

# Jianxiu Wang

## List of Publications by Year in descending order

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75  
papers

2,331  
citations

218677

26  
h-index

223800

46  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneously monitoring UVC-induced DNA damage and photoenzymatic repair of cyclobutane pyrimidine dimers by electrochemical impedance spectroscopy. <i>Talanta</i> , 2022, 239, 123081.	5.5	5
2	Ratiometric electrochemical detection of miRNA based on DNA nanomachines and strand displacement reaction. <i>Mikrochimica Acta</i> , 2022, 189, 133.	5.0	8
3	Urease-Functionalized Near-Infrared Light-Responsive Gold Nanoflowers for Rapid Detection of Urea by a Portable Pressure Meter. <i>Microchemical Journal</i> , 2022, 179, 107450.	4.5	1
4	Bifunctional Diblock DNA-Mediated Synthesis of Nanoflower-Shaped Photothermal Nanozymes for a Highly Sensitive Colorimetric Assay of Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16801-16811.	8.0	29
5	Electrochemical determination of caspase-3 using signal amplification by HeLa cells modified with silver nanoparticles. <i>Mikrochimica Acta</i> , 2021, 188, 110.	5.0	4
6	Amplified electrochemical detection of circular RNA in breast cancer patients using ferrocene-capped gold nanoparticle/streptavidin conjugates. <i>Microchemical Journal</i> , 2021, 164, 106066.	4.5	13
7	Nanomaterials for Modulating the Aggregation of $\beta$ -Amyloid Peptides. <i>Molecules</i> , 2021, 26, 4301.	3.8	17
8	MoO <sub>3</sub> -x nanosheets-based platform for single NIR laser induced efficient PDT/PTT of cancer. <i>Journal of Controlled Release</i> , 2021, 338, 46-55.	9.9	28
9	Impedimetric biosensor for assay of caspase-3 activity and evaluation of cell apoptosis using self-assembled biotin-phenylalanine network as signal enhancer. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128436.	7.8	27
10	A copper complex formed with neurokinin B: binding stoichiometry, redox properties, self-assembly and cytotoxicity. <i>Metallomics</i> , 2020, 12, 1802-1810.	2.4	5
11	Dissecting the Effect of Salt for More Sensitive Label-Free Colorimetric Detection of DNA Using Gold Nanoparticles. <i>Analytical Chemistry</i> , 2020, 92, 13354-13360.	6.5	50
12	Toehold-Mediated Strand Displacement Reaction for Dual-Signal Electrochemical Assay of Apolipoprotein E Genotyping. <i>ACS Sensors</i> , 2020, 5, 2959-2965.	7.8	14
13	Three-Dimensional DNA Nanomachine Combined with Toehold-Mediated Strand Displacement Reaction for Sensitive Electrochemical Detection of MiRNA. <i>Langmuir</i> , 2020, 36, 10708-10714.	3.5	26
14	Hollow Porous Carbon Coated FeS <sub>2</sub> -Based Nanocatalysts for Multimodal Imaging-Guided Photothermal, Starvation, and Triple-Enhanced Chemodynamic Therapy of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10142-10155.	8.0	73
15	Sensitive and selective monitoring of the DNA damage-induced intracellular p21 protein and unraveling the role of the p21 protein in DNA repair and cell apoptosis by surface plasmon resonance. <i>Analyst</i> , 2020, 145, 3697-3704.	3.5	4
16	Dummy Molecularly Imprinted Matrix Solid-Phase Dispersion for Selective Extraction of Seven Estrogens in Aquatic Products. <i>Food Analytical Methods</i> , 2019, 12, 2241-2249.	2.6	10
17	DNA-templated copper nanoclusters obtained via TdT isothermal nucleic acid amplification for mercury(II) assay. <i>Analytical Methods</i> , 2019, 11, 4165-4172.	2.7	6
18	NIR Light-Responsive Hollow Porous Gold Nanospheres for Controllable Pressure-Based Sensing and Photothermal Therapy of Cancer Cells. <i>Analytical Chemistry</i> , 2019, 91, 15418-15424.	6.5	41

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19	Real-time surface plasmon resonance monitoring of site-specific phosphorylation of p53 protein and its interaction with MDM2 protein. <i>Analyst, The</i> , 2019, 144, 6033-6040.	3.5	11
20	Hyaluronic Acid-Modified Porous Carbon-Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for Magnetic Resonance Imaging-Guided Photothermal/Chemotherapy of Tumors. <i>Langmuir</i> , 2019, 35, 13135-13144.	3.5	54
21	Etching silver nanoparticles using DNA. <i>Materials Horizons</i> , 2019, 6, 155-159.	12.2	35
22	Highly sensitive determination of L-tyrosine in pig serum based on ultrathin CuS nanosheets composite electrode. <i>Biosensors and Bioelectronics</i> , 2019, 140, 111356.	10.1	32
23	Dual-channel surface plasmon resonance monitoring of intracellular levels of the p53-MDM2 complex and caspase-3 induced by MDM2 antagonist Nutlin-3. <i>Analyst, The</i> , 2019, 144, 3959-3966.	3.5	9
24	Unified Etching and Protection of Faceted Silver Nanostructures by DNA Oligonucleotides. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12015-12022.	3.1	9
25	Phosphorothioate DNA Mediated Sequence-Insensitive Etching and Ripening of Silver Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 198.	3.6	5
26	Hybridization chain reaction based DNAzyme fluorescent sensor for <i>l</i> -histidine assay. <i>Analytical Methods</i> , 2019, 11, 2204-2210.	2.7	12
27	Black phosphorus nanosheets-based nanocarriers for enhancing chemotherapy drug sensitiveness via depleting mutant p53 and resistant cancer multimodal therapy. <i>Chemical Engineering Journal</i> , 2019, 370, 387-399.	12.7	73
28	Trace analysis of estrogens in milk samples by molecularly imprinted solid phase extraction with genistein as a dummy template molecule and high-performance liquid chromatography-tandem mass spectrometry. <i>Steroids</i> , 2019, 145, 23-31.	1.8	23
29	A porous carbon nitride modified with cobalt phosphide as an efficient visible-light harvesting nanocomposite for photoelectrochemical enzymatic sensing of glucose. <i>Mikrochimica Acta</i> , 2019, 186, 856.	5.0	10
30	Sensitive surface plasmon resonance detection of methyltransferase activity and screening of its inhibitors amplified by p53 protein bound to methylation-specific ds-DNA consensus sites. <i>Biosensors and Bioelectronics</i> , 2019, 126, 269-274.	10.1	23
31	Fabrication of multifunctional monometallic nanohybrids for reactive oxygen species-mediated cell apoptosis and enhanced fluorescence cell imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1187-1194.	5.8	14
32	Sensitive and simultaneous surface plasmon resonance detection of free and p53-bound MDM2 proteins from human sarcomas. <i>Analyst, The</i> , 2018, 143, 2029-2034.	3.5	4
33	Voltammetric determination of the Alzheimer's disease-related ApoE 4 gene from unamplified genomic DNA extracts by ferrocene-capped gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 549.	5.0	26
34	Sensitive Hg <sup>2+</sup> Sensing via Quenching the Fluorescence of the Complex between Polythymine and 5,10,15,20-tetrakis(N-methyl-4-pyridyl) Porphyrin (TMPyP). <i>Sensors</i> , 2018, 18, 3998.	3.8	12
35	Dual-Channel Surface Plasmon Resonance for Quantification of ApoE Gene and Genotype Discrimination in Unamplified Genomic DNA Extracts. <i>ACS Sensors</i> , 2018, 3, 2402-2407.	7.8	12
36	Determination of <i>β</i> -Agonist Residues in Animal-Derived Food by a Liquid Chromatography-Tandem Mass Spectrometric Method Combined with Molecularly Imprinted Stir Bar Sorptive Extraction. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 2018, 1-10.	1.6	15

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37	Triple Stimuli-Responsive Magnetic Hollow Porous Carbon-Based Nanodrug Delivery System for Magnetic Resonance Imaging-Guided Synergistic Photothermal/Chemotherapy of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21939-21949.	8.0	83
38	Multiplexed Electrochemical Detection of MiRNAs from Sera of Glioma Patients at Different Stages via the Novel Conjugates of Conducting Magnetic Microbeads and Diblock Oligonucleotide-Modified Gold Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 10834-10840.	6.5	52
39	TMPyP Inhibits Amyloid- $\beta^2$ Aggregation and Alleviates Amyloid-Induced Cytotoxicity. <i>ACS Omega</i> , 2017, 2, 4188-4195.	3.5	12
40	Dumbbell-shaped metallothionein-templated silver nanoclusters with applications in cell imaging and Hg $^{2+}$ sensing. <i>Talanta</i> , 2016, 155, 272-277.	5.5	21
41	Origin of $\pi$ - $\pi$ Interaction in Cobalt(II) Porphyrins under Synergistic Effects of Core Contraction and Axial Ligation: Implications for a Ligand Effect of Natural Distorted Tetrapyrrole. <i>Chinese Journal of Chemistry</i> , 2016, 34, 910-918.	4.9	10
42	Amplified voltammetric detection of miRNA from serum samples of glioma patients via combination of conducting magnetic microbeads and ferrocene-capped gold nanoparticle/streptavidin conjugates. <i>Biosensors and Bioelectronics</i> , 2016, 86, 502-507.	10.1	41
43	Optimal Size Matching and Minimal Distortion Energy: Implications for Natural Selection by the Macrocycle of the Iron Species in Heme. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5222-5229.	2.0	6
44	Surface plasmon resonance biosensors for simultaneous monitoring of amyloid-beta oligomers and fibrils and screening of select modulators. <i>Analyst</i> , 2016, 141, 331-336.	3.5	39
45	Fine-Tuning of Electronic Structure of Cobalt(II) Ion in Nonplanar Porphyrins and Tracking of a Cross-Hybrid Stage: Implications for the Distortion of Natural Tetrapyrrole Macrocycles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14102-14110.	2.6	22
46	Theranostic magnetoliposomes coated by carboxymethyl dextran with controlled release by low-frequency alternating magnetic field. <i>Carbohydrate Polymers</i> , 2015, 118, 209-217.	10.2	85
47	Silver Nanoclusters-Based Fluorescence Assay of Protein Kinase Activity and Inhibition. <i>Analytical Chemistry</i> , 2015, 87, 693-698.	6.5	92
48	A highly sensitive resonance light scattering probe for Alzheimer's amyloid- $\beta^2$ peptide based on Fe $^{3+}$ @Au composites. <i>Talanta</i> , 2015, 131, 475-479.	5.5	44
49	Hairpin DNA probe with 5'-TCC/CCC-3' overhangs for the creation of silver nanoclusters and miRNA assay. <i>Biosensors and Bioelectronics</i> , 2014, 51, 36-39.	10.1	48
50	Electroanalytical and surface plasmon resonance sensors for detection of breast cancer and Alzheimer's disease biomarkers in cells and body fluids. <i>Analyst</i> , 2014, 139, 1814.	3.5	46
51	A novel ferrocene-tagged peptide nanowire for enhanced electrochemical glucose biosensing. <i>Analytical Methods</i> , 2014, 6, 7161-7165.	2.7	14
52	Novel fabrication of highly fluorescent Pt nanoclusters and their applications in hypochlorite assay. <i>RSC Advances</i> , 2014, 4, 25365-25368.	3.6	19
53	Oligonucleotide-stabilized silver nanoclusters as fluorescent probes for sensitive detection of hydroquinone. <i>RSC Advances</i> , 2013, 3, 401-407.	3.6	27
54	Amplified voltammetric characterization of cleavage of the biotinylated peptide by BACE1 and screening of BACE1 inhibitors. <i>Biosensors and Bioelectronics</i> , 2013, 50, 224-228.	10.1	11

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55	Sensitive photoluminescent detection of Cu <sup>2+</sup> in real samples using CdS quantum dots in combination with a Cu <sup>2+</sup> -reducing reaction. <i>Biosensors and Bioelectronics</i> , 2013, 41, 723-729.	10.1	25
56	Glucose oxidase-functionalized fluorescent gold nanoclusters as probes for glucose. <i>Analytica Chimica Acta</i> , 2013, 772, 81-86.	5.4	94
57	Sensitive and Continuous Screening of Inhibitors of $\beta$ -Site Amyloid Precursor Protein Cleaving Enzyme 1 (BACE1) at Single SPR Chips. <i>Analytical Chemistry</i> , 2013, 85, 3660-3666.	6.5	42
58	Biomarker Detections Using Functional Noble Metal Nanoparticles. <i>ACS Symposium Series</i> , 2012, , 177-205.	0.5	2
59	Potential applications of SPR in early diagnosis and progression of Alzheimer's disease. <i>RSC Advances</i> , 2012, 2, 2200.	3.6	20
60	A highly sulfite-selective ratiometric fluorescent probe based on ESIPT. <i>RSC Advances</i> , 2012, 2, 10869.	3.6	133
61	Accurate determination of the thiol-to-metal ratio in metalloproteins by on-line combination of UV-vis spectrophotometry with electrochemistry. <i>RSC Advances</i> , 2012, 2, 8729.	3.6	2
62	Direct Quantification of MicroRNA at Low Picomolar Level in Sera of Glioma Patients Using a Competitive Hybridization Followed by Amplified Voltammetric Detection. <i>Analytical Chemistry</i> , 2012, 84, 6400-6406.	6.5	101
63	Supramolecular Liquid Crystals Induced by Intermolecular Hydrogen Bonding. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 537, 93-102.	0.9	5
64	Interaction of Tumor Suppressor p53 with DNA and Proteins. <i>Current Pharmaceutical Biotechnology</i> , 2010, 11, 122-127.	1.6	4
65	Bismuth-Coated Reticulated Vitreous Carbon and Bismuth-Coated Glassy Carbon Electrodes for On-Line Coupling of ASV with ICP-MS. <i>Electroanalysis</i> , 2010, 22, 1476-1482.	2.9	3
66	Regenerable and Simultaneous Surface Plasmon Resonance Detection of A $\beta$ (1-40) and A $\beta$ (1-42) Peptides in Cerebrospinal Fluids with Signal Amplification by Streptavidin Conjugated to an N-Terminus-Specific Antibody. <i>Analytical Chemistry</i> , 2010, 82, 10151-10157.	6.5	117
67	Simultaneous and Label-Free Determination of Wild-Type and Mutant p53 at a Single Surface Plasmon Resonance Chip Preimmobilized with Consensus DNA and Monoclonal Antibody. <i>Analytical Chemistry</i> , 2009, 81, 8441-8446.	6.5	67
68	Voltammetric Studies of Cadmium- and Zinc-Containing Metallothioneins at Nafion-Coated Mercury Thin Film Electrodes. <i>Electroanalysis</i> , 2008, 20, 888-893.	2.9	7
69	Voltammetric Investigation of Zinc Release from Metallothioneins Modulated by the Glutathione Redox Couple and Separated with a Porous Membrane. <i>Electroanalysis</i> , 2008, 20, 2253-2258.	2.9	4
70	Capture of p53 by Electrodes Modified with Consensus DNA Duplexes and Amplified Voltammetric Detection Using Ferrocene-Capped Gold Nanoparticle/Streptavidin Conjugates. <i>Analytical Chemistry</i> , 2008, 80, 769-774.	6.5	79
71	Estimation of Binding Constants for Diclofenac Sodium and Bovine Serum Albumin by Affinity Capillary Electrophoresis and Fluorescence Spectroscopy. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008, 31, 2077-2088.	1.0	8
72	Redox Reactions of Copper Complexes Formed with Different $\beta$ -Amyloid Peptides and Their Neuropathological Relevance. <i>Biochemistry</i> , 2007, 46, 9270-9282.	2.5	185

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73	Electrochemistry of and Redox-Induced Metal Release from Metallothioneins at a Nafion-Coated Bismuth Film Electrode. <i>Electroanalysis</i> , 2006, 18, 2099-2105.	2.9	10
74	Voltammetric Determination of Surface-Confined Biomolecules with N-(2-Ethyl-ferrocene)maleimide. <i>Electroanalysis</i> , 2005, 17, 2163-2169.	2.9	10
75	Improved Electrochemistry of Biomolecules Using Nanomaterials. , 0, , 97-135.		0