

Xiyun Yan

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

11,411
citations

45
h-index

106
g-index

117
ext. papers

15,115
ext. citations

12.1
avg. IF

6.87
L-index

#	Paper	IF	Citations
112	Re-engineering the inner surface of ferritin nanocage enables dual drug payloads for synergistic tumor therapy.. <i>Theranostics</i> , 2022 , 12, 1800-1815	12.1	4
111	Bioorthogonal catalytic nanozyme-mediated lysosomal membrane leakage for targeted drug delivery.. <i>Theranostics</i> , 2022 , 12, 1132-1147	12.1	5
110	Biomimetic Design of Artificial Hybrid Nanocells for Boosted Vascular Regeneration in Ischemic Tissues.. <i>Advanced Materials</i> , 2022 , e2110352	24	5
109	Black phosphorus quantum dots as multifunctional nanozymes for tumor photothermal/catalytic synergistic therapy. <i>Nano Research</i> , 2022 , 15, 1554	10	5
108	CD146 Associates with Gp130 to Control a Macrophage Pro-inflammatory Program That Regulates the Metabolic Response to Obesity.. <i>Advanced Science</i> , 2022 , e2103719	13.6	
107	Nanozyme: A promising tool from clinical diagnosis and environmental monitoring to wastewater treatment. <i>Particuology</i> , 2022 , 71, 90-107	2.8	2
106	Prediction and Design of Nanozymes Using Explainable Machine Learning.. <i>Advanced Materials</i> , 2022 , e2201736	24	6
105	Dynamic O-GlcNAcylation coordinates ferritinophagy and mitophagy to activate ferroptosis.. <i>Cell Discovery</i> , 2022 , 8, 40	22.3	4
104	CD146 as a promising therapeutic target for retinal and choroidal neovascularization diseases. <i>Science China Life Sciences</i> , 2021 , 1	8.5	1
103	Unveiling the active sites on ferrihydrite with apparent catalase-like activity for potentiating radiotherapy. <i>Nano Today</i> , 2021 , 41, 101317	17.9	21
102	Targeting the CD146/Galectin-9 axis protects the integrity of the blood-brain barrier in experimental cerebral malaria. <i>Cellular and Molecular Immunology</i> , 2021 , 18, 2443-2454	15.4	7
101	High-Performance Self-Cascade Pyrite Nanozymes for Apoptosis-Ferroptosis Synergistic Tumor Therapy. <i>ACS Nano</i> , 2021 , 15, 5735-5751	16.7	78
100	Nanozyme-Powered Giant Unilamellar Vesicles for Mimicry and Modulation of Intracellular Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21087-21096	9.5	1
99	Bioengineered Dual-Targeting Protein Nanocage for Stereoscopic Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy. <i>Advanced Functional Materials</i> , 2021 , 31, 2102004	15.6	6
98	Nanocage-Based Capture-Detection System for the Clinical Diagnosis of Autoimmune Disease. <i>Small</i> , 2021 , 17, e2101655	11	2
97	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021 , 4, 407-417	36.5	134
96	Structure basis for AA98 inhibition on the activation of endothelial cells mediated by CD146. <i>IScience</i> , 2021 , 24, 102417	6.1	2

95	Diagnosis of Autoimmune Diseases: Nanocage-Based Capture-Detection System for the Clinical Diagnosis of Autoimmune Disease (Small 25/2021). <i>Small</i> , 2021 , 17, 2170126	11	0
94	Nanozymes Inspired by Natural Enzymes. <i>Accounts of Materials Research</i> , 2021 , 2, 534-547	7.5	68
93	Synergistic Chemotherapy: Bioengineered Dual-Targeting Protein Nanocage for Stereoscopic Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy (Adv. Funct. Mater. 29/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170207	15.6	
92	Carbon-based nanozymes for biomedical applications. <i>Nano Research</i> , 2021 , 14, 570-583	10	40
91	A Nanozyme-Based Artificial Peroxisome Ameliorates Hyperuricemia and Ischemic Stroke. <i>Advanced Functional Materials</i> , 2021 , 31, 2007130	15.6	33
90	Biochemistry of mammalian ferritins in the regulation of cellular iron homeostasis and oxidative responses. <i>Science China Life Sciences</i> , 2021 , 64, 352-362	8.5	7
89	Biomimetic Design of Mitochondria-Targeted Hybrid Nanozymes as Superoxide Scavengers. <i>Advanced Materials</i> , 2021 , 33, e2006570	24	38
88	A natural nanozyme in life is found: the iron core within ferritin shows superoxide dismutase catalytic activity. <i>Science China Life Sciences</i> , 2021 , 64, 1375-1378	8.5	1
87	Catalytic defense against fungal pathogens using nanozymes. <i>Nanotechnology Reviews</i> , 2021 , 10, 1277-1292	12.92	0
86	Nanozyme for tumor therapy: Surface modification matters. <i>Exploration</i> , 2021 , 1, 75-89		72
85	Ferritin nanocages for early theranostics of tumors via inflammation-enhanced active targeting. <i>Science China Life Sciences</i> , 2021 , 1	8.5	2
84	Modular Assembly of Tumor-Penetrating and Oligomeric Nanozyme Based on Intrinsically Self-Assembling Protein Nanocages. <i>Advanced Materials</i> , 2021 , 33, e2103128	24	8
83	Momordica charantia L. induces non-apoptotic cell death in human MDA-MB-436 breast and A549 lung cancer cells by disrupting energy metabolism and exacerbating reactive oxygen species' generation. <i>Journal of Ethnopharmacology</i> , 2021 , 277, 114036	5	2
82	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	18.5	10
81	TiO supported single Ag atoms nanozyme for elimination of SARS-CoV2. <i>Nano Today</i> , 2021 , 40, 101243	17.9	14
80	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021 , 40, 101269	17.9	97
79	Superoxide dismutase nanozymes: an emerging star for anti-oxidation. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 6939-6957	7.3	24
78	Platinum-carbon-integrated nanozymes for enhanced tumor photodynamic and photothermal therapy. <i>Nanoscale</i> , 2020 , 12, 13548-13557	7.7	54

77	Peroxidase-Like Nanozymes Induce a Novel Form of Cell Death and Inhibit Tumor Growth In Vivo. <i>Advanced Functional Materials</i> , 2020 , 30, 2000647	15.6	24
76	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	9.8	24
75	Dual-targeting nanoparticle vaccine elicits a therapeutic antibody response against chronic hepatitis B. <i>Nature Nanotechnology</i> , 2020 , 15, 406-416	28.7	71
74	Nanozymes: A New Disease Imaging Strategy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 15	5.8	31
73	Nanozymes: created by learning from nature. <i>Science China Life Sciences</i> , 2020 , 63, 1183-1200	8.5	58
72	Treatment with Momordica charantia Fractions Disrupts Energy Metabolism and Elevated Reactive Oxygen Species Generation in Human Lung and Breast Cancer Cell Lines. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
71	Nanozymology: An Overview. <i>Nanostructure Science and Technology</i> , 2020 , 3-16	0.9	4
70	Nanozyme-Based Tumor Theranostics. <i>Nanostructure Science and Technology</i> , 2020 , 425-457	0.9	3
69	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetics for Biomedical Application. <i>Nanostructure Science and Technology</i> , 2020 , 105-140	0.9	22
68	Soluble CD146, a cerebrospinal fluid marker for neuroinflammation, promotes blood-brain barrier dysfunction. <i>Theranostics</i> , 2020 , 10, 231-246	12.1	15
67	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	16.4	108
66	Ferritins as natural and artificial nanozymes for theranostics. <i>Theranostics</i> , 2020 , 10, 687-706	12.1	51
65	Structure and activity of nanozymes: Inspirations for de novo design of nanozymes. <i>Materials Today</i> , 2020 , 41, 81-119	21.8	127
64	A metal-free nanozyme-activated prodrug strategy for targeted tumor catalytic therapy. <i>Nano Today</i> , 2020 , 35, 100935	17.9	60
63	The prototypes of nanozyme-based nanorobots. <i>Biophysics Reports</i> , 2020 , 6, 223-244	3.5	3
62	CD146, from a melanoma cell adhesion molecule to a signaling receptor. <i>Signal Transduction and Targeted Therapy</i> , 2020 , 5, 148	21	31
61	A natural drug entry channel in the ferritin nanocage. <i>Nano Today</i> , 2020 , 35, 100948	17.9	17
60	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	6	6

59	Nanozyme chemiluminescence paper test for rapid and sensitive detection of SARS-CoV-2 antigen. <i>Biosensors and Bioelectronics</i> , 2020 , 173, 112817	11.8	88
58	Ferritin drug carrier (FDC) for tumor targeting therapy. <i>Journal of Controlled Release</i> , 2019 , 311-312, 288-300	11.7	59
57	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie</i> , 2019 , 131, 4965-4970	16.4	53
56	A Single-Atom Nanozyme for Wound Disinfection Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4911-4916	16.4	335
55	Ferritin variants: inspirations for rationally designing protein nanocarriers. <i>Nanoscale</i> , 2019 , 11, 12449-12459	12.1	27
54	Nanozyme: new horizons for responsive biomedical applications. <i>Chemical Society Reviews</i> , 2019 , 48, 3683-3704	58.5	568
53	GRP78-targeted ferritin nanocaged ultra-high dose of doxorubicin for hepatocellular carcinoma therapy. <i>Theranostics</i> , 2019 , 9, 2167-2182	12.1	45
52	Bioengineered magnetoferritin nanozymes for pathological identification of high-risk and ruptured atherosclerotic plaques in humans. <i>Nano Research</i> , 2019 , 12, 863-868	10	12
51	CD146-HIF-1 α hypoxic reprogramming drives vascular remodeling and pulmonary arterial hypertension. <i>Nature Communications</i> , 2019 , 10, 3551	17.4	35
50	Nanozymes: From New Concepts, Mechanisms, and Standards to Applications. <i>Accounts of Chemical Research</i> , 2019 , 52, 2190-2200	24.3	449
49	Nanozymes: an emerging field bridging nanotechnology and enzymology. <i>Science China Life Sciences</i> , 2019 , 62, 1543-1546	8.5	19
48	Fenozyme Protects the Integrity of the Blood-Brain Barrier against Experimental Cerebral Malaria. <i>Nano Letters</i> , 2019 , 19, 8887-8895	11.5	38
47	Induction of a Non-Apoptotic Cell Death in Momordica Charantia -Treated Human Cancer Cell Lines. <i>FASEB Journal</i> , 2019 , 33, 646.8	0.9	
46	Nanozymes: Biomedical Applications of Enzymatic FeO Nanoparticles from In Vitro to In Vivo. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1174, 291-312	3.6	3
45	Nanozyme-based catalytic theranostics.. <i>RSC Advances</i> , 2019 , 10, 10-20	3.7	48
44	Biom mineralization 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	9.5	45
43	Advances in chiral nanozymes: a review. <i>Mikrochimica Acta</i> , 2019 , 186, 782	5.8	19
42	Exosome-like Nanozyme Vesicles for HO-Responsive Catalytic Photoacoustic Imaging of Xenograft Nasopharyngeal Carcinoma. <i>Nano Letters</i> , 2019 , 19, 203-209	11.5	92

41	CD146: a potential therapeutic target for systemic sclerosis. <i>Protein and Cell</i> , 2018 , 9, 1050-1054	7.2	7
40	Fenobody: A Ferritin-Displayed Nanobody with High Apparent Affinity and Half-Life Extension. <i>Analytical Chemistry</i> , 2018 , 90, 5671-5677	7.8	35
39	In vivo guiding nitrogen-doped carbon nanozyme for tumor catalytic therapy. <i>Nature Communications</i> , 2018 , 9, 1440	17.4	480
38	Ferritin Nanocarrier Traverses the Blood Brain Barrier and Kills Glioma. <i>ACS Nano</i> , 2018 , 12, 4105-4115	16.7	144
37	CD146 is essential for PDGFR β -induced pericyte recruitment. <i>Protein and Cell</i> , 2018 , 9, 743-747	7.2	15
36	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	6	8
35	Converting organosulfur compounds to inorganic polysulfides against resistant bacterial infections. <i>Nature Communications</i> , 2018 , 9, 3713	17.4	85
34	Bioengineered H-Ferritin Nanocages for Quantitative Imaging of Vulnerable Plaques in Atherosclerosis. <i>ACS Nano</i> , 2018 , 12, 9300-9308	16.7	25
33	CD146 mediates an E-cadherin-to-N-cadherin switch during TGF- β -signaling-induced epithelial-mesenchymal transition. <i>Cancer Letters</i> , 2018 , 430, 201-214	9.9	30
32	Standardized assays for determining the catalytic activity and kinetics of peroxidase-like nanozymes. <i>Nature Protocols</i> , 2018 , 13, 1506-1520	18.8	336
31	Macrophagic CD146 promotes foam cell formation and retention during atherosclerosis. <i>Cell Research</i> , 2017 , 27, 352-372	24.7	71
30	Porous Pt/Ag nanoparticles with excellent multifunctional enzyme mimic activities and antibacterial effects. <i>Nano Research</i> , 2017 , 10, 2056-2069	10	78
29	Targeting CD146 in combination with vorinostat for the treatment of ovarian cancer cells. <i>Oncology Letters</i> , 2017 , 13, 1681-1687	2.6	12
28	The signalling receptor MCAM coordinates apical-basal polarity and planar cell polarity during morphogenesis. <i>Nature Communications</i> , 2017 , 8, 15279	17.4	10
27	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	5.2	28
26	Questions about horse spleen ferritin crossing the blood brain barrier via mouse transferrin receptor 1. <i>Protein and Cell</i> , 2017 , 8, 788-790	7.2	13
25	CD146 coordinates brain endothelial cell-pericyte communication for blood-brain barrier development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7622-E7631	11.5	95
24	CD146 is required for VEGF-C-induced lymphatic sprouting during lymphangiogenesis. <i>Scientific Reports</i> , 2017 , 7, 7442	4.9	15

23	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetic for Biomedical Applications. <i>Theranostics</i> , 2017 , 7, 3207-3227	12.1	309
22	Optimization of FeO nanozyme activity via single amino acid modification mimicking an enzyme active site. <i>Chemical Communications</i> , 2016 , 53, 424-427	5.8	225
21	Bioengineered Magnetoferritin Nanoprobes for Single-Dose Nuclear-Magnetic Resonance Tumor Imaging. <i>ACS Nano</i> , 2016 , 10, 4184-91	16.7	64
20	A magnetic protein biocompass. <i>Nature Materials</i> , 2016 , 15, 217-26	27	179
19	Reduced CD146 expression promotes tumorigenesis and cancer stemness in colorectal cancer through activating Wnt/ β -catenin signaling. <i>Oncotarget</i> , 2016 , 7, 40704-40718	3.3	27
18	Nanozymes: an emerging field bridging nanotechnology and biology. <i>Science China Life Sciences</i> , 2016 , 59, 400-2	8.5	158
17	CD146 acts as a novel receptor for netrin-1 in promoting angiogenesis and vascular development. <i>Cell Research</i> , 2015 , 25, 275-87	24.7	80
16	Nanozyme-strip for rapid local diagnosis of Ebola. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 134-41	11.8	237
15	Interferon- β safeguards blood-brain barrier during experimental autoimmune encephalomyelitis. <i>American Journal of Pathology</i> , 2014 , 184, 3308-20	5.8	25
14	H-ferritin-nanocaged 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, 14900-5	11.5	292
13	Quantitative proteomics reveals ER α -involvement in CD146-induced epithelial-mesenchymal transition in breast cancer cells. <i>Journal of Proteomics</i> , 2014 , 103, 153-69	3.9	21
12	Targeting endothelial CD146 attenuates colitis and prevents colitis-associated carcinogenesis. <i>American Journal of Pathology</i> , 2014 , 184, 1604-16	5.8	23
11	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, 308-12	7.8	291
10	Human ferritin for tumor detection and therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013 , 5, 287-98	9.2	47
9	Wnt5a uses CD146 as a receptor to regulate cell motility and convergent extension. <i>Nature Communications</i> , 2013 , 4, 2803	17.4	52
8	Ex vivo detection of iron oxide magnetic nanoparticles in mice using their intrinsic peroxidase-mimicking activity. <i>Molecular Pharmaceutics</i> , 2012 , 9, 1983-9	5.6	46
7	Magnetoferritin nanoparticles for targeting and visualizing tumour tissues. <i>Nature Nanotechnology</i> , 2012 , 7, 459-64	28.7	502
6	Influenza virus detection with pentabody-activated nanoparticles. <i>Journal of Virological Methods</i> , 2010 , 169, 282-9	2.6	26

- 5 Decomposing phenol by the hidden talent of ferromagnetic nanoparticles. *Chemosphere*, **2008**, 73, 15248-15254 182
- 4 Intrinsic peroxidase-like activity of ferromagnetic nanoparticles. *Nature Nanotechnology*, **2007**, 2, 577-83 3616
- 3 A Human Neutralizing Antibody against a Conformational Epitope Shared by Oligomeric Sars S1 Protein. *Antiviral Therapy*, **2006**, 11, 117-123 1.6 4
- 2 A novel anti-CD146 monoclonal antibody, AA98, inhibits angiogenesis and tumor growth. *Blood*, **2003**, 102, 184-91 2.2 161
- 1 Expression and function of a new angiogenic factor AA98 target molecule at the maternal-embryonic boundary of rhesus monkey. *Science Bulletin*, **2003**, 48, 881-886 10.6