

Nanozyme: new horizons for responsive biomedical app

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Development of Nanozymes for Food Quality and Safety Detection: Principles and Recent Applications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019, 18, 1496-1513.	5.9	120
2	Fe ^{II} /C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019, 91, 11994-11999.	3.2	256
3	Gold nanoparticle etching induced by an enzymatic-like reaction for the colorimetric detection of hydrogen peroxide and glucose. <i>Analytical Methods</i> , 2019, 11, 4829-4834.	1.3	12
4	Nanozymes-Engineered Metal-Organic Frameworks for Catalytic Cascades-Enhanced Synergistic Cancer Therapy. <i>Nano Letters</i> , 2019, 19, 5674-5682.	4.5	259
5	Theranostic Nanoplatform with Hydrogen Sulfide Activatable NIR Responsiveness for Imaging-Guided On-Demand Drug Release. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16826-16830.	7.2	119
6	A Multifunctional Cascade Bioreactor Based on Hollow-Structured Cu ₂ MoS ₄ for Synergetic Cancer Chemo-Dynamic Therapy/Starvation Therapy/Phototherapy/Immunotherapy with Remarkably Enhanced Efficacy. <i>Advanced Materials</i> , 2019, 31, e1905271.	11.1	381
7	N-Doped Carbon As Peroxidase-Like Nanozymes for Total Antioxidant Capacity Assay. <i>Analytical Chemistry</i> , 2019, 91, 15267-15274.	3.2	126
8	Catalytically Selective Chemotherapy from Tumor-Metabolic Generated Lactic Acid. <i>Small</i> , 2019, 15, e1903746.	5.2	59
9	Theranostic Nanoplatform with Hydrogen Sulfide Activatable NIR Responsiveness for Imaging-Guided On-Demand Drug Release. <i>Angewandte Chemie</i> , 2019, 131, 16982-16986.	1.6	18
10	Simulated enzyme inhibition-based strategy for ultrasensitive colorimetric biothiol detection based on nanoperoxidases. <i>Chemical Communications</i> , 2019, 55, 11543-11546.	2.2	4
12	Photo-modulated nanozymes for biosensing and biomedical applications. <i>Analytical Methods</i> , 2019, 11, 5081-5088.	1.3	33
13	Fe ^{II} /N/C single-atom catalysts exhibiting multienzyme activity and ROS scavenging ability in cells. <i>Chemical Communications</i> , 2019, 55, 14534-14537.	2.2	69
14	Cucurbit[8]uril-based supramolecular nanocapsules with a multienzyme-cascade antioxidative effect. <i>Chemical Communications</i> , 2019, 55, 13820-13823.	2.2	15
15	A dual factor activated metal-organic framework hybrid nanoplatform for photoacoustic imaging and synergetic photo-chemotherapy. <i>Nanoscale</i> , 2019, 11, 20630-20637.	2.8	39
16	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS ₂ . <i>Nano-Micro Letters</i> , 2019, 11, 102.	14.4	114
17	Progress and Trend on the Regulation Methods for Nanozyme Activity and Its Application. <i>Catalysts</i> , 2019, 9, 1057.	1.6	28
18	Therapeutic applications of multifunctional nanozymes. <i>Nanoscale</i> , 2019, 11, 21046-21060.	2.8	89
19	Molecular imprinting on PtPd nanoflowers for selective recognition and determination of hydrogen peroxide and glucose. <i>RSC Advances</i> , 2019, 9, 33678-33683.	1.7	11

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20	Nanozymes and aptamer-based biosensing. <i>Materials Science for Energy Technologies</i> , 2020, 3, 127-135.	1.0	21
21	Enhanced peroxidase-like activity of hierarchical MoS ₂ -decorated N-doped carbon nanotubes with synergetic effect for colorimetric detection of H ₂ O ₂ and ascorbic acid. <i>Chinese Chemical Letters</i> , 2020, 31, 1109-1113.	4.8	87
22	A Cu ₂ O-CDs-Cu three component catalyst for boosting oxidase-like activity with hot electrons. <i>Chemical Engineering Journal</i> , 2020, 382, 122484.	6.6	41
23	A CeO ₂ @MnO ₂ core-shell hollow heterojunction as glucose oxidase-like photoenzyme for photoelectrochemical sensing of glucose. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127389.	4.0	49
24	In Situ Polymerized Hollow Mesoporous Organosilica Biocatalysis Nanoreactor for Enhancing ROS-Mediated Anticancer Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 1907716.	7.8	136
25	Degradation of phenol using a peroxidase mimetic catalyst through conjugating deuterohemin-peptide onto metal-organic framework with enhanced catalytic activity. <i>Catalysis Communications</i> , 2020, 134, 105859.	1.6	11
26	Regulating the pro- and anti-oxidant capabilities of bimetallic nanozymes for the detection of Fe ²⁺ and protection of <i>Monascus</i> pigments. <i>Nanoscale</i> , 2020, 12, 3068-3075.	2.8	44
27	Plasmon-activated nanozymes with enhanced catalytic activity by near-infrared light irradiation. <i>Chemical Communications</i> , 2020, 56, 1784-1787.	2.2	22
28	A serological point-of-care test for Zika virus detection and infection surveillance using an enzyme-free vial immunosensor with a smartphone. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111960.	5.3	31
29	Progress toward Safe Tumor Diagnosis and Therapy via Degradable Inorganic Nanomaterials Constructed with Metabolically Safe Elements. <i>ACS Applied Nano Materials</i> , 2020, 3, 1028-1042.	2.4	5
30	GSH-triggered sequential catalysis for tumor imaging and eradication based on star-like Au/Pt enzyme carrier system. <i>Nano Research</i> , 2020, 13, 160-172.	5.8	31
31	State-of-the-art iron-based nanozymes for biocatalytic tumor therapy. <i>Nanoscale Horizons</i> , 2020, 5, 202-217.	4.1	78
32	Using a visible light-triggered pH switch to activate nanozymes for antibacterial treatment. <i>RSC Advances</i> , 2020, 10, 909-913.	1.7	22
33	Ferritins as natural and artificial nanozymes for theranostics. <i>Theranostics</i> , 2020, 10, 687-706.	4.6	80
34	Metal and Metal Oxide Nanoparticles to Enhance the Performance of Enzyme-Linked Immunosorbent Assay (ELISA). <i>ACS Applied Nano Materials</i> , 2020, 3, 1-21.	2.4	135
35	Review Nanozyme-Based Immunosensors and Immunoassays: Recent Developments and Future Trends. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037508.	1.3	67
36	Precise engineering of ultra-thin Fe ₂ O ₃ decorated Pt-based nanozymes via atomic layer deposition to switch off undesired activity for enhanced sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127436.	4.0	22
37	A dual-modal colorimetric and photothermal assay for glutathione based on MnO ₂ nanosheets synthesized with eco-friendly materials. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8443-8450.	1.9	8

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38	Nanozymes based on metal-organic frameworks: Construction and prospects. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116080.	5.8	76
39	Biomimetic two-dimensional nanozymes: synthesis, hybridization, functional tailoring, and biosensor applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10065-10086.	2.9	69
40	Photopolymerization-Based Synthesis of Uniform Magnetic Hydrogels and Colorimetric Glucose Detection. <i>Materials</i> , 2020, 13, 4401.	1.3	7
41	Supramolecular Nanozyme-Based Cancer Catalytic Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 7344-7351.	2.3	26
42	Nanozymes and Glucuronides: Glucuronidase, Esterase, and/or Transferase Activity. <i>Small</i> , 2020, 16, e2004280.	5.2	11
43	Liposome-Boosted Peroxidase-Mimicking Nanozymes Breaking the pH Limit. <i>Chemistry - A European Journal</i> , 2020, 26, 16659-16665.	1.7	28
44	An Organelle-Specific Nanozyme for Diabetes Care in Genetically or Diet-Induced Models. <i>Advanced Materials</i> , 2020, 32, e2003708.	11.1	58
45	Cascade Reactions Catalyzed by Planar Metal-Organic Framework Hybrid Architecture for Combined Cancer Therapy. <i>Small</i> , 2020, 16, e2004016.	5.2	64
46	Copper Pyrovanadate Nanoribbons as Efficient Multienzyme Mimicking Nanozyme for Biosensing Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 7917-7929.	2.4	43
47	Dual detoxification and inflammatory regulation by ceria nanozymes for drug-induced liver injury therapy. <i>Nano Today</i> , 2020, 35, 100925.	6.2	87
48	Integrated cascade nanozyme catalyzes in vivo ROS scavenging for anti-inflammatory therapy. <i>Science Advances</i> , 2020, 6, eabb2695.	4.7	271
49	The prototypes of nanozyme-based nanorobots. <i>Biophysics Reports</i> , 2020, 6, 223-244.	0.2	6
50	Electrochemical detection of methyl-paraoxon based on bifunctional cerium oxide nanozyme with catalytic activity and signal amplification effect. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 653-660.	2.4	33
51	Osmium nanozyme as peroxidase mimic with high performance and negligible interference of O_2 . <i>Journal of Materials Chemistry A</i> , 2020, 8, 25226-25234.	5.2	44
52	Copper Nanocluster (Cu_{23} NC)-Based Biomimetic System with Peroxidase Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18335-18344.	3.2	46
53	Construct of Carbon Nanotube-Supported Fe_2O_3 Hybrid Nanozyme by Atomic Layer Deposition for Highly Efficient Dopamine Sensing. <i>Frontiers in Chemistry</i> , 2020, 8, 564968.	1.8	13
54	Nanoenzymes in disease diagnosis and therapy. <i>Chemical Communications</i> , 2020, 56, 15513-15524.	2.2	75
55	The mechanisms of HSA@PDA/Fe nanocomposites with enhanced nanozyme activity and their application in intracellular H_2O_2 detection. <i>Nanoscale</i> , 2020, 12, 24206-24213.	2.8	15

#	ARTICLE	IF	CITATIONS
56	Bioactive ROS-scavenging nanozymes for regenerative medicine: Reestablishing the antioxidant firewall. <i>Nano Select</i> , 2020, 1, 285-297.	1.9	25
57	Nanomedicines for Renal Management: From Imaging to Treatment. <i>Accounts of Chemical Research</i> , 2020, 53, 1869-1880.	7.6	57
58	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. <i>Chemical Science</i> , 2020, 11, 9741-9756.	3.7	157
59	<i>In situ</i> growth of nano-gold on anodized aluminum oxide with tandem nanozyme activities towards sensitive electrochemical nanochannel sensing. <i>Analyst</i> , 2020, 145, 6617-6624.	1.7	18
60	Fabrication and Application of Magnetically Catalytic Imprinting Nanozymes. <i>ChemistrySelect</i> , 2020, 5, 8284-8288.	0.7	5
61	Perovskite mesoporous LaFeO ₃ with peroxidase-like activity for colorimetric detection of gallic acid. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128642.	4.0	40
62	Nanozyme-assisted sensitive profiling of exosomal proteins for rapid cancer diagnosis. <i>Theranostics</i> , 2020, 10, 9303-9314.	4.6	44
63	V ₂ O ₅ -montmorillonite nanocomposites of peroxidase-like activity and their application in the detection of H ₂ O ₂ and glutathione. <i>Applied Clay Science</i> , 2020, 195, 105718.	2.6	25
64	A Biocompatible Second Near-Infrared Nanozyme for Spatiotemporal and Non-Invasive Attenuation of Amyloid Deposition through Scalp and Skull. <i>ACS Nano</i> , 2020, 14, 9894-9903.	7.3	78
65	Oxidase-like MOF-818 Nanozyme with High Specificity for Catalysis of Catechol Oxidation. <i>Journal of the American Chemical Society</i> , 2020, 142, 15569-15574.	6.6	263
66	Metal-organic frameworks-based nanozymes for combined cancer therapy. <i>Nano Today</i> , 2020, 35, 100920.	6.2	96
67	A Hybrid of FeS ₂ Nanoparticles Encapsulated by Two-Dimensional Carbon Sheets as Excellent Nanozymes for Colorimetric Glucose Detection. <i>ACS Applied Bio Materials</i> , 2020, 3, 5905-5912.	2.3	31
68	A pH-Responsive Polymer-CeO ₂ Hybrid to Catalytically Generate Oxidative Stress for Tumor Therapy. <i>Small</i> , 2020, 16, e2004654.	5.2	39
69	The Role of Nanomaterials in Modulating the Structure and Function of Biomimetic Catalysts. <i>Frontiers in Chemistry</i> , 2020, 8, 764.	1.8	7
70	Enhancing the peroxidase-like activity and stability of gold nanoparticles by coating a partial iron phosphate shell. <i>Nanoscale</i> , 2020, 12, 22467-22472.	2.8	22
71	Platinum nanozyme-encapsulated poly(amidoamine) dendrimer for voltammetric immunoassay of pro-gastrin-releasing peptide. <i>Analytica Chimica Acta</i> , 2020, 1134, 106-114.	2.6	22
72	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. <i>Advanced Materials</i> , 2020, 32, e2005423.	11.1	207
73	Nanoplatfom-based cascade engineering for cancer therapy. <i>Chemical Society Reviews</i> , 2020, 49, 9057-9094.	18.7	109

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74	Metal-Organic Framework-Engineered Enzyme-Mimetic Catalysts. <i>Advanced Materials</i> , 2020, 32, e20030651.1	11.1	183
75	Engineering of chiral nanomaterials for biomimetic catalysis. <i>Chemical Science</i> , 2020, 11, 12937-12954.	3.7	45
76	Plasmonic Nanozymes: Engineered Gold Nanoparticles Exhibit Tunable Plasmon-Enhanced Peroxidase-Mimicking Activity. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9321-9328.	2.1	32
77	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 13518-13524.	3.2	112
78	Density Functional Theory-Based Method to Predict the Activities of Nanomaterials as Peroxidase Mimics. <i>ACS Catalysis</i> , 2020, 10, 12657-12665.	5.5	92
79	Enhancement of Nanozyme Permeation by Endovascular Interventional Treatment to Prevent Vascular Restenosis via Macrophage Polarization Modulation. <i>Advanced Functional Materials</i> , 2020, 30, 2006581.	7.8	26
80	Boron-doped Fe-N-C single-atom nanozymes specifically boost peroxidase-like activity. <i>Nano Today</i> , 2020, 35, 100971.	6.2	199
81	Facile Preparation of Homogeneous Copper Nanoclusters Exhibiting Excellent Tetraenzyme Mimetic Activities for Colorimetric Glutathione Sensing and Fluorimetric Ascorbic Acid Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42521-42530.	4.0	119
82	Colorimetric biosensing of glucose in human serum based on the intrinsic oxidase activity of hollow MnO ₂ nanoparticles. <i>New Journal of Chemistry</i> , 2020, 44, 15066-15070.	1.4	8
83	Platinum nanoparticle-deposited multi-walled carbon nanotubes as a NADH oxidase mimic: characterization and applications. <i>Nanoscale</i> , 2020, 12, 19284-19292.	2.8	29
84	Smart Microenvironment-Responsive Organocopper(II) Supramolecular Polymers to Regulate the Stability and Anticancer Efficacy by Different Substituents. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40013-40020.	4.0	8
85	Intrinsic Peroxidase-Mimicking Ir Nanoplates for Nanozymatic Anticancer and Antibacterial Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41062-41070.	4.0	41
86	Protein-mediated wool-ball-like copper sulfide as a multifunctional nanozyme for dual fluorescence α -turn-on sensors of cysteine and silver ions. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9075-9083.	2.9	12
87	Navigating nMOF-mediated enzymatic reactions for catalytic tumor-specific therapy. <i>Materials Horizons</i> , 2020, 7, 3176-3186.	6.4	27
88	Progress of Iron-Based Nanozymes for Antitumor Therapy. <i>Frontiers in Chemistry</i> , 2020, 8, 680.	1.8	15
89	GSH-Depleted Nanozymes with Hyperthermia-Enhanced Dual Enzyme-Mimic Activities for Tumor Nanocatalytic Therapy. <i>Advanced Materials</i> , 2020, 32, e2002439.	11.1	354
90	The DNA controllable peroxidase mimetic activity of MoS ₂ nanosheets for constructing a robust colorimetric biosensor. <i>Nanoscale</i> , 2020, 12, 19420-19428.	2.8	52
91	Synthesis, Catalytic Properties and Application in Biosensorics of Nanozymes and Electronanocatalysts: A Review. <i>Sensors</i> , 2020, 20, 4509.	2.1	61

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92	Ceria Nanozymes with Preferential Renal Uptake for Acute Kidney Injury Alleviation. ACS Applied Materials & Interfaces, 2020, 12, 56830-56838.	4.0	71
93	Targeting Microglia for Therapy of Parkinson's Disease by Using Biomimetic Ultrasmall Nanoparticles. Journal of the American Chemical Society, 2020, 142, 21730-21742.	6.6	97
94	Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid- β^2 in an Alzheimer's Disease Model. Journal of the American Chemical Society, 2020, 142, 21702-21711.	6.6	96
95	Amphiphilic protein controlled synthesis of rice-shaped copper oxide and its substrate dependent enzyme-mimicking activity. Journal of Dispersion Science and Technology, 2020, , 1-12.	1.3	1
96	Two-Dimensional Nanomaterials With Enzyme-Like Properties for Biomedical Applications. Frontiers in Chemistry, 2020, 8, 565940.	1.8	33
97	Colorimetric assay for the sensitive detection of phosphate in water based on metal-organic framework nanospheres possessing catalytic activity. New Journal of Chemistry, 2020, 44, 19683-19689.	1.4	11
98	A photothermally-induced HClO-releasing nanoplatform for imaging-guided tumor ablation and bacterial prevention. Biomaterials Science, 2020, 8, 7145-7153.	2.6	11
99	A colorimetric sensing platform based on self-assembled 3D porous CeGONR nanozymes for label-free visual detection of organophosphate pesticides. Materials Advances, 2020, 1, 2789-2796.	2.6	11
100	Nanozyme Sensor Arrays Based on Heteroatom-Doped Graphene for Detecting Pesticides. Analytical Chemistry, 2020, 92, 7444-7452.	3.2	165
101	Phosphate-responsive 2D-metal-organic-framework-nanozymes for colorimetric detection of alkaline phosphatase. Journal of Materials Chemistry B, 2020, 8, 6905-6911.	2.9	60
102	Hybrid Biodegradable Nanomotors through Compartmentalized Synthesis. Nano Letters, 2020, 20, 4472-4480.	4.5	56
103	Enzyme Mimics for the Catalytic Generation of Nitric Oxide from Endogenous Prodrugs. Small, 2020, 16, e1907635.	5.2	34
104	Protein-Based Artificial Nanosystems in Cancer Therapy. Small, 2020, 16, 1907256.	5.2	42
105	Bimetallic CuCo ₂ S ₄ Nanozymes with Enhanced Peroxidase Activity at Neutral pH for Combating Burn Infections. ChemBioChem, 2020, 21, 2620-2627.	1.3	35
106	Using G-Rich Sequence to Enhance the Peroxidase-Mimicking Activity of DNA-Cu/Ag Nanoclusters for Rapid Colorimetric Detection of Hydrogen Peroxide and Glucose. ChemistrySelect, 2020, 5, 5166-5171.	0.7	20
107	Nanozyme-based electrochemical biosensors for disease biomarker detection. Analyst, The, 2020, 145, 4398-4420.	1.7	121
108	ATP induced alteration in the peroxidase-like properties of hollow Prussian blue nanocubes: a platform for alkaline phosphatase detection. Analyst, The, 2020, 145, 5032-5040.	1.7	7
109	Au ₂ Pt-PEG-Ce6 nanoformulation with dual nanozyme activities for synergistic chemodynamic therapy / phototherapy. Biomaterials, 2020, 252, 120093.	5.7	210

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110	Oxygen Pathology and Oxygen-Functional Materials for Therapeutics. <i>Matter</i> , 2020, 2, 1115-1147.	5.0	8
111	Boosting photocatalytic activity through in-situ phase transformation of bismuth-based compounds on carbon dots and quantification analysis of intrinsically reactive species in photocatalysis. <i>Carbon</i> , 2020, 165, 175-184.	5.4	20
112	Densely Isolated FeN ₄ Sites for Peroxidase Mimicking. <i>ACS Catalysis</i> , 2020, 10, 6422-6429.	5.5	216
113	Hydrolytic Nanozymes. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5044-5055.	1.2	36
114	Single-atom nanozymes: A rising star for biosensing and biomedicine. <i>Coordination Chemistry Reviews</i> , 2020, 418, 213376.	9.5	134
115	Organic/inorganic nanocomposites for cancer immunotherapy. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2571-2609.	3.2	38
116	The FeN ₄ Nanozyme with Both Accelerated and Inhibited Biocatalytic Activities Capable of Accessing Drug-Drug Interactions. <i>Angewandte Chemie</i> , 2020, 132, 14606-14611.	1.6	14
117	A Nanomedicine Fabricated from Gold Nanoparticles-Decorated Metal-Organic Framework for Cascade Chemo/Chemodynamic Cancer Therapy. <i>Advanced Science</i> , 2020, 7, 2001060.	5.6	150
118	Diketopyrrolopyrrole: An emerging phototherapy agent in fighting cancer. <i>Dyes and Pigments</i> , 2020, 181, 108599.	2.0	30
119	Chemical state tuning of surface Ce species on pristine CeO ₂ with 2400% boosting in peroxidase-like activity for glucose detection. <i>Chemical Communications</i> , 2020, 56, 7897-7900.	2.2	15
120	Enzyme Mimetic Activity of ZnO-Pd Nanosheets Synthesized via a Green Route. <i>Molecules</i> , 2020, 25, 2585.	1.7	19
121	Temperature/pH Smart Nanofibers with Excellent Biocompatibility and Their Dual Interactions Stimulus-Responsive Mechanism. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7425-7433.	2.4	13
122	The FeN ₄ Nanozyme with Both Accelerated and Inhibited Biocatalytic Activities Capable of Accessing Drug-Drug Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14498-14503.	7.2	87
123	Epitaxially Strained CeO ₂ /Mn ₃ O ₄ Nanocrystals as an Enhanced Antioxidant for Radioprotection. <i>Advanced Materials</i> , 2020, 32, e2001566.	11.1	79
124	Nanozyme and aptamer-based immunosorbent assay for aflatoxin B1. <i>Journal of Hazardous Materials</i> , 2020, 399, 123154.	6.5	76
125	Applications of nanozymes in the environment. <i>Environmental Science: Nano</i> , 2020, 7, 1305-1318.	2.2	87
126	A convenient detection system consisting of efficient Au@PtRu nanozymes and alcohol oxidase for highly sensitive alcohol biosensing. <i>Nanoscale Advances</i> , 2020, 2, 1583-1589.	2.2	20
127	Gold-Based Nanoparticles on Amino-Functionalized Mesoporous Silica Supports as Nanozymes for Glucose Oxidation. <i>Catalysts</i> , 2020, 10, 333.	1.6	31

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128	Nonrecurring Circuit Nanozymatic Enhancement of Hypoxic Pancreatic Cancer Phototherapy Using Speckled Ru ^{II} -Te Hollow Nanorods. ACS Nano, 2020, 14, 4383-4394.	7.3	48
129	Chiral Carbon Dots Mimicking Topoisomerase...I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie, 2020, 132, 11180-11185.	1.6	25
130	Chiral Carbon Dots Mimicking Topoisomerase...I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie - International Edition, 2020, 59, 11087-11092.	7.2	100
131	Single-atom iron containing nanozyme with peroxidase-like activity and copper nanoclusters based ratio fluorescent strategy for acetylcholinesterase activity sensing. Sensors and Actuators B: Chemical, 2020, 313, 128023.	4.0	75
132	Synthesis of Mn ₃ O ₄ nanozymes from structurally characterized phenoxazinone synthase models based on manganese(III) Schiff base complexes. Dalton Transactions, 2020, 49, 5999-6011.	1.6	17
133	In situ generated nanozyme-initiated cascade reaction for amplified surface plasmon resonance sensing. Chemical Communications, 2020, 56, 4571-4574.	2.2	12
134	Target-Driven Nanozyme Growth in TiO ₂ Nanochannels for Improving Selectivity in Electrochemical Biosensing. Analytical Chemistry, 2020, 92, 10033-10041.	3.2	49
135	Cancer cell membrane-coated gold nanorods for photothermal therapy and radiotherapy on oral squamous cancer. Journal of Materials Chemistry B, 2020, 8, 7253-7263.	2.9	67
136	Assembling patchy plasmonic nanoparticles with aggregation-dependent antibacterial activity. Journal of Colloid and Interface Science, 2020, 580, 419-428.	5.0	24
137	Biofunctional nanostructured systems for regenerative medicine. Nanomedicine, 2020, 15, 1545-1549.	1.7	3
138	Catalytic performance of ceria fibers with phosphatase-like activity and their application as protein carriers. Advanced Powder Technology, 2020, 31, 2880-2889.	2.0	9
139	Using bimetallic Au@Pt nanozymes as a visual tag and as an enzyme mimic in enhanced sensitive lateral-flow immunoassays: Application for the detection of streptomycin. Analytica Chimica Acta, 2020, 1126, 106-113.	2.6	78
140	Ir nanoparticles with multi-enzyme activities and its application in the selective oxidation of aromatic alcohols. Applied Catalysis B: Environmental, 2020, 267, 118725.	10.8	41
141	Smart Tumor Microenvironment-Responsive Nanotheranostic Agent for Effective Cancer Therapy. Advanced Functional Materials, 2020, 30, 2000486.	7.8	39
142	Nanozyme-Augmented Tumor Catalytic Therapy by Self-Supplied H ₂ O ₂ Generation. ACS Applied Bio Materials, 2020, 3, 1769-1778.	2.3	18
143	Detection mechanism and classification of design principles of peroxidase mimic based colorimetric sensors: A brief overview. Chinese Journal of Chemical Engineering, 2020, 28, 1492-1503.	1.7	25
144	A hybrid silicotungstate based on tri-coordination copper complex and Keggin type cluster with reactive oxygen species catalytic ability. Journal of Molecular Structure, 2020, 1206, 127714.	1.8	13
145	Transdermal colorimetric patch for hyperglycemia sensing in diabetic mice. Biomaterials, 2020, 237, 119782.	5.7	66

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146	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 3373-3379.	3.2	185
147	Efficient Visual Chemosensor for Hexavalent Chromium via a Controlled Strategy for Signal Amplification in Water. <i>Analytical Chemistry</i> , 2020, 92, 3426-3433.	3.2	37
148	<p>Recent Developments in the Facile Bio-Synthesis of Gold Nanoparticles (AuNPs) and Their Biomedical Applications</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 275-300.	3.3	256
149	Single-Atom Catalysts in Catalytic Biomedicine. <i>Advanced Materials</i> , 2020, 32, e1905994.	11.1	260
150	Iridium/ruthenium nanozyme reactors with cascade catalytic ability for synergistic oxidation therapy and starvation therapy in the treatment of breast cancer. <i>Biomaterials</i> , 2020, 238, 119848.	5.7	89
151	Ultrasmall Rhodium Nanozyme with RONS Scavenging and Photothermal Activities for Anti-Inflammation and Antitumor Theranostics of Colon Diseases. <i>Nano Letters</i> , 2020, 20, 3079-3089.	4.5	121
152	In situ formation and immobilization of gold nanoparticles on polydimethylsiloxane (PDMS) exhibiting catalase-mimetic activity. <i>Chemical Communications</i> , 2020, 56, 6416-6419.	2.2	10
153	Enzyme Mimic Nanomaterials and Their Biomedical Applications. <i>ChemBioChem</i> , 2020, 21, 2408-2418.	1.3	29
154	Iron oxide magnetic nanoparticles exhibiting zymolyase-like lytic activity. <i>Chemical Engineering Journal</i> , 2020, 394, 125000.	6.6	13
155	Highly bioactive zeolitic imidazolate framework-8-â€“capped nanotherapeutics for efficient reversal of reperfusion-induced injury in ischemic stroke. <i>Science Advances</i> , 2020, 6, eaay9751.	4.7	201
156	Enzyme-Like Properties of Gold Clusters for Biomedical Application. <i>Frontiers in Chemistry</i> , 2020, 8, 219.	1.8	40
157	Light-responsive nanozymes for biosensing. <i>Analyst</i> , The, 2020, 145, 4388-4397.	1.7	61
158	Point-of-care assay for drunken driving with Pd@Pt core-shell nanoparticles-decorated ploy(vinyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	4.6	24
159	Carbon dots-stabilized Cu ₄ O ₃ for a multi-responsive nanozyme with exceptionally high activity. <i>Chemical Engineering Journal</i> , 2020, 394, 125045.	6.6	43
160	Advances in organometallic/organic nanozymes and their applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213652.	9.5	57
161	Stimuli-Responsive Plasmonic Assemblies and Their Biomedical Applications. <i>Nano Today</i> , 2021, 36, 101014.	6.2	45
162	An organica€“inorganic hybrid nanoscale phosphotungstate with reactive oxygen species catalytic ability. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 332-339.	0.9	5
163	Biomineralization-inspired copper-cystine nanoleaves capable of laccase-like catalysis for the colorimetric detection of epinephrine. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 310-318.	2.3	37

#	ARTICLE	IF	CITATIONS
164	Cucurbiturilsâ€Mediated Noble Metal Nanoparticles for Applications in Sensing, SERS, Theranostics, and Catalysis. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	79
165	A highly sensitive electrochemiluminescence immunosensor for h-FABP determination based on self-enhanced luminophore coupled with ultrathin 2D nickel metal-organic framework nanosheets. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112735.	5.3	43
166	Ultras-small platinum nanozymes as broad-spectrum antioxidants for theranostic application in acute kidney injury. <i>Chemical Engineering Journal</i> , 2021, 409, 127371.	6.6	34
167	Antioxidant and anti-inflammatory activities of Prussian blue nanozyme promotes full-thickness skin wound healing. <i>Materials Science and Engineering C</i> , 2021, 119, 111596.	3.8	63
168	Breaking the pH limitation of peroxidase-like CoFe ₂ O ₄ nanozyme via vitrification for one-step glucose detection at physiological pH. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129033.	4.0	38
169	Recent advances in visual detection for cancer biomarkers and infectious pathogens. <i>Journal of Materials Chemistry B</i> , 2021, 9, 35-52.	2.9	9
170	In-situ and real-time probing cellulase biosensor formation and its interaction with lignosulfonate in varied media. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129114.	4.0	9
171	Recent Advances in Hyperthermia Therapyâ€Based Synergistic Immunotherapy. <i>Advanced Materials</i> , 2021, 33, e2004788.	11.1	233
172	A Nanozymeâ€Based Artificial Peroxisome Ameliorates Hyperuricemia and Ischemic Stroke. <i>Advanced Functional Materials</i> , 2021, 31, 2007130.	7.8	116
173	Assessment of pulmonary toxicity of potential antioxidant drug PEGylated nanocerium after intratracheal instillation in rats. <i>Journal of Applied Toxicology</i> , 2021, 41, 941-952.	1.4	4
174	Cobalt ferrite nanozyme for efficient symbiotic nitrogen fixation via regulating reactive oxygen metabolism. <i>Environmental Science: Nano</i> , 2021, 8, 188-203.	2.2	18
175	Nanoscale metalâ€organic framework composites for phototherapy and synergistic therapy of cancer. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1632-1654.	3.2	30
176	Which is Better for Nanomedicines: Nanocatalysts or Singleâ€Atom Catalysts?. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001897.	3.9	13
177	Introducing visible-light sensitivity into photocatalytic CeO ₂ nanoparticles by hybrid particle preparation exploiting plasmonic properties of gold: enhanced photoelectrocatalysis exemplified for hydrogen peroxide sensing. <i>Nanoscale</i> , 2021, 13, 980-990.	2.8	13
178	Co-Cr mixed spinel oxide nanodots anchored on nitrogen-doped carbon nanotubes as catalytic electrode for hydrogen peroxide sensing. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 605-613.	5.0	24
179	Protein-based nanomaterials and nanosystems for biomedical applications: A review. <i>Materials Today</i> , 2021, 43, 166-184.	8.3	57
180	Nanozymes go oral: nanocatalytic medicine facilitates dental health. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1491-1502.	2.9	19
181	Bioinspired nanozyme for portable immunoassay of allergenic proteins based on A smartphone. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112776.	5.3	59

#	ARTICLE	IF	CITATIONS
182	Nanozyme's catching up: activity, specificity, reaction conditions and reaction types. <i>Materials Horizons</i> , 2021, 8, 336-350.	6.4	74
183	Engineering Biofunctional Enzyme-Mimics for Catalytic Therapeutics and Diagnostics. <i>Advanced Functional Materials</i> , 2021, 31, 2007475.	7.8	47
184	Introduction to Nanomedicines: Basic Concept and Applications. , 2021, , 1-23.		0
185	Aptamer Mediated Sensing of Environmental Pollutants Utilizing Peroxidase Mimic Activity of NanoZymes. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 111-143.	0.3	2
186	Chitosan Nanoparticle: Alternative for Sustainable Agriculture. <i>Materials Horizons</i> , 2021, , 95-132.	0.3	6
187	Enzyme-Nanoparticle Corona: A Novel Approach, Their Plausible Applications and Challenges. , 2021, , 175-199.		0
188	Sensitive colorimetric glucose sensor by iron-based nanozymes with controllable Fe valence. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4726-4734.	2.9	13
189	A flowerlike FePt/MnO ₂ /GOx-based cascade nanoreactor with sustainable O ₂ supply for synergistic starvation-chemodynamic anticancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8480-8490.	2.9	18
190	Magnetic nanoparticles in cancer therapy. , 2021, , 425-445.		1
191	Chapter 6. Properties and Reactivities of Metal Complexes Within Organic Nanocontainers. <i>Monographs in Supramolecular Chemistry</i> , 2021, , 167-205.	0.2	0
192	Nanozymes for Environmental Pollutant Monitoring and Remediation. <i>Sensors</i> , 2021, 21, 408.	2.1	44
193	Multienzyme nanoassemblies: from rational design to biomedical applications. <i>Biomaterials Science</i> , 2021, 9, 7323-7342.	2.6	7
194	Protein-stabilized Ir nanoparticles with usual charge-selective peroxidase properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8464-8471.	2.9	2
195	A metastasis suppressor Pt-dendrimer nanozyme for the alleviation of glioblastoma. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4015-4023.	2.9	12
196	Gas-propelled biosensors for quantitative analysis. <i>Analyst</i> , The, 2021, 146, 1115-1126.	1.7	10
197	Metal-Organic Framework-Based Nanostructures for Biomedical Applications. <i>Nanotechnology in the Life Sciences</i> , 2021, , 339-358.	0.4	0
198	Harnessing nanotechnology to expand the toolbox of chemical biology. <i>Nature Chemical Biology</i> , 2021, 17, 129-137.	3.9	24
199	Recent progress in the design of analytical methods based on nanozymes. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8174-8184.	2.9	27

#	ARTICLE	IF	CITATIONS
200	Prussian blue nanozyme-mediated nanoscavenger ameliorates acute pancreatitis via inhibiting TLRs/NF- κ B signaling pathway. <i>Theranostics</i> , 2021, 11, 3213-3228.	4.6	58
201	Enzyme/Nanocopper Hybrid Nanozymes: Modulating Enzyme-like Activity by the Protein Structure for Biosensing and Tumor Catalytic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5111-5124.	4.0	22
202	<i>In vitro</i> measurement of superoxide dismutase-like nanozyme activity: a comparative study. <i>Analyst</i> , The, 2021, 146, 1872-1879.	1.7	37
203	Self-cascade MoS ₂ nanozymes for efficient intracellular antioxidation and hepatic fibrosis therapy. <i>Nanoscale</i> , 2021, 13, 12613-12622.	2.8	31
204	Bound oxygen-atom transfer endows peroxidase-mimic Mn ^{II} with high substrate selectivity. <i>Chemical Science</i> , 2021, 12, 8865-8871.	3.7	39
205	Manganese-based advanced nanoparticles for biomedical applications: future opportunity and challenges. <i>Nanoscale</i> , 2021, 13, 16405-16426.	2.8	32
206	Biomedical Applications of Nanozymes: Disease Diagnosis and Therapy. , 2021, , 1-13.		0
207	Metal-doped carbon nitrides: synthesis, structure and applications. <i>New Journal of Chemistry</i> , 2021, 45, 11876-11892.	1.4	33
208	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
209	Lipases Immobilized onto Nanomaterials as Biocatalysts in Biodiesel Production: Scientific Context, Challenges, and Opportunities. <i>Revista Virtual De Quimica</i> , 2021, 13, 875-891.	0.1	29
210	Catalytically potent and selective clusterzymes for modulation of neuroinflammation through single-atom substitutions. <i>Nature Communications</i> , 2021, 12, 114.	5.8	123
211	Applications of DNA-nanozyme-based sensors. <i>Analyst</i> , The, 2021, 146, 1127-1141.	1.7	24
212	Peroxidase-Like Metal-Based Nanozymes: Synthesis, Catalytic Properties, and Analytical Application. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 777.	1.3	15
213	Fabrication of Bioresource-Derived Porous Carbon-Supported Iron as an Efficient Oxidase Mimic for Dual-Channel Biosensing. <i>Analytical Chemistry</i> , 2021, 93, 3130-3137.	3.2	54
214	Bio-inspired nanoenzyme for metabolic reprogramming and anti-inflammatory treatment of hyperuricemia and gout. <i>Science China Chemistry</i> , 2021, 64, 616-628.	4.2	15
215	A Phosphatase-Mimetic Nano-Stabilizer of Mast Cells for Long-Term Prevention of Allergic Disease. <i>Advanced Science</i> , 2021, 8, 2004115.	5.6	26
216	Catalytic Nanozyme for Radiation Protection. <i>Bioconjugate Chemistry</i> , 2021, 32, 411-429.	1.8	23
217	Catalytic Nanomaterials toward Atomic Levels for Biomedical Applications: From Metal Clusters to Single-Atom Catalysts. <i>ACS Nano</i> , 2021, 15, 2005-2037.	7.3	148

#	ARTICLE	IF	CITATIONS
218	Design of Cyclodextrin-Based Functional Systems for Biomedical Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 635507.	1.8	30
219	Ultrasensitive and Highly Specific Lateral Flow Assays for Point-of-Care Diagnosis. <i>ACS Nano</i> , 2021, 15, 3593-3611.	7.3	270
220	Pt Nanoparticles Confined by Zirconium Metal-Organic Frameworks with Enhanced Enzyme-like Activity for Glucose Detection. <i>ACS Omega</i> , 2021, 6, 4807-4815.	1.6	23
221	A Review on Recent Developments and Applications of Nanozymes in Food Safety and Quality Analysis. <i>Food Analytical Methods</i> , 2021, 14, 1537-1558.	1.3	19
222	Surface Modification of Co ₃ O ₄ Nanoplates as Efficient Peroxidase Nanozymes for Biosensing Application. <i>ACS Applied Bio Materials</i> , 2021, 4, 3443-3452.	2.3	19
223	Functionalized ultra-fine bimetallic PtRu alloy nanoparticle with high peroxidase-mimicking activity for rapid and sensitive colorimetric quantification of C-reactive protein. <i>Mikrochimica Acta</i> , 2021, 188, 119.	2.5	17
224	Molecular Dynamics Simulations of a Catalytic Multivalent Peptide-Nanoparticle Complex. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3624.	1.8	13
225	Atomic Engineering of Clusterzyme for Relieving Acute Neuroinflammation through Lattice Expansion. <i>Nano Letters</i> , 2021, 21, 2562-2571.	4.5	48
226	Redox-Active Micelle-Based Reaction Platforms for In Situ Preparation of Noble Metal Nanocomposites with Photothermal Conversion Capability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13648-13657.	4.0	9
227	Nanoplatfoms for Sepsis Management: Rapid Detection/Warning, Pathogen Elimination and Restoring Immune Homeostasis. <i>Nano-Micro Letters</i> , 2021, 13, 88.	14.4	10
228	Laccase-like catalytic activity of Cu-tannic acid nanohybrids and their application for epinephrine detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126105.	2.3	30
229	Poly(ionic liquid)/Ce-Based Antimicrobial Nanofibrous Membrane for Blocking Drug-Resistance Dissemination from MRSA-Infected Wounds. <i>Advanced Functional Materials</i> , 2021, 31, 2100336.	7.8	42
230	Nanozyme-based medicine for enzymatic therapy: progress and challenges. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 042002.	1.7	40
231	Nanozymes for regulation of reactive oxygen species and disease therapy. <i>Chinese Chemical Letters</i> , 2021, 32, 2715-2728.	4.8	70
232	Recent progress in carbon-dots-based nanozymes for chemosensing and biomedical applications. <i>Chinese Chemical Letters</i> , 2021, 32, 2994-3006.	4.8	46
233	Nanozyme-Activated Synergistic Amplification for Ultrasensitive Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2021, 93, 6881-6888.	3.2	69
234	Catalytic nanozymes for central nervous system disease. <i>Coordination Chemistry Reviews</i> , 2021, 432, 213751.	9.5	42
235	Nanozyme-involved biomimetic cascade catalysis for biomedical applications. <i>Materials Today</i> , 2021, 44, 211-228.	8.3	131

#	ARTICLE	IF	CITATIONS
236	Integrating biphase Fe^{3+} - and Fe^{2+} - Fe_2O_3 with carbon dots as a synergistic nanozyme with easy recycle and high catalytic activity. <i>Applied Surface Science</i> , 2021, 545, 148987.	3.1	10
237	Nanosensors for Visual Detection of Glucose in Biofluids: Are We Ready for Instrument-Free Home-Testing?. <i>Materials</i> , 2021, 14, 1978.	1.3	16
238	Microwave assisted polyol process for time-saving synthesis of superparamagnetic nanoparticles and application in artificial mimic enzyme. <i>Nano Express</i> , 2021, 2, 020001.	1.2	2
239	Polymeric Nanoreactors as Emerging Nanoplatfoms for Cancer Precise Nanomedicine. <i>Macromolecular Bioscience</i> , 2021, 21, 2000424.	2.1	7
240	Nanozymes and Their Application Progress in Biomedical Detection. <i>Chinese Journal of Analytical Chemistry</i> , 2021, 49, 581-592.	0.9	11
241	Multi-enzyme mimetic ultrasmall iridium nanozymes as reactive oxygen/nitrogen species scavengers for acute kidney injury management. <i>Biomaterials</i> , 2021, 271, 120706.	5.7	78
242	Ultrasmall Alloy Nanozyme for Ultrasound- and Near-Infrared Light-Promoted Tumor Ablation. <i>ACS Nano</i> , 2021, 15, 7774-7782.	7.3	111
243	Nucleobase, nucleoside, nucleotide, and oligonucleotide coordinated metal ions for sensing and biomedicine applications. <i>Nano Research</i> , 2022, 15, 71-84.	5.8	22
244	Advances in oxidase-mimicking nanozymes: Classification, activity regulation and biomedical applications. <i>Nano Today</i> , 2021, 37, 101076.	6.2	150
245	Iron oxide nanoparticles conjugated with organic optical probes for <i>in vivo</i> diagnostic and therapeutic applications. <i>Nanomedicine</i> , 2021, 16, 943-962.	1.7	19
246	Molecular Imprinting on Nanozymes for Sensing Applications. <i>Biosensors</i> , 2021, 11, 152.	2.3	16
247	Beyond Photo: Xdynamic Therapies in Fighting Cancer. <i>Advanced Materials</i> , 2021, 33, e2007488.	11.1	58
248	Layered double hydroxides as an efficient nanozyme for analytical applications. <i>Microchemical Journal</i> , 2021, 164, 105970.	2.3	13
249	Bionic design of cytochrome c oxidase-like single-atom nanozymes for oxygen reduction reaction in enzymatic biofuel cells. <i>Nano Energy</i> , 2021, 83, 105798.	8.2	34
250	Chemical design of nanozymes for biomedical applications. <i>Acta Biomaterialia</i> , 2021, 126, 15-30.	4.1	80
251	Nanozyme Impregnated Mesenchymal Stem Cells for Hepatic Ischemia-Reperfusion Injury Alleviation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25649-25662.	4.0	33
252	Nanozymes: A Promising Horizon for Medical and Environmental Applications. <i>Journal of Cluster Science</i> , 2022, 33, 1275-1297.	1.7	12
253	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021, 4, 407-417.	16.1	517

#	ARTICLE	IF	CITATIONS
254	Enzyme-mimic activity study of superstable and ultrasmall graphene encapsuled CoRu nanocrystal. APL Materials, 2021, 9, .	2.2	6
255	Applications of single-atom catalysts. Nano Research, 2022, 15, 38-70.	5.8	115
256	Ceria Nanozyme and Phosphate Prodrugs: Drug Synthesis through Enzyme Mimicry. ACS Applied Materials & Interfaces, 2021, 13, 25685-25693.	4.0	26
257	2D Co ₃ O ₄ stabilizing Rh nano composites developed for visual sensing bioactive urea and toxic p-aminophenol in practice by synergetic-reinforcing oxidase activity. Journal of Hazardous Materials, 2021, 409, 125019.	6.5	43
258	Platinum-Copper Bimetallic Colloid Nanoparticle Cluster Nanozymes with Multiple Enzyme-like Activities for Scavenging Reactive Oxygen Species. Langmuir, 2021, 37, 7364-7372.	1.6	37
259	Will the Bacteria Survive in the CeO ₂ Nanozyme-H ₂ O ₂ System?. Molecules, 2021, 26, 3747.	1.7	13
260	Construction of Peroxidase-like Metal-Organic Frameworks in TiO ₂ Nanochannels: Robust Free-Standing Membranes for Diverse Target Sensing. Analytical Chemistry, 2021, 93, 9486-9494.	3.2	32
261	Self-Assembled Peptide Nano-Superstructure towards Enzyme Mimicking Hydrolysis. Angewandte Chemie, 2021, 133, 17301-17307.	1.6	12
262	Light-responsive Au nanoclusters with oxidase-like activity for fluorescent detection of total antioxidant capacity. Journal of Hazardous Materials, 2021, 411, 125106.	6.5	52
263	Self-Assembled Peptide Nano-Superstructure towards Enzyme Mimicking Hydrolysis. Angewandte Chemie - International Edition, 2021, 60, 17164-17170.	7.2	69
264	Interfacially Engineered Zn _{1-x} Mn _x S@Polydopamine Hollow Nanospheres for Glutathione Depleting Photothermally Enhanced Chemodynamic Therapy. ACS Nano, 2021, 15, 11428-11440.	7.3	100
265	Nanozyme-mediated elemental biogeochemical cycling and environmental effects. Science China Earth Sciences, 2021, 64, 1015-1025.	2.3	15
266	MIL-100(Fe) Metal-Organic Framework Nanospheres Embedded in Graphene Matrixes for Xanthine Fluorescence Sensing. ACS Applied Nano Materials, 2021, 4, 7172-7181.	2.4	15
267	Site-Specific Biomimicry of Antioxidative Melanin Formation and Its Application for Acute Liver Injury Therapy and Imaging. Advanced Materials, 2021, 33, e2102391.	11.1	38
268	Recent Progress in Nanotechnology for COVID-19 Prevention, Diagnostics and Treatment. Nanomaterials, 2021, 11, 1788.	1.9	38
269	Defect-Engineered Nanozyme-Linked Receptors. Small, 2021, 17, e2101907.	5.2	36
270	Transforming nature into the next generation of bio-based flexible devices: New avenues using deep eutectic systems. Matter, 2021, 4, 2141-2162.	5.0	47
271	A Bionanozyme with Ultrahigh Activity Enables Spatiotemporally Controlled Reactive Oxygen Species Generation for Cancer Therapy. Advanced Functional Materials, 2021, 31, 2104100.	7.8	18

#	ARTICLE	IF	CITATIONS
272	Peroxidase Mimetic Nanozymes in Cancer Phototherapy: Progress and Perspectives. <i>Biomolecules</i> , 2021, 11, 1015.	1.8	33
273	Aptamer-Modified Cu ²⁺ -Functionalized C-Dots: Versatile Means to Improve Nanozyme Activities—Aptananozymes. <i>Journal of the American Chemical Society</i> , 2021, 143, 11510-11519.	6.6	66
274	To Love and to Kill: Accurate and Selective Colorimetry for Both Chloride and Mercury Ions Regulated by Electro-Synthesized Oxidase-like SnTe Nanobelts. <i>Analytical Chemistry</i> , 2021, 93, 10132-10140.	3.2	16
275	One-pot synthesis of AuAgPd trimetallic nanoparticles with peroxidase-like activity for colorimetric assays. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5383-5393.	1.9	9
276	Synthesis of iridium-based nanocomposite with catalase activity for cancer phototherapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 203.	4.2	20
277	Cu,Zn Dopants Boost Electron Transfer of Carbon Dots for Antioxidation. <i>Small</i> , 2021, 17, e2102178.	5.2	40
278	Analytical applications of biomimetic recognition elements — an update. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6059-6061.	1.9	5
279	A Colorimetric Immunosensor Based on Hemin@MI Nanozyme Composites, with Peroxidase-like Activity for Point-of-care Testing of Pathogenic <i>E. coli</i> O157:H7. <i>Analytical Sciences</i> , 2021, 37, 941-947.	0.8	3
280	Selenium-Sulfur-Doped Carbon Dots with Thioredoxin Reductase Activity. <i>CCS Chemistry</i> , 2022, 4, 2239-2248.	4.6	14
281	Ceria Nanozyme-Integrated Microneedles Reshape the Perifollicular Microenvironment for Androgenetic Alopecia Treatment. <i>ACS Nano</i> , 2021, 15, 13759-13769.	7.3	79
282	Catalytic Clusterbody for Enhanced Quantitative Protein Immunoblot. <i>Analytical Chemistry</i> , 2021, 93, 10807-10815.	3.2	10
283	An array of metallic nanozymes can discriminate and detect a large number of anions. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129911.	4.0	23
284	Atomically dispersed N-coordinated Fe-Fe dual-sites with enhanced enzyme-like activities. <i>Nano Research</i> , 2022, 15, 959-964.	5.8	43
285	Palygorskite@Co ₃ O ₄ nanocomposites as efficient peroxidase mimics for colorimetric detection of H ₂ O ₂ and ascorbic acid. <i>Applied Clay Science</i> , 2021, 209, 106109.	2.6	20
286	Aptamer functionalized nanomaterials for biomedical applications: Recent advances and new horizons. <i>Nano Today</i> , 2021, 39, 101177.	6.2	100
287	Oxygen Vacancy-Driven Reversible Free Radical Catalysis for Environment-Adaptive Cancer Chemodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20943-20951.	7.2	44
288	Tailoring metal-organic frameworks-based nanozymes for bacterial theranostics. <i>Biomaterials</i> , 2021, 275, 120951.	5.7	51
289	Pd Nanoclusters Confined in ZIF-8 Matrixes for Fluorescent Detection of Glucose and Cholesterol. <i>ACS Applied Nano Materials</i> , 2021, 4, 9132-9142.	2.4	30

#	ARTICLE	IF	CITATIONS
290	Heterojunction of Vertically Arrayed MoS ₂ Nanosheet/N-Doped Reduced Graphene Oxide Enabling a Nanozyme for Sensitive Biomolecule Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 11123-11132.	3.2	52
291	Hydrolytic cleavage of nerve agent simulants by gold nanozymes. <i>Journal of Hazardous Materials</i> , 2021, 415, 125644.	6.5	16
292	Renal Cell-Targeted Drug Delivery Strategy for Acute Kidney Injury and Chronic Kidney Disease: A Mini-Review. <i>Molecular Pharmaceutics</i> , 2021, 18, 3206-3222.	2.3	13
293	Biomimetic electrochemical sensors: New horizons and challenges in biosensing applications. <i>Biosensors and Bioelectronics</i> , 2021, 185, 113242.	5.3	62
294	Solid-State Fabrication of Cu ₂ O/CuO Hydroxide Nanoelectrode Array onto Graphene Paper by Thermal Dewetting for High-Sensitive Detection of Glucose. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100389.	0.8	9
295	Sophisticated plasmon-enhanced photo-nanozyme for anti-angiogenic and tumor-microenvironment-responsive combinatorial photodynamic and photothermal cancer therapy. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 106-106.	2.9	8
296	Designing DNA cage-based immuno-fluorescence strategy for rapid diagnosis of clinical cervical cancer tissues. <i>Chinese Chemical Letters</i> , 2022, 33, 788-792.	4.8	10
297	Amorphous RuTe ₂ nanorods as efficient peroxidase mimics for colorimetric immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130007.	4.0	19
298	An overview of the use of nanozymes in antibacterial applications. <i>Chemical Engineering Journal</i> , 2021, 418, 129431.	6.6	140
299	Research Progress and Prospects of Nanozyme-Based Glucose Biofuel Cells. <i>Nanomaterials</i> , 2021, 11, 2116.	1.9	18
300	Dynamic nanoassemblies for imaging and therapy of neurological disorders. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113832.	6.6	15
301	Boron doped graphdiyne: A metal-free peroxidase mimetic nanozyme for antibacterial application. <i>Nano Research</i> , 2022, 15, 1446-1454.	5.8	64
302	NiCo ₂ S ₄ microflowers as peroxidase mimic: A multi-functional platform for colorimetric detection of glucose and evaluation of antioxidant behavior. <i>Talanta</i> , 2021, 230, 122337.	2.9	18
303	Robust O ₂ Supplementation from a Trimetallic Nanozyme-Based Self-Sufficient Complementary System Synergistically Enhances the Starvation/Photothermal Therapy against Hypoxic Tumors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38090-38104.	4.0	24
304	Porous Oxyhydroxide Derived from Metal-Organic Frameworks as Efficient Triphosphatase-like Nanozyme for Chromium(III) Ion Colorimetric Sensing. <i>ACS Applied Bio Materials</i> , 2021, 4, 6962-6973.	2.3	14
305	Oxygen Vacancy-Driven Reversible Free Radical Catalysis for Environment-Adaptive Cancer Chemodynamic Therapy. <i>Angewandte Chemie</i> , 2021, 133, 21111-21119.	1.6	3
306	ROS-Catalytic Transition-Metal-Based Enzymatic Nanoagents for Tumor and Bacterial Eradication. <i>Advanced Functional Materials</i> , 2022, 32, 2107530.	7.8	67
307	Hemin-Caged Ferritin Acting as a Peroxidase-like Nanozyme for the Selective Detection of Tumor Cells. <i>Inorganic Chemistry</i> , 2021, 60, 14515-14519.	1.9	18

#	ARTICLE	IF	CITATIONS
308	Prussian blue-based theranostics for ameliorating acute kidney injury. <i>Journal of Nanobiotechnology</i> , 2021, 19, 266.	4.2	32
309	Osmium ^{IV} -Tellurium Nanozymes for Pentamodal Combinatorial Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44124-44135.	4.0	20
310	Smart Nanozyme Platform with Activity ² -Correlated Ratiometric Molecular Imaging for Predicating Therapeutic Effect. <i>Angewandte Chemie</i> , 0, , .	1.6	6
311	Metal Nanozymes: New Horizons in Cellular Homeostasis Regulation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9019.	1.3	11
312	Single-atom engineering of metal-organic frameworks toward healthcare. <i>CheM</i> , 2021, 7, 2635-2671.	5.8	55
313	A Glucose ² -Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23534-23539.	7.2	96
314	Nanotherapies for sepsis by regulating inflammatory signals and reactive oxygen and nitrogen species: New insight for treating COVID-19. <i>Redox Biology</i> , 2021, 45, 102046.	3.9	52
315	Potential contribution of ELISA and LFI assays to assessment of the oxidative stress condition based on 8-oxodG biomarker. <i>Analytical Biochemistry</i> , 2021, 628, 114215.	1.1	4
316	Enzyme Mimics for Engineered Biomimetic Cascade Nanoreactors: Mechanism, Applications, and Prospects. <i>Advanced Functional Materials</i> , 2021, 31, 2106139.	7.8	82
317	Fullerene-Based Mimics of Biocatalysts Show Remarkable Activity and Modularity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45854-45863.	4.0	10
318	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
319	Nanomaterials meet microfluidics: Improved analytical methods and high-throughput synthetic approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 142, 116309.	5.8	16
320	Spontaneous Deposition of Uniformly Distributed Ruthenium Nanoparticles on Graphitic Carbon Nitride for Quantifying Electrochemically Accumulated H_2O_2 . <i>Chinese Journal of Chemistry</i> , 2021, 39, 3369-3374.	2.6	30
321	Integrated Nanomaterials and Nanotechnologies in Lateral Flow Tests for Personalized Medicine Applications. <i>Nanomaterials</i> , 2021, 11, 2362.	1.9	14
322	Smart Nanozyme Platform with Activity ² -Correlated Ratiometric Molecular Imaging for Predicting Therapeutic Effects. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26142-26150.	7.2	57
323	A Titanium Nitride Nanozyme for pH ² -Responsive and Irradiation ² -Enhanced Cascade ² -Catalytic Tumor Therapy. <i>Angewandte Chemie</i> , 2021, 133, 25532-25542.	1.6	8
324	Biodegradable cascade nanocatalysts enable tumor-microenvironment remodeling for controllable CO release and targeted/synergistic cancer nanotherapy. <i>Biomaterials</i> , 2021, 276, 121001.	5.7	35
325	Nanozymes in Point-of-Care Diagnosis: An Emerging Futuristic Approach for Biosensing. <i>Nano-Micro Letters</i> , 2021, 13, 193.	14.4	85

#	ARTICLE	IF	CITATIONS
326	Morphologyâ€Dependent Peroxidase Mimicking Enzyme Activity of Copper Metalâ€Organic Polyhedra Assemblies. <i>Chemistry - A European Journal</i> , 2021, 27, 15730-15736.	1.7	2
327	Hydroxyl radical-involved cancer therapy via Fenton reactions. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 345-363.	2.3	4
328	A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. <i>Angewandte Chemie</i> , 2021, 133, 23726-23731.	1.6	4
329	MOFs supported nanonetworks hybrid flower-like catalysts via supramolecular-mediated cascade self-assembly for sensitive sensing of H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 130076.	4.0	8
330	Formation and mechanisms of hydroxyl radicals during the oxygenation of sediments in Lake Poyang, China. <i>Water Research</i> , 2021, 202, 117442.	5.3	29
331	Aptamers as the powerhouse of dot blot assays. <i>Talanta</i> , 2021, 232, 122436.	2.9	13
332	A Titanium Nitride Nanozyme for pHâ€Responsive and Irradiationâ€Enhanced Cascadeâ€Catalytic Tumor Therapy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25328-25338.	7.2	88
333	TiO ₂ supported single Ag atoms nanozyme for elimination of SARS-CoV2. <i>Nano Today</i> , 2021, 40, 101243.	6.2	76
334	Molecularly imprinted polymer-based optical sensors for pesticides in foods: Recent advances and future trends. <i>Trends in Food Science and Technology</i> , 2021, 116, 387-404.	7.8	63
335	Template-engaged redox etching strategy synthesis of Î±-MnO ₂ hollow architectures toward colorimetric glutathione sensing. <i>Applied Surface Science</i> , 2021, 563, 150319.	3.1	5
336	Functionalized gold nanomaterials as biomimetic nanozymes and biosensing actuators. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116376.	5.8	31
337	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021, 40, 101269.	6.2	332
338	Copper sulfide nanoclusters with multi-enzyme-like activities and its application in acid phosphatase sensing based on enzymatic cascade reaction. <i>Talanta</i> , 2021, 233, 122594.	2.9	35
339	Realizing selective detection with nanozymes: Strategies and trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116379.	5.8	85
340	Cu ₂ O nanorods with excellent regenerable NADH peroxidase mimics and its application for selective and sensitive fluorimetric ethanol sensing. <i>Analytica Chimica Acta</i> , 2021, 1186, 339126.	2.6	14
341	Acetaminophen sensor based on the oxidase-like activity and interference self-elimination ability of chondroitin sulfate-modified platinum nanozyme. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130627.	4.0	25
342	Hollow and Porous Fe ₃ C-NC Nanoballoons Nanozymes for Cancer Cell H ₂ O ₂ Detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130597.	4.0	16
343	A critical comparison of natural enzymes and nanozymes in biosensing and bioassays. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113494.	5.3	60

#	ARTICLE	IF	CITATIONS
344	Photothermal nanozyme-ignited Fenton reaction-independent ferroptosis for breast cancer therapy. <i>Journal of Controlled Release</i> , 2021, 339, 14-26.	4.8	31
345	ZrO ₂ /CeO ₂ /polyacrylic acid nanocomposites with alkaline phosphatase-like activity for sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120165.	2.0	16
346	Cofactor-free organic nanozyme with assembly-induced catalysis and light-regulated activity. <i>Chemical Engineering Journal</i> , 2021, 426, 130855.	6.6	15
347	Recent advances in transdermal sensors for glucose monitoring. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100326.	1.8	3
348	Nanozymes: Activity origin, catalytic mechanism, and biological application. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214170.	9.5	136
349	Advances in metal-organic framework-based nanozymes and their applications. <i>Coordination Chemistry Reviews</i> , 2021, 449, 214216.	9.5	122
350	Oligonucleotide-mediated the oxidase-mimicking activity of Mn ₃ O ₄ nanoparticles as a novel colorimetric aptasensor for ultrasensitive and selective detection of <i>Staphylococcus aureus</i> in food. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130809.	4.0	37
351	One-component nano-metal-organic frameworks with superior multienzyme-mimic activities for 1,4-dihydropyridine metabolism. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 214-222.	5.0	13
352	Simultaneously colorimetric detection and effective removal of mercury ion based on facile preparation of novel and green enzyme mimic. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120410.	2.0	2
353	Reactive oxygen species-based nanomaterials for the treatment of myocardial ischemia reperfusion injuries. <i>Bioactive Materials</i> , 2022, 7, 47-72.	8.6	136
354	Microfluidic encapsulated manganese organic frameworks as enzyme mimetics for inflammatory bowel disease treatment. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1382-1390.	5.0	19
355	Giant nanotubes equipped with horseradish peroxidase active sites: a powerful nanozyme co-assembled from supramolecular amphiphiles for glucose detection. <i>Chemical Engineering Journal</i> , 2022, 429, 132592.	6.6	8
356	Combining carbon dots with WO _{3-x} nanodots for utilizing the full spectrum of solar radiation in photocatalysis. <i>Chemical Engineering Journal</i> , 2022, 428, 131139.	6.6	31
357	Carbon dots confined in N-doped carbon as peroxidase-like nanozyme for detection of gastric cancer relevant D-amino acids. <i>Chemical Engineering Journal</i> , 2022, 428, 131396.	6.6	68
358	Metal-Based Nanozyme: Strategies to Modulate the Catalytic Activity to Realize Environment Application. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 177-212.	0.3	1
359	Ultrasmall Prussian blue nanoparticles attenuate UVA-induced cellular senescence in human dermal fibroblasts <i>via</i> inhibiting the ERK/AP-1 pathway. <i>Nanoscale</i> , 2021, 13, 16104-16112.	2.8	8
360	Nickel-Platinum Nanoparticles as Peroxidase Mimics with a Record High Catalytic Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 2660-2664.	6.6	124
361	Nanozyme: a New Strategy Combating Bacterial. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 257.	0.6	6

#	ARTICLE	IF	CITATIONS
362	Future prospects and concluding remarks for electroanalytical applications of quantum dots. , 2021, , 427-450.		5
363	Cu-Based Metal-Organic Framework Nanoparticles for Sensing Cr(VI) Ions. ACS Applied Nano Materials, 2021, 4, 802-810.	2.4	41
364	Synthesis-temperature-regulated multi-enzyme-mimicking activities of ceria nanozymes. Journal of Materials Chemistry B, 2021, 9, 7238-7245.	2.9	29
365	Recent trends in nanozymes design: from materials and structures to environmental applications. Materials Chemistry Frontiers, 2021, 5, 7419-7451.	3.2	49
366	Gold nanoplates with superb photothermal efficiency and peroxidase-like activity for rapid and synergistic antibacterial therapy. Chemical Communications, 2021, 57, 1133-1136.	2.2	46
367	Enhanced Multiple Enzyme-like Activity of PtPdCu Trimetallic Nanostructures for Detection of Fe ²⁺ and Evaluation of Antioxidant Capability. ACS Sustainable Chemistry and Engineering, 2021, 9, 569-579.	3.2	37
368	Light-activated semiconducting polymer dots as mimic oxidases with remarkable catalytic efficiency: characteristics, mechanisms, and applications. Chemical Communications, 2020, 56, 3035-3038.	2.2	13
369	Antioxidant metal oxide nanozymes: role in cellular redox homeostasis and therapeutics. Pure and Applied Chemistry, 2021, 93, 187-205.	0.9	10
370	The Enzyme-Like Property and Photocatalytic Effect on 1,1-Diphenyl-1-picrylhydrazyl (DPPH) of CuPt Nanocomposite. Catalysts, 2019, 9, 813.	1.6	2
371	Carbon dots as artificial peroxidases for analytical applications. Journal of Food and Drug Analysis, 2020, 28, 559-575.	0.9	18
372	The CRISPR-Cas toolbox for analytical and diagnostic assay development. Chemical Society Reviews, 2021, 50, 11844-11869.	18.7	102
373	A carbon dot-based Co-nanozyme with alkaline phosphatase mechanism and application. RSC Advances, 2021, 11, 33253-33259.	1.7	4
374	Ultrafine platinum nanoparticles confined in a covalent organic framework for enhanced enzyme-mimetic and electrocatalytic performances. Nanoscale, 2021, 13, 18665-18676.	2.8	13
375	Quantitative evaluation of O ₂ activation half-reaction for Fe-N-C in oxidase-like activity enhancement. Catalysis Science and Technology, 2021, 11, 7255-7259.	2.1	9
376	Clinically translatable gold nanozymes with broad spectrum antioxidant and anti-inflammatory activity for alleviating acute kidney injury. Theranostics, 2021, 11, 9904-9917.	4.6	29
377	Erythrocyte-mediated delivery of bioorthogonal nanozymes for selective targeting of bacterial infections. Materials Horizons, 2021, 8, 3424-3431.	6.4	23
378	Recent antioxidative nanomaterials toward wound dressing and disease treatment via ROS scavenging. Materials Today Nano, 2022, 17, 100149.	2.3	21
379	Construct efficient substrate transport and catalytic sub-nanochannels in metal-organic framework-based nanozymes for boosting peroxidase-like catalytic activity. Chemical Engineering Journal, 2022, 430, 133079.	6.6	22

#	ARTICLE	IF	CITATIONS
380	Nanozyme-Participated Biosensing of Pesticides and Cholinesterases: A Critical Review. <i>Biosensors</i> , 2021, 11, 382.	2.3	12
381	Single-atom iron confined within polypyrrole-derived carbon nanotubes with exceptional peroxidase-like activity for total antioxidant capacity. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130969.	4.0	31
382	Bifunctional nanozyme of copper organophyllosilicate for the ultrasensitive detection of hydroquinone. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1039-1048.	1.9	7
383	A Novel Cascade Nanoreactor Integrating Two-dimensional Pd@Ru Nanozyme, Uricase and Red Blood Cell Membrane for Highly Efficient Hyperuricemia Treatment. <i>Small</i> , 2021, 17, e2103645.	5.2	36
384	Unveiling the Actual Catalytic Sites in Nanozyme-Catalyzed Oxidation of <i>o</i> -Phenylenediamine. <i>Small</i> , 2021, 17, e2104083.	5.2	21
385	Precise Subcellular Organelle Targeting for Boosting Endogenous-Stimuli-Mediated Tumor Therapy. <i>Advanced Materials</i> , 2021, 33, e2101572.	11.1	47
386	Antibacterial Effect of Chitosan-Modified Fe ₃ O ₄ Nanozymes on <i>Acinetobacter baumannii</i> . <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 263-267.	0.9	3
387	Metal ions-doped carbon dots: Synthesis, properties, and applications. <i>Chemical Engineering Journal</i> , 2022, 430, 133101.	6.6	96
388	A Hybrid Nanogel to Preserve Lysosome Integrity for Fluorescence Imaging. <i>ACS Nano</i> , 2021, 15, 16442-16451.	7.3	11
389	Potentiality of Nanoenzymes for Cancer Treatment and Other Diseases: Current Status and Future Challenges. <i>Materials</i> , 2021, 14, 5965.	1.3	25
390	Nanozyme Catalytic Turnover and Self-Limited Reactions. <i>ACS Nano</i> , 2021, 15, 15645-15655.	7.3	91
391	High-sensitive photometric microplate assay for tumor necrosis factor-alpha based on Fe@BC nanozyme. <i>Journal of Immunological Methods</i> , 2021, 499, 113167.	0.6	3
393	Design of Hepatic Targeted Drug Delivery Systems for Natural Products: Insights into Nomenclature Revision of Nonalcoholic Fatty Liver Disease. <i>ACS Nano</i> , 2021, 15, 17016-17046.	7.3	19
394	Framework Nucleic Acids in Nuclear Medicine Imaging: shedding light on nano-bio interactions. <i>Angewandte Chemie</i> , 0, , .	1.6	2
395	Framework Nucleic Acids in Nuclear Medicine Imaging: Shedding Light on Nano-Bio Interactions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
396	High performance nanozymatic assay-based CuO nanocluster supported by reduced graphene oxide for determination of hydrogen peroxide and ascorbic acid. <i>Process Biochemistry</i> , 2021, 111, 256-261.	1.8	1
397	Plasmon induced dual excited synergistic effect in Au/metal-organic frameworks composite for enhanced antibacterial therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9606-9614.	2.9	14
398	A high-performance visual monitoring of trace toxic NO ₂ ⁻ and S ₂ ⁻ in 100% aqueous based on the superior oxidase-mimic activity of nano CeO ₂ strengthened by 2D Co ₃ O ₄ substrate. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130887.	4.0	10

#	ARTICLE	IF	CITATIONS
399	Biodegradation of environmental pollutants using horseradish peroxidase. , 2022, , 603-633.		1
400	Recent advances on endogenous/exogenous stimuli-triggered nanoplatfoms for enhanced chemodynamic therapy. Coordination Chemistry Reviews, 2022, 451, 214267.	9.5	89
401	Cascaded Nanozyme System with High Reaction Selectivity by Substrate Screening and Channeling in a Microfluidic Device**. Angewandte Chemie - International Edition, 2022, 61, e202112453.	7.2	35
402	A Unique Multifunctional Nanoenzyme Tailored for Triggering Tumor Microenvironment Activated NIR-Photoacoustic Imaging and Chemodynamic/Photothermal Combined Therapy. Advanced Healthcare Materials, 2022, 11, e2102073.	3.9	26
403	Engineered Nanoenzymes with Multifunctional Properties for Next-Generation Biological and Environmental Applications. Advanced Functional Materials, 2022, 32, 2108650.	7.8	43
404	Cascaded Nanozyme System with High Reaction Selectivity by Substrate Screening and Channeling in a Microfluidic Device**. Angewandte Chemie, 2022, 134, .	1.6	5
405	Fine-Tuning Pyridinic Nitrogen in Nitrogen-Doped Porous Carbon Nanostructures for Boosted Peroxidase-Like Activity and Sensitive Biosensing. Research, 2020, 2020, 8202584.	2.8	19
406	A peroxidase-like activity-based colorimetric sensor array of noble metal nanozymes to discriminate heavy metal ions. Analyst, The, 2021, 147, 101-108.	1.7	22
407	Paper-Based Multiplexed Colorimetric Device for the Simultaneous Detection of Salivary Biomarkers. Biosensors, 2021, 11, 443.	2.3	18
408	Highly Enhanced Enzymatic Activity of Mn-Induced Carbon Dots and Their Application as Colorimetric Sensor Probes. Nanomaterials, 2021, 11, 3046.	1.9	9
409	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications – A review. International Journal of Biological Macromolecules, 2022, 194, 676-687.	3.6	72
410	Cluster Nanozymes with Optimized Reactivity and Utilization of Active Sites for Effective Peroxidase (and Oxidase) Mimicking. Small, 2022, 18, e2104844.	5.2	25
411	Tannic Acid-Capped Gold Nanoparticles as a Novel Nanozyme for Colorimetric Determination of Pb ²⁺ ions. Chemosensors, 2021, 9, 332.	1.8	12
412	L-Cysteine-Mediated Self-Assembled PtRu Derived Bimetallic Metal-Carbon Hybrid: An Excellent Peroxidase Mimics for Colorimetric and Fluorometric Detection of Hydrogen Peroxide and Cholesterol. Advanced Materials Interfaces, 2021, 8, 2101115.	1.9	10
413	Enzyme-Induced Transformable Peptide Nanocarriers with Enhanced Drug Permeability and Retention to Improve Tumor Nanotherapy Efficacy. ACS Applied Materials & Interfaces, 2021, 13, 55913-55927.	4.0	27
414	Salt-template preparation of Mo ₅ N ₆ nanosheets with peroxidase- and catalase-like activities and application for colorimetric determination of 4-aminophenol. Mikrochimica Acta, 2022, 189, 1.	2.5	48
415	Progress and Perspective on Carbon-Based Nanozymes for Peroxidase-like Applications. Journal of Physical Chemistry Letters, 2021, 12, 11751-11760.	2.1	46
416	Four-Component One-Nanozyme and Natural Enzyme Symbiotic System of Cu ₂ Se@GO for Cervical Cancer Therapy. Chemistry - A European Journal, 2022, 28, .	1.7	9

#	ARTICLE	IF	CITATIONS
417	Switching On-Off-On Colorimetric Sensor Based on Fe-N/S-C Single-Atom Nanozyme for Ultrasensitive and Multimodal Detection of Hg ²⁺ . SSRN Electronic Journal, 0, , .	0.4	0
418	New facets of nanozyme activity of ceria: lipo- and phospholipoperoxidase-like behaviour of CeO ₂ nanoparticles. RSC Advances, 2021, 11, 35351-35360.	1.7	17
419	Room-Temperature Harvesting Oxidase-Mimicking Enzymes with Exogenous ROS Generation in One Step. Inorganic Chemistry, 2022, 61, 1169-1177.	1.9	9
420	Synergetic PtNP@Co ₃ O ₄ hollow nanopolyhedrals as peroxidase-like nanozymes for the dual-channel homogeneous biosensing of prostate-specific antigen. Analytical and Bioanalytical Chemistry, 2022, 414, 1921-1932.	1.9	32
421	Recent development of metal-organic framework nanocomposites for biomedical applications. Biomaterials, 2022, 281, 121322.	5.7	83
422	Advanced catalytic ozonation for degradation of pharmaceutical pollutants—A review. Chemosphere, 2022, 289, 133208.	4.2	130
423	Rheumatoid arthritis microenvironment insights into treatment effect of nanomaterials. Nano Today, 2022, 42, 101358.	6.2	71
424	Magnetic CuFe ₂ O ₄ with intrinsic protease-like activity inhibited cancer cell proliferation and migration through mediating intracellular proteins. Biomaterials and Biosystems, 2022, 5, 100038.	1.0	4
425	Visual detection of captopril based on the light activated oxidase-mimic activity of covalent organic framework. Microchemical Journal, 2022, 175, 107080.	2.3	14
426	Synergetic integration of catalase and Fe ₃ O ₄ magnetic nanoparticles with metal organic framework for colorimetric detection of phenol. Environmental Research, 2022, 206, 112580.	3.7	16
427	Excellent catalytic properties of luminescent Cu@Cu ₂ S nanozymes and their antibacterial applications. Chemical Communications, 2022, 58, 2995-2998.	2.2	5
428	Exploration of nanozymes in viral diagnosis and therapy. Exploration, 2022, 2, .	5.4	63
429	The recent development of nanozymes for food quality and safety detection. Journal of Materials Chemistry B, 2022, 10, 1359-1368.	2.9	22
430	Cerium oxide nanozyme attenuates periodontal bone destruction by inhibiting the ROS—NF- κ B pathway. Nanoscale, 2022, 14, 2628-2637.	2.8	46
431	pH-switchable nanozyme cascade catalysis: a strategy for spatial—temporal modulation of pathological wound microenvironment to rescue stalled healing in diabetic ulcer. Journal of Nanobiotechnology, 2022, 20, 12.	4.2	50
432	Chiral Fe _x Cu _y Se nanoparticles as peroxidase mimics for colorimetric detection of 3, 4-dihydroxy-phenylalanine enantiomers. Nanotechnology, 2022, 33, 135503.	1.3	7
433	Nanozymes with reductase-like activities: antioxidant properties and electrochemical behavior. RSC Advances, 2022, 12, 2026-2035.	1.7	4
434	Magnetic Nanostructures: Rational Design and Fabrication Strategies toward Diverse Applications. Chemical Reviews, 2022, 122, 5411-5475.	23.0	49

#	ARTICLE	IF	CITATIONS
435	Repurposing ferumoxytol: Diagnostic and therapeutic applications of an FDA-approved nanoparticle. <i>Theranostics</i> , 2022, 12, 796-816.	4.6	83
436	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications. <i>Materials</i> , 2022, 15, 337.	1.3	29
437	Anti-VEGFR2-labeled enzyme-immobilized metal-organic frameworks for tumor vasculature targeted catalytic therapy. <i>Acta Biomaterialia</i> , 2022, 141, 364-373.	4.1	10
438	Current research progress on laccase-like nanomaterials. <i>New Journal of Chemistry</i> , 2022, 46, 3541-3550.	1.4	30
439	Tumor Microenvironment Responsive Single-Atom Nanozymes for Enhanced Antitumor Therapy. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	14
440	Palladium nanoparticles decorated MXene for plasmon-enhanced photocatalysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 108, 501-507.	2.9	10
441	Confining Natural/Mimetic Enzyme Cascade in an Amorphous Metal-Organic Framework for the Construction of Recyclable Biomaterials with Catalytic Activity. <i>Langmuir</i> , 2022, 38, 927-936.	1.6	20
442	Wound Dressing: From Nanomaterials to Diagnostic Dressings and Healing Evaluations. <i>ACS Nano</i> , 2022, 16, 1708-1733.	7.3	173
443	A novel CuCoS nanozyme for synergistic photothermal and chemodynamic therapy of tumors. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1006-1015.	3.0	13
444	Construction of DNA ligase-mimicking nanozymes via molecular imprinting. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6716-6723.	2.9	2
445	A liquid colorimetric chemosensor for ultrasensitive detection of glyphosate residues in vegetables using a metal oxide with intrinsic peroxidase catalytic activity. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2022, 39, 710-723.	1.1	5
446	Upcycling discarded cellulosic surgical masks into catalytically active freestanding materials. <i>Cellulose</i> , 2022, 29, 2223-2240.	2.4	6
447	A dual-readout sandwich immunoassay based on biocatalytic perovskite nanocrystals for detection of prostate specific antigen. <i>Biosensors and Bioelectronics</i> , 2022, 203, 113979.	5.3	15
448	Construction of biomimetic nanozyme with high laccase- and catecholase-like activity for oxidation and detection of phenolic compounds. <i>Journal of Hazardous Materials</i> , 2022, 429, 128404.	6.5	54
449	Hierarchically porous 2D carbon from bio-waste: a sustainable, rapid, and efficient oxidase mimic for the colorimetric detection of ascorbic acid. <i>Materials Advances</i> , 2022, 3, 2749-2759.	2.6	4
450	On-Cell Catalytic Detection of Epithelial-to-Mesenchymal Transition by a Clusterzyme Bioprobe. <i>Analytical Chemistry</i> , 2022, 94, 3023-3028.	3.2	4
451	Supramolecule self-assembly synthesis of amyloid phenylalanine-Cu fibrils with laccase-like activity and their application for dopamine determination. <i>Mikrochimica Acta</i> , 2022, 189, 98.	2.5	9
452	Solid-State Synthesis of Cu doped CDs with Peroxidase-Mimicking Activity at Neutral pH and Sensing of Antioxidants. <i>ChemNanoMat</i> , 2022, 8, .	1.5	2

#	ARTICLE	IF	CITATIONS
453	Plasmonic Nanozyme of Graphdiyne Nanowalls Wrapped Hollow Copper Sulfide Nanocubes for Rapid Bacteria Killing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	61
454	Pt nanoenzyme decorated yolk-shell nanoplatform as an oxygen generator for enhanced multi-modality imaging-guided phototherapy. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 759-768.	5.0	10
455	Citric acid-derived carbon dots as excellent cysteine oxidase mimics for cysteine sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131563.	4.0	21
456	Ultrathin Ruthenium Nanosheets with Crystallinity-Modulated Peroxidase-like Activity for Protein Discrimination. <i>Analytical Chemistry</i> , 2022, 94, 1022-1028.	3.2	21
457	Nanozyme enhanced magnetic immunoassay for dual-mode detection of gastrin-17. <i>Analyst</i> , The, 2022, 147, 1678-1687.	1.7	10
458	Recent advances in the applications of nanozymes for the efficient detection/removal of organic pollutants: a review. <i>Environmental Science: Nano</i> , 2022, 9, 1212-1235.	2.2	13
459	N- and B-Doped Fullerene as Peroxidase- and Catalase-Like Metal-Free Nanozymes with Ph-Switchable Catalytic Activity: A First-Principles Approach. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
460	Ti ₃ C ₂ nanosheets with broad-spectrum antioxidant activity for cytoprotection against oxidative stress. <i>RSC Advances</i> , 2022, 12, 11128-11138.	1.7	12
461	Prospects of nano-carbons as emerging catalysts for enzyme-mimetic applications. <i>Materials Advances</i> , 2022, 3, 3101-3122.	2.6	39
462	Diatom active sites nanozymes: Enhanced peroxidase-like activity for dopamine and intracellular H ₂ O ₂ detection. <i>Nano Research</i> , 2022, 15, 4266-4273.	5.8	29
463	Aptamers for Viral Detection and Inhibition. <i>ACS Infectious Diseases</i> , 2022, 8, 667-692.	1.8	17
464	Mesoporous Core-Shell Pd@Pt Nanospheres as Oxidase Mimics with Superhigh Catalytic Efficiency at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2137-2143.	2.1	9
465	Bridging oxidase catalysis and oxygen reduction electrocatalysis by model single-atom catalysts. <i>National Science Review</i> , 2022, 9, .	4.6	19
466	CoO Nanozymes with Multiple Catalytic Activities Regulate Atopic Dermatitis. <i>Nanomaterials</i> , 2022, 12, 638.	1.9	8
467	Gold-Platinum Nanoparticles with Core-Shell Configuration as Efficient Oxidase-like Nanosensors for Glutathione Detection. <i>Nanomaterials</i> , 2022, 12, 755.	1.9	9
468	Nanotechnology Tools Enabling Biological Discovery. <i>ACS Nano</i> , 2022, 16, 5062-5084.	7.3	18
469	Novel Ti ₃ C ₂ T _x MXene nanozyme with manageable catalytic activity and application to electrochemical biosensor. <i>Journal of Nanobiotechnology</i> , 2022, 20, 119.	4.2	16
470	Single amino acid bionanozyme for environmental remediation. <i>Nature Communications</i> , 2022, 13, 1505.	5.8	66

#	ARTICLE	IF	CITATIONS
471	Optical assay using B-doped core-shell Fe@BC nanozyme for determination of alanine aminotransferase. <i>Mikrochimica Acta</i> , 2022, 189, 147.	2.5	5
472	Nanozybotics: Nanozyme-Based Antibacterials against Bacterial Resistance. <i>Antibiotics</i> , 2022, 11, 390.	1.5	23
473	2D material-based peroxidase-mimicking nanozymes: catalytic mechanisms and bioapplications. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2971-2989.	1.9	11
474	Versatile graphitic nanozymes for magneto actuated cascade reaction-enhanced treatment of <i>S. mutans</i> biofilms. <i>Nano Research</i> , 2022, 15, 9800-9808.	5.8	9
475	Gold Nanorods/Metal-Organic Framework Hybrids: Photo-Enhanced Peroxidase-Like Activity and SERS Performance for Organic Dyestuff Degradation and Detection. <i>Analytical Chemistry</i> , 2022, 94, 4484-4494.	3.2	45
476	Bimetal Biomimetic Engineering Utilizing Metal-Organic Frameworks for Superoxide Dismutase Mimic. , 2022, 4, 751-757.		39
477	Transition Metal Engineering of Molybdenum Disulfide Nanozyme for Biomimicking Anti-Biofouling in Seawater. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14218-14225.	4.0	18
478	Single-Stranded DNA-Encoded Gold Nanoparticle Clusters as Programmable Enzyme Equivalents. <i>Journal of the American Chemical Society</i> , 2022, 144, 6311-6320.	6.6	37
479	Designing CoS _{1.035} Nanoparticles Anchored on N-Doped Carbon Dodecahedron as Dual-Enzyme Mimics for the Colorimetric Detection of H ₂ O ₂ and Glutathione. <i>ACS Omega</i> , 2022, 7, 11135-11147.	1.6	6
480	Putting surface-enhanced Raman spectroscopy to work for nanozyme research: Methods, materials and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 152, 116603.	5.8	18
481	Rational Construction of a Ni/CoMoO ₄ Heterostructure with Strong Ni-O-Co Bonds for Improving Multifunctional Nanozyme Activity. <i>ACS Nano</i> , 2022, 16, 4536-4550.	7.3	55
482	POD Nanozyme optimized by charge separation engineering for light/pH activated bacteria catalytic/photodynamic therapy. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 86.	7.1	59
483	Emerging nanozymes for potentiating radiotherapy and radiation protection. <i>Chinese Chemical Letters</i> , 2022, 33, 3315-3324.	4.8	10
484	In vivo three-dimensional multispectral photoacoustic imaging of dual enzyme-driven cyclic cascade reaction for tumor catalytic therapy. <i>Nature Communications</i> , 2022, 13, 1298.	5.8	91
485	Metal-nitrogen-carbon-based nanozymes: advances and perspectives. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 323001.	1.3	6
486	Nanozymes: Versatile Platforms for Cancer Diagnosis and Therapy. <i>Nano-Micro Letters</i> , 2022, 14, 95.	14.4	82
487	Iron phthalocyanine-derived nanozyme as dual reactive oxygen species generation accelerator for photothermally enhanced tumor catalytic therapy. <i>Biomaterials</i> , 2022, 284, 121495.	5.7	34
488	Sensitive Activatable Nanoprobes for Real-Time Ratiometric Magnetic Resonance Imaging of Reactive Oxygen Species and Ameliorating Inflammation In Vivo. <i>Advanced Materials</i> , 2022, 34, e2109004.	11.1	52

#	ARTICLE	IF	CITATIONS
489	Plasmonic Nanomaterials for Colorimetric Biosensing: A Review. <i>Chemosensors</i> , 2022, 10, 136.	1.8	10
490	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114269.	6.6	27
491	Ultra-fast colorimetric detection of glutathione by magnetic Fe NPs with peroxidase-like activity. <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131750.	4.0	25
492	Integrating peroxidase-mimicking NH ₂ -MIL-101(Fe) with molecular imprinting for high-performance ratiometric fluorescence sensing of domoic acid. <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131688.	4.0	20
493	Fe ^{II} -N ³ C single-atom nanozymes based sensor array for dual signal selective determination of antioxidants. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114097.	5.3	45
494	A multifunctional nanozyme-based enhanced system for tert-butyl hydroquinone assay by surface-enhanced Raman scattering. <i>Mikrochimica Acta</i> , 2022, 189, 29.	2.5	12
495	Ag ^{II} -Cyclodextrin-Graphene Oxide Ternary Nanostructures with Peroxidase-Mimicking Activity for Hg ²⁺ Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 13807-13817.	2.4	16
496	A pH-Responsive Persistent Luminescence Nanozyme for Selective Imaging and Killing of <i>Helicobacter pylori</i> and Common Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60955-60965.	4.0	28
497	Oxidative Stress and Antioxidant Nanotherapeutic Approaches for Inflammatory Bowel Disease. <i>Biomedicines</i> , 2022, 10, 85.	1.4	15
498	2D and 3D Covalent Organic Frameworks: Cutting-Edge Applications in Biomedical Sciences. <i>ACS Applied Bio Materials</i> , 2022, 5, 40-58.	2.3	28
499	Recent Advances in Research on Implantable Enzymatic Biofuel Cell. <i>KSBB Journal</i> , 2021, 36, 238-246.	0.1	0
500	Recent Advances in Nanozymes: From Matters to Bioapplications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	143
501	Biochar Nanozyme from Silkworm Excrement for Scavenging Vapor-Phase Free Radicals in Cigarette Smoke. <i>ACS Applied Bio Materials</i> , 2022, 5, 1831-1838.	2.3	6
502	Bioactive Nanoenzyme Reverses Oxidative Damage and Endoplasmic Reticulum Stress in Neurons under Ischemic Stroke. <i>ACS Nano</i> , 2022, 16, 431-452.	7.3	81
503	Fe-Curcumin Nanozyme-Mediated Reactive Oxygen Species Scavenging and Anti-Inflammation for Acute Lung Injury. <i>ACS Central Science</i> , 2022, 8, 10-21.	5.3	97
504	Maximizing the peroxidase-like activity of Pd@Pt _x Ru ₄ nanocubes by precisely controlling the shell thickness and their application in colorimetric biosensors. <i>Nanoscale</i> , 2022, 14, 7596-7606.	2.8	2
505	Heterogeneous catalytic decomposition of hydrogen peroxide utilizing a Fe-based metal-organic framework as an efficient and persistent nanozyme. <i>Materials Advances</i> , 2022, 3, 4262-4267.	2.6	6
506	A Sub-Nanostructural Transformable Nanozyme for Tumor Photocatalytic Therapy. <i>Nano-Micro Letters</i> , 2022, 14, 101.	14.4	24

#	ARTICLE	IF	CITATIONS
507	Prussian Blue Nanoparticle Supported MoS ₂ Nanocomposites as a Peroxidase-Like Nanozyme for Colorimetric Sensing of Dopamine. <i>Biosensors</i> , 2022, 12, 260.	2.3	16
508	Nanozymes with Multiple Activities: Prospects in Analytical Sensing. <i>Biosensors</i> , 2022, 12, 251.	2.3	23
509	Solvothermal synthesis of transition metal (iron/copper) and nitrogen co-doped carbon nanomaterials: comparing their peroxidase-like properties. <i>Journal of Nanoparticle Research</i> , 2022, 24, 1.	0.8	3
510	Au ³⁺ -Functionalized UiO-67 Metal-Organic Framework Nanoparticles: O ₂ and •OH Generating Nanozymes and Their Antibacterial Functions. <i>Small</i> , 2022, 18, e2200548.	5.2	27
511	Switching on-off-on colorimetric sensor based on Fe-N/S-C single-atom nanozyme for ultrasensitive and multimodal detection of Hg ²⁺ . <i>Science of the Total Environment</i> , 2022, 834, 155428.	3.9	36
512	Mimetic peroxidase based on a gold amalgam for the colorimetric sensing of trace mercury in water samples. <i>Analyst</i> , 2022, 147, 2388-2395.	1.7	5
513	Biomedical Applications of Nanozymes: Disease Diagnosis and Therapy. , 2022, , 675-687.		0
514	Insertion of Hemin into Metal-Organic Frameworks: Mimicking Natural Peroxidase Microenvironment for the Rapid Ultrasensitive Detection of Uranium. <i>Analytical Chemistry</i> , 2022, 94, 6833-6841.	3.2	9
515	Prediction and Design of Nanozymes using Explainable Machine Learning. <i>Advanced Materials</i> , 2022, 34, e2201736.	11.1	42
516	Prussian Blue Nanozyme Promotes the Survival Rate of Skin Flaps by Maintaining a Normal Microenvironment. <i>ACS Nano</i> , 2022, 16, 9559-9571.	7.3	28
517	Protective effect of platinum nano-antioxidant and nitric oxide against hepatic ischemia-reperfusion injury. <i>Nature Communications</i> , 2022, 13, 2513.	5.8	43
518	Development of an optical immunoassay based on peroxidase-mimicking Prussian blue nanoparticles and a label-free electrochemical immunosensor for accurate and sensitive quantification of milk species adulteration. <i>Mikrochimica Acta</i> , 2022, 189, 209.	2.5	5
519	H ₂ O ₂ Self-Supplementing and GSH-Depleting Nanoreactors Based on MoO ₃ @Fe ₃ O ₄ -GOD-PVP for Photothermally Reinforced Nanocatalytic Cancer Therapy at the Second Near-Infrared Biowindow. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6346-6357.	3.2	6
520	Nanozymes: Supramolecular perspective. <i>Biochemical Engineering Journal</i> , 2022, 183, 108463.	1.8	2
521	Engineering of coordination environment in bioinspired laccase-mimicking catalysts for monitoring of pesticide poisoning. <i>Chemical Engineering Journal</i> , 2022, 446, 136930.	6.6	6
522	Reversing breast cancer bone metastasis by metal organic framework-capped nanotherapeutics via suppressing osteoclastogenesis. <i>Biomaterials</i> , 2022, 285, 121549.	5.7	35
523	Engineering oxygen vacancy of MoO _x nanoenzyme by Mn doping for dual-route cascaded catalysis mediated high tumor eradication. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 155-167.	5.0	19
524	Histidine-engineered metal-organic frameworks with enhanced peroxidase-like activity for sensitive detection of metallothioneins. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131927.	4.0	22

#	ARTICLE	IF	CITATIONS
525	Nanoarchitected superparamagnetic iron oxide-doped mesoporous carbon nanozymes for glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131980.	4.0	27
526	Starvation, Ferroptosis, and Prodrug Therapy Synergistically Enabled by a Cytochrome c Oxidase like Nanozyme. <i>Advanced Materials</i> , 2022, 34, e2203236.	11.1	49
527	Novel design of multifunctional nanozymes based on tumor microenvironment for diagnosis and therapy. <i>European Journal of Medicinal Chemistry</i> , 2022, 238, 114456.	2.6	16
528	Colorimetric aptasensor targeting zearalenone developed based on the hyaluronic Acid-DNA hydrogel and bimetallic MOFzyme. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114366.	5.3	24
529	Metal Graphitic Nanocapsules for Theranostics in Harsh Conditions. <i>Frontiers in Chemistry</i> , 2022, 10, .	1.8	1
530	Enzyme-controllable just-in-time production system of copper hexacyanoferrate nanoparticles with oxidase-mimicking activity for highly sensitive colorimetric immunoassay. <i>Talanta</i> , 2022, 247, 123546.	2.9	16
531	Efficient nanozyme engineering for antibacterial therapy. <i>Materials Futures</i> , 2022, 1, 023502.	3.1	12
532	Protein-mimicking Nanoparticles in Biosystems. <i>Advanced Materials</i> , 2022, 34, e2201562.	11.1	17
533	Anticancer therapeutic effect of cerium-based nanoparticles: known and unknown molecular mechanisms. <i>Biomaterials Science</i> , 2022, 10, 3671-3694.	2.6	20
534	Sample-in-answer-out colorimetric detection of <i>Salmonella typhimurium</i> using non-enzymatic cascade amplification. <i>Analytica Chimica Acta</i> , 2022, 1218, 339850.	2.6	6
535	Recent Trends in Composite Nanozymes and Their Pro-Oxidative Role in Therapeutics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	6
536	Colorimetric detections of iodide and mercuric ions based on a regulation of an Enzyme-Like activity from gold nanoclusters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121450.	2.0	4
537	A Novel Tetrameric Heptomolybdate with Reactive Oxygen Species Catalytic Ability. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2022, 48, 325-331.	0.3	1
538	Recent applications of immunomodulatory biomaterials for disease immunotherapy. <i>Exploration</i> , 2022, 2, .	5.4	81
539	Piezoelectric Activatable Nanozyme-Based Skin Patch for Rapid Wound Disinfection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26455-26468.	4.0	27
540	Biocomputation with MnTiO ₃ Piezoelectric Enzymes for Programed Catalysis of Tumor Death. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28199-28210.	4.0	9
541	Mesoporous peroxidase nanozyme for synergistic chemodynamic therapy and chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 216, 112603.	2.5	7
542	A hyaluronic acid/platelet-rich plasma hydrogel containing MnO ₂ nanozymes efficiently alleviates osteoarthritis in vivo. <i>Carbohydrate Polymers</i> , 2022, 292, 119667.	5.1	40

#	ARTICLE	IF	CITATIONS
543	Acidity-responsive cascade nanoreactor based on metal-nanozyme and glucose oxidase combination for starving and photothermal-enhanced chemodynamic antibacterial therapy. <i>Chemical Engineering Journal</i> , 2022, 446, 137172.	6.6	25
544	N- and B-doped fullerene as peroxidase- and catalase-like metal-free nanozymes with pH-switchable catalytic activity: A first-principles approach. <i>Applied Surface Science</i> , 2022, 598, 153715.	3.1	17
545	Enzyme-like activity of cobalt-MOF nanosheets for hydrogen peroxide electrochemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132129.	4.0	30
546	Albumin-mediated "Unlocking" of supramolecular prodrug-like nanozymes toward selective imaging-guided phototherapy. <i>Chemical Science</i> , 2022, 13, 7814-7820.	3.7	14
547	Robust Ce-N-C Nanozymes for Rapid Dephosphorylation of Phosphotriester Over a Broad Temperature Range. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
548	NIR-responsive MoS ₂ @Cu ₂ WS ₄ nanosheets for catalytic/photothermal therapy of methicillin-resistant <i>Staphylococcus aureus</i> infections. <i>Nanoscale</i> , 2022, 14, 9796-9805.	2.8	4
549	Synthesis of Prussian Blue Nanoparticles and Their Antibacterial, Antiinflammation and Antitumor Applications. <i>Pharmaceuticals</i> , 2022, 15, 769.	1.7	13
550	Ultrasmall Ruthenium Nanoparticles with Boosted Antioxidant Activity Upregulate Regulatory T Cells for Highly Efficient Liver Injury Therapy. <i>Small</i> , 2022, 18, .	5.2	22
551	A Novel Tri-Coordination Zinc Complex Functionalized Silicotungstate with ROS Catalytic Ability and Anti-Tumor Cells Activity. <i>Catalysts</i> , 2022, 12, 695.	1.6	3
552	Antioxidant nanozyme microneedles with stem cell loading for in situ endometrial repair. <i>Chemical Engineering Journal</i> , 2022, 449, 137786.	6.6	14
553	Nanobiomimetic Medicine. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
554	Ultrathin covalent organic framework nanosheet-based photoregulated metal-free oxidase-like nanozyme. <i>Nano Research</i> , 2022, 15, 8783-8790.	5.8	23
555	Catalysis driven by biohybrid nanozyme. , 2022, 1, 100024.		4
556	A photonanozyme with light-empowered specific peroxidase-mimicking activity. <i>Nano Research</i> , 2022, 15, 9073-9081.	5.8	16
557	Exogenously Triggered Nanozyme for Real-Time Magnetic Resonance Imaging-Guided Synergistic Cascade Tumor Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29650-29658.	4.0	8
558	Nonmetal Graphdiyne Nanozyme-Based Ferroptosis "Apoptosis Strategy for Colon Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27720-27732.	4.0	26
559	Synthesis of Gold-Platinum Core-Shell Nanoparticles Assembled on a Silica Template and Their Peroxidase Nanozyme Properties. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6424.	1.8	7
560	Morphology Adjustment and Optimization of CuS as Enzyme Mimics for the High Efficient Colorimetric Determination of Cr(VI) in Water. <i>Nanomaterials</i> , 2022, 12, 2087.	1.9	4

#	ARTICLE	IF	CITATIONS
561	Designing Lactate Dehydrogenase-Mimicking SnSe Nanosheets To Reprogram Tumor-Associated Macrophages for Potentiation of Photothermal Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27651-27665.	4.0	18
562	Minimalist O ₂ generator formed by in situ KMnO ₄ oxidation for tumor cascade therapy. <i>Biomaterials</i> , 2022, 287, 121596.	5.7	4
563	Fructose oxidase-like activity of CuO nanoparticles supported by phosphate for a tandem catalysis-based fructose sensor. <i>Analytica Chimica Acta</i> , 2022, 1220, 340064.	2.6	9
564	Engineering functional mesoporous materials from plant polyphenol based coordination polymers. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214649.	9.5	39
565	Stimuli-responsive colorimetric sensor based on bifunctional pyrophosphate-triggered controlled release and enhancing activity of CoOOH nanozyme. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132215.	4.0	2
566	Bioactive material-based nanozymes with multifunctional attributes for biomedicine: Expanding antioxidant therapeutics for neuroprotection, cancer, and anti-inflammatory pathologies. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214685.	9.5	30
567	Confined construction of COF@Cu-nanozyme with high activity and stability as laccase biomimetic catalyst for the efficient degradation of phenolic pollutants. <i>Chemical Engineering Journal</i> , 2022, 448, 137701.	6.6	39
568	Nanozymes for foodborne microbial contaminants detection: Mechanisms, recent advances, and challenges. <i>Food Control</i> , 2022, 141, 109165.	2.8	9
569	Protein and enzyme protected metal nanoclusters. , 2022, , 303-348.		0
570	Biomimetically constructing a hypoxia-activated programmable phototheranostics at the molecular level. <i>Chemical Science</i> , 2022, 13, 8979-8988.	3.7	8
571	A Dopamine-Enabled Universal Assay for Catalase and Catalase-Like Nanozymes. <i>Analytical Chemistry</i> , 2022, 94, 10636-10642.	3.2	21
572	Prussian Blue Nanozyme Normalizes Microenvironment to Delay Osteoporosis. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	13
573	Nanoarchitectonics of Fullerene@CBased Enzyme Mimics for Osteogenic Induction of Stem Cells. <i>Macromolecular Bioscience</i> , 2022, 22, .	2.1	6
574	Nanozyme-Based Lateral Flow Immunoassay (LFIA) for Extracellular Vesicle Detection. <i>Biosensors</i> , 2022, 12, 490.	2.3	3
575	Ag nanozyme strengthened by folic acid: Superior peroxidase-mimicking activity and application for visual monitoring of dopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6611-6620.	1.9	11
576	Insights on catalytic mechanism of CeO ₂ as multiple nanozymes. <i>Nano Research</i> , 2022, 15, 10328-10342.	5.8	60
577	Rutin as a coenzyme of Fe-doped silicon nanozyme with enhanced peroxidase-like activity for a colorimetric I ² -glucuronidase sensor. <i>Microchemical Journal</i> , 2022, 181, 107771.	2.3	1
578	A hexa-Cu cluster sandwiched silicotungstate with reactive oxygen species catalytic ability and anti-tumor activity in PC12 cells. <i>Journal of Molecular Structure</i> , 2022, 1267, 133616.	1.8	3

#	ARTICLE	IF	CITATIONS
579	<sc>Cysteine-Functionalized Ru in Chain-like Nanostructures for Colorimetric Detection of Lysophosphatidylcholine. ACS Applied Nano Materials, 2022, 5, 10663-10675.	2.4	3
580	Multivalent Ce-MOFs as biomimetic laccase nanozyme for environmental remediation. Chemical Engineering Journal, 2022, 450, 138220.	6.6	69
581	Fluorescence sensing platform for sarcosine analysis based on nitrogen-doping copper nanosheets and gold nanoclusters. Analytica Chimica Acta, 2022, 1223, 340188.	2.6	6
582	Insights into phenanthrene attenuation by hydroxyl radicals from reduced iron-bearing mineral oxygenation. Journal of Hazardous Materials, 2022, 439, 129658.	6.5	5
583	In-Situ Growth of AU Nanoparticles on Polydopamine Nanotube for the Preparation of Hybrid Nanotubes with Improved Enzyme-Like Activity. SSRN Electronic Journal, 0, , .	0.4	0
584	Colorimetric Aptasensor Based on Fe ₃ O ₄ @Cu ²⁺ Nanozyme with Intrinsic Peroxidase-Like Activity in the Detection of Breast Cancer Exosomes. Journal of Biomedical Nanotechnology, 2022, 18, 1084-1096.	0.5	4
585	Recent Progress in Phase Regulation, Functionalization, and Biosensing Applications of Polyphase MoS ₂ . Small, 2022, 18, .	5.2	17
586	Superoxide-like Cu/GO single-atom catalysts nanozyme with high specificity and activity for removing superoxide free radicals. Nano Research, 2022, 15, 8804-8809.	5.8	20
587	Novel gold-platinum nanoparticles serve as broad-spectrum antioxidants for attenuating ischemia reperfusion injury of the kidney. Kidney International, 2022, 102, 1057-1072.	2.6	14
588	Turn-on colorimetric detection of hydroquinone based on Au/CuO nanocomposite nanozyme. Mikrochimica Acta, 2022, 189, .	2.5	11
589	Enhanced Peroxidase-like Activity of CuS Hollow Nanocages by Plasmon-Induced Hot Carriers and Photothermal Effect for the Dual-Mode Detection of Tannic Acid. ACS Applied Materials & Interfaces, 2022, 14, 40191-40199.	4.0	29
590	Peroxidase-like activity of bimetal Cu@Zn oxide mesoporous nanospheres for the determination of o-aminophenol. Mikrochimica Acta, 2022, 189, .	2.5	4
592	Recent Developments in Nanozyme Based Sensors for Detection of Clinical Biomarkers—A Review. IEEE Sensors Journal, 2022, 22, 15622-15634.	2.4	7
593	Catalase-Like Nanozymes: Classification, Catalytic Mechanisms, and Their Applications. Small, 2022, 18, .	5.2	89
594	Screening of Protein-Based Ultrasmall Nanozymes for Building Cell-Mimicking Catalytic Vesicles. Small, 2022, 18, .	5.2	8
595	Single-atom nanozymes catalytically surpassing naturally occurring enzymes as sustained stitching for brain trauma. Nature Communications, 2022, 13, .	5.8	72
596	Reactive oxygen species scavenging nanofibers with chitosan-stabilized Prussian blue nanoparticles for enhanced wound healing efficacy. International Journal of Biological Macromolecules, 2022, 219, 835-843.	3.6	7
597	Thiolated gamma-cyclodextrin-polymer-functionalized CeFe ₃ O ₄ magnetic nanocomposite as an intrinsic nanocatalyst for the selective and ultrasensitive colorimetric detection of triacetone triperoxide. Chemosphere, 2022, 307, 136108.	4.2	2

#	ARTICLE	IF	CITATIONS
598	Recent progress in the construction and applications of metal-organic frameworks and covalent-organic frameworks-based nanozymes. <i>Coordination Chemistry Reviews</i> , 2022, 471, 214760.	9.5	29
599	Photoswitchable carbon-dot liposomes mediate catalytic cascade reactions for amplified dynamic treatment of tumor cells. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 717-725.	5.0	7
600	Hemin-loaded black phosphorus-based nanosystem for enhanced photodynamic therapy and a synergistic photothermally/photodynamically activated inflammatory immune response. , 2022, 140, 213091.		7
601	Plasmonic Nanozymes: Leveraging Localized Surface Plasmon Resonance to Boost the Enzymeâ€™Mimicking Activity of Nanomaterials. <i>Small</i> , 2022, 18, .	5.2	29
602	Rational design and structural engineering of heterogeneous single-atom nanozyme for biosensing. <i>Biosensors and Bioelectronics</i> , 2022, 216, 114662.	5.3	19
603	Dual-signal output paper sensor based on coordinative self-assembly biomimetic nanozyme for point-of-care detection of biomarker. <i>Biosensors and Bioelectronics</i> , 2022, 216, 114656.	5.3	10
604	Palladium-platinum bimetallic nanomaterials and their application in <i>Staphylococcus aureus</i> detection on paper-based devices. <i>Biosensors and Bioelectronics</i> , 2022, 216, 114669.	5.3	14
605	Mechanistic and kinetic insights into size-dependent activity in ultra-small Pt/CNTs nanozymes during antibacterial process. <i>Arabian Journal of Chemistry</i> , 2022, 15, 104238.	2.3	4
606	Nanozymes with atomically dispersed metal centers: Structureâ€™activity relationships and biomedical applications. <i>Chemical Engineering Journal</i> , 2023, 452, 139411.	6.6	18
607	Robust and facile label-free colorimetric aptasensor for ochratoxin A detection using aptamer-enhanced oxidase-like activity of MnO ₂ nanoflowers. <i>Food Chemistry</i> , 2023, 401, 134144.	4.2	24
608	Nanozymes for biomedical applications in orthopaedics. <i>Particuology</i> , 2023, 76, 32-45.	2.0	5
609	Recent advances in Ti-based MOFs in biomedical applications. <i>Dalton Transactions</i> , 2022, 51, 14817-14832.	1.6	53
610	Platinum nanoplatfoms: classic catalysts claiming a prominent role in cancer therapy. <i>Chemical Society Reviews</i> , 2022, 51, 7662-7681.	18.7	19
611	A synergistic chemodynamicâ€™photodynamic-photothermal therapy platform based on biodegradable Ce-doped MoO ₃ nanoparticles. <i>Nanoscale</i> , 2022, 14, 14471-14481.	2.8	7
612	Valence-switchable and biocatalytic vanadium-based MXene nanoplatfom with photothermal-enhanced dual enzyme-like activities for anti-infective therapy. <i>Chemical Engineering Journal</i> , 2023, 451, 138985.	6.6	17
613	Histidine as a key modulator of molecular self-assembly: Peptide-based supramolecular materials inspired by biological systems. <i>Materials Today</i> , 2022, 60, 106-127.	8.3	29
614	Preparation, applications, and challenges of functional DNA nanomaterials. <i>Nano Research</i> , 2023, 16, 3895-3912.	5.8	11
615	Self-Assembled Fullerene Nanostructures for Mimicking and Understanding of Natural Enzymes. <i>ACS Applied Nano Materials</i> , 2022, 5, 14285-14295.	2.4	8

#	ARTICLE	IF	CITATIONS
616	Machine Learning Assisted Graphdiyne-Based Nanozyme Discovery. , 2022, 4, 2134-2142.		12
617	Antioxidant Activity of New Copolymer Conjugates of Methoxyoligo(Ethylene Glycol)Methacrylate and Betulin Methacrylate with Cerium Oxide Nanoparticles In Vitro. Molecules, 2022, 27, 5894.	1.7	5
618	Locking the Ultrasound-Induced Active Conformation of Metalloenzymes in Metal-Organic Frameworks. Journal of the American Chemical Society, 2022, 144, 17865-17875.	6.6	31
619	Fe-Doped MoS ₂ Nanozyme for Antibacterial Activity and Detoxification of Mustard Gas Simulant. ACS Applied Materials & Interfaces, 2022, 14, 42940-42949.	4.0	20
620	Temporally Controlled Multienzyme Catalysis Using a Dissipative Supramolecular Nanozyme. ACS Applied Materials & Interfaces, 2022, 14, 45096-45109.	4.0	14
622	Minimalistic Metabolite-Based Building Blocks for Supramolecular Functional Materials. ChemSystemsChem, 2022, 4, .	1.1	4
623	Oxidase-like ZnCoFe Three-Atom Nanozyme as a Colorimetric Platform for Ascorbic Acid Sensing. Analytical Chemistry, 2022, 94, 14308-14316.	3.2	31
624	Functional catalytic nanoparticles (nanozymes) for sensing. Biosensors and Bioelectronics, 2022, 218, 114768.	5.3	35
625	Nanozyme-Enabled Treatment of Cardio- and Cerebrovascular Diseases. Small, 2023, 19, .	5.2	28
626	Combining Cobalt Ferrite Nanozymes with a Natural Enzyme to Reshape the Tumor Microenvironment for Boosted Cascade Enzyme-Like Activities. ACS Applied Materials & Interfaces, 2022, 14, 45217-45228.	4.0	18
627	Biomimetic Material-Based Biosensor for Environmental Monitoring. , 2022, , 191-202.		0
628	Medical Nanozymes for Therapeutics. Micro/Nano Technologies, 2022, , 1-46.	0.1	0
629	Reference material of Prussian blue nanozymes for their peroxidase-like activity. Analyst, The, 2022, 147, 5633-5642.	1.7	9
630	Precisely modulated 2D PdCu alloy nanodendrites as highly active peroxidase mimics for the elimination of biofilms. Biomaterials Science, 2022, 10, 7067-7076.	2.6	6
631	Environmental persistence, detection, and mitigation of endocrine disrupting contaminants in wastewater treatment plants – a review with a focus on tertiary treatment technologies. Environmental Science Advances, 2022, 1, 680-704.	1.0	4
632	A Cyclen-Functionalized Cobalt-Substituted Sandwich-Type Tungstoarsenate with Versatility in Removal of Methylene Blue and Anti-ROS-Sensitive Tumor Cells. Molecules, 2022, 27, 6451.	1.7	3
633	Au, Ag nanoparticles-doped MIL-53(Fe) in rapid and selective detection of hydrogen peroxide in milk samples. Chemical Papers, 0, , .	1.0	0
634	Ultrasml Pt Nanozymes Immobilized on Spherical Polyelectrolyte Brushes with Robust Peroxidase-like Activity for Highly Sensitive Detection of Cysteine. Langmuir, 2022, 38, 12915-12923.	1.6	10

#	ARTICLE	IF	CITATIONS
635	Highly Sensitive Electrochemical Immunosensor Based on Mesoporous PdPt Nanoparticles Anchored on a Three-dimensional PANI@CNTs Network as Nanozyme Labels. <i>Electroanalysis</i> , 2023, 35, .	1.5	1
636	Aptamer-Modified Au Nanoparticles: Functional Nanozyme Bioreactors for Cascaded Catalysis and Catalysts for Chemodynamic Treatment of Cancer Cells. <i>ACS Nano</i> , 2022, 16, 18232-18243.	7.3	32
637	Lighting Up Agricultural Sustainability in the New Era through Nanozymology: An Overview of Classifications and Their Agricultural Applications. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 13445-13463.	2.4	11
638	The single-atom iron nanozyme mimicking peroxidase remodels energy metabolism and tumor immune landscape for synergistic chemodynamic therapy and photothermal therapy of triple-negative breast cancer. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	1
639	A Defect-Engineered Nanozyme for Targeted NIR Photothermal Immunotherapy of Cancer. <i>Advanced Materials</i> , 2024, 36, .	11.1	27
640	Cupric Oxide Nanozymes for Biomedical Applications. <i>ACS Symposium Series</i> , 0, , 117-133.	0.5	1
641	In situ controllable growth of Ag particles on paper for smartphone optical sensing of Hg ²⁺ based on nanozyme activity stimulation. <i>Talanta</i> , 2023, 253, 124055.	2.9	10
642	On-site Quantification and Infection Risk Assessment of Airborne SARS-CoV-2 Virus Via a Nanoplasmonic Bioaerosol Sensing System in Healthcare Settings. <i>Advanced Science</i> , 2022, 9, .	5.6	6
643	Atomically-precise Au ₂₄ Ag ₁ Clusterzymes with Enhanced Peroxidase-like Activity for Bioanalysis. <i>Chemical Research in Chinese Universities</i> , 0, , .	1.3	3
644	Multibranching Au-Ag-Pt Nanoparticle as a Nanozyme for the Colorimetric Assay of Hydrogen Peroxide and Glucose. <i>ACS Omega</i> , 2022, 7, 40973-40982.	1.6	11
645	Enzyme-inspired dry-powder polymeric catalyst for green and fast pharmaceutical manufacturing processes. <i>Catalysis Communications</i> , 2022, 172, 106537.	1.6	4
646	CeO ₂ @NC nanozyme with robust dephosphorylation ability of phosphotriester: A simple colorimetric assay for rapid and selective detection of paraoxon. <i>Biosensors and Bioelectronics</i> , 2023, 220, 114841.	5.3	67
647	Enzyme mimic nanomaterials as nanozymes with catalytic attributes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2023, 221, 112950.	2.5	24
648	Carbon-based nanozymes: Design, catalytic mechanism, and bioapplication. <i>Coordination Chemistry Reviews</i> , 2023, 475, 214896.	9.5	55
649	Supramolecular assembly of benzophenone alanine and copper presents high laccase-like activity for the degradation of phenolic pollutants. <i>Journal of Hazardous Materials</i> , 2023, 443, 130198.	6.5	8
650	Single-atom Rh nanozyme: An efficient catalyst for highly sensitive colorimetric detection of acetylcholinesterase activity and adrenaline. <i>Sensors and Actuators B: Chemical</i> , 2023, 375, 132972.	4.0	16
651	Recent Advances of Metal-Organic Frameworks-based Nanozymes for Bio-applications. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1324-1343.	1.3	10
652	Choline oxidase immobilized onto hierarchical porous metal-organic framework: biochemical characterization and ultrasensitive choline bio-sensing. <i>Journal of the Iranian Chemical Society</i> , 2023, 20, 563-576.	1.2	2

#	ARTICLE	IF	CITATIONS
653	MOFs and MOF-Derived Materials for Antibacterial Application. <i>Journal of Functional Biomaterials</i> , 2022, 13, 215.	1.8	36
654	Single-atom nanozymes: From bench to bedside. <i>Nano Research</i> , 2023, 16, 1992-2002.	5.8	23
655	Penetration and translocation of functional inorganic nanomaterials into biological barriers. <i>Advanced Drug Delivery Reviews</i> , 2022, 191, 114615.	6.6	20
656	Single-Atom Catalysts with Ultrahigh Catalase-Like Activity Through Electron Filling and Orbital Energy Regulation. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	19
657	Targeted Therapy of Atherosclerosis Vulnerable Plaque by ROS-Scavenging Nanoparticles and MR/Fluorescence Dual-Modality Imaging Tracing. <i>International Journal of Nanomedicine</i> , 0, Volume 17, 5413-5429.	3.3	6
658	Strategies to improve drug penetration into tumor microenvironment by nanoparticles: Focus on nanozymes. <i>OpenNano</i> , 2022, 8, 100100.	1.8	1
659	Reactive Oxygen Species- and Cell-Free DNA-Scavenging Mn ₃ O ₄ Nanozymes for Acute Kidney Injury Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 50649-50663.	4.0	20
660	Preparation and Application of Nanozymes with Uricase-Like Activity Based on Molecularly Imprinted Polymers. <i>ChemPlusChem</i> , 2023, 88, .	1.3	3
661	Nanozyme-Engineered Bioglass through Supercharged Interface for Enhanced Anti-Infection and Fibroblast Regulation. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	12
662	Au@Ag nanostructures for the sensitive detection of hydrogen peroxide. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
663	Multifunctional Mesoporous Hollow Cobalt Sulfide Nanoreactors for Synergistic Chemodynamic/Photodynamic/Photothermal Therapy with Enhanced Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 50601-50615.	4.0	8
664	Switchable ROS Scavenger/Generator for MRI-Guided Anti-Inflammation and Anti-Tumor Therapy with Enhanced Therapeutic Efficacy and Reduced Side Effects. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	6
665	Recent advances in near-infrared-II hollow nanoplatforms for photothermal-based cancer treatment. <i>Biomaterials Research</i> , 2022, 26, .	3.2	30
666	Lactate-Oxidase-Instructed Cancer Diagnosis and Therapy. <i>Advanced Materials</i> , 2023, 35, .	11.1	21
667	Biomedical Applications of Microfluidic Devices: A Review. <i>Biosensors</i> , 2022, 12, 1023.	2.3	38
668	Cerium oxide nanoparticles with antioxidative neurorestoration for ischemic stroke. <i>Biomaterials</i> , 2022, 291, 121904.	5.7	35
669	Food-borne melanoidin based peroxidase mimic for the precise detection of total antioxidant capacity. <i>Microchemical Journal</i> , 2023, 184, 108161.	2.3	5
670	A novel metal-organic framework of Co-hemin for portable and visual colorimetric detection of 2,4-dichlorophenoxyacetic acid. <i>Analytical Methods</i> , 2022, 15, 63-69.	1.3	3

#	ARTICLE	IF	CITATIONS
671	Pd@Pt@Ru nanozyme with peroxidase-like activity for the detection of total antioxidant capacity. <i>Analytical Methods</i> , 2022, 15, 8-16.	1.3	3
672	Artificial metalloenzyme with peroxidase-like activity based on periodic mesoporous organosilica with ionic-liquid framework. <i>Microporous and Mesoporous Materials</i> , 2023, 348, 112384.	2.2	0
673	Nanocatalysis meets microfluidics: A powerful platform for sensitive bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2023, 158, 116887.	5.8	10
674	Nanoparticles augment the therapeutic window of RT and immunotherapy for treating cancers: pivotal role of autophagy. <i>Theranostics</i> , 2023, 13, 40-58.	4.6	6
675	MOF-based nanomedicines inspired by structures of natural active components. <i>Nano Today</i> , 2023, 48, 101690.	6.2	17
676	Rational design of trimetallic AgPt@Fe ₃ O ₄ nanozyme for catalyst poisoning-mediated CO colorimetric detection. <i>Biosensors and Bioelectronics</i> , 2023, 223, 115022.	5.3	11
677	A bioinspired copper-based coordination polymer for the detection of pheochromocytoma biomarkers. <i>Talanta</i> , 2023, 255, 124206.	2.9	3
678	Dendritic Silica Nanospheres with Au@Pt Nanoparticles as Nanozymes for Label-Free Colorimetric Hg ²⁺ Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 18885-18893.	2.4	9
679	Modulating Nanozyme-Based Nanomachines via Microenvironmental Feedback for Differential Photothermal Therapy of Orthotopic Gliomas. <i>Advanced Science</i> , 2023, 10, .	5.6	20
680	Nanomaterial-Based Fluorescent Biosensor for Food Safety Analysis. <i>Biosensors</i> , 2022, 12, 1072.	2.3	7
681	Au Nanoparticles on Polydopamine Nanotubes for Enzyme-Like Nanomaterials with Improved Activities. <i>ACS Applied Nano Materials</i> , 2022, 5, 17870-17878.	2.4	7
682	Axial N Ligand-Modulated Ultrahigh Activity and Selectivity Hyperoxide Activation over Single-Atom Nanozymes. <i>Advanced Science</i> , 2023, 10, .	5.6	13
683	Protein trap-engineered metal-organic frameworks for advanced enzyme encapsulation and mimicking. <i>Nano Research</i> , 2023, 16, 3364-3371.	5.8	9
684	Reductive damage induced autophagy inhibition for tumor therapy. <i>Nano Research</i> , 2023, 16, 5226-5236.	5.8	4
685	Dual-responsive disassembly of core-shell nanoparticles with self-supplied H ₂ O ₂ and autocatalytic Fenton reaction for enhanced chemodynamic therapy. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	13
686	Single-atom nanozymes towards central nervous system diseases. <i>Nano Research</i> , 2023, 16, 5121-5139.	5.8	4
687	Piezoelectric-Augmented and Photocatalytic Nanozyme Integrated Microneedles for Antibacterial and Anti-Inflammatory Combination Therapy. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	30
688	A novel TMD-based peroxidase-mimicking nanozyme: From naked eye detection of leukocytosis-related diseases to sensing different bioanalytes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 290, 122260.	2.0	3

#	ARTICLE	IF	CITATIONS
689	Introducing Nanozymes: New Horizons in Periodontal and Dental Implant Care. <i>ChemBioChem</i> , 2023, 24, .	1.3	2
690	Biosynthesis of nanocrystalline silver chloride with high antibacterial activity using bacterial extracts. , 2023, 2, 88-96.		2
691	Maneuvering the Peroxidase-Like Activity of Palladium-Based Nanozymes by Alloying with Oxophilic Bismuth for Biosensing. <i>Small</i> , 2023, 19, .	5.2	11
692	New horizons for therapeutic applications of nanozymes in oral infection. <i>Particuology</i> , 2023, 80, 61-73.	2.0	4
693	Recent Advances in Nanomaterial-Based Sensing for Food Safety Analysis. <i>Processes</i> , 2022, 10, 2576.	1.3	4
694	Progress and perspectives of platinum nanozyme in cancer therapy. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	3
695	Recent Advances in Nanozymes for Bacteria-Infected Wound Therapy. <i>International Journal of Nanomedicine</i> , 0, Volume 17, 5947-5990.	3.3	13
696	Progress and prospects of nanozymes for enhanced antitumor therapy. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	6
697	Design of Monovalent Cerium-Based Metal Organic Frameworks as Bioinspired Superoxide Dismutase Mimics for Ionizing Radiation Protection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 54587-54597.	4.0	12
698	2D Co ₃ O ₄ modified by IrO ₂ nanozyme for convenient detection of aqueous Fe ²⁺ and intercellular H ₂ O ₂ . <i>Mikrochimica Acta</i> , 2023, 190, .	2.5	7
699	Efficiently targeted therapy of glioblastoma xenograft via multifunctional biomimetic nanodrugs. <i>Biomaterials Research</i> , 2022, 26, .	3.2	4
700	A Novel Signal-On Electrochemiluminescence Immunosensor for the Detection of NSCLC Antigen Biomarker Based on New Co-Reaction Accelerators. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	9
701	Iridium Tungstate Nanozyme-Mediated Hypoxic Regulation and Anti-inflammation for Duplex Imaging Guided Photothermal Therapy of Metastatic Breast Tumors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 56471-56482.	4.0	11
702	Geometric and Electronic Structure-Matched Superoxide Dismutase-Like and Catalase-Like Sequential Single-Atom Nanozymes for Osteoarthritis Recession. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	10
703	Insights into the Effect of Catalytic Intratumoral Lactate Depletion on Metabolic Reprogramming and Immune Activation for Antitumoral Activity. <i>Advanced Science</i> , 2023, 10, .	5.6	17
704	Light-Responsive Carbon Nitride Based Atomic Cu(I) Oxidase Mimics for Dual-Mode Total Antioxidant Capacity Assay. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 17801-17809.	1.8	3
705	Biosystem-Inspired Engineering of Nanozymes for Biomedical Applications. <i>Advanced Materials</i> , 2024, 36, .	11.1	56
706	Self-Driven Electron Transfer Biomimetic Enzymatic Catalysis of Bismuth-Doped PCN-222 MOF for Rapid Therapy of Bacteria-Infected Wounds. <i>ACS Nano</i> , 2023, 17, 1448-1463.	7.3	37

#	ARTICLE	IF	CITATIONS
707	Medical Nanozymes for Therapeutics. <i>Micro/Nano Technologies</i> , 2023, , 285-329.	0.1	0
708	Alternative Copper-Based Single-Atom Nanozyme with Superior Multienzyme Activities and NIR-II Responsiveness to Fight against Deep Tissue Infections. <i>Research</i> , 2023, 6, .	2.8	19
709	Downregulation of Peroxidase Activity of Platinum Cube Enables Minuteâ€œTime Scale Colorimetric Signaling of Hypoxanthine for Fish Freshness Monitoring. <i>Foods</i> , 2023, 12, 291.	1.9	2
710	Design of carbon dots as nanozymes to mediate redox biological processes. <i>Journal of Materials Chemistry B</i> , 2023, 11, 5071-5082.	2.9	6
711	Zeroâ€œValence Seleniumâ€œEnriched Prussian Blue Nanozymes Reconstruct Intestinal Barrier against Inflammatory Bowel Disease via Inhibiting Ferroptosis and T Cells Differentiation. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	13
712	Activity Regulating Strategies of Nanozymes for Biomedical Applications. <i>Small</i> , 2023, 19, .	5.2	24
713	The recent development of nanozymes for targeting antibacterial, anticancer and antioxidant applications. <i>RSC Advances</i> , 2023, 13, 1539-1550.	1.7	8
714	Cerium Oxide Nanoparticlesâ€œBased Optical Biosensors for Biomedical Applications. , 2023, 2, .		5
715	Versatile carbon dots with superoxide dismutase-like nanozyme activity and red fluorescence for inflammatory bowel disease therapeutics. <i>Carbon</i> , 2023, 204, 526-537.	5.4	26
716	Laser-induced graphene (LIG)-based Au@CuO/V2CTx MXene non-enzymatic electrochemical sensors for the urine glucose test. <i>Chemical Engineering Journal</i> , 2023, 457, 141303.	6.6	30
717	Advances in antioxidative nanozymes for treating ischemic stroke. <i>Engineered Regeneration</i> , 2023, 4, 95-102.	3.0	2
718	IrO ₂ clusters loaded on dendritic mesoporous silica nanospheres with superior peroxidase-like activity for sensitive detection of acetylcholinesterase and its inhibitors. <i>Journal of Colloid and Interface Science</i> , 2023, 635, 481-493.	5.0	4
719	Engineering magnetic nano-manipulators for boosting cancer immunotherapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	9
720	Aâ€œpHâ€œActivatable Copperâ€œBiomaterialized Proenzyme for Synergistic Chemodynamic/Chemoâ€œImmunotherapy against Aggressive Cancers. <i>Advanced Materials</i> , 2023, 35, .	11.1	19
721	Messenger Nanozyme for Reprogramming the Microenvironment of Rheumatoid Arthritis. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 338-353.	4.0	11
722	Determination Methods of the Risk Factors in Food Based on Nanozymes: A Review. <i>Biosensors</i> , 2023, 13, 69.	2.3	6
723	High-Indexed Intermetallic Pt ₃ Sn Nanozymes with High Activity and Specificity for Sensitive Immunoassay. <i>Nano Letters</i> , 2023, 23, 267-275.	4.5	20
724	Synthesis of iron oxide nanoparticles, characterization, uses as nanozyme and future prospects. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2022, 11, 156-167.	0.7	2

#	ARTICLE	IF	CITATIONS
726	Glutathione peroxidase-like nanozymes: mechanism, classification, and bioapplication. <i>Biomaterials Science</i> , 2023, 11, 2292-2316.	2.6	10
727	Pore-Environment-Dependent Photoresponsive Oxidase-Like Activity in Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie</i> , 0, , .	1.6	1
728	Bioinspired Coassembly of Copper Ions and Nicotinamide Adenine Dinucleotides for Single-Site Nanozyme with Dual Catalytic Functions. <i>Analytical Chemistry</i> , 2023, 95, 2865-2873.	3.2	19
729	Single Copper Atom Photocatalyst Powers an Integrated Catalytic Cascade for Drug-Resistant Bacteria Elimination. <i>ACS Nano</i> , 2023, 17, 2980-2991.	7.3	23
730	Colorimetric platform based on synergistic effect between bacteriophage and AuPt nanozyme for determination of <i>Yersinia pseudotuberculosis</i> . <i>Mikrochimica Acta</i> , 2023, 190, .	2.5	3
731	Ceria Nanoparticles as Copper Chaperones that Activate SOD1 for Synergistic Antioxidant Therapy to Treat Ischemic Vascular Diseases. <i>Advanced Materials</i> , 2023, 35, .	11.1	8
732	Dual-Enzyme Cascade Composed of Chitosan Coated FeS ₂ Nanozyme and Glucose Oxidase for Sensitive Glucose Detection. <i>Molecules</i> , 2023, 28, 1357.	1.7	5
733	Pore-Environment-Dependent Photoresponsive Oxidase-Like Activity in Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	21
734	Multi-stimuli responsive Cu-MOFs@Keratin drug delivery system for chemodynamic therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	2
735	Two-Dimensional Ultrathin CeVO ₄ Nanozyme: Fabricated through Non-Oxidic Material. <i>ACS Omega</i> , 2023, 8, 6931-6939.	1.6	4
736	Constructing a novel strategy for one-step colorimetric glucose biosensing based on Co-Nx sites on porous carbon as oxidase mimetics. <i>Microchemical Journal</i> , 2023, 188, 108448.	2.3	5
737	One-pot hydrothermal synthesis of metal-doped carbon dot nanozymes using protein cages as precursors. <i>RSC Advances</i> , 2023, 13, 6760-6767.	1.7	1
738	Recent advancement in nanomaterial-encapsulated drug delivery vehicles for combating cancer, COVID-19, and HIV-like chronic diseases. <i>Materials Advances</i> , 2023, 4, 2042-2061.	2.6	2
739	Multi-enzyme mimics "cracking the code of subcellular cascade reactions and their potential biological applications. <i>Materials Chemistry Frontiers</i> , 2023, 7, 3037-3072.	3.2	1
740	RhRu Alloy-Anchored MXene Nanozyme for Synergistic Osteosarcoma Therapy. <i>Small</i> , 2023, 19, .	5.2	16
741	Degradation of Tetracycline Using a Magnetic Gadolinium-Decorated Nanoplatform: A Peroxidase Biomimetic System with Fenton-Like Catalysis. <i>Water (Switzerland)</i> , 2023, 15, 1419.	1.2	0
742	Rapid in-situ growth of enzyme-mimicking Pd nanoparticles on TEMPO-oxidized nanocellulose for the efficient detection of ascorbic acid. <i>International Journal of Biological Macromolecules</i> , 2023, 234, 123657.	3.6	0
743	Dual-mode fluorescence and colorimetric determination of acetylcholinesterase accomplished by BSA-MnO ₂ QDs with oxidase-mimetic activity. <i>Sensors and Actuators B: Chemical</i> , 2023, 382, 133503.	4.0	7

#	ARTICLE	IF	CITATIONS
744	Polyhedral MnSe microparticles with specific Hg ²⁺ -suppressed oxidase-like activity: Toward a green and low-cost turn-off method for Hg ²⁺ detection. <i>Sensors and Actuators B: Chemical</i> , 2023, 382, 133539.	4.0	7
745	Rapid colorimetric detection of H ₂ O ₂ in living cells and its upstream series of molecules based on oxidase-like activity of CoMnO ₃ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2023, 382, 133540.	4.0	13
746	Oxygen vacancy-enhanced catalytic activity of hyaluronic acid covered-biomineralization nanozyme for reactive oxygen species-augmented antitumor therapy. <i>International Journal of Biological Macromolecules</i> , 2023, 236, 124003.	3.6	6
747	Recent progress on nanozymes in electrochemical sensing. <i>Journal of Electroanalytical Chemistry</i> , 2023, 936, 117391.	1.9	3
748	Citrate-functionalized osmium nanoparticles with peroxidase-like specific activity for highly efficient degradation of phenolic pollutants. <i>Chemical Engineering Journal</i> , 2023, 464, 142726.	6.6	13
749	Triple-enzyme-mimicking AuPt ₃ Cu hetero-structural alloy nanozymes towards cascade reactions in chemodynamic therapy. <i>Chemical Engineering Journal</i> , 2023, 463, 142494.	6.6	5
750	A portable 3D-printed pretreatment device combined with graded lateral flow assay for detection of <i>S. aureus</i> . <i>Sensors and Actuators B: Chemical</i> , 2023, 383, 133601.	4.0	3
751	A colorimetric and photothermal dual-mode biosensing platform based on nanozyme-functionalized flower-like DNA structures for tumor-derived exosome detection. <i>Talanta</i> , 2023, 258, 124456.	2.9	13
752	Study on hydrolase mechanism of copper compound nanoparticles and its application in the evaluation of gut bacteria in aquatic environment. <i>Applied Catalysis B: Environmental</i> , 2023, 330, 122639.	10.8	1
753	Inorganic nanoparticles as scaffolds for bioorthogonal catalysts. <i>Advanced Drug Delivery Reviews</i> , 2023, 195, 114730.	6.6	16
754	Cauliflower-like platinum nanostructures mediated photothermal and colorimetric dual-readout biosensor for sensitive cholesterol detection. <i>Sensors and Actuators B: Chemical</i> , 2023, 386, 133741.	4.0	9
755	A three-site recognition cytosensor based on multi-active AuIrPt polyhedral nanozymes for detection of CTCs. <i>Sensors and Actuators B: Chemical</i> , 2023, 386, 133762.	4.0	4
756	Versatile FeMoO _v nanozyme bipolar electrode electrochemiluminescence biosensing and imaging platform for detection of H ₂ O ₂ and PSA. <i>Biosensors and Bioelectronics</i> , 2023, 232, 115315.	5.3	9
757	Miniaturized Microfluidic Electrochemical Biosensors Powered by Enzymatic Biofuel Cell. <i>Biosensors</i> , 2023, 13, 175.	2.3	2
758	Advances in Nanozymes as a Paradigm for Viral Diagnostics and Therapy. <i>Pharmacological Reviews</i> , 2023, 75, 739-757.	7.1	3
759	Biomimetic gold nanomaterials for biosensing, bioimaging and biotherapy: a mini-review. <i>Sensors & Diagnostics</i> , 2023, 2, 320-336.	1.9	4
760	BSA-templated synthesis of Ir/Gd bimetallic oxide nanotheranostics for MR/CT imaging-guided photothermal and photodynamic synergistic therapy. <i>Nanoscale</i> , 2023, 15, 4457-4468.	2.8	6
761	Adsorption and Inactivation of SARS-CoV-2 on the Surface of Anatase TiO ₂ (101). <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 8770-8782.	4.0	4

#	ARTICLE	IF	CITATIONS
762	Immobilized Enzyme-based Novel Biosensing System for Recognition of Toxic Elements in the Aqueous Environment. <i>Topics in Catalysis</i> , 2023, 66, 606-624.	1.3	5
763	A Thrombin-Activated Peptide-Templated Nanozyme for Remedying Ischemic Stroke via Thrombolytic and Neuroprotective Actions. <i>Advanced Materials</i> , 2024, 36, .	11.1	33
764	Regulating the N Coordination Environment of Co Single-Atom Nanozymes for Highly Efficient Oxidase Mimics. <i>Nano Letters</i> , 2023, 23, 1505-1513.	4.5	46
765	Integrating Pt nanoparticles with carbon nanodots to achieve robust cascade superoxide dismutase-catalase nanozyme for antioxidant therapy. <i>Nano Today</i> , 2023, 49, 101768.	6.2	23
766	Smart Biomimetic Nanozymes for Precise Molecular Imaging: Application and Challenges. <i>Pharmaceuticals</i> , 2023, 16, 249.	1.7	3
767	Nanosystems for oxidative stress regulation in the anti-inflammatory therapy of acute kidney injury. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	3
768	Molecular insights of nanozymes from design to catalytic mechanism. <i>Science China Chemistry</i> , 2023, 66, 1318-1335.	4.2	13
769	Recent advances and challenges in developing electrochemiluminescence biosensors for health analysis. <i>Chemical Communications</i> , 2023, 59, 3507-3522.	2.2	15
770	Enhanced Peroxidase-Like and Antibacterial Activity of Ir-Coated Pd-Pt Nanodendrites as Nanozyme. <i>Bioinorganic Chemistry and Applications</i> , 2023, 2023, 1-10.	1.8	3
771	Ceria-Based Therapeutic Antioxidants for Biomedical Applications. <i>Advanced Materials</i> , 2024, 36, .	11.1	14
772	Emerging antibacterial nanozymes for wound healing. , 2023, 2, .		14
773	Reduction of Reactive Oxygen Species Accumulation Using Gadolinium-Doped Ceria for the Alleviation of Atherosclerosis. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 10414-10425.	4.0	8
774	Co ₃ O ₄ /CoFe ₂ O ₄ Hollow Nanocube Multifunctional Nanozyme with Oxygen Vacancies for Deep-Learning-Assisted Smartphone Biosensing and Organic Pollutant Degradation. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 11787-11801.	4.0	21
776	Multienzyme-Like Nanozymes: Regulation, Rational Design, and Application. <i>Advanced Materials</i> , 2024, 36, .	11.1	43
777	A cascade nanoreactor for enhancing sonodynamic therapy on colorectal cancer via synergistic ROS augment and autophagy blockage. <i>Nano Today</i> , 2023, 49, 101798.	6.2	25
778	Full reaction mechanism of hydrogen peroxide catalyzed by reductive CoP nanoparticles: the enzyme-like activity. <i>Science China Chemistry</i> , 2023, 66, 1221-1227.	4.2	3
779	Biobased enzymes for environmental remediation. , 2023, , 323-348.		0
780	Oxygen-generating biocatalytic nanomaterials for tumor hypoxia relief in cancer radiotherapy. <i>Journal of Materials Chemistry B</i> , 2023, 11, 3071-3088.	2.9	5

#	ARTICLE	IF	CITATIONS
781	Development of Nanocarrier-Based Radionuclide and Photothermal Therapy in Combination with Chemotherapy in Melanoma Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 13460-13471.	4.0	6
782	Transition Metal-Based Therapies for Inflammatory Diseases. <i>Advanced Materials</i> , 2023, 35, .	11.1	3
783	The effect of using albumin-perfluorohexane/cisplatin-magnetite nanoparticles produced by hydrothermal method against gastric cancer cells through combination therapy. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104758.	2.3	1
784	Palladium/Rhodium/Iridium Trimetallic Octahedral Nanozymes Exhibiting Enhanced Peroxidase-like Activity for Detecting Total Antioxidant Capacity in Food. <i>ACS Applied Nano Materials</i> , 2023, 6, 4288-4296.	2.4	4
785	Enzyme-Regulated In Situ Formation of Copper Hexacyanoferrate Nanoparticles with Oxidase-Mimetic Behaviour for Colorimetric Detection of Ascorbate Oxidase. <i>Biosensors</i> , 2023, 13, 344.	2.3	2
786	Applications of nanomaterials in dentistry: A review. <i>Journal of International Society of Preventive and Community Dentistry</i> , 2023, 13, 32.	0.4	3
787	Vanadium Oxide Nanozymes with Multiple Enzyme-Mimic Activities for Tumor Catalytic Therapy. <i>ACS Applied Materials & Interfaces</i> , 0, , .	4.0	0
788	Engineered inhalable nanocatalytic therapeutics for Parkinson's disease by inducing mitochondrial autophagy. <i>Materials and Design</i> , 2023, 228, 111808.	3.3	1
789	Enhancing catalytic efficiency of carbon dots by modulating their Mn doping and chemical structure with metal salts. <i>RSC Advances</i> , 2023, 13, 8996-9002.	1.7	2
790	Copper-induced synthesis of versatile FeOx nanozymes for catalytic cancer therapy. <i>Journal of Materials Science</i> , 2023, 58, 5773-5787.	1.7	0
791	Copper-based nanomaterials as peroxidase candidates for intelligent colorimetric detection and antibacterial applications. <i>Particuology</i> , 2024, 84, 126-135.	2.0	5
792	Recent progress of nanozymes with different spatial dimensions for bioanalysis. <i>Materials Today Nano</i> , 2023, 22, 100330.	2.3	7
793	Plaque Macrophage-Targeting Nanosystems with Cooperative Co-Regulation of ROS and TRAF6 for Stabilization of Atherosclerotic Plaques. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	6
794	Nanozyme-Based Regulation of Cellular Metabolism and Their Applications. <i>Advanced Materials</i> , 2024, 36, .	11.1	7
795	Coupling Bifunctional Nanozyme-Mediated Catalytic Signal Amplification and Label-Free SERS with Immunoassays for Ultrasensitive Detection of Pathogens in Milk Samples. <i>Analytical Chemistry</i> , 2023, 95, 6417-6424.	3.2	11
796	Chiral Ruthenium Nanozymes with Self-Cascade Reaction Driven the NO Generation Induced Macrophage M1 Polarization Realizing the Lung Cancer "Cocktail Therapy". <i>Small</i> , 2023, 19, .	5.2	10
797	Recent Advances in the Application of Nanozymes in Amperometric Sensors: A Review. <i>Chemosensors</i> , 2023, 11, 233.	1.8	1
798	Porous-nanozyme-based colorimetric sensor for rapid detection of kanamycin in foods under neutral condition. <i>Journal of Food Science</i> , 2023, 88, 2009-2022.	1.5	4

#	ARTICLE	IF	CITATIONS
799	Engineering Single-Atom Nanozymes for Catalytic Biomedical Applications. <i>Small</i> , 2023, 19, .	5.2	18
800	Engineering a new member of MXenes M ₅ C ₄ phases nanoplatforms as synergistically photothermal and chemodynamic therapeutics for methicillin-resistant <i>Staphylococcus aureus</i> . <i>Chemical Engineering Journal</i> , 2023, 466, 143004.	6.6	9
801	Coordination-Driven One-Step Rapid Self-Assembly Synthesis of Dual-Functional Ag@Pt Nanozyme. <i>Small</i> , 2023, 19, .	5.2	10
802	Single-atom nanozymes as promising catalysts for biosensing and biomedical applications. <i>Inorganic Chemistry Frontiers</i> , 2023, 10, 4289-4312.	3.0	4
803	Antioxidant and Prooxidant Nanozymes: From Cellular Redox Regulation to Next-Generation Therapeutics. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	16
804	Antioxidant and Prooxidant Nanozymes: From Cellular Redox Regulation to Next-Generation Therapeutics. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	4
805	Aptamer-Modified Homogeneous Catalysts, Heterogenous Nanoparticle Catalysts, and Photocatalysts: Functional "Nucleoapzymes", "Aptananozymes", and "Photoapzymes". <i>Advanced Materials</i> , 2024, 36, .	11.1	4
813	Molecular-Based FRET Nanosensor with Dynamic Ratiometric NIR-IIb Fluorescence for Real-Time <i>In Vivo</i> Imaging and Sensing. <i>Nano Letters</i> , 2023, 23, 4548-4556.	4.5	8
824	Plastic degradation "contemporary enzymes versus nanozymes-based technologies. , 2023, , 127-149.		0
833	A photoresponsive gold catalyst based on azobenzene-functionalized NHC ligands. <i>Chemical Communications</i> , 0, , .	2.2	0
847	Nanozymes: A Potent and Powerful Peroxidase Substitute to Treat Tumour Hypoxia. , 2023, , 367-382.		0
852	Nano-enabled strategies to enhance biological nitrogen fixation. <i>Nature Nanotechnology</i> , 2023, 18, 688-691.	15.6	11
860	Development of nanozyme based sensors as diagnostic tools in clinic applications: a review. <i>Journal of Materials Chemistry B</i> , 2023, 11, 6762-6781.	2.9	6
863	Recent progress in MOFs-based nanozymes for biosensing. <i>Nano Research</i> , 2024, 17, 39-64.	5.8	4
864	Stimuli-responsive nanozymes for biomedical applications. <i>Biomaterials Science</i> , 2023, 11, 5769-5780.	2.6	2
865	Nanozyme: a rising star for cancer therapy. <i>Nanoscale</i> , 2023, 15, 12455-12463.	2.8	6
869	Single-atom catalysts: promoters of highly sensitive and selective sensors. <i>Chemical Society Reviews</i> , 2023, 52, 5088-5134.	18.7	9
870	Metal nanozymes with multiple catalytic activities: regulating strategies and biological applications. <i>Rare Metals</i> , 2023, 42, 2928-2948.	3.6	8

#	ARTICLE	IF	CITATIONS
893	Nucleic acid-functionalized nanozymes and their applications. <i>Nanoscale</i> , 0, , .	2.8	0
905	Nanoenzyme-Based Electrodes in Biomolecular Screening and Analysis. , 2023, , 483-497.		0
907	Infected wound repair with an ultrasound-enhanced nanozyme hydrogel scaffold. <i>Materials Horizons</i> , 2023, 10, 5474-5483.	6.4	2
911	Antioxidant nanozymes in kidney injury: mechanism and application. <i>Nanoscale</i> , 2023, 15, 13148-13171.	2.8	0
912	Single-atom nanozymes: classification, regulation strategy, and safety concerns. <i>Journal of Materials Chemistry B</i> , 2023, 11, 9840-9866.	2.9	2
913	Enhancing electrochemical sensing through the use of functionalized graphene composites as nanozymes. <i>Nanoscale</i> , 2023, 15, 16514-16538.	2.8	0
927	Reactive oxygen nanobiocatalysts: activity-mechanism disclosures, catalytic center evolutions, and changing states. <i>Chemical Society Reviews</i> , 2023, 52, 6838-6881.	18.7	3
932	Regulating Nanozymes for Bioanalysis. , 2023, , 15-44.		0
935	Recent Mechanistic Insights into Some Enzyme Mimetic Functions of Ceria. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2024, , 201-229.	0.6	0
936	Catalase-Like Nanozymes and Their Applications in Alleviating Tumor Hypoxia for the Therapeutic Enhancement. <i>IFMBE Proceedings</i> , 2024, , 309-323.	0.2	0
940	Importance of Manganese-Based Advanced Nanomaterial for Foliar Application. <i>Journal of Cluster Science</i> , 2024, 35, 391-403.	1.7	0
952	Microbial nanoenzymes: Features and applications. , 2024, , 353-367.		2
954	Nanozymes for Prooxidative Therapy. , 2023, , 165-198.		0
966	Nanomaterials in Lateral Flow Assay. , 2024, , 49-81.		0
971	On-site airborne pathogen detection for infection risk mitigation. <i>Chemical Society Reviews</i> , 2023, 52, 8531-8579.	18.7	1
975	An emerging direction for nanozyme design: from single-atom to dual-atomic-site catalysts. <i>Nanoscale</i> , 2023, 15, 18173-18183.	2.8	2
978	Deep Insight of Design, Mechanism, and Cancer Theranostic Strategy of Nanozymes. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	2
1004	Nanozymes as Catalytic Marvels for Biomedical and Environmental Concerns: A Chemical Engineering Approach. <i>Journal of Cluster Science</i> , 2024, 35, 715-740.	1.7	0

#	ARTICLE	IF	CITATIONS
1020	Advances in colorimetric biosensors of exosomes: novel approaches based on natural enzymes and nanozymes. <i>Nanoscale</i> , 0, , .	2.8	0
1027	Electrocatalysts in biosensors. <i>Chemical Papers</i> , 2024, 78, 2101-2122.	1.0	0
1046	Nanozyme-enhanced ferroptosis for cancer treatment. <i>Materials Chemistry Frontiers</i> , 2024, 8, 1685-1702.	3.2	0
1058	Nanosensors for point-of-care diagnosis. , 2024, , 101-129.		0
1061	Nanocatalysts for modulating antitumor immunity: fabrication, mechanisms and applications. <i>Chemical Society Reviews</i> , 2024, 53, 2643-2692.	18.7	0
1063	Nanozyme-Engineered Hydrogels for Anti-Inflammation and Skin Regeneration. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	1
1082	Cerium Oxide Nanoparticles for Biomedical Applications. <i>Nanotechnology in the Life Sciences</i> , 2024, , 175-200.	0.4	0