9, 4366-4382.	2.8	102
34	A molecularly imprinted polypyrrole for ultrasensitive voltammetric determination of glyphosate. Mikrochimica Acta, 2017, 184, 1959-1967.	2.5	48
35	Sudoku-like Lab-on-Paper Cyto-Device with Dual Enhancement of Electrochemiluminescence Intermediates Strategy. Analytical Chemistry, 2017, 89, 7511-7519.	3.2	49
36	Fabrication of Lab-on-Paper Using Porous Au-Paper Electrode: Application to Tumor Marker Electrochemical Immunoassays. Methods in Molecular Biology, 2017, 1572, 125-134.	0.4	2

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37	Internal Light Source-Driven Photoelectrochemical 3D-rGO/Cellulose Device Based on Cascade DNA Amplification Strategy Integrating Target Analog Chain and DNA Mimic Enzyme. ACS Applied Materials & Interfaces, 2017, 9, 37839-37847.	4.0	26
38	Cerium Dioxide-Mediated Signal â€œOnâ€“Offâ€•by Resonance Energy Transfer on a Lab-On-Paper Device for Ultrasensitive Detection of Lead Ions. ACS Applied Materials & Interfaces, 2017, 9, 32591-32598.	4.0	21
39	Steric paper based ratio-type electrochemical biosensor with hollow-channel for sensitive detection of Zn2+. Science Bulletin, 2017, 62, 1114-1121.	4.3	29
40	Rapid and Reliable Detection of Alkaline Phosphatase by a Hot Spots Amplification Strategy Based on Well-Controlled Assembly on Single Nanoparticle. ACS Applied Materials & Interfaces, 2017, 9, 29547-29553.	4.0	81
41	Real-time and in situ enzyme inhibition assay for the flux of hydrogen sulfide based on 3D interwoven AuPd-reduced graphene oxide network. Biosensors and Bioelectronics, 2017, 87, 53-58.	5.3	24
42	In-situ synthesized polypyrrole-cellulose conductive networks for potential-tunable foldable power paper. Nano Energy, 2017, 31, 174-182.	8.2	100
43	Electrochemiluminescence of graphitic carbon nitride and its application in ultrasensitive detection of lead(II) ions. Analytical and Bioanalytical Chemistry, 2016, 408, 7181-7191.	1.9	26
44	An enhanced photoelectrochemical platform: graphite-like carbon nitride nanosheet-functionalized ZnO nanotubes. Journal of Materials Chemistry B, 2016, 4, 4980-4987.	2.9	31
45	Self-powered electronic-skin for detecting glucose level in body fluid basing on piezo-enzymatic-reaction coupling process. Nano Energy, 2016, 26, 148-156.	8.2	71
46	Ultrasensitive photoelectrochemical immunoassay based on CdS@Cu2O co-sensitized porous ZnO nanosheets and promoted by multiwalled carbon nanotubes. Sensors and Actuators B: Chemical, 2016, 234, 658-666.	4.0	29
47	Paper-Based Device for Colorimetric and Photoelectrochemical Quantification of the Flux of H₂O₂ Releasing from MCF-7 Cancer Cells. Analytical Chemistry, 2016, 88, 5369-5377.	3.2	105
48	Chemical and biochemical analysis on lab-on-a-chip devices fabricated using three-dimensional printing. TrAC - Trends in Analytical Chemistry, 2016, 85, 166-180.	5.8	77
49	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. Mikrochimica Acta, 2016, 183, 1873-1880.	2.5	49
50	Photoelectrochemical immunoassay based on chemiluminescence as internal excited light source. Sensors and Actuators B: Chemical, 2016, 234, 324-331.	4.0	23
51	Label-free colorimetric logic gates based on free gold nanoparticles and the coordination strategy between cytosine and silver ions. New Journal of Chemistry, 2016, 40, 5516-5522.	1.4	15
52	Multifunctional reduced graphene oxide trigged chemiluminescence resonance energy transfer: Novel signal amplification strategy for photoelectrochemical immunoassay of squamous cell carcinoma antigen. Biosensors and Bioelectronics, 2016, 79, 55-62.	5.3	27
53	Electrochemiluminescent molecular logic gates based on MCNTs for the multiplexed analysis of mercury(<scp>ii</scp>) and silver(<scp>i</scp>) ions. RSC Advances, 2016, 6, 26147-26154.	1.7	10
54	Paper-based biosensor relying on flower-like reduced graphene guided enzymatically deposition of polyaniline for Pb2+ detection. Biosensors and Bioelectronics, 2016, 80, 215-221.	5.3	44

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55	Gold nanorods-paper electrode based enzyme-free electrochemical immunoassay for prostate specific antigen using porous zinc oxide spheresâ€“silver nanoparticles nanocomposites as labels. New Journal of Chemistry, 2015, 39, 6062-6067.	1.4	41
56	An enhanced photoelectrochemical immunosensing platform: Supramolecular donorâ€“acceptor arrays by assembly of porphyrin and C 60. Biosensors and Bioelectronics, 2015, 68, 604-610.	5.3	28
57	An electrochemical immunoassay based on trepang-like gold electrodes and nanogold functionalized flower-like hierarchical carbon materials with improved sensitivity. New Journal of Chemistry, 2015, 39, 3452-3460.	1.4	4
58	A 3D electrochemical immunodevice based on a porous Pt-paper electrode and metal ion functionalized flower-like Au nanoparticles. Journal of Materials Chemistry B, 2015, 3, 2764-2769.	2.9	22
59	Application of CuS-functionalized ZnO nanoflakes for a paper-based photoelectrochemical immunoassay using an in situ electron donor producing strategy. New Journal of Chemistry, 2015, 39, 7012-7018.	1.4	16
60	Branched zinc oxide nanorods arrays modified paper electrode for electrochemical immunosensing by combining biocatalytic precipitation reaction and competitive immunoassay mode. Biosensors and Bioelectronics, 2015, 74, 823-829.	5.3	15
61	Electrochemical K-562 cells sensor based on origami paper device for point-of-care testing. Talanta, 2015, 145, 12-19.	2.9	51
62	Real-time visual determination of the flux of hydrogen sulphide using a hollow-channel paper electrode. Chemical Communications, 2015, 51, 14030-14033.	2.2	31
63	Ultrasensitive electrochemical cancer cells sensor based on trimetallic dendritic Au@PtPd nanoparticles for signal amplification on lab-on-paper device. Sensors and Actuators B: Chemical, 2015, 220, 665-672.	4.0	64
64	Multiplexed enzyme-free electrochemical immunosensor based on ZnO nanorods modified reduced graphene oxide-paper electrode and silver deposition-induced signal amplification strategy. Biosensors and Bioelectronics, 2015, 71, 30-36.	5.3	63
65	Paper-Based Analytical Devices Relying on Visible-Light-Enhanced Glucose/Air Biofuel Cells. ACS Applied Materials & Interfaces, 2015, 7, 24330-24337.	4.0	23
66	CuO-induced signal amplification strategy for multiplexed photoelectrochemical immunosensing using CdS sensitized ZnO nanotubes arrays as photoactive material and AuPd alloy nanoparticles as electron sink. Biosensors and Bioelectronics, 2015, 66, 565-571.	5.3	44
67	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. Biosensors and Bioelectronics, 2015, 65, 176-182.	5.3	30
68	Chemiluminescence excited paper-based photoelectrochemical competitive immunosensing based on porous ZnO spheres and CdS nanorods. Journal of Materials Chemistry B, 2014, 2, 7679-7684.	2.9	23
69	Sandwich-type electrochemiluminescence immunosensor based on poly(acrylic acid) coated Fe3O4 composite for human chorionic gonadotrophin detection using quantum dots functionalized CNTs as labels. Monatshefte FÃ¼r Chemie, 2014, 145, 147-154.	0.9	2
70	Auâ€“Pt nanoparticle-based electrochemiluminescence immunoassay of a cancer biomarker using ZnO nanospheres coated with CdTe quantum dots as labels. Monatshefte FÃ¼r Chemie, 2014, 145, 121-127.	0.9	2
71	Magnetic nanoparticle-based electrochemiluminescent immunosensor for detection of carcinoembryonic antigen based on silica nanosphere@gold nanoparticles-Ru as labels. Monatshefte FÃ¼r Chemie, 2014, 145, 113-120.	0.9	3
72	Highly sensitive hybridization assay using the electrochemiluminescence of an ITO electrode, CdTe quantum dots functionalized with hierarchical nanoporous PtFe nanoparticles, and magnetic graphene nanosheets. Mikrochimica Acta, 2014, 181, 213-222.	2.5	6

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73	Application of ZnO quantum dots dotted carbon nanotube for sensitive electrochemiluminescence immunoassay based on simply electrochemical reduced Pt/Au alloy and a disposable device. Analytica Chimica Acta, 2014, 818, 46-53.	2.6	31
74	Application of ZnO/graphene and S6 aptamers for sensitive photoelectrochemical detection of SK-BR-3 breast cancer cells based on a disposable indium tin oxide device. Biosensors and Bioelectronics, 2014, 51, 413-420.	5.3	103
75	A 3D origami electrochemical immunodevice based on a Au@Pd alloy nanoparticle-paper electrode for the detection of carcinoembryonic antigen. Journal of Materials Chemistry B, 2014, 2, 6669-6674.	2.9	36
76	Paper-based electrochemical immunosensor for carcinoembryonic antigen based on three dimensional flower-like gold electrode and gold-silver bimetallic nanoparticles. Electrochimica Acta, 2014, 147, 650-656.	2.6	42
77	Electrochemiluminescence immunoassay using a paper electrode incorporating porous silver and modified with mesoporous silica nanoparticles functionalized with blue-luminescent carbon dots. Mikrochimica Acta, 2014, 181, 1415-1422.	2.5	30
78	Goldâ€“silver nanocomposite-functionalized graphene based electrochemiluminescence immunosensor using graphene quantum dots coated porous PtPd nanochains as labels. Electrochimica Acta, 2014, 123, 470-476.	2.6	55
79	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. Chemical Communications, 2014, 50, 1417-1419.	2.2	166
80	A sensitive signal-off aptasensor for adenosine triphosphate based on the quenching of Ru(bpy)32+-doped silica nanoparticles electrochemiluminescence by ferrocene. Sensors and Actuators B: Chemical, 2014, 191, 377-383.	4.0	26
81	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. Biosensors and Bioelectronics, 2014, 59, 307-313.	5.3	52
82	TiO2â€“graphene complex nanopaper for paper-based label-free photoelectrochemical immunoassay. Electrochimica Acta, 2013, 112, 620-628.	2.6	29
83	Goldâ€“silver nanocomposite-functionalized graphene sensing platform for an electrochemiluminescent immunoassay of a tumor marker. RSC Advances, 2013, 3, 14701.	1.7	40
84	Triple catalysis amplification strategy for simultaneous multiplexed electrochemical immunoassays based on cactus-like MnO2 functionalized nanoporous gold. Sensors and Actuators B: Chemical, 2013, 186, 545-549.	4.0	16
85	Three-dimensional nanoflower-like MnO2 functionalized graphene as catalytically promoted nanolabels for ultrasensitive electrochemiluminescence immunoassay. Electrochimica Acta, 2013, 97, 333-340.	2.6	28
86	Ultrasensitive electrochemiluminescence immunoassay for tumor marker based on quantum dots coated carbon nanospheres. Journal of Luminescence, 2013, 144, 6-12.	1.5	10
87	Graphene quantum dots/gold electrode and its application in living cell H2O2 detection. Nanoscale, 2013, 5, 1816.	2.8	245
88	Synthesis and characterization of graphene nanosheets attached to spiky MnO2 nanospheres and its application in ultrasensitive immunoassay. Carbon, 2013, 57, 22-33.	5.4	64
89	Coreâ€“shell Fe3O4â€“Au magnetic nanoparticles based nonenzymatic ultrasensitive electrochemiluminescence immunosensor using quantum dots functionalized graphene sheet as labels. Analytica Chimica Acta, 2013, 770, 132-139.	2.6	51
90	Ultrasensitive electrochemiluminescent immunosensor based on dual signal amplification strategy of gold nanoparticles-dotted graphene composites and CdTe quantum dots coated silica nanoparticles. Analytical and Bioanalytical Chemistry, 2013, 405, 4921-4929.	1.9	27

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91	Multiplexed sandwich immunoassays using flow-injection electrochemiluminescence with designed substrate spatial-resolved technique for detection of tumor markers. Biosensors and Bioelectronics, 2013, 41, 684-690.	5.3	91
92	Magnetic beads-based electrochemiluminescence immunosensor for determination of cancer markers using quantum dot functionalized PtRu alloys as labels. Analyst, The, 2012, 137, 2176.	1.7	61
93	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. Lab on A Chip, 2012, 12, 4489.	3.1	114
94	Magnetic graphene nanosheets based electrochemiluminescence immunoassay of cancer biomarker using CdTe quantum dots coated silica nanospheres as labels. Talanta, 2012, 99, 512-519.	2.9	48
95	Application of indium tin oxide device in gold-coated magnetic iron solid support enhanced electrochemiluminescent immunosensor for determination of carcinoma embryonic antigen. Sensors and Actuators B: Chemical, 2012, 171-172, 891-898.	4.0	25
96	Pyroelectric Nanogenerators for Harvesting Thermoelectric Energy. Nano Letters, 2012, 12, 2833-2838.	4.5	639