

Nanomaterials with enzyme-like characteristics (nanozymes) (II)

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Citation Report

#	ARTICLE	IF	CITATIONS
2	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
3	Robust Colorimetric Detection of Cu ²⁺ by Excessed Nucleotide Coordinated Nanozymes. <i>Journal of Analysis and Testing</i> , 2019, 3, 260-268.	2.5	13
4	DNA nanotetrahedron-assisted electrochemical aptasensor for cardiac troponin I detection based on the co-catalysis of hybrid nanozyme, natural enzyme and artificial DNAzyme. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111578.	5.3	83
5	Metal and metal-oxide nanozymes: bioenzymatic characteristics, catalytic mechanism, and eco-environmental applications. <i>Nanoscale</i> , 2019, 11, 15783-15793.	2.8	78
6	Fluorescence Resonance Energy Transfer-Mediated Immunosensor Based on Design and Synthesis of the Substrate of Amp Cephalosporinase for Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 11316-11323.	3.2	10
7	Mixed-Valence Ce-BPyDC Metal-Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. <i>Inorganic Chemistry</i> , 2019, 58, 11382-11388.	1.9	89
8	Bifunctional Hybrid Enzyme-Catalytic Metal Organic Framework Reactors for α -Glucosidase Inhibitor Screening. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32769-32777.	4.0	61
9	Selenium nanoparticles as new strategy to potentiate γ -T cell anti-tumor cytotoxicity through upregulation of tubulin- α acetylation. <i>Biomaterials</i> , 2019, 222, 119397.	5.7	73
10	Fe ^{II} -N ³ -C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019, 91, 11994-11999.	3.2	256
11	Dynamic interactions between peroxidase-mimic silver NanoZymes and chlorpyrifos-specific aptamers enable highly-specific pesticide sensing in river water. <i>Analytica Chimica Acta</i> , 2019, 1083, 157-165.	2.6	73
12	Counter Anion-Directed Growth of Iron Oxide Nanorods in a Polyol Medium with Efficient Peroxidase-Mimicking Activity for Degradation of Dyes in Contaminated Water. <i>ACS Omega</i> , 2019, 4, 13153-13164.	1.6	26
13	Highly sensitive and specific colorimetric detection of phosphate by using Zr(μ_3) to synergistically suppress the peroxidase-mimicking activity of hydrophilic Fe ₃ O ₄ nanocubes. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126822.	4.0	45
14	Ru(III)-Based Metal-Organic Gels: Intrinsic Horseradish and NADH Peroxidase-Mimicking Nanozyme. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29158-29166.	4.0	55
15	Electrospun Au nanoparticle-containing ZnO nanofiber for non-enzyme H ₂ O ₂ sensor. <i>Ionics</i> , 2019, 25, 5527-5536.	1.2	12
16	Fluorescent Graphitic Carbon Nitride-Based Nanozymes with Peroxidase-Like Activities for Ratiometric Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 10648-10656.	3.2	139
17	Zinc-Doped Mesoporous Graphitic Carbon Nitride for Colorimetric Detection of Hydrogen Peroxide. <i>ACS Applied Nano Materials</i> , 2019, 2, 5156-5168.	2.4	41
18	Light-enhanced sponge-like carbon nanozyme used for synergetic antibacterial therapy. <i>Biomaterials Science</i> , 2019, 7, 4131-4141.	2.6	74
19	Self-Indicative Gold Nanozyme for H ₂ O ₂ and Glucose Sensing. <i>Chemistry - A European Journal</i> , 2019, 25, 11940-11944.	1.7	59

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20	Gold nanoparticles as dehydrogenase mimicking nanozymes for estradiol degradation. <i>Chinese Chemical Letters</i> , 2019, 30, 1655-1658.	4.8	33
21	Unprecedented peroxidase-mimicking activity of single-atom nanozyme with atomically dispersed Fe ^x N _x moieties hosted by MOF derived porous carbon. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111495.	5.3	186
22	Nanocatalytic Medicine. <i>Advanced Materials</i> , 2019, 31, e1901778.	11.1	396
23	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti ₃ (Al _x Cu _{1-x})C ₂ and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , 2019, 13, 9198-9205.	7.3	59
24	AuPt/MOF@Graphene: A Synergistic Catalyst with Surprisingly High Peroxidase-Like Activity and Its Application for H ₂ O ₂ Detection. <i>Analytical Chemistry</i> , 2019, 91, 10589-10595.	3.2	102
25	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. <i>Chemical Communications</i> , 2019, 55, 9865-9868.	2.2	85
26	Label-free colorimetric detection of deoxyribonuclease I activity based on the DNA-enhanced peroxidase-like activity of MIL-53(Fe). <i>New Journal of Chemistry</i> , 2019, 43, 12776-12784.	1.4	20
27	A calix[4]arene with acylguanidine units as an efficient catalyst for phosphodiester bond cleavage in RNA and DNA model compounds. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7482-7492.	1.5	21
28	<p>Thermodynamics and kinetic analysis of carbon nanofibers as nanozymes</p>. <i>Nanotechnology, Science and Applications</i> , 2019, Volume 12, 3-10.	4.6	9
29	Bioinspired hierarchical CoAl-LDH/MFe ₂ O ₄ (Ni, Zn, Co) as peroxidase mimics for colorimetric detection of glucose. <i>Applied Clay Science</i> , 2019, 181, 105238.	2.6	24
30	Highly sensitive colorimetric detection of arsenite based on reassembly-induced oxidase-mimicking activity inhibition of dithiothreitol-capped Pd nanozyme. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126876.	4.0	62
31	Nanozymes-Engineered Metal-Organic Frameworks for Catalytic Cascades-Enhanced Synergistic Cancer Therapy. <i>Nano Letters</i> , 2019, 19, 5674-5682.	4.5	259
32	One-step synthesis of cross-linked and hollow microporous organic-inorganic hybrid nanoreactors for selective redox reactions. <i>Nanoscale</i> , 2019, 11, 15017-15022.	2.8	5
33	Biomimetic Mineralization of Cytochrome c Improves the Catalytic Efficiency and Confers a Functional Multi-Enzyme Composite. <i>Catalysts</i> , 2019, 9, 648.	1.6	5
34	Rational Design of Artificial Metalloproteins and Metalloenzymes with Metal Clusters. <i>Molecules</i> , 2019, 24, 2743.	1.7	29
35	Porous Ruthenium Selenide Nanoparticle as a Peroxidase Mimic for Glucose Bioassay. <i>Journal of Analysis and Testing</i> , 2019, 3, 253-259.	2.5	14
36	Nanozymes: From New Concepts, Mechanisms, and Standards to Applications. <i>Accounts of Chemical Research</i> , 2019, 52, 2190-2200.	7.6	914
37	A dual-mode colorimetric sensor based on copper nanoparticles for the detection of mercury(II) ions. <i>Analytical Methods</i> , 2019, 11, 4014-4021.	1.3	22

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38	PdPt bimetallic nanowires with efficient oxidase mimic activity for the colorimetric detection of acid phosphatase in acidic media. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4561-4567.	2.9	43
39	Bifunctional MIL-53(Fe) with pyrophosphate-mediated peroxidase-like activity and oxidation-stimulated fluorescence switching for alkaline phosphatase detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4794-4800.	2.9	68
40	Peroxidase Mimic Activity of Au@Ag/Cys-rGO Nanozyme toward Detection of Cr(VI) Ion in Water: Role of 3,3',5,5'-Tetramethylbenzidine Adsorption. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4977-4990.	1.0	34
41	Spatially Engineered Janus Hybrid Nanozyme toward SERS Liquid Biopsy at Nano/Microscales. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41979-41987.	4.0	27
42	Oxygen Vacancy-Engineered PEGylated MoO ₃ Nanoparticles with Superior Sulfite Oxidase Mimetic Activity for Vitamin B1 Detection. <i>Small</i> , 2019, 15, e1903153.	5.2	41
43	A review of current advances in the detection of organophosphorus chemical warfare agents based biosensor approaches. <i>Sensing and Bio-Sensing Research</i> , 2019, 26, 100305.	2.2	47
44	Synthesis and Application of CeO ₂ /SnS ₂ Heterostructures as a Highly Efficient Coreaction Accelerator in the Luminol-Dissolved O ₂ System for Ultrasensitive Biomarkers Immunoassay. <i>Analytical Chemistry</i> , 2019, 91, 14066-14073.	3.2	71
45	Electrochemical immunosensor based on Ag ⁺ -dependent CTAB-AuNPs for ultrasensitive detection of sulfamethazine. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111643.	5.3	24
46	In-situ reduction of Ag ⁺ on black phosphorene and its NH ₂ -MWCNT nanohybrid with high stability and dispersibility as nanozyme sensor for three ATP metabolites. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111716.	5.3	60
47	Sensors and biosensors based on metal oxide nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115690.	5.8	78
48	Nanozymes: an emerging field bridging nanotechnology and enzymology. <i>Science China Life Sciences</i> , 2019, 62, 1543-1546.	2.3	37
49	Molybdenum Oxide Nanosheet-Supported Ferrous Ion Artificial Peroxidase for Visual Colorimetric Detection of Triacetone Triperoxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18985-18991.	3.2	13
50	Plasmon-Enhanced Oxidase-Like Activity and Cellular Effect of Pd-Coated Gold Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45416-45426.	4.0	41
51	<i>In Vivo</i> Electrochemical Sensors for Neurochemicals: Recent Update. <i>ACS Sensors</i> , 2019, 4, 3102-3118.	4.0	107
52	N-Doped Carbon As Peroxidase-Like Nanozymes for Total Antioxidant Capacity Assay. <i>Analytical Chemistry</i> , 2019, 91, 15267-15274.	3.2	126
53	Logically Regulating Peroxidase-Like Activity of Gold Nanoclusters for Sensing Phosphate-Containing Metabolites and Alkaline Phosphatase Activity. <i>Analytical Chemistry</i> , 2019, 91, 15017-15024.	3.2	93
54	Mechanism of Alkali Metal Compound-Promoted Growth of Monolayer MoS ₂ : Eutectic Intermediates. <i>Chemistry of Materials</i> , 2019, 31, 873-880.	3.2	59
55	Development and validation a nomogram based on pathological microscopic features to predict survival in nasopharyngeal carcinoma and guide treatment decision. <i>Annals of Oncology</i> , 2019, 30, v471.	0.6	0

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58	Oxidase-Like Fe ^{II} -Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. Small, 2019, 15, e1903108.	5.2	207
59	Self-Assembly of Ferrocene Peptides: A Nonheme Strategy to Construct a Peroxidase Mimic. Advanced Materials Interfaces, 2019, 6, 1901082.	1.9	10
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66	N-Acety-L-Cysteine-Stabilized Pt Nanozyme for Colorimetric Assay of Heparin. Journal of Analysis and Testing, 2019, 3, 277-285.	2.5	6
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68	Critical Comparison of the Superoxide Dismutase-like Activity of Carbon Antioxidant Nanozymes by Direct Superoxide Consumption Kinetic Measurements. ACS Nano, 2019, 13, 11203-11213.	7.3	44
69	Emerging applications of nanozymes in environmental analysis: Opportunities and trends. TrAC - Trends in Analytical Chemistry, 2019, 120, 115653.	5.8	108
71	CuO nanoparticles derived from metal-organic gel with excellent electrocatalytic and peroxidase-mimicking activities for glucose and cholesterol detection. Biosensors and Bioelectronics, 2019, 145, 111704.	5.3	68
72	Smart Plasmonic Nanozyme Enhances Combined Chemo-photothermal Cancer Therapy and Reveals Tryptophan Metabolic Apoptotic Pathway. Analytical Chemistry, 2019, 91, 12203-12211.	3.2	28
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77	Cholesterol-Modified Dendrimers for Constructing a Tumor Microenvironment-Responsive Drug Delivery System. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6072-6081.	2.6	23
78	Recent progress in the construction of nanozyme-based biosensors and their applications to food safety assay. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115668.	5.8	160
79	A manganese oxide nanozyme prevents the oxidative damage of biomolecules without affecting the endogenous antioxidant system. <i>Nanoscale</i> , 2019, 11, 3855-3863.	2.8	100
80	A Phenylalanine Derivative Containing a 4- π Pyridine Group Can Construct Both Single Crystals and a Selective Cu-Ag Bimetallohydrogel. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1349-1353.	1.0	5
81	Fe(III)-Tannic Acid Complex Derived Fe ₃ C Decorated Carbon Nanofibers for Triple-Enzyme Mimetic Activity and Their Biosensing Application. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1238-1246.	2.6	21
82	Multifunctional iron-based Metal-Organic framework as biodegradable nanozyme for microwave enhancing dynamic therapy. <i>Biomaterials</i> , 2019, 214, 119223.	5.7	125
83	Revealing the Active Site of Gold Nanoparticles for the Peroxidase-Like Activity: The Determination of Surface Accessibility. <i>Catalysts</i> , 2019, 9, 517.	1.6	39
84	Reversing Chemoselectivity: Simultaneous Positive and Negative Catalysis by Chemically Equivalent Rims of a Cucurbit[7]uril Host. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11340-11343.	7.2	13
85	Construction of Single-Iron-Atom Nanocatalysts for Highly Efficient Catalytic Antibiotics. <i>Small</i> , 2019, 15, e1901834.	5.2	132
86	Fluorescent detection of fluoride by CeO ₂ nanozyme oxidation of Amplex red. <i>Inorganic Chemistry Communication</i> , 2019, 106, 38-42.	1.8	26
87	Carbogenic Nanozyme with Ultrahigh Reactive Nitrogen Species Selectivity for Traumatic Brain Injury. <i>Nano Letters</i> , 2019, 19, 4527-4534.	4.5	126
88	Hollow copper sulfide nanocubes as multifunctional nanozymes for colorimetric detection of dopamine and electrochemical detection of glucose. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111450.	5.3	151
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90	Reversing Chemoselectivity: Simultaneous Positive and Negative Catalysis by Chemically Equivalent Rims of a Cucurbit[7]uril Host. <i>Angewandte Chemie</i> , 2019, 131, 11462-11465.	1.6	4
91	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12624-12631.	7.2	345
92	Transferrin-conjugated quasi-cubic SPIONs for cellular receptor profiling and detection of brain cancer. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126737.	4.0	28
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96	A high-energy-state biomimetic enzyme of oxygen-deficient MnTiO ₃ nanodiscs for sensitive electrochemical sensing of the superoxide anion. <i>Chemical Communications</i> , 2019, 55, 7836-7839.	2.2	10
97	Mn ₃ O ₄ microspheres as an oxidase mimic for rapid detection of glutathione. <i>RSC Advances</i> , 2019, 9, 16509-16514.	1.7	39
98	Enhanced peroxidase-like activity of Fe@PCN-224 nanoparticles and their applications for detection of H ₂ O ₂ and glucose. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 456-463.	2.3	71
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102	Catalytic oxidation and reduction reactions of hydrophilic carbon clusters with NADH and cytochrome C: features of an electron transport nanozyme. <i>Nanoscale</i> , 2019, 11, 10791-10807.	2.8	15
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108	Recent progress in the design fabrication of metal-organic frameworks-based nanozymes and their applications to sensing and cancer therapy. <i>Biosensors and Bioelectronics</i> , 2019, 137, 178-198.	5.3	249
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110	A Bacteriochlorin-Based Metal-Organic Framework Nanosheet Superoxide Radical Generator for Photoacoustic Imaging-Guided Highly Efficient Photodynamic Therapy. <i>Advanced Science</i> , 2019, 6, 1900530.	5.6	105
111	Nanozyme-mediated catalytic nanotherapy for inflammatory bowel disease. <i>Theranostics</i> , 2019, 9, 2843-2855.	4.6	149
112	Pyrophosphate-Mediated On-Off-On Oxidase-Like Activity Switching of Nanosized MnFe ₂ O ₄ for Alkaline Phosphatase Sensing. <i>Journal of Analysis and Testing</i> , 2019, 3, 228-237.	2.5	15

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117	A bifunctional metal organic framework of type Fe(III)-BTC for cascade (enzymatic and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 582 Td (en	2.5	55
118	Fluorescent Fe ₃ O ₄ Quantum Dots for H ₂ O ₂ Detection. <i>ACS Applied Nano Materials</i> , 2019, 2, 2076-2085.	2.4	75
119	Bio-inspired nanozyme: a hydratase mimic in a zeolitic imidazolate framework. <i>Nanoscale</i> , 2019, 11, 5960-5966.	2.8	96
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123	<i>De Novo</i> Iron Oxide Hydroxide, Ferrihydrite Produced by <i>Comamonas testosteroni</i> Exhibiting Intrinsic Peroxidase-Like Activity and Their Analytical Applications. <i>BioMed Research International</i> , 2019, 2019, 1-14.	0.9	7
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127	Chirality-Selected Chemical Modulation of Amyloid Aggregation. <i>Journal of the American Chemical Society</i> , 2019, 141, 6915-6921.	6.6	87
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129	Bioorthogonal Nanozymes: Progress towards Therapeutic Applications. <i>Trends in Chemistry</i> , 2019, 1, 90-98.	4.4	63
130	Multi-functional rare earth-containing polyoxometalates achieving high-efficiency tumor therapy and visual fluorescence monitoring. <i>Inorganic Chemistry Communication</i> , 2019, 104, 40-47.	1.8	11

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131	CeVO ₄ Nanozymes Catalyze the Reduction of Dioxygen to Water without Releasing Partially Reduced Oxygen Species. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7797-7801.	7.2	67
132	Noble-Metal Nanostructures as Highly Efficient Peroxidase Mimics. <i>ChemNanoMat</i> , 2019, 5, 860-868.	1.5	16
133	Design of high performance nanozymes: a single-atom strategy. <i>Science China Life Sciences</i> , 2019, 62, 710-712.	2.3	58
134	Nanozymes: Classification, Catalytic Mechanisms, Activity Regulation, and Applications. <i>Chemical Reviews</i> , 2019, 119, 4357-4412.	23.0	1,955
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136	Ultrafine and monodispersed iridium nanoparticles supported on nitrogen-functionalized carbon: an efficient oxidase mimic for glutathione colorimetric detection. <i>Chemical Communications</i> , 2019, 55, 3634-3637.	2.2	39
137	Catalytic inactivation of influenza virus by iron oxide nanozyme. <i>Theranostics</i> , 2019, 9, 6920-6935.	4.6	90
138	Photo-modulated nanozymes for biosensing and biomedical applications. <i>Analytical Methods</i> , 2019, 11, 5081-5088.	1.3	33
139	Fe ^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
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141	Fluorometric and colorimetric analysis of alkaline phosphatase activity based on a nucleotide coordinated copper ion mimicking polyphenol oxidase. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6508-6514.	2.9	31
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143	A catalytic reaction-based colorimetric assay of alkaline phosphatase activity based on oxidase-like MnO ₂ microspheres. <i>Analytical Methods</i> , 2019, 11, 5472-5477.	1.3	15
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