

Zhifei Wang

List of Publications by Year in descending order

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74
papers

2,392
citations

201385

27
h-index

214527

47
g-index

74
all docs

74
docs citations

74
times ranked

3261
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid detection of <i>Pseudomonas aeruginosa</i> based on lab-on-a-chip platform using immunomagnetic separation, light scattering, and machine learning. <i>Analytica Chimica Acta</i> , 2022, 1189, 339223.	2.6	15
2	Preparation of fluorescence-encoded microbeads with large encoding capacities and application of suspension array technology. <i>New Journal of Chemistry</i> , 2022, 46, 6986-6994.	1.4	1
3	Tumor metabolism destruction via metformin-based glycolysis inhibition and glucose oxidase-mediated glucose deprivation for enhanced cancer therapy. <i>Acta Biomaterialia</i> , 2022, 145, 222-234.	4.1	30
4	Fabrication of Fe ₃ O ₄ @poly(methyl methacrylate-co-glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 templates for removal of cationic dyes. <i>New Journal of Chemistry</i> , 2022, 46, 13442-13453.	1.4	3
5	Salicylic acid-based hypoxia-responsive chemodynamic nanomedicines boost antitumor immunotherapy by modulating immunosuppressive tumor microenvironment. <i>Acta Biomaterialia</i> , 2022, 148, 230-243.	4.1	18
6	Two-dimensional cellulose acetate membrane-supported mesoporous silica nanosheets for efficient nanosize-based molecules separation. <i>Journal of Molecular Liquids</i> , 2022, 363, 119827.	2.3	0
7	A novel aptamer-based histochemistry assay for specific diagnosis of clinical breast cancer tissues. <i>Chinese Chemical Letters</i> , 2021, 32, 1726-1730.	4.8	49
8	Silver nanoparticles decorated magnetic polymer composites (Fe ₃ O ₄ @PS@Ag) as highly efficient reusable catalyst for the degradation of 4-nitrophenol and organic dyes. <i>Journal of Environmental Management</i> , 2021, 278, 111473.	3.8	49
9	Biodegradable copper metformin nanoscale coordination polymers for enhanced chemo/chemodynamic synergistic therapy by reducing oxygen consumption to promote H ₂ O ₂ accumulation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1988-2000.	2.9	19
10	Preparation of Fe ₃ O ₄ @PMAA@Ni Microspheres towards the Efficient and Selective Enrichment of Histidine-Rich Proteins. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11166-11176.	4.0	24
11	Point-of-care diagnostics for infectious diseases: From methods to devices. <i>Nano Today</i> , 2021, 37, 101092.	6.2	276
12	Using Transparent Adhesive Tape as New Substrate for Integrated Flexible Enzymatic Sensor: Good Adhesion and Better Printability. <i>Electroanalysis</i> , 2021, 33, 1668-1677.	1.5	0
13	A Constant Potential Circuit for Electrochemical Detection of Tear Glucose. , 2021, , .		1
14	TiO ₂ /CeO ₂ -CePO ₄ -decorated enzymatic glucose biosensors operating in oxygen-restrictive environments. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 1937-1947.	1.2	6
15	Smart responsive nanoplatfrom via in situ forming disulfiram-copper ion chelation complex for cancer combination chemotherapy. <i>Chemical Engineering Journal</i> , 2021, 415, 128947.	6.6	43
16	Reinforcing the Induction of Immunogenic Cell Death Via Artificial Engineered Cascade Bioreactor Enhanced Chemo-immunotherapy for Optimizing Cancer Immunotherapy. <i>Small</i> , 2021, 17, e2101897.	5.2	42
17	Cancer immunotherapy: Classification, therapeutic mechanisms, and nanomaterial-based synergistic therapy. <i>Applied Materials Today</i> , 2021, 24, 101149.	2.3	7
18	A metformin-based nanoreactor alleviates hypoxia and reduces ATP for cancer synergistic therapy. <i>Biomaterials Science</i> , 2021, 9, 7456-7470.	2.6	13

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19	Improving the Adsorption Capacity of the Sorbent for Gaseous PbCl ₂ during Incineration by Forming Pb ₃ (PO ₄) ₂ : Preparation of the Sorbent and Evaluation of Adsorption Performance. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16533-16542.	1.8	3
20	Fabrication of Yolk-Shell Fe ₃ O ₄ @NiSiO ₃ /Ni Microspheres for Efficient Purification of Histidine-Rich Proteins. <i>Langmuir</i> , 2021, 37, 14167-14176.	1.6	2
21	Encapsulation of glucose oxidase in Fe(III)/tannic acid nanocomposites for effective tumor ablation via Fenton reaction. <i>Nanotechnology</i> , 2020, 31, 015101.	1.3	20
22	Folic acid-functionalized magnetic nanoprobe <i>via</i> a PAMAM dendrimer/SA-biotin mediated cascade-amplifying system for the efficient enrichment of circulating tumor cells. <i>Biomaterials Science</i> , 2020, 8, 6395-6403.	2.6	15
23	Nano iron-copper alloys for tumor ablation: efficiently amplified oxidative stress through acid response. <i>New Journal of Chemistry</i> , 2020, 44, 14438-14446.	1.4	4
24	Precise discrimination of Luminal A breast cancer subtype using an aptamer <i>in vitro</i> and <i>in vivo</i> . <i>Nanoscale</i> , 2020, 12, 19689-19701.	2.8	15
25	Fenton reaction-based nanomedicine in cancer chemodynamic and synergistic therapy. <i>Applied Materials Today</i> , 2020, 21, 100864.	2.3	71
26	Biodegradable Mesoporous Organosilica Nanosheets for Chemotherapy/Mild Thermotherapy of Cancer: Fast Internalization, High Cellular Uptake, and High Drug Loading. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30234-30246.	4.0	15
27	A CD44-targeted Cu(II) delivery 2D nanoplatfor for sensitized disulfiram chemotherapy to triple-negative breast cancer. <i>Nanoscale</i> , 2020, 12, 8139-8146.	2.8	24
28	A metal-phenolic network-based multifunctional nanocomposite with pH-responsive ROS generation and drug release for synergistic chemodynamic/photothermal/chemo-therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2177-2188.	2.9	54
29	Surface-initiated polymerization for the preparation of magnetic polymer composites. <i>Polymer Chemistry</i> , 2020, 11, 1797-1805.	1.9	6
30	Rapid Identification of Pathogens based on MIE Light Scattering and Machine Learning Approach. , 2019, , .		2
31	Photothermal-Enhanced Inactivation of Glutathione Peroxidase for Ferroptosis Sensitized by an Autophagy Promotor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42988-42997.	4.0	75
32	Novel Rhodamine-Derived Dual-Responsive Colorimetric Fluorescent Chemoprobe for the Hypersensitive Detection of Ga ³⁺ and Hg ²⁺ and Biological Imaging. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18456-18467.	1.8	21
33	Highly sensitive fluorescence biosensor for intracellular telomerase detection based on a single patchy gold/carbon nanosphere via the combination of nanoflare and hybridization chain reaction. <i>Biosensors and Bioelectronics</i> , 2019, 137, 110-116.	5.3	34
34	Facile Method To Efficiently Fabricate Large-Size Mesoporous Organosilica Nanosheets with Uniform Tunable Pore Size for Robust Separation Membranes. <i>Chemistry of Materials</i> , 2019, 31, 3823-3830.	3.2	14
35	Simple and efficient rhodamine-derived VO ₂ and Cu ²⁺ -responsive colorimetric and reversible fluorescent chemosensors toward the design of multifunctional materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3576-3589.	2.7	17
36	Facile Synthesis of Monodisperse Hollow Mesoporous Organosilica/Silica Nanospheres by an in Situ Dissolution and Reassembly Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12063-12069.	4.0	24

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37	Sulfosalicylic acid/Fe ³⁺ based nanoscale coordination polymers for effective cancer therapy by the Fenton reaction: an inspiration for understanding the role of aspirin in the prevention of cancer. <i>Biomaterials Science</i> , 2019, 7, 5482-5491.	2.6	17
38	Nanomaterial-induced ferroptosis for cancer specific therapy. <i>Coordination Chemistry Reviews</i> , 2019, 382, 160-180.	9.5	122
39	Aptasensors for pesticide detection. <i>Biosensors and Bioelectronics</i> , 2019, 130, 174-184.	5.3	210
40	Carbon nanosphere-based fluorescence aptasensor for targeted detection of breast cancer cell MCF-7. <i>Talanta</i> , 2018, 185, 113-117.	2.9	41
41	Differentiating breast cancer molecular subtypes using a DNA aptamer selected against MCF-7 cells. <i>Biomaterials Science</i> , 2018, 6, 3152-3159.	2.6	43
42	An Aptamer-Based Probe for Molecular Subtyping of Breast Cancer. <i>Theranostics</i> , 2018, 8, 5772-5783.	4.6	63
43	A Review on NanoPCR: History, Mechanism and Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 8029-8046.	0.9	10
44	The Role of Nanotechnology in Food Safety: Current Status and Future Perspective. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7983-8002.	0.9	4
45	Multifunctional Yolk-Shell Mesoporous Silica Obtained via Selectively Etching the Shell: A Therapeutic Nanoplatform for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24440-24449.	4.0	13
46	2D Dendritic Gold Nanostructures Formed on Silica Nanosheets: Transferability, Clean Surface, and Their Biomedical Application. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800268.	1.2	3
47	Wet Chemical Synthesis of Silica Nanosheets via Ethyl Acetate-Mediated Hydrolysis of Silica Precursors and Their Applications. <i>Small</i> , 2017, 13, 1603369.	5.2	27
48	Synthesis of aptamer-functionalized Ag nanoclusters for MCF-7 breast cancer cells imaging. <i>Science China Chemistry</i> , 2017, 60, 370-376.	4.2	40
49	Assembling gold nanoparticles into flower-like structures by complementary base pairing of DNA molecules with mediation by apoferritins. <i>Chemical Communications</i> , 2017, 53, 4581-4584.	2.2	4
50	Ultrasmall and photostable nanotheranostic agents based on carbon quantum dots passivated with polyamine-containing organosilane molecules. <i>Nanoscale</i> , 2017, 9, 15441-15452.	2.8	67
51	Aptamer selection and applications for breast cancer diagnostics and therapy. <i>Journal of Nanobiotechnology</i> , 2017, 15, 81.	4.2	96
52	Cell-specific biomarkers and targeted biopharmaceuticals for breast cancer treatment. <i>Cell Proliferation</i> , 2016, 49, 409-420.	2.4	30
53	Coating Carbon Nanosphere with Patchy Gold for Production of Highly Efficient Photothermal Agent. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19321-19332.	4.0	37
54	Near-infrared light-induced dissociation of zeolitic imidazole framework-8 (ZIF-8) with encapsulated CuS nanoparticles and their application as a therapeutic nanoplatform. <i>Chemical Communications</i> , 2016, 52, 12210-12213.	2.2	78

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55	Amphiphilic Diblock Copolymers Bearing a Cysteine Junction Group: Synthesis, Encapsulation of Inorganic Nanoparticles, and Near-Infrared Photoresponsive Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 18197-18207.	1.7	5
56	In Situ Visualization of Lipid Raft Domains by Fluorescent Glycol Chitosan Derivatives. <i>Langmuir</i> , 2016, 32, 6739-6745.	1.6	29
57	A pH responsive micelle combined with Au nanoparticles for multi-stimuli release of both hydrophobic and hydrophilic drug. <i>RSC Advances</i> , 2016, 6, 58654-58657.	1.7	2
58	Highly selective fluorescence detection of Pd ²⁺ species based on a catalyzed aromatic Claisen rearrangement. <i>RSC Advances</i> , 2015, 5, 105810-105813.	1.7	10
59	Peroxidase-like activity of mesoporous silica encapsulated Pt nanoparticle and its application in colorimetric immunoassay. <i>Analytica Chimica Acta</i> , 2015, 862, 53-63.	2.6	74
60	DNA-caged gold nanoparticles for controlled release of doxorubicin triggered by a DNA enzyme and pH. <i>Chemical Communications</i> , 2015, 51, 12996-12999.	2.2	17
61	Synthesis of Ultrastable Copper Sulfide Nanoclusters via Trapping the Reaction Intermediate: Potential Anticancer and Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7082-7092.	4.0	111
62	Electrochemical detection of DNA by using α -Pd/GO label copper stain for signal amplification. <i>Analytical Methods</i> , 2015, 7, 8554-8560.	1.3	4
63	Effects of template removal on both morphology of mesoporous silica-coated gold nanorod and its biomedical application. <i>RSC Advances</i> , 2014, 4, 28683-28690.	1.7	37
64	A FITC-doped silica coated gold nanocomposite for both in vivo X-ray CT and fluorescence dual modal imaging. <i>RSC Advances</i> , 2014, 4, 51950-51959.	1.7	33
65	Label-free detection of DNA by combining gated mesoporous silica and catalytic signal amplification of platinum nanoparticles. <i>Analyst</i> , 2014, 139, 6088-6091.	1.7	33
66	Threading different metal nanomaterials on natural PhiX174 DNA to assemble a necklace. <i>RSC Advances</i> , 2014, 4, 47268-47271.	1.7	3
67	Synthesis of a Au-Pd Heteronanostructure Stabilized by Citrate and its Catalytic Application. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 905-910.	1.2	5
68	Fluorescent Artificial Enzyme-Linked Immunoassay System Based on Pd/C Nanocatalyst and Fluorescent Chemodosimeter. <i>Analytical Chemistry</i> , 2013, 85, 11602-11609.	3.2	24
69	Gold Nanoparticles Decorated by Amphiphilic Block Copolymer as Efficient System for Drug Delivery. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 61-68.	0.5	5
70	Preliminary Studies on Palladium Nanoparticle as a Novel Label for DNA Microarray and Their Corresponding Detection. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1050-1059.	0.5	3
71	Preparation of carboxyl group-modified palladium nanoparticles in an aqueous solution and their conjugation with DNA. <i>Nanoscale</i> , 2012, 4, 3536.	2.8	14
72	Novel Photolabile Diblock Copolymers Bearing Truxillic Acid Derivative Junctions. <i>Macromolecules</i> , 2011, 44, 159-165.	2.2	52

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73	Magnetically recyclable C@(Au@Fe) supported Pd nanoparticles for the Heck cross-coupling reactions. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010, 101, 387-396.	0.8	11
74	Synthesis and characterization of SiO ₂ /(PMMA/Fe ₃ O ₄) magnetic nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1797-802.	0.9	3