

Nanozymes: Classification, Catalytic Mechanisms, Activ

Chemical Reviews

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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	Antibacterial mechanism and activity of cerium oxide nanoparticles. <i>Science China Materials</i> , 2019, 62, 1727-1739.	3.5	137
3	Engineered Mn/Co oxides nanocomposites by cobalt doping of Mn-BTC - New oxidase mimetic for colorimetric sensing of acid phosphatase. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126928.	4.0	60
4	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
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	Effect of multi-modal environmental stress on dose-dependent cytotoxicity of nanodiamonds in <i>Saccharomyces cerevisiae</i> cells. <i>Sustainable Materials and Technologies</i> , 2019, 22, e00123.	1.7	6
7	Recent advances in nanoparticulate biomimetic catalysts for combating bacteria and biofilms. <i>Nanoscale</i> , 2019, 11, 22206-22215.	2.8	43
8	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
9	Mitochondria-targeted Ir@AuNRs as bifunctional therapeutic agents for hypoxia imaging and photothermal therapy. <i>Chemical Communications</i> , 2019, 55, 10273-10276.	2.2	23
10	Highly sensitive and specific colorimetric detection of phosphate by using Zr(IV) 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
11	Fluorescent Graphitic Carbon Nitride-Based Nanozymes with Peroxidase-Like Activities for Ratiometric Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 10648-10656.	3.2	139
12	Engineering DNA ^{II} -Nanozyme Interfaces for Rapid Detection of Dental Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30640-30647.	4.0	48
13	Protein-Protected Porous Bimetallic AgPt Nanoparticles with pH-Switchable Peroxidase/Catalase-Mimicking Activity. , 2019, 1, 310-319.		35
14	Gold nanoparticles as dehydrogenase mimicking nanozymes for estradiol degradation. <i>Chinese Chemical Letters</i> , 2019, 30, 1655-1658.	4.8	33
15	Unprecedented peroxidase-mimicking activity of single-atom nanozyme with atomically dispersed Fe ^{II} -Nx moieties hosted by MOF derived porous carbon. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111495.	5.3	186
16	Fabrication of H ₂ O ₂ -driven nanoreactors for innovative cancer treatments. <i>Nanoscale</i> , 2019, 11, 16164-16186.	2.8	46
17	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
18	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

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19	Optimization of Antibacterial Efficacy of Noble-Metal-Based Core-Shell Nanostructures and Effect of Natural Organic Matter. <i>ACS Nano</i> , 2019, 13, 12694-12702.	7.3	61
20	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
21	Coordination Nanoparticles Formed by Fluorescent 2-Aminopurine and Au ³⁺ : Stability and Nanozyme Activities. <i>Journal of Analysis and Testing</i> , 2019, 3, 219-227.	2.5	7
22	Electrochemical immunosensor based on Ag ⁺ -dependent CTAB-AuNPs for ultrasensitive detection of sulfamethazine. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111643.	5.3	24
23	Sensors and biosensors based on metal oxide nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115690.	5.8	78
24	Efficient Bacteria Killing by Cu ₂ WS ₄ Nanocrystals with Enzyme-like Properties and Bacteria-Binding Ability. <i>ACS Nano</i> , 2019, 13, 13797-13808.	7.3	190
25	Nanozymes: an emerging field bridging nanotechnology and enzymology. <i>Science China Life Sciences</i> , 2019, 62, 1543-1546.	2.3	37
26	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
27	N-Doped Carbon As Peroxidase-Like Nanozymes for Total Antioxidant Capacity Assay. <i>Analytical Chemistry</i> , 2019, 91, 15267-15274.	3.2	126
28	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
29	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
30	Modification of Lithium Iron Phosphate by Carbon Coating. <i>International Journal of Electrochemical Science</i> , 2019, 14, 10622-10632.	0.5	5
31	Photolyase-Like Catalytic Behavior of CeO ₂ . <i>Nano Letters</i> , 2019, 19, 8270-8277.	4.5	70
32	Oxidase-Like Fe ^{II} Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019, 15, e1903108.	5.2	207
33	Role of Nanomedicine in Redox Mediated Healing at Molecular Level. <i>Biomolecular Concepts</i> , 2019, 10, 160-174.	1.0	18
34	Simulated enzyme inhibition-based strategy for ultrasensitive colorimetric biothiol detection based on nanoperoxidases. <i>Chemical Communications</i> , 2019, 55, 11543-11546.	2.2	4
35	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Core-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 14093-14097.	6.6	139
37	Facile colorimetric detection of alkaline phosphatase activity based on the target-induced valence state regulation of oxidase-mimicking Ce-based nanorods. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5834-5841.	2.9	38

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38	Emerging applications of nanozymes in environmental analysis: Opportunities and trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115653.	5.8	108
39	Nanozyme-Based Bandage with Single-Atom Catalysis for Brain Trauma. <i>ACS Nano</i> , 2019, 13, 11552-11560.	7.3	193
40	2D Graphene Oxide/Fe-MOF Nanozyme Nest with Superior Peroxidase-Like Activity and Its Application for Detection of Woodsmoke Exposure Biomarker. <i>Analytical Chemistry</i> , 2019, 91, 13847-13854.	3.2	116
41	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
42	Multifunctional iron-based Metal-Organic framework as biodegradable nanozyme for microwave enhancing dynamic therapy. <i>Biomaterials</i> , 2019, 214, 119223.	5.7	125
43	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
44	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
45	Fluorescent detection of fluoride by CeO ₂ nanozyme oxidation of Amplex red. <i>Inorganic Chemistry Communication</i> , 2019, 106, 38-42.	1.8	26
46	Carbogenic Nanozyme with Ultrahigh Reactive Nitrogen Species Selectivity for Traumatic Brain Injury. <i>Nano Letters</i> , 2019, 19, 4527-4534.	4.5	126
47	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
48	Target-triggered inhibiting oxidase-mimicking activity of platinum nanoparticles for ultrasensitive colorimetric detection of silver ion. <i>Chinese Chemical Letters</i> , 2019, 30, 1659-1662.	4.8	33
49	Supercritical Fluid-Assisted Fabrication of Manganese (III) Oxide Hollow Nanozymes Mediated by Polymer Nanoreactors for Efficient Glucose Sensing Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28781-28790.	4.0	26
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51	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
52	Construction of a bioinspired laccase-mimicking nanozyme for the degradation and detection of phenolic pollutants. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 452-462.	10.8	228
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57	Photo-modulated nanozymes for biosensing and biomedical applications. <i>Analytical Methods</i> , 2019, 11, 5081-5088.	1.3	33
58	Fluoride-capped nanoceria as a highly efficient oxidase-mimicking nanozyme: inhibiting product adsorption and increasing oxygen vacancies. <i>Nanoscale</i> , 2019, 11, 17841-17850.	2.8	77
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67	When Nanozymes Meet Singleâ€Atom Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 2585-2596.	1.6	117
68	Using target-specific aptamers to enhance the peroxidase-like activity of gold nanoclusters for colorimetric detection of tetracycline antibiotics. <i>Talanta</i> , 2020, 208, 120342.	2.9	98
69	Nanozymes and aptamer-based biosensing. <i>Materials Science for Energy Technologies</i> , 2020, 3, 127-135.	1.0	21
70	Copper Tannic Acid Coordination Nanosheet: A Potent Nanozyme for Scavenging ROS from Cigarette Smoke. <i>Small</i> , 2020, 16, e1902123.	5.2	136
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72	Ag@Au core/shell triangular nanoplates with dual enzyme-like properties for the colorimetric sensing of glucose. <i>Chinese Chemical Letters</i> , 2020, 31, 1133-1136.	4.8	51
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76	Inorganic nanoparticles with enzyme-mimetic activities for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2020, 403, 213092.	9.5	110
77	Bimetallic nanoparticles decorated hollow nanoporous carbon framework as nanozyme biosensor for highly sensitive electrochemical sensing of uric acid. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111869.	5.3	82
78	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
79	Quercetin@ZIF-90 as a novel antioxidant for label-free colorimetric ATP sensing at neutral pH. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127324.	4.0	19
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81	Graphene oxide as a photocatalytic nuclease mimicking nanozyme for DNA cleavage. <i>Nano Research</i> , 2020, 13, 455-460.	5.8	57
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96	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
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108	Biosensor nanoengineering: Design, operation, and implementation for biomolecular analysis. <i>Sensors International</i> , 2020, 1, 100040.	4.9	205
109	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112537.	5.3	113

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111	Nanomaterial-mediated paper-based biosensors for colorimetric pathogen detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116038.	5.8	128
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113	AuNPs@PMo ₁₂ nanozyme: highly oxidase mimetic activity for sensitive and specific colorimetric detection of acetaminophen. <i>RSC Advances</i> , 2020, 10, 35949-35956.	1.7	15
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115	Recent advances in chiral carbonized polymer dots: From synthesis and properties to applications. <i>Nano Today</i> , 2020, 34, 100953.	6.2	95
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137	Biomimetic H ⁺ -selective ribosylation enables two-step modular synthesis of biologically important ADP-ribosylated peptides. <i>Nature Communications</i> , 2020, 11, 5600.	5.8	13
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