

Kelong Fan

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

10,328
citations

43973

48
h-index

56606

83
g-index

97
all docs

97
docs citations

97
times ranked

7485
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo guiding nitrogen-doped carbon nanozyme for tumor catalytic therapy. <i>Nature Communications</i> , 2018, 9, 1440.	5.8	759
2	Standardized assays for determining the catalytic activity and kinetics of peroxidase-like nanozymes. <i>Nature Protocols</i> , 2018, 13, 1506-1520.	5.5	654
3	Magnetoferritin nanoparticles for targeting and visualizing tumour tissues. <i>Nature Nanotechnology</i> , 2012, 7, 459-464.	15.6	623
4	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4911-4916.	7.2	607
5	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetic for Biomedical Applications. <i>Theranostics</i> , 2017, 7, 3207-3227.	4.6	421
6	Structure and activity of nanozymes: Inspirations for de novo design of nanozymes. <i>Materials Today</i> , 2020, 41, 81-119.	8.3	398
7	H-ferritin-encaged doxorubicin nanoparticles specifically target and kill tumors with a single-dose injection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14900-14905.	3.3	382
8	Fe ₃ O ₄ Magnetic Nanoparticle Peroxidase Mimetic-Based Colorimetric Assay for the Rapid Detection of Organophosphorus Pesticide and Nerve Agent. <i>Analytical Chemistry</i> , 2013, 85, 308-312.	3.2	351
9	Optimization of Fe ₃ O ₄ nanozyme activity via single amino acid modification mimicking an enzyme active site. <i>Chemical Communications</i> , 2017, 53, 424-427.	2.2	334
10	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021, 40, 101269.	6.2	332
11	Nanozyme-strip for rapid local diagnosis of Ebola. <i>Biosensors and Bioelectronics</i> , 2015, 74, 134-141.	5.3	320
12	Nanozymes Inspired by Natural Enzymes. <i>Accounts of Materials Research</i> , 2021, 2, 534-547.	5.9	304
13	High-Performance Self-Cascade Pyrite Nanozymes for Apoptosis-Induced Ferroptosis Synergistic Tumor Therapy. <i>ACS Nano</i> , 2021, 15, 5735-5751.	7.3	266
14	Nanozyme for tumor therapy: Surface modification matters. <i>Exploration</i> , 2021, 1, 75-89.	5.4	250
15	Ferritin Nanocarrier Traverses the Blood Brain Barrier and Kills Glioma. <i>ACS Nano</i> , 2018, 12, 4105-4115.	7.3	239
16	Biodegradation-Mediated Enzymatic Activity-Tunable Molybdenum Oxide Nanourchins for Tumor-Specific Cascade Catalytic Therapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 1636-1644.	6.6	197
17	Superoxide dismutase nanozymes: an emerging star for anti-oxidation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6939-6957.	2.9	175
18	CD146 is a coreceptor for VEGFR-2 in tumor angiogenesis. <i>Blood</i> , 2012, 120, 2330-2339.	0.6	159

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19	Exosome-like Nanozyme Vesicles for H ₂ O ₂ -Responsive Catalytic Photoacoustic Imaging of Xenograft Nasopharyngeal Carcinoma. <i>Nano Letters</i> , 2019, 19, 203-209.	4.5	150
20	Converting organosulfur compounds to inorganic polysulfides against resistant bacterial infections. <i>Nature Communications</i> , 2018, 9, 3713.	5.8	141
21	Mussel-inspired nanozyme catalyzed conductive and self-setting hydrogel for adhesive and antibacterial bioelectronics. <i>Bioactive Materials</i> , 2021, 6, 2676-2687.	8.6	138
22	A Bioinspired Five-Coordinate Single-Atom Iron Nanozyme for Tumor Catalytic Therapy. <i>Advanced Materials</i> , 2022, 34, e2107088.	11.1	133
23	A metal-free nanozyme-activated prodrug strategy for targeted tumor catalytic therapy. <i>Nano Today</i> , 2020, 35, 100935.	6.2	126
24	Ferritin drug carrier (FDC) for tumor targeting therapy. <i>Journal of Controlled Release</i> , 2019, 311-312, 288-300.	4.8	125
25	Nanozymes: created by learning from nature. <i>Science China Life Sciences</i> , 2020, 63, 1183-1200.	2.3	118
26	H ₂ O ₂ Self-Producing Single-Atom Nanozyme Hydrogels as Light-Controlled Oxidative Stress Amplifier for Enhanced Synergistic Therapy by Transforming Cold Tumors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	118
27	A Nanozyme-Based Artificial Peroxisome Ameliorates Hyperuricemia and Ischemic Stroke. <i>Advanced Functional Materials</i> , 2021, 31, 2007130.	7.8	116
28	Nanozyme-based catalytic theranostics. <i>RSC Advances</i> , 2020, 10, 10-20.	1.7	107
29	Platinum-carbon-integrated nanozymes for enhanced tumor photodynamic and photothermal therapy. <i>Nanoscale</i> , 2020, 12, 13548-13557.	2.8	104
30	Unveiling the active sites on ferrihydrite with apparent catalase-like activity for potentiating radiotherapy. <i>Nano Today</i> , 2021, 41, 101317.	6.2	102
31	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie</i> , 2019, 131, 4965-4970.	1.6	94
32	Catalytic inactivation of influenza virus by iron oxide nanozyme. <i>Theranostics</i> , 2019, 9, 6920-6935.	4.6	90
33	Stellate Plasmonic Exosomes for Penetrative Targeting Tumor NIR-II Thermo-Radiotherapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36928-36937.	4.0	86
34	Bioengineered Magnetoferritin Nanoprobes for Single-Dose Nuclear-Magnetic Resonance Tumor Imaging. <i>ACS Nano</i> , 2016, 10, 4184-4191.	7.3	81
35	Bioinspired copper single-atom nanozyme as a superoxide dismutase-like antioxidant for sepsis treatment. <i>Exploration</i> , 2022, 2, .	5.4	81
36	GRP78-targeted ferritin nanocaged ultra-high dose of doxorubicin for hepatocellular carcinoma therapy. <i>Theranostics</i> , 2019, 9, 2167-2182.	4.6	80

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37	Ferritins as natural and artificial nanozymes for theranostics. <i>Theranostics</i> , 2020, 10, 687-706.	4.6	80
38	Carbon dots supported single Fe atom nanozyme for drug-resistant glioblastoma therapy by activating autophagy-lysosome pathway. <i>Nano Today</i> , 2022, 45, 101530.	6.2	79
39	Biomaterialization Synthesis of the Cobalt Nanozyme in SP94-Ferritin Nanocages for Prognostic Diagnosis of Hepatocellular Carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9747-9755.	4.0	77
40	TiO ₂ supported single Ag atoms nanozyme for elimination of SARS-CoV2. <i>Nano Today</i> , 2021, 40, 101243.	6.2	76
41	Nano-decocted ferrous polysulfide coordinates ferroptosis-like death in bacteria for anti-infection therapy. <i>Nano Today</i> , 2020, 35, 100981.	6.2	71
42	Fenozyme Protects the Integrity of the Blood-Brain Barrier against Experimental Cerebral Malaria. <i>Nano Letters</i> , 2019, 19, 8887-8895.	4.5	70
43	Bioadhesive injectable hydrogel with phenolic carbon quantum dot supported Pd single atom nanozymes as a localized immunomodulation niche for cancer catalytic immunotherapy. <i>Biomaterials</i> , 2022, 280, 121272.	5.7	68
44	Human ferritin for tumor detection and therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 287-298.	3.3	66
45	Protein-protected metal nanoclusters as diagnostic and therapeutic platforms for biomedical applications. <i>Materials Today</i> , 2023, 66, 159-193.	8.3	59
46	A natural drug entry channel in the ferritin nanocage. <i>Nano Today</i> , 2020, 35, 100948.	6.2	57
47	Fenobody: A Ferritin-Displayed Nanobody with High Apparent Affinity and Half-Life Extension. <i>Analytical Chemistry</i> , 2018, 90, 5671-5677.	3.2	55
48	Targeting endothelial CD146 attenuates neuroinflammation by limiting lymphocyte extravasation to the CNS. <i>Scientific Reports</i> , 2013, 3, 1687.	1.6	52
49	Ex Vivo Detection of Iron Oxide Magnetic Nanoparticles in Mice Using Their Intrinsic Peroxidase-Mimicking Activity. <i>Molecular Pharmaceutics</i> , 2012, 9, 1983-1989.	2.3	51
50	Protein-protected metal nanoclusters: An emerging ultra-small nanozyme. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1602.	3.3	51
51	<i>In Vivo</i> Regenerable Cerium Oxide Nanozyme-Loaded pH/H ₂ O ₂ -Responsive Nanovesicle for Tumor-Targeted Photothermal and Photodynamic Therapies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 233-244.	4.0	50
52	Bioengineered H-Ferritin Nanocages for Quantitative Imaging of Vulnerable Plaques in Atherosclerosis. <i>ACS Nano</i> , 2018, 12, 9300-9308.	7.3	43
53	Ferritin variants: inspirations for rationally designing protein nanocarriers. <i>Nanoscale</i> , 2019, 11, 12449-12459.	2.8	41
54	Nanozyme: A promising tool from clinical diagnosis and environmental monitoring to wastewater treatment. <i>Particuology</i> , 2022, 71, 90-107.	2.0	41

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55	TfR1 binding with H-ferritin nanocarrier achieves prognostic diagnosis and enhances the therapeutic efficacy in clinical gastric cancer. <i>Cell Death and Disease</i> , 2020, 11, 92.	2.7	40
56	Ferritin nanocage: A promising and designable multi-module platform for constructing dynamic nanoassembly-based drug nanocarrier. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113892.	6.6	40
57	Nanozymes: an emerging field bridging nanotechnology and enzymology. <i>Science China Life Sciences</i> , 2019, 62, 1543-1546.	2.3	37
58	Advances in chiral nanozymes: a review. <i>Mikrochimica Acta</i> , 2019, 186, 782.	2.5	35
59	Near-Atomic Resolution Structure Determination in Over-Focus with Volta Phase Plate by Cs-Corrected Cryo-EM. <i>Structure</i> , 2017, 25, 1623-1630.e3.	1.6	34
60	Re-engineering the inner surface of ferritin nanocage enables dual drug payloads for synergistic tumor therapy. <i>Theranostics</i> , 2022, 12, 1800-1815.	4.6	30
61	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetics for Biomedical Application. <i>Nanostructure Science and Technology</i> , 2020, , 105-140.	0.1	28
62	From mouse to mouseâ€œear cross: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , 2021, 1, 9-20.	5.4	27
63	Black phosphorus quantum dots as multifunctional nanozymes for tumor photothermal/catalytic synergistic therapy. <i>Nano Research</i> , 2022, 15, 1554-1563.	5.8	21
64	Bioengineered magnetoferritin nanozymes for pathological identification of high-risk and ruptured atherosclerotic plaques in humans. <i>Nano Research</i> , 2019, 12, 863-868.	5.8	18
65	Bioengineered Dualâ€œTargeting Protein Nanocage for Stereoscopical Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy. <i>Advanced Functional Materials</i> , 2021, 31, 2102004.	7.8	18
66	Persistent luminescence-polypyrrole nanocomposite for dual-modal imaging and photothermal therapy of mammary cancer. <i>Talanta</i> , 2021, 221, 121435.	2.9	17
67	Questions about horse spleen ferritin crossing the blood brain barrier via mouse transferrin receptor 1. <i>Protein and Cell</i> , 2017, 8, 788-790.	4.8	16
68	Endoscopic molecular imaging of early gastric cancer using fluorescently labeled human H-ferritin nanoparticle. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2259-2270.	1.7	16
69	Ferritin nanocages for early theranostics of tumors via inflammation-enhanced active targeting. <i>Science China Life Sciences</i> , 2022, 65, 328-340.	2.3	16
70	Ferritin-Nanocaged ATP Traverses the Bloodâ€œTestis Barrier and Enhances Sperm Motility in an Asthenozoospermia Model. <i>ACS Nano</i> , 2022, 16, 4175-4185.	7.3	11
71	Precise visual distinction of brain glioma from normal tissues via targeted photoacoustic and fluorescence navigation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 27, 102204.	1.7	10
72	Editorial: Nanozymes: From Rational Design to Biomedical Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 670767.	1.8	9

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73	The prototypes of nanozyme-based nanorobots. <i>Biophysics Reports</i> , 2020, 6, 223-244.	0.2	6
74	Nanocage-Based Capture-Detection System for the Clinical Diagnosis of Autoimmune Disease. <i>Small</i> , 2021, 17, 2101655.	5.2	6
75	Low-cooling-rate freezing in biomolecular cryo-electron microscopy for recovery of initial frames. <i>QRB Discovery</i> , 2021, 2, .	0.6	6
76	Bioengineered Ferritin Nanoprobe for Cancer Theranostics. , 2018, , 143-175.		3
77	Nanozyme-Based Tumor Theranostics. <i>Nanostructure Science and Technology</i> , 2020, , 425-457.	0.1	3
78	Cerium Oxide Based Nanozymes. <i>Nanostructure Science and Technology</i> , 2020, , 279-329.	0.1	3
79	Nanozymes: a new choice for disease treatment. <i>Scientia Sinica Vitae</i> , 2020, 50, 311-328.	0.1	2
80	The Advances of Nanozyme in Brain Disease. , 2019, , 139-179.		2
81	Diagnosis of Autoimmune Diseases: Nanocage-Based Capture-Detection System for the Clinical Diagnosis of Autoimmune Disease (<i>Small</i> 25/2021). <i>Small</i> , 2021, 17, 2170126.	5.2	1
82	A new strategy of loading ferritin with “iron-Dox” complex. <i>Scientia Sinica Vitae</i> , 2021, 51, 871-878.	0.1	1
83	Sa1221 ENDOSCOPIC MOLECULAR IMAGING OF EARLY GASTRIC CANCER USING HUMAN HEAVY-CHAIN FERRITIN NANOPROBE UNDER CONFOCAL LASER ENDOMICROSCOPY. <i>Gastrointestinal Endoscopy</i> , 2018, 87, AB169-AB170.	0.5	0
84	Synergistic Chemotherapy: Bioengineered Dual-Targeting Protein Nanocage for Stereoscopical Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy (<i>Adv. Funct. Mater.</i>) Tj ETQq0 0 0 rgBT.4 Overlock 10 Tf 50	1.0	0
85	Front Cover: From mouse to mouse&eacres: Nanomaterials as vehicles in plant biotechnology (EXP2) Tj ETQq1 1 0.784314 rgBT /0 5.4	1.0	0
86	Research status and key scientific issues of nanobiology. <i>Scientia Sinica Vitae</i> , 2020, 50, 778-787.	0.1	0
87	Nanozymes and Their Applications in Biomedicine. , 2020, , 15-1-15-22.		0