

Po Wang

List of Publications by Year in descending order

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60
papers

2,428
citations

159585

30
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

3038
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Platform for MicroRNA Detection Based on the Fluorescence Quenching of Positively Charged Gold Nanoparticles to Silver Nanoclusters. <i>Analytical Chemistry</i> , 2018, 90, 1098-1103.	6.5	157
2	Construction of Au nanoparticles on choline chloride modified glassy carbon electrode for sensitive detection of nitrite. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3242-3247.	10.1	145
3	Fabrication of layer-by-layer modified multilayer films containing choline and gold nanoparticles and its sensing application for electrochemical determination of dopamine and uric acid. <i>Talanta</i> , 2007, 73, 431-437.	5.5	139
4	Overoxidized polypyrrole film directed single-walled carbon nanotubes immobilization on glassy carbon electrode and its sensing applications. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3120-3125.	10.1	138
5	CRISPR/Cas13a Signal Amplification Linked Immunosorbent Assay for Femtomolar Protein Detection. <i>Analytical Chemistry</i> , 2020, 92, 573-577.	6.5	123
6	Development of a paper-based, inexpensive, and disposable electrochemical sensing platform for nitrite detection. <i>Electrochemistry Communications</i> , 2017, 81, 74-78.	4.7	106
7	Simultaneous detection of guanine, adenine, thymine and cytosine at choline monolayer supported multiwalled carbon nanotubes film. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3339-3345.	10.1	85
8	Aptamer-based photoelectrochemical biosensor for antibiotic detection using ferrocene modified DNA as both aptamer and electron donor. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 514-521.	7.8	68
9	Development of an innovative nitrite sensing platform based on the construction of carbon-layer-coated In ₂ O ₃ porous tubes. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129082.	7.8	68
10	A sensitive photoelectrochemical aptasensor for oxytetracycline based on a signal "switch off-on" strategy. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 785-792.	7.8	64
11	Stochastic DNA walker for electrochemical biosensing sensitized with gold nanocages@graphene nanoribbons. <i>Biosensors and Bioelectronics</i> , 2018, 108, 97-102.	10.1	61
12	In situ electrodeposition of Pt nanoclusters on glassy carbon surface modified by monolayer choline film and their electrochemical applications. <i>Electrochemistry Communications</i> , 2008, 10, 195-199.	4.7	55
13	Investigation of DNA methylation by direct electrocatalytic oxidation. <i>Chemical Communications</i> , 2010, 46, 7781.	4.1	55
14	CdS nanocrystal induced chemiluminescence: reaction mechanism and applications. <i>Nanotechnology</i> , 2007, 18, 225602.	2.6	50
15	Electrochemical evaluation of DNA methylation level based on the stoichiometric relationship between purine and pyrimidine bases. <i>Biosensors and Bioelectronics</i> , 2013, 45, 34-39.	10.1	48
16	Electrochemical determination of tert-butylhydroquinone and butylated hydroxyanisole at choline functionalized film supported graphene interface. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 885-891.	7.8	47
17	Proximity hybridization-regulated catalytic DNA hairpin assembly for electrochemical immunoassay based on in situ DNA template-synthesized Pd nanoparticles. <i>Analytica Chimica Acta</i> , 2017, 969, 8-17.	5.4	47
18	Picomolar level profiling of the methylation status of the p53 tumor suppressor gene by a label-free electrochemical biosensor. <i>Chemical Communications</i> , 2012, 48, 10754.	4.1	45

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19	Sensitive Determination of Dopamine and Uric Acid by the Use of a Glassy Carbon Electrode Modified with Poly(3-methylthiophene)/Gold Nanoparticle Composites. <i>Analytical Sciences</i> , 2008, 24, 1563-1568.	1.6	42
20	Proximity hybridization triggered rolling-circle amplification for sensitive electrochemical homogeneous immunoassay. <i>Analyst</i> , 2017, 142, 4308-4316.	3.5	41
21	Label-free and enzyme-free fluorescence detection of microRNA based on sulfhydryl-functionalized carbon dots via target-initiated hemin/G-quadruplex-catalyzed oxidation. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112955.	10.1	41
22	Development of a novel luminol chemiluminescent method catalyzed by gold nanoparticles for determination of estrogens. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 585-592.	3.7	40
23	Dual-Signal Readout of DNA Methylation Status Based on the Assembly of a Supersandwich Electrochemical Biosensor without Enzymatic Reaction. <i>ACS Sensors</i> , 2019, 4, 2615-2622.	7.8	40
24	Signal-on electrochemical detection of DNA methylation based on the target-induced conformational change of a DNA probe and exonuclease III-assisted target recycling. <i>Biosensors and Bioelectronics</i> , 2020, 149, 111847.	10.1	40
25	Construction of a paper-based electrochemical biosensing platform for rapid and accurate detection of adenosine triphosphate (ATP). <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 931-937.	7.8	38
26	Aggregation-induced emission luminogen@manganese dioxide core-shell nanomaterial-based paper analytical device for equipment-free and visual detection of organophosphorus pesticide. <i>Journal of Hazardous Materials</i> , 2021, 413, 125306.	12.4	36
27	Hybridization chain reaction coupled with the fluorescence quenching of gold nanoparticles for sensitive cancer protein detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 731-737.	7.8	35
28	Solubilization of pristine fullerene by the unfolding mechanism of bovine serum albumin for cytotoxic application. <i>Chemical Communications</i> , 2011, 47, 10659.	4.1	34
29	Construction of a Cytosine-Adjusted Electrochemiluminescence Resonance Energy Transfer System for MicroRNA Detection. <i>Langmuir</i> , 2018, 34, 10153-10162.	3.5	33
30	Electrochemical site marker competitive method for probing the binding site and binding mode between bovine serum albumin and alizarin red S. <i>Electrochimica Acta</i> , 2011, 56, 4181-4187.	5.2	32
31	Direct potential resolution and simultaneous detection of cytosine and 5-methylcytosine based on the construction of polypyrrole functionalized graphene nanowall interface. <i>Electrochemistry Communications</i> , 2015, 61, 36-39.	4.7	30
32	Electrochemical determination of nitrite via covalent immobilization of a single-walled carbon nanotubes and single stranded deoxyribonucleic acid nanocomposite on a glassy carbon electrode. <i>Mikrochimica Acta</i> , 2010, 171, 63-69.	5.0	27
33	Photoelectrochemical biosensor for HEN1 RNA methyltransferase detection using peroxidase mimics PtCu NFs and poly(U) polymerase-mediated RNA extension. <i>Biosensors and Bioelectronics</i> , 2018, 103, 32-38.	10.1	26
34	Ordered assembly of platinum nanoparticles on carbon nanocubes and their application in the non-enzymatic sensing of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2017, 803, 165-172.	3.8	25
35	Covalent immobilization of single-walled carbon nanotubes and single-stranded deoxyribonucleic acid nanocomposites on glassy carbon electrode: Preparation, characterization, and applications. <i>Talanta</i> , 2008, 77, 833-838.	5.5	24
36	Cross-triggered and cascaded recycling amplification system for electrochemical detection of circulating microRNA in human serum. <i>Chemical Communications</i> , 2021, 57, 7116-7119.	4.1	24

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37	An in situ quenching electrochemiluminescence biosensor amplified with aptamer recognition-induced multi-DNA release for sensitive detection of pathogenic bacteria. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113744.	10.1	23
38	Novel integrating polymethylene blue nanoparticles with dumbbell hybridization chain reaction for electrochemical detection of pathogenic bacteria. <i>Food Chemistry</i> , 2022, 382, 132501.	8.2	23
39	Substrate-induced assembly of PtAu alloy nanostructures at choline functionalized monolayer interface for nitrite sensing. <i>Journal of Electroanalytical Chemistry</i> , 2015, 750, 36-42.	3.8	22
40	One-step synthesis of highly aligned SnO ₂ nanorods on a self-produced Na ₂ Sn(OH) ₆ substrate for high-performance lithium-ion batteries. <i>CrystEngComm</i> , 2015, 17, 1754-1757.	2.6	20
41	Fluorescence-surface enhanced Raman scattering dual-mode nanosensors to monitor hydroxyl radicals in living cells. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 934-941.	7.8	20
42	Facile preparation of hybrid anatase/rutile TiO ₂ nanorods with exposed (010) facets for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2016, 171, 11-15.	4.0	19
43	Proximity binding-triggered multipedal DNA walker for the electrochemiluminescence detection of telomerase activity. <i>Analytica Chimica Acta</i> , 2021, 1144, 68-75.	5.4	19
44	Regenerable electrochemical biosensor for exosomes detection based on the dual-recognition proximity binding-induced DNA walker. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130765.	7.8	18
45	Construction of an Electrochemical Biosensing Platform Based on Hierarchical Mesoporous NiO@N-Doped C Microspheres Coupled with Catalytic Hairpin Assembly. <i>ACS Applied Bio Materials</i> , 2020, 3, 1276-1282.	4.6	16
46	Site-selective probe for investigating the asynchronous unfolding of domains in bovine serum albumin. <i>Talanta</i> , 2011, 84, 881-886.	5.5	15
47	Direct electrochemical detection of guanosine-5'-monophosphate at choline monolayer supported and gold nanocages functionalized carbon nanotubes sensing interface. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 343-348.	7.8	15
48	A novel photoelectrochemical immunosensor for N1-methyladenine detection based on BiVO ₄ /g-C ₃ N ₄ heterojunction with signal amplification of TiO ₂ @NH ₂ -MIL-125(Ti). <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128310.	7.8	14
49	An efficient electrochemical method for direct screening of the mutation status of DNA base in oligonucleotides. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 222-227.	7.8	12
50	A sensitive inhibition chemiluminescence method for the determination of trace tannic acid using the reaction of luminol-hydrogen peroxide catalysed by tetrasulphonated manganese phthalocyanine. <i>Luminescence</i> , 2007, 22, 46-52.	2.9	11
51	A novel sensing platform for sensitive cholesterol detection by using positively charged gold nanoparticles. <i>Biochemical Engineering Journal</i> , 2017, 117, 21-27.	3.6	11
52	A disposable paper-based hydrophobic substrate for highly sensitive surface-enhanced Raman scattering detection. <i>Talanta</i> , 2020, 220, 121340.	5.5	11
53	Aggregatable thiol-functionalized carbon dots-based fluorescence strategy for highly sensitive detection of glucose based on target-initiated catalytic oxidation. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129325.	7.8	11
54	GOD/HRP Bienzyme Synergistic Catalysis in a 2-D Graphene Framework for Glucose Biosensing. <i>Journal of the Electrochemical Society</i> , 2015, 162, B319-B325.	2.9	10

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55	Combination of DNA walker and Pb ²⁺ -specific DNAzyme-based signal amplification with a signal-off electrochemical DNA sensor for Staphylococcus aureus detection. <i>Analytica Chimica Acta</i> , 2022, 1222, 340179.	5.4	9
56	Ratiometric Electrochemical Detection of MicroRNA Based on Construction of A Hierarchical C@SnS ₂ Nanoflower Sensing Interface. <i>Chinese Journal of Analytical Chemistry</i> , 2021, 49, e21020-e21028.	1.7	6
57	Platinum-Nanoparticle-Modified Single-Walled Carbon Nanotube-Laden Paper Electrodes for Electrocatalytic Oxidation of Methanol. <i>ACS Applied Nano Materials</i> , 2021, 4, 13798-13806.	5.0	6
58	Enhanced cycling performance of the Li ₄ Ti ₅ O ₁₂ anode in an ethers electrolyte induced by a solid electrolyte interphase film. <i>RSC Advances</i> , 2015, 5, 56908-56912.	3.6	4
59	DNA Triple Helix Complex-Functionalized Electrochemical Sensor for Sensitive Detection of MicroRNA in Human Serum. <i>Journal of the Electrochemical Society</i> , 2021, 168, 057503.	2.9	4
60	Theoretical and Experimental Study of the Conformational Structure of HIV RNA. <i>Biophysical Journal</i> , 2014, 106, 282a.	0.5	0