

Yan Zhang

List of Publications by Year in descending order

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103
papers

4,634
citations

63230

40
h-index

91511

65
g-index

105
all docs

105
docs citations

105
times ranked

5386
citing authors

#	ARTICLE	IF	CITATIONS
1	Photothermal-thermoelectric synergy coupling localized surface plasmon resonance for enhanced flexible photoelectrochemical sensor performance. <i>Chemical Engineering Journal</i> , 2025, 503, 158393.	11.9	0
2	Z-Scheme Heterojunction Excited by DNA-Programmed Upconversion Nanotransducers for a Near-Infrared Light-Actuated Lab-on-Paper Device. <i>ACS Applied Materials & Interfaces</i> , 2024, 16, 6825-6836.	8.1	3
3	Near-infrared light-driven lab-on-paper cathodic photoelectrochemical aptasensing for di(2-ethylhexyl)phthalate based on AgInS ₂ /Cu ₂ O/FeOOH photocathode. <i>Talanta</i> , 2024, 276, 126193.	6.0	0
4	Dual near-infrared AgInS ₂ and CuInS ₂ co-sensitized ZnO photoelectrode array enabled paper-based ratiometric photoelectrochemical aptasensing. <i>Rare Metals</i> , 2024, 43, 6525-6536.	11.0	1
5	Multiwalled Carbon Nanotube-Templated Nickel Porphyrin Covalent Organic Framework for Pencil-Drawn Noninvasive Respiration Sensors. <i>ACS Sensors</i> , 2024, 9, 4711-4720.	8.9	1
6	Trends and Perspectives in Biosensing and Diagnosis. <i>Biosensors</i> , 2024, 14, 499.	5.5	0
7	Programmable T-Junction Structure-Assisted CRISPR/Cas12a Electrochemiluminescence Biosensor for Detection of Sa-16S rDNA. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 617-625.	8.1	20
8	PEC/Colorimetric Dual-Mode Lab-on-Paper Device via BiVO ₄ /FeOOH Nanocomposite In Situ Modification on Paper Fibers for Sensitive CEA Detection. <i>Biosensors</i> , 2023, 13, 103.	5.5	4
9	Ready-to-use interactive dual-readout differential lateral flow biosensor for two genotypes of human papillomavirus. <i>Biosensors and Bioelectronics</i> , 2023, 228, 115224.	9.9	14
10	Visual/Photoelectrochemical Off-On Sensor Based on Cu/Mn Double-Doped CeO ₂ and Branched Sheet Embedded Cu ₂ O/CuO Nanocubes. <i>Biosensors</i> , 2023, 13, 227.	5.5	3
11	Near-infrared-excited photothermal-pyroelectric synergy promoted paper-based sensing platform for enhanced photoelectrochemical analysis performance. <i>Nano Energy</i> , 2023, 116, 108768.	16.3	11
12	Paper-Supported Photoelectrochemical Biosensor for Dual-Mode miRNA-106a Assay: Integration of Luminescence-Confined Upconversion-Actuated Fluorescent Resonance Energy Transfer and CRISPR/Cas13a-Powered Cascade DNA Circuits. <i>Langmuir</i> , 2023, 39, 16048-16059.	3.8	4
13	Paper-Based Bipolar Electrode Electrochemiluminescence Platform Combined with Pencil-Drawing Trace for the Detection of M.SssI Methyltransferase. <i>Analytical Chemistry</i> , 2022, 94, 8327-8334.	6.7	60
14	Ratiometric electrochemiluminescence lab-on-paper device for DNA methylation determination based on highly conductive copper paper electrode. <i>Biosensors and Bioelectronics</i> , 2022, 214, 114522.	9.9	18
15	Photothermal-Reagent-Triggered Visual Thermoresponsive and Quantized Photoelectrochemical Dual-Signal Assay. <i>ACS Sensors</i> , 2022, 7, 2429-2437.	8.9	34
16	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.	11.9	50
17	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.	11.9	64
18	Facile synthesis of novel dopamine-modified glass fibers for improving alkali resistance of fibers and flexural strength of fiber-reinforced cement. <i>RSC Advances</i> , 2021, 11, 18818-18826.	4.5	8

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19	Porphyrin-Based Covalent Organic Framework Thin Films as Cathodic Materials for "Off-On" Photoelectrochemical Sensing of Lead Ions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20397-20404.	8.1	101
20	Self-Circulation Oxygen-Hydrogen Peroxide-Oxygen System for Ultrasensitive Cathode Photoelectrochemical Bioassay Using a Stacked Sealed Paper Device. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19793-19802.	8.1	22
21	Enhanced triethylamine sensing performance of superfine NiO nanoparticles decoration by two-dimensional hexagonal boron nitride. <i>Advanced Powder Technology</i> , 2021, 32, 3801-3813.	4.0	11
22	Multiple cooperative amplification paper SERS aptasensor based on AuNPs/3D succulent-like silver for okadaic acid quantization. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130174.	7.7	31
23	All-sealed paper-based electrochemiluminescence platform for on-site determination of lead ions. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113524.	9.9	22
24	Non-covalent interaction-driven self-assembly of perylene diimide on rGO for room-temperature sensing of triethylamine with enhanced immunity to humidity. <i>Chemical Engineering Journal</i> , 2020, 385, 123397.	11.9	37
25	3D synergistical rGO/Eu(TPyP)(Pc) hybrid aerogel for high-performance NO ₂ gas sensor with enhanced immunity to humidity. <i>Journal of Hazardous Materials</i> , 2020, 384, 121426.	12.4	46
26	Ultrasensitive Photoelectrochemical Detection of MicroRNA on Paper by Combining a Cascade Nanozyme-Engineered Biocatalytic Precipitation Reaction and Target-Triggerable DNA Motor. <i>ACS Sensors</i> , 2020, 5, 1482-1490.	8.9	76
27	Paper-based sandwich type SERS sensor based on silver nanoparticles and biomimetic recognizer. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 127989.	7.7	37
28	DNAzyme-Triggered Visual and Ratiometric Electrochemiluminescence Dual-Readout Assay for Pb(II) Based on an Assembled Paper Device. <i>Analytical Chemistry</i> , 2020, 92, 3874-3881.	6.7	130
29	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.	6.7	34
30	Noninvasive and Wearable Respiration Sensor Based on Organic Semiconductor Film with Strong Electron Affinity. <i>Analytical Chemistry</i> , 2019, 91, 10320-10327.	6.7	27
31	Photoelectrochemical biosensor of HIV-1 based on cascaded photoactive materials and triple-helix molecular switch. <i>Biosensors and Bioelectronics</i> , 2019, 139, 111325.	9.9	38
32	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. <i>Mikrochimica Acta</i> , 2019, 186, .	4.8	16
33	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.	6.7	40
34	Mimic peroxidase-transfer enhancement of photoelectrochemical aptasensing via CuO nanoflowers functionalized lab-on-paper device with a controllable fluid separator. <i>Biosensors and Bioelectronics</i> , 2019, 133, 32-38.	9.9	20
35	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.	9.9	39
36	Editable TiO ₂ Nanomaterial-Modified Paper in Situ for Highly Efficient Detection of Carcinoembryonic Antigen by Photoelectrochemical Method. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14594-14601.	8.1	52

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37	Dual-mode fluorescence biosensor platform based on T-shaped duplex structure for detection of microRNA and folate receptor. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 44-50.	7.7	20
38	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.	8.1	66
39	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.	8.1	94
40	Highly conductive and bendable gold networks attached on intertwined cellulose fibers for output controllable power paper. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19611-19620.	9.3	26
41	Addressable TiO ₂ Nanotubes Functionalized Paper-Based Cyto-Sensor with Photocontrollable Switch for Highly-Efficient Evaluating Surface Protein Expressions of Cancer Cells. <i>Analytical Chemistry</i> , 2018, 90, 13882-13890.	6.7	75
42	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.	6.7	46
43	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.	6.7	69
44	Nanomaterials-modified cellulose paper as a platform for biosensing applications. <i>Nanoscale</i> , 2017, 9, 4366-4382.	5.1	107
45	A molecularly imprinted polypyrrole for ultrasensitive voltammetric determination of glyphosate. <i>Mikrochimica Acta</i> , 2017, 184, 1959-1967.	4.8	53
46	Sudoku-like Lab-on-Paper Cyto-Device with Dual Enhancement of Electrochemiluminescence Intermediates Strategy. <i>Analytical Chemistry</i> , 2017, 89, 7511-7519.	6.7	48
47	Fabrication of Lab-on-Paper Using Porous Au-Paper Electrode: Application to Tumor Marker Electrochemical Immunoassays. <i>Methods in Molecular Biology</i> , 2017, , 125-134.	0.0	2
48	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.	8.1	26
49	Cerium Dioxide-Mediated Signal Off-by Resonance Energy Transfer on a Lab-On-Paper Device for Ultrasensitive Detection of Lead Ions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32591-32598.	8.1	24
50	Steric paper based ratio-type electrochemical biosensor with hollow-channel for sensitive detection of Zn ²⁺ . <i>Science Bulletin</i> , 2017, 62, 1114-1121.	8.7	36
51	Rapid and Reliable Detection of Alkaline Phosphatase by a Hot Spots Amplification Strategy Based on Well-Controlled Assembly on Single Nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29547-29553.	8.1	85
52	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.	9.9	25
53	Electrochemiluminescence of graphitic carbon nitride and its application in ultrasensitive detection of lead(II) ions. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7181-7191.	3.6	28
54	An enhanced photoelectrochemical platform: graphite-like carbon nitride nanosheet-functionalized ZnO nanotubes. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4980-4987.	5.6	31

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55	Self-powered electronic-skin for detecting glucose level in body fluid basing on piezo-enzymatic-reaction coupling process. <i>Nano Energy</i> , 2016, 26, 148-156.	16.3	81
56	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.	7.7	30
57	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.	11.5	78
58	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.	4.8	51
59	Photoelectrochemical immunoassay based on chemiluminescence as internal excited light source. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 324-331.	7.7	26
60	Label-free colorimetric logic gates based on free gold nanoparticles and the coordination strategy between cytosine and silver ions. <i>New Journal of Chemistry</i> , 2016, 40, 5516-5522.	2.5	15
61	Multifunctional reduced graphene oxide triggered chemiluminescence resonance energy transfer: Novel signal amplification strategy for photoelectrochemical immunoassay of squamous cell carcinoma antigen. <i>Biosensors and Bioelectronics</i> , 2016, 79, 55-62.	9.9	26
62	Electrochemiluminescent molecular logic gates based on MCNTs for the multiplexed analysis of mercury(Hg^{2+}) and silver(Ag^+) ions. <i>RSC Advances</i> , 2016, 6, 26147-26154.	4.5	10
63	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.	9.9	43
64	Gold nanorods-paper electrode based enzyme-free electrochemical immunoassay for prostate specific antigen using porous zinc oxide spheres@silver nanoparticles nanocomposites as labels. <i>New Journal of Chemistry</i> , 2015, 39, 6062-6067.	2.5	44
65	An enhanced photoelectrochemical immunosensing platform: Supramolecular donor-acceptor arrays by assembly of porphyrin and C ₆₀ . <i>Biosensors and Bioelectronics</i> , 2015, 68, 604-610.	9.9	28
66	An electrochemical immunoassay based on trepan-like gold electrodes and nanogold functionalized flower-like hierarchical carbon materials with improved sensitivity. <i>New Journal of Chemistry</i> , 2015, 39, 3452-3460.	2.5	4
67	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.	5.6	22
68	Application of CuS-functionalized ZnO nanoflakes for a paper-based photoelectrochemical immunoassay using an in situ electron donor producing strategy. <i>New Journal of Chemistry</i> , 2015, 39, 7012-7018.	2.5	16
69	Branched zinc oxide nanorods arrays modified paper electrode for electrochemical immunosensing by combining biocatalytic precipitation reaction and competitive immunoassay mode. <i>Biosensors and Bioelectronics</i> , 2015, 74, 823-829.	9.9	17
70	Real-time visual determination of the flux of hydrogen sulphide using a hollow-channel paper electrode. <i>Chemical Communications</i> , 2015, 51, 14030-14033.	4.2	32
71	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.	7.7	65
72	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.	9.9	66

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73	Paper-Based Analytical Devices Relying on Visible-Light-Enhanced Glucose/Air Biofuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24330-24337.	8.1	25
74	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. <i>Biosensors and Bioelectronics</i> , 2015, 66, 565-571.	9.9	47
75	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, 176-182.	9.9	32
76	Chemiluminescence excited paper-based photoelectrochemical competitive immunosensing based on porous ZnO spheres and CdS nanorods. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7679-7684.	5.6	25
77	Application of ZnO quantum dots dotted carbon nanotube for sensitive electrochemiluminescence immunoassay based on simply electrochemical reduced Pt/Au alloy and a disposable device. <i>Analytica Chimica Acta</i> , 2014, 818, 46-53.	5.9	35
78	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. <i>Biosensors and Bioelectronics</i> , 2014, 51, 413-420.	9.9	108
79	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.	5.6	37
80	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.	5.4	47
81	Electrochemiluminescence immunoassay using a paper electrode incorporating porous silver and modified with mesoporous silica nanoparticles functionalized with blue-luminescent carbon dots. <i>Mikrochimica Acta</i> , 2014, 181, 1415-1422.	4.8	34
82	Gold-silver nanocomposite-functionalized graphene based electrochemiluminescence immunosensor using graphene quantum dots coated porous PtPd nanochains as labels. <i>Electrochimica Acta</i> , 2014, 123, 470-476.	5.4	51
83	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. <i>Chemical Communications</i> , 2014, 50, 1417-1419.	4.2	167
84	A sensitive signal-off aptasensor for adenosine triphosphate based on the quenching of Ru(bpy) ₃ ²⁺ -doped silica nanoparticles electrochemiluminescence by ferrocene. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 377-383.	7.7	27
85	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.	9.9	51
86	TiO ₂ -graphene complex nanopaper for paper-based label-free photoelectrochemical immunoassay. <i>Electrochimica Acta</i> , 2013, 112, 620-628.	5.4	30
87	Gold-silver nanocomposite-functionalized graphene sensing platform for an electrochemiluminescent immunoassay of a tumor marker. <i>RSC Advances</i> , 2013, 3, 14701.	4.5	43
88	Triple catalysis amplification strategy for simultaneous multiplexed electrochemical immunoassays based on cactus-like MnO ₂ functionalized nanoporous gold. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 545-549.	7.7	17
89	Three-dimensional nanoflower-like MnO ₂ functionalized graphene as catalytically promoted nanolabels for ultrasensitive electrochemiluminescence immunoassay. <i>Electrochimica Acta</i> , 2013, 97, 333-340.	5.4	25
90	Ultrasensitive electrochemiluminescence immunoassay for tumor marker based on quantum dots coated carbon nanospheres. <i>Journal of Luminescence</i> , 2013, 144, 6-12.	3.6	10

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91	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	61
92	Core-shell Fe ₃ O ₄ @Au magnetic nanoparticles based nonenzymatic ultrasensitive electrochemiluminescence immunosensor using quantum dots functionalized graphene sheet as labels. <i>Analytica Chimica Acta</i> , 2013, 770, 132-139.	5.9	52
93	Ultrasensitive electrochemiluminescent immunosensor based on dual signal amplification strategy of gold nanoparticles-dotted graphene composites and CdTe quantum dots coated silica nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4921-4929.	3.6	28
94	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.	9.9	91
95	Sandwich-type electrochemiluminescence immunosensor based on poly(acrylic acid) coated Fe ₃ O ₄ composite for human chorionic gonadotrophin detection using quantum dots functionalized CNTs as labels. <i>Monatshefte für Chemie</i> , 2013, 145, 147-154.	1.7	2
96	Au@Pt nanoparticle-based electrochemiluminescence immunoassay of a cancer biomarker using ZnO nanospheres coated with CdTe quantum dots as labels. <i>Monatshefte für Chemie</i> , 2013, 145, 121-127.	1.7	2
97	Magnetic nanoparticle-based electrochemiluminescent immunosensor for detection of carcinoembryonic antigen based on silica nanosphere@gold nanoparticles-Ru as labels. <i>Monatshefte für Chemie</i> , 2013, 145, 113-120.	1.7	3
98	Highly sensitive hybridization assay using the electrochemiluminescence of an ITO electrode, CdTe quantum dots functionalized with hierarchical nanoporous PtFe nanoparticles, and magnetic graphene nanosheets. <i>Mikrochimica Acta</i> , 2013, 181, 213-222.	4.8	7
99	Magnetic beads-based electrochemiluminescence immunosensor for determination of cancer markers using quantum dot functionalized PtRu alloys as labels. <i>Analyst</i> , The, 2012, 137, 2176.	3.1	60
100	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. <i>Lab on A Chip</i> , 2012, 12, 4489.	5.6	113
101	Magnetic graphene nanosheets based electrochemiluminescence immunoassay of cancer biomarker using CdTe quantum dots coated silica nanospheres as labels. <i>Talanta</i> , 2012, 99, 512-519.	6.0	45
102	Application of indium tin oxide device in gold-coated magnetic iron solid support enhanced electrochemiluminescent immunosensor for determination of carcinoma embryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 891-898.	7.7	27
103	Pyroelectric Nanogenerators for Harvesting Thermoelectric Energy. <i>Nano Letters</i> , 2012, 12, 2833-2838.	8.8	679