

Wenhu Zhou

List of Publications by Year in descending order

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86
papers

4,336
citations

136740

32
h-index

114278

63
g-index

88
all docs

88
docs citations

88
times ranked

4289
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Sensing by DNA. <i>Chemical Reviews</i> , 2017, 117, 8272-8325.	23.0	713
2	Aptamer-based biosensors for biomedical diagnostics. <i>Analyst, The</i> , 2014, 139, 2627.	1.7	435
3	Targeted silver nanoparticles for rheumatoid arthritis therapy via macrophage apoptosis and Re-polarization. <i>Biomaterials</i> , 2021, 264, 120390.	5.7	226
4	Mechanisms of drug release in pH-sensitive micelles for tumour targeted drug delivery system: A review. <i>International Journal of Pharmaceutics</i> , 2018, 535, 253-260.	2.6	198
5	Theranostic DNAzymes. <i>Theranostics</i> , 2017, 7, 1010-1025.	4.6	190
6	Advances of nanoparticles as drug delivery systems for disease diagnosis and treatment. <i>Chinese Chemical Letters</i> , 2023, 34, 107518.	4.8	124
7	Bioorthogonal DNA Adsorption on Polydopamine Nanoparticles Mediated by Metal Coordination for Highly Robust Sensing in Serum and Living Cells. <i>ACS Nano</i> , 2018, 12, 9070-9080.	7.3	107
8	Oxygen-Self-Supplying and HIF-1 α -Inhibiting Core@Shell Nanosystem for Hypoxia-Resistant Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48261-48270.	4.0	82
9	A DNAzyme requiring two different metal ions at two distinct sites. <i>Nucleic Acids Research</i> , 2016, 44, 354-363.	6.5	80
10	2-Aminopurine-modified DNA homopolymers for robust and sensitive detection of mercury and silver. <i>Biosensors and Bioelectronics</i> , 2017, 87, 171-177.	5.3	75
11	A New Na ⁺ -Dependent RNA-Cleaving DNAzyme with over 1000-fold Rate Acceleration by Ethanol. <i>ChemBioChem</i> , 2016, 17, 159-163.	1.3	70
12	In Vitro Selection in Serum: RNA-Cleaving DNAzymes for Measuring Ca ²⁺ and Mg ²⁺ . <i>ACS Sensors</i> , 2016, 1, 600-606.	4.0	66
13	Light-up RNA aptamer signaling-CRISPR-Cas13a-based mix-and-read assays for profiling viable pathogenic bacteria. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112906.	5.3	66
14	An Exceptionally Selective DNA Cooperatively Binding Two Ca ²⁺ Ions. <i>ChemBioChem</i> , 2017, 18, 518-522.	1.3	63
15	A Smart pH-Sensitive Delivery System for Enhanced Anticancer Efficacy via Paclitaxel Endosomal Escape. <i>Frontiers in Pharmacology</i> , 2019, 10, 10.	1.6	61
16	Intrinsic Radical Species Scavenging Activities of Tea Polyphenols Nanoparticles Block Pyroptosis in Endotoxin-Induced Sepsis. <i>ACS Nano</i> , 2022, 16, 2429-2441.	7.3	61
17	Tandem Phosphorothioate Modifications for DNA Adsorption Strength and Polarity Control on Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14795-14800.	4.0	60
18	In Vitro Selection of Chromium-Dependent DNAzymes for Sensing Chromium(III) and Chromium(VI). <i>Chemistry - A European Journal</i> , 2016, 22, 9835-9840.	1.7	57

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19	DNAzyme Hybridization, Cleavage, Degradation, and Sensing in Undiluted Human Blood Serum. <i>Analytical Chemistry</i> , 2015, 87, 4001-4007.	3.2	52
20	“Trojan Horse” Salmonella Enabling Tumor Homing of Silver Nanoparticles via Neutrophil Infiltration for Synergistic Tumor Therapy and Enhanced Biosafety. <i>Nano Letters</i> , 2021, 21, 414-423.	4.5	50
21	Co-delivery of doxorubicin and DNAzyme using ZnO@polydopamine core-shell nanocomposites for chemo/gene/photothermal therapy. <i>Acta Biomaterialia</i> , 2020, 110, 242-253.	4.1	48
22	Aptamer-nanoparticle bioconjugates enhance intracellular delivery of vinorelbine to breast cancer cells. <i>Journal of Drug Targeting</i> , 2014, 22, 57-66.	2.1	47
23	A thermo-responsive and self-healing liposome-in-hydrogel system as an antitubercular drug carrier for localized bone tuberculosis therapy. <i>International Journal of Pharmaceutics</i> , 2019, 558, 101-109.	2.6	45
24	Rational design of metal-organic frameworks to deliver methotrexate for targeted rheumatoid arthritis therapy. <i>Journal of Controlled Release</i> , 2021, 330, 119-131.	4.8	45
25	Metal-phenolic networks for cancer theranostics. <i>Biomaterials Science</i> , 2021, 9, 2825-2849.	2.6	45
26	A smart MnO ₂ -doped graphene oxide nanosheet for enhanced chemo-photodynamic combinatorial therapy via simultaneous oxygenation and glutathione depletion. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 823-834.	5.7	44
27	Macrophage-targeted nanomedicine for chronic diseases immunotherapy. <i>Chinese Chemical Letters</i> , 2022, 33, 597-612.	4.8	44
28	Core-Shell Nanosystems for Self-Activated Drug-Gene Combinations against Triple-Negative Breast Cancer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53654-53664.	4.0	43
29	ROS-responsive liposomes with NIR light-triggered doxorubicin release for combinatorial therapy of breast cancer. <i>Journal of Nanobiotechnology</i> , 2021, 19, 134.	4.2	41
30	Multi-metal-dependent nucleic acid enzymes. <i>Metallomics</i> , 2018, 10, 30-48.	1.0	40
31	A review of stevia as a potential healthcare product: Up-to-date functional characteristics, administrative standards and engineering techniques. <i>Trends in Food Science and Technology</i> , 2020, 103, 264-281.	7.8	39
32	A Silver-Specific DNAzyme with a New Silver Aptamer and Salt-Promoted Activity. <i>Biochemistry</i> , 2017, 56, 1955-1962.	1.2	36
33	Metal organic framework coated MnO ₂ nanosheets delivering doxorubicin and self-activated DNAzyme for chemo-gene combinatorial treatment of cancer. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119513.	2.6	36
34	Nanoscale Copper(II)-Diethyldithiocarbamate Coordination Polymer as a Drug Self-Delivery System for Highly Robust and Specific Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2020, 17, 2864-2873.	2.3	35
35	DNAzyme-adsorbed polydopamine@MnO ₂ core-shell nanocomposites for enhanced photothermal therapy via the self-activated suppression of heat shock protein 70. <i>Nanoscale</i> , 2021, 13, 5125-5135.	2.8	34
36	New advances in brain-targeting nano-drug delivery systems for Alzheimer's disease. <i>Journal of Drug Targeting</i> , 2022, 30, 61-81.	2.1	34

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37	Radicals Scavenging MOFs Enabling Targeting Delivery of siRNA for Rheumatoid Arthritis Therapy. <i>Small</i> , 2022, 18, .	5.2	34
38	Kinetic Discrimination of Metal Ions Using DNA for Highly Sensitive and Selective Cr ³⁺ Detection. <i>ACS Sensors</i> , 2017, 2, 663-669.	4.0	33
39	A highly specific sodium aptamer probed by 2-aminopurine for robust Na ⁺ sensing. <i>Nucleic Acids Research</i> , 2016, 44, gkw845.	6.5	32
40	Ultrasensitive DNAzyme-Based Ca ²⁺ Detection Boosted by Ethanol and a Solvent-Compatible Scaffold for Aptazyme Design. <i>ChemBioChem</i> , 2018, 19, 31-36.	1.3	32
41	Cr ³⁺ Binding to DNA Backbone Phosphate and Bases: Slow Ligand Exchange Rates and Metal Hydrolysis. <i>Inorganic Chemistry</i> , 2016, 55, 8193-8200.	1.9	29
42	Polarity control of DNA adsorption enabling the surface functionalization of CuO nanozymes for targeted tumor therapy. <i>Materials Horizons</i> , 2021, 8, 972-986.	6.4	29
43	A cyclic nano-reactor achieving enhanced photodynamic tumor therapy by reversing multiple resistances. <i>Journal of Nanobiotechnology</i> , 2021, 19, 149.	4.2	29
44	Self-oxygenation mesoporous MnO ₂ nanoparticles with ultra-high drug loading capacity for targeted arteriosclerosis therapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 88.	4.2	28
45	A Selective Na ⁺ Aptamer Dissected by Sensitized Tb ³⁺ Luminescence. <i>ChemBioChem</i> , 2016, 17, 1563-1570.	1.3	26
46	Cell membrane inspired nano-shell enabling long-acting Glucose Oxidase for Melanoma starvation therapy via microneedles-based percutaneous delivery. <i>Theranostics</i> , 2021, 11, 8270-8282.	4.6	26
47	Fluorescent sensors for sodium ions. <i>Analytical Methods</i> , 2017, 9, 5570-5579.	1.3	26
48	Brain Penetration and Neuron Targeting DNA Nanoflowers Co-Delivering miR-124 and Rutin for Synergistic Therapy of Alzheimer's Disease. <i>Small</i> , 2022, 18, e2107534.	5.2	26
49	Anti-PD-L1 DNAzyme Loaded Photothermal Mn ²⁺ /Fe ³⁺ Hybrid Metal-Phenolic Networks for Cyclically Amplified Tumor Ferroptosis Immunotherapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102315.	3.9	25
50	Formulation, characterization and clinical evaluation of propranolol hydrochloride gel for transdermal treatment of superficial infantile hemangioma. <i>Drug Development and Industrial Pharmacy</i> , 2015, 41, 1109-1119.	0.9	24
51	Two Completely Different Mechanisms for Highly Specific Na ⁺ Recognition by DNAzymes. <i>ChemBioChem</i> , 2017, 18, 1828-1835.	1.3	22
52	A platinum shell for ultraslow ligand exchange: unmodified DNA adsorbing more stably on platinum than thiol and dithiol on gold. <i>Chemical Communications</i> , 2015, 51, 12084-12087.	2.2	21
53	Ligands dissociation induced gold nanoparticles aggregation for colorimetric Al ³⁺ detection. <i>Analytica Chimica Acta</i> , 2019, 1087, 76-85.	2.6	21
54	Fenton metal nanomedicines for imaging-guided combinatorial chemodynamic therapy against cancer. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 177-192.	4.3	21

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55	Spermine modified polymeric micelles with pH-sensitive drug release for targeted and enhanced antitumor therapy. <i>RSC Advances</i> , 2019, 9, 11026-11037.	1.7	19
56	Temperature-robust and ratiometric G-quadruplex proximate DNAzyme assay for robustly monitoring of uranium pollution and its microbial biosorbents screening. <i>Journal of Hazardous Materials</i> , 2021, 413, 125383.	6.5	19
57	Platinated graphene oxide: A nanoplatform for efficient gene-chemo combination cancer therapy. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 121, 319-329.	1.9	18
58	Analysis of the biodegradation performance and biofouling in a halophilic MBBR-MBR to improve the treatment of disinfected saline wastewater. <i>Chemosphere</i> , 2021, 269, 128716.	4.2	18
59	An Efficient Lanthanide-Dependent DNAzyme Cleaving 5'-Linked RNA. <i>ChemBioChem</i> , 2016, 17, 890-894.	1.7	17
60	Surface Coating of Pulmonary siRNA Delivery Vectors Enabling Mucus Penetration, Cell Targeting, and Intracellular Radical Scavenging for Enhanced Acute Lung Injury Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5090-5100.	4.0	17
61	Current Advances of Nanomedicines Delivering Arsenic Trioxide for Enhanced Tumor Therapy. <i>Pharmaceutics</i> , 2022, 14, 743.	2.0	17
62	Facile construction of dual-targeting delivery system by using lipid capped polymer nanoparticles for anti-glioma therapy. <i>RSC Advances</i> , 2018, 8, 444-453.	1.7	16
63	Rapamycin as a "One-Stone-Three-Birds" Agent for Cooperatively Enhanced Phototherapies Against Metastatic Breast Cancer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25674-25684.	4.0	16
64	Screening of DNAzyme mutants for highly sensitive and selective detection of calcium in milk. <i>Analytical Methods</i> , 2018, 10, 1740-1746.	1.3	13
65	An aptamer-tethered, DNAzyme-embedded molecular beacon for simultaneous detection and regulation of tumor-related genes in living cells. <i>Analyst</i> , 2019, 144, 5098-5107.	1.7	13
66	Biodegradation performance and biofouling control of a halophilic biocarriers-MBR in saline pharmaceutical (ampicillin-containing) wastewater treatment. <i>Chemosphere</i> , 2021, 263, 127949.	4.2	13
67	Potential and applications of capillary electrophoresis for analyzing traditional Chinese medicine: a critical review. <i>Analyst</i> , 2021, 146, 4724-4736.	1.7	13
68	Study on the Mechanism of Astragalus Polysaccharide in Treating Pulmonary Fibrosis Based on "Drug-Target-Pathway" Network. <i>Frontiers in Pharmacology</i> , 2022, 13, 865065.	1.6	13
69	Enhanced DNA sensitized Tb ³⁺ luminescence in organic solvents for more sensitive detection. <i>Analytica Chimica Acta</i> , 2017, 977, 44-51.	2.6	12
70	An RNA-Cleaving Catalytic DNA Accelerated by Freezing. <i>ChemBioChem</i> , 2018, 19, 1012-1017.	1.3	12
71	Splitting a DNAzyme enables a Na ⁺ -dependent FRET signal from the embedded aptamer. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6959-6966.	1.5	11
72	Tandem DNAzyme for double digestion: a new tool for circRNA suppression. <i>Biological Chemistry</i> , 2019, 400, 247-253.	1.2	10

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73	Hyaluronic Acid-Coated MTX-PEI Nanoparticles for Targeted Rheumatoid Arthritis Therapy. <i>Crystals</i> , 2021, 11, 321.	1.0	10
74	Site-selective Labeling of Chromium(III) as a Quencher on DNA for Molecular Beacons. <i>ChemPlusChem</i> , 2017, 82, 1224-1230.	1.3	9
75	Imatinib co-loaded targeted realgar nanocrystal for synergistic therapy of chronic myeloid leukemia. <i>Journal of Controlled Release</i> , 2021, 338, 190-200.	4.8	9
76	Pure DNA scaffolded drug delivery systems for cancer therapy. <i>Biomaterials</i> , 2022, 285, 121532.	5.7	9
77	Dopamine-Grafted Hyaluronic Acid Coated Hyperbranched Poly(β -Amino Esters)/DNA Nano-Complexes for Enhanced Gene Delivery and Biosafety. <i>Crystals</i> , 2021, 11, 347.	1.0	8
78	A tetrahedral DNA nanoflare for fluorometric determination of nucleic acids and imaging of microRNA using toehold strands. <i>Mikrochimica Acta</i> , 2019, 186, 824.	2.5	7
79	Polyserotonin as a versatile coating with pH-responsive degradation for anti-tumor therapy. <i>Chemical Communications</i> , 2022, 58, 6713-6716.	2.2	7
80	Macrophages-regulating nanomedicines for sepsis therapy. <i>Chinese Chemical Letters</i> , 2023, 34, 107588.	4.8	7
81	Non-cytotoxic nanoparticles re-educating macrophages achieving both innate and adaptive immune responses for tumor therapy. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 557-570.	4.3	7
82	Combinatorial effect of thymoquinone with chemo agents for tumor therapy. <i>Phytomedicine</i> , 2022, 98, 153936.	2.3	6
83	The Pharmacokinetics of Morphine and Codeine in Human Plasma and Urine after Oral Administration of Qiangli Pipa Syrup. <i>Journal of Forensic Sciences</i> , 2018, 63, 1221-1228.	0.9	4
84	What the Microscale Systems See in Biological Assemblies: Cells and Viruses?. <i>Analytical Chemistry</i> , 2022, 94, 59-74.	3.2	4
85	Crystalline Micro- and Nano-Materials for Medical and Other Biochemical Applications. <i>Crystals</i> , 2021, 11, 1361.	1.0	2
86	Preparation and preliminary quality evaluation of aspirin/L-glutamate compound pellets. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 116.	1.7	1