Citation Report
List of articles citing

Nanomaterials with enzyme-like characteristics (nanozymes): next-generation artificial enzymes

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#	Paper	IF	Citations
2281	.		
2280	One-to-Many Single Entity Electrochemistry Biosensing for Ultrasensitive Detection of microRNA.		
2279	All in One - Complete Issue: ChemInform 38/2013. **2013**, 44, no-no		
2278	ChemInform Abstract: Nanomaterials with Enzyme-Like Characteristics (Nanozymes): Next-Generation Artificial Enzymes. **2013**, 44, no-no		1
2277	Ruthenium polypyridine complexes combined with oligonucleotides for bioanalysis: a review. **2014**, 19, 11933-87		31
2276	Some Environmentally Relevant Reactions of Cerium Oxide. **2014**, 13, 148-161		8
2275	Peroxidase-like activity of magnetoferritin. **2014**, 181, 295-301		25
2274	Tetrahydrofuran hydroperoxide mediated synthesis of Prussian blue nanoparticles: a study of their electrocatalytic activity and intrinsic peroxidase-like behavior. **2014**, 125, 465-472		24
2273	Direct growth of Pt@Ag nanochains on tailorable graphene oxide with a green, in situ, template-free method and its biosensing application. **2014**, 139, 2560-4		1
2272	Facile one-pot synthesis of folic acid-modified graphene to improve the performance of graphene-based sensing strategy. **2014**, 426, 293-9		12
2271	Nano-gold as artificial enzymes: hidden talents. **2014**, 26, 4200-17		290
2270	A non-aggregation colorimetric assay for thrombin based on catalytic properties of silver nanoparticles. **2014**, 807, 120-5		28
2269	Visual detection of melamine based on the peroxidase-like activity enhancement of bare gold nanoparticles. **2014**, 60, 286-91		117
2268	Indirect colorimetric detection of glutathione based on its radical restoration ability using carbon nanodots as nanozymes. **2014**, 199, 463-469		92
2267	Nanocomposite incorporating V2O5 nanowires and gold nanoparticles for mimicking an enzyme cascade reaction and its application in the detection of biomolecules. **2014**, 20, 7501-6		80
2266	Nanoscale materials and approaches for optical glucose assays. **2014**, 4, 144-151		15
2265	Characterization of glucose oxidation by gold nanoparticles using nanoceria. **2014**, 428, 78-83		64

2264	Ferromagnetic nanoparticles with peroxidase-like activity enhance the cleavage of biological macromolecules for biofilm elimination. **2014**, 6, 2588-93	167
2263	Composite of graphene quantum dots and Fe3O4 nanoparticles: peroxidase activity and application in phenolic compound removal. **2014**, 4, 3299-3305	71
2262	An antioxidant nanozyme that uncovers the cytoprotective potential of vanadia nanowires. **2014**, 5, 5301	238
2261	Protein-directed approaches to functional nanomaterials: a case study of lysozyme. **2014**, 2, 8268-8291	32
2260	Electrolyte-controllable synthesis of CuxO with novel morphology and their application in glucose sensors. **2014**, 4, 52067-52073	10
2259	Low pressure induced porous nanorods of ceria with high reducibility and large oxygen storage capacity: synthesis and catalytic applications. **2014**, 2, 16459-16466	79
2258	One-pot synthesized DNA-templated Ag/Pt bimetallic nanoclusters as peroxidase mimics for colorimetric detection of thrombin. **2014**, 50, 13103-6	98
2257	A colorimetric immunoassay for respiratory syncytial virus detection based on gold nanoparticles-graphene oxide hybrids with mercury-enhanced peroxidase-like activity. **2014**, 50, 11526-8	93
2256	Rod-shaped Au@PtCu nanostructures with enhanced peroxidase-like activity and their ELISA application. **2014**, 59, 2588-2596	18
2255	Alendronate as a robust anchor for ceria nanoparticle surface coating: facile binding and improved biological properties. **2014**, 4, 59965-59969	38
2254	Tuning, inhibiting and restoring the enzyme mimetic activities of Pt-apoferritin. **2014**, 50, 701-3	25
2253	Reaction mediated artificial cell termination: control of vesicle viability using Rh(I)-catalyzed hydrogenation. **2014**, 16, 16454-7	
2252	Label-free detection of DNA by combining gated mesoporous silica and catalytic signal amplification of platinum nanoparticles. **2014**, 139, 6088-91	25
2251	Semi-artificial and bioactive ferroxidase with nanoparticles as the active sites. **2014**, 50, 8021-3	22
2250	Non-enzymatic amperometric sensing of hydrogen peroxide at a CuS modified electrode for the determination of urine H2O2. **2014**, 144, 282-287	38
2249	Seeing diabetes: visual detection of glucose based on the intrinsic peroxidase-like activity of MoS2 nanosheets. **2014**, 6, 11856-62	276
2248	Aptamer-mediated 'turn-off/turn-on' nanozyme activity of gold nanoparticles for kanamycin detection. **2014**, 50, 15856-9	158
2247	Molybdenum trioxide nanoparticles with intrinsic sulfite oxidase activity. **2014**, 8, 5182-9	101

2246	Mesoporous material-based manipulation of the enzyme-like activity of CoFe2O4 nanoparticles. **2014**, 2, 2482	47
2245	Visual detection of blood glucose based on peroxidase-like activity of WS2 nanosheets. **2014**, 62, 302-7	172
2244	Dual responsive enzyme mimicking activity of AgX (X=Cl, Br, I) nanoparticles and its application for cancer cell detection. **2014**, 6, 6434-42	103
2243	High-resolution colorimetric assay for rapid visual readout of phosphatase activity based on gold/silver core/shell nanorod. **2014**, 6, 18243-50	183
2242	Metallo-Folded Single-Chain Nanoparticles with Catalytic Selectivity.. **2014**, 3, 439-443	115
2241	Uranium- and thorium-doped graphene for efficient oxygen and hydrogen peroxide reduction. **2014**, 8, 7106-14	64
2240	Nanocarrier: a potential tool for future antioxidant therapy. **2014**, 48, 1061-9	16
2239	Synthesis and antimicrobial activity of gold/silver-tellurium nanostructures. **2014**, 6, 8305-12	26
2238	Programmed enzyme-mimic hydrolysis of a choline carbonate by a metal-free 2-aminobenzimidazole-based cavitand. **2014**, 16, 840-3	17
2237	Understanding the adsorption interface of polyelectrolyte coating on redox active nanoparticles using soft particle electrokinetics and its biological activity. **2014**, 6, 5472-82	16
2236	Ultrafast colorimetric detection of nucleic acids based on the inhibition of the oxidase activity of cerium oxide nanoparticles. **2014**, 50, 9577-80	61
2235	V2O5 nanowires as a robust and efficient peroxidase mimic at high temperature in aqueous media. **2014**, 4, 26046	20
2234	DNA-Based Platinum Nanozymes for Peroxidase Mimetics. **2014**, 118, 18116-18125	87
2233	A new label free colorimetric chemosensor for detection of mercury ion with tunable dynamic range using carbon nanodots as enzyme mimics. **2014**, 255, 1-7	65
2232	Enzyme-like activity of nanomaterials. **2014**, 32, 186-211	118
2231	Colorimetric Detection of Sulfite in Foods by a TMB-O2-Co3O4 Nanoparticles Detection System. **2014**, 62, 5827-34	89
2230	Fluorescent hydrogen peroxide sensor based on cupric oxide nanoparticles and its application for glucose and L-lactate detection. **2014**, 61, 374-8	137
2229	Recent Advances in the Application of Magnetic Nanoparticles as a Support for Homogeneous Catalysts. **2014**, 4, 222-241	208

2228	Sensors and Bioselective Reagents. **2015**,	0
2227	The MIL-88A-Derived Fe3O4-Carbon Hierarchical Nanocomposites for Electrochemical Sensing. **2015**, 5, 14341	64
2226	Reversible Regulation of Catalytic Activity of Gold Nanoparticles with DNA Nanomachines. **2015**, 5, 14402	15
2225	Regulating Molecular Recognition with C-Shaped Strips Attained by Chirality-Assisted Synthesis. **2015**, 54, 12772-6	33
2224	Hydrogen peroxide sensing properties of PVA/TiO2/I2 nanocomposite-based free standing membranes. **2015**, 132, n/a-n/a	4
2223	Deciphering a Nanocarbon-Based Artificial Peroxidase: Chemical Identification of the Catalytically Active and Substrate-Binding Sites on Graphene Quantum Dots. **2015**, 127, 7282-7286	32
2222	Regulating Molecular Recognition with C-Shaped Strips Attained by Chirality-Assisted Synthesis. **2015**, 127, 12963-12967	13
2221	Synthesis of Carboxylic Group Displayed Water-Dispersible Metal Oxide Nanoparticles toward Fabrication of Protein Fused Nanoparticle for Biomedical Application. **2015**, 23, 119-122	
2220	Graphene-Based Nanomaterials as Efficient Peroxidase Mimetic Catalysts for Biosensing Applications: An Overview. **2015**, 20, 14155-90	97
2219	Enhanced magnetic resonance imaging and staining of cancer cells using ferrimagnetic H-ferritin nanoparticles with increasing core size. **2015**, 10, 2619-34	32
2218	Recent Research Trends and Future Prospects in Nanozymes. **2015**, 2015, 1-11	37
2217	Nanotechnologies for Biosensor and Biochip. **2015**, 2015, 1-2	13
2216	Platinum nanoparticles/graphene-oxide hybrid with excellent peroxidase-like activity and its application for cysteine detection. **2015**, 140, 5251-6	81
2215	A VDEbrdered mesoporous carbon composite with novel peroxidase-like activity towards the glucose colorimetric assay. **2015**, 7, 11678-85	86
2214	Evaluation of the oxidase like activity of nanoceria and its application in colorimetric assays. **2015**, 885, 140-7	55
2213	Highly sensitive and robust peroxidase-like activity of porous nanorods of ceria and their application for breast cancer detection. **2015**, 59, 116-24	173
2212	A novel photoelectrochemical sensor based on photocathode of PbS quantum dots utilizing catalase mimetics of bio-bar-coded platinum nanoparticles/G-quadruplex/hemin for signal amplification. **2015**, 69, 106-12	71
2211	Peroxidase-like activity of gold nanoparticles stabilized by hyperbranched polyglycidol derivatives over a wide pH range. **2015**, 26, 495101	23

2210	Mechanisms of Oxidase and Superoxide Dismutation-like Activities of Gold, Silver, Platinum, and Palladium, and Their Alloys: A General Way to the Activation of Molecular Oxygen. **2015**, 137, 15882-91	261
2209	Ionic Functionalization of Hydrophobic Colloidal Nanoparticles To Form Ionic Nanoparticles with Enzymelike Properties. **2015**, 137, 14952-8	105
2208	Colourimetric assay for β-estradiol based on the peroxidase-like activity of Fe3O4@mSiO2@HP-β-CD nanoparticles. **2015**, 5, 107670-107679	12
2207	An amplified electrochemical aptasensor based on hybridization chain reactions and catalysis of silver nanoclusters. **2015**, 7, 3300-8	67
2206	Peroxidase-like activity of mesoporous silica encapsulated Pt nanoparticle and its application in colorimetric immunoassay. **2015**, 862, 53-63	59
2205	Label-free colorimetric sensor for mercury(II) and DNA on the basis of mercury(II) switched-on the oxidase-mimicking activity of silver nanoclusters. **2015**, 871, 1-8	61
2204	Cerium fluoride nanoparticles protect cells against oxidative stress. **2015**, 50, 151-9	38
2203	Engineering Gold Nanoparticles with DNA Ligands for Selective Catalytic Oxidation of Chiral Substrates. **2015**, 5, 1489-1498	56
2202	Synthesis of Hierarchical FeWO4 Architectures with {100}-Faceted Nanosheet Assemblies as a Robust Biomimetic Catalyst. **2015**, 54, 1171-1178	28
2201	Chemistry, Biochemistry of Nanoparticles, and Their Role in Antioxidant Defense System in Plants. **2015**, 1-17	36
2200	Synthesis of a mixed valence state Ce-MOF as an oxidase mimetic for the colorimetric detection of biothiols. **2015**, 51, 4635-8	180
2199	Acquired Superoxide-Scavenging Ability of Ceria Nanoparticles. **2015**, 127, 1852-1855	14
2198	Carbon nitride nanosheet-supported porphyrin: a new biomimetic catalyst for highly efficient bioanalysis. **2015**, 7, 543-52	50
2197	Metal–organic framework MIL-53(Fe): facile microwave-assisted synthesis and use as a highly active peroxidase mimetic for glucose biosensing. **2015**, 5, 17451-17457	91
2196	Self-assembly of an organic-inorganic hybrid nanoflower as an efficient biomimetic catalyst for self-activated tandem reactions. **2015**, 51, 4386-9	117
2195	Applications of graphene and related nanomaterials in analytical chemistry. **2015**, 39, 2380-2395	59
2194	Hydrogen peroxide displacing DNA from nanoceria: mechanism and detection of glucose in serum. **2015**, 137, 1290-5	309
2193	Highly stable and reusable imprinted artificial antibody used for detection and disinfection of pathogens. **2015**, 6, 2822-2826	48

2192	Synthesis of □MnSe crystal as a robust peroxidase mimic. **2015**, 67, 152-157	13
2191	Hemin-functionalized WS2 nanosheets as highly active peroxidase mimetics for label-free colorimetric detection of H2O2 and glucose. **2015**, 140, 2857-63	82
2190	Accelerating peroxidase mimicking nanozymes using DNA. **2015**, 7, 13831-5	145
2189	Current and future uses of enzymes in food processing. **2015**, 103-122	1
2188	Photocatalytic oxidation of TMB with the double stranded DNA-SYBR Green I complex for label-free and universal colorimetric bioassay. **2015**, 51, 14465-8	35
2187	Synthesis of molecular biomimetics. **2015**, 3-31	1
2186	Lanthanide Nanoparticles: From Design toward Bioimaging and Therapy. **2015**, 115, 10725-815	746
2185	Multifunctional Janus hematite-silica nanoparticles: mimicking peroxidase-like activity and sensitive colorimetric detection of glucose. **2015**, 7, 15395-402	149
2184	Gold Nanoparticles for In Vitro Diagnostics. **2015**, 115, 10575-636	598
2183	Supramolecular regulation of bioorthogonal catalysis in cells using nanoparticle-embedded transition metal catalysts. **2015**, 7, 597-603	300
2182	Au@Ag Heterogeneous Nanorods as Nanozyme Interfaces with Peroxidase-Like Activity and Their Application for One-Pot Analysis of Glucose at Nearly Neutral pH. **2015**, 7, 14463-70	184
2181	Dual-Enzyme Characteristics of Polyvinylpyrrolidone-Capped Iridium Nanoparticles and Their Cellular Protective Effect against H2O2-Induced Oxidative Damage. **2015**, 7, 8233-42	129
2180	Insight into the mechanism revealing the peroxidase mimetic catalytic activity of quaternary CuZnFeS nanocrystals: colorimetric biosensing of hydrogen peroxide and glucose. **2015**, 7, 9062-74	64
2179	Synthesis of reduced graphene oxide-iron nanoparticles with superior enzyme-mimetic activity for biosensing application. **2015**, 639, 470-477	33
2178	Three Birds with One Fe3O4 Nanoparticle: Integration of Microwave Digestion, Solid Phase Extraction, and Magnetic Separation for Sensitive Determination of Arsenic and Antimony in Fish. **2015**, 87, 5866-71	42
2177	Three-dimensional Fe- and N-incorporated carbon structures as peroxidase mimics for fluorescence detection of hydrogen peroxide and glucose. **2015**, 3, 4146-4154	86
2176	Nanozyme-strip for rapid local diagnosis of Ebola. **2015**, 74, 134-41	237
2175	Synthesis and sensing application of glutathione-capped platinum nanoparticles. **2015**, 7, 4464-4471	23

2174	Colorimetric detection of mercury ions using MnO2 nanorods as enzyme mimics. **2015**, 7, 4596-4601	47
2173	Deciphering a nanocarbon-based artificial peroxidase: chemical identification of the catalytically active and substrate-binding sites on graphene quantum dots. **2015**, 54, 7176-80	274
2172	Monolayer protected gold nanoparticles with metal-ion binding sites: functional systems for chemosensing applications. **2015**, 51, 9922-31	53
2171	Protein- and Peptide-directed Approaches to Fluorescent Metal Nanoclusters. **2015**, 55, 682-697	41
2170	Graphene based nanomaterials as chemical sensors for hydrogen peroxide A comparison study of their intrinsic peroxidase catalytic behavior. **2015**, 213, 474-483	77
2169	Simple and Sensitive Point-of-Care Bioassay System Based on Hierarchically Structured Enzyme-Mimetic Nanoparticles. **2015**, 4, 1311-6	37
2168	Urchin-like (gold core)@(platinum shell) nanohybrids: A highly efficient peroxidase-mimetic system for in situ amplified colorimetric immunoassay. **2015**, 70, 194-201	102
2167	Peptide-Conjugated Gold Nanoprobe: Intrinsic Nanozyme-Linked Immunsorbant Assay of Integrin Expression Level on Cell Membrane. **2015**, 9, 10979-90	84
2166	A Gel-Based Approach To Design Hierarchical CuS Decorated Reduced Graphene Oxide Nanosheets for Enhanced Peroxidase-like Activity Leading to Colorimetric Detection of Dopamine. **2015**, 119, 23790-23800	103
2165	Effective Synergistic Effect of Dipeptide-Polyoxometalate-Graphene Oxide Ternary Hybrid Materials on Peroxidase-like Mimics with Enhanced Performance. **2015**, 7, 22036-45	77
2164	Highly selective and sensitive recognition of histidine based on the oxidase-like activity of Cu2+ ions. **2015**, 5, 92114-92120	18
2163	One-pot synthesis of active copper-containing carbon dots with laccase-like activities. **2015**, 7, 19641-6	85
2162	Versatile and Amplified Biosensing through Enzymatic Cascade Reaction by Coupling Alkaline Phosphatase in Situ Generation of Photoresponsive Nanozyme. **2015**, 87, 10429-36	124
2161	Nanosized magnetite in low cost materials for remediation of water polluted with toxic metals, azo- and antraquinonic dyes. **2015**, 9, 746-769	42
2160	Electrochemical Sensor for Lead Cation Sensitized with a DNA Functionalized Porphyrinic Metal-Organic Framework. **2015**, 87, 10635-41	160
2159	Single Nanoparticle to 3D Supercage: Framing for an Artificial Enzyme System. **2015**, 137, 13957-63	92
2158	Synergistic effect of sandwich polyoxometalates and copper midazole complexes for enhancing the peroxidase-like activity. **2015**, 5, 78771-78779	31
2157	Platinum Nanoparticles: Efficient and Stable Catechol Oxidase Mimetics. **2015**, 7, 19709-17	75

2156	Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. **2015**, 9, 9994-10004		198
2155	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. **2015**, 119, 23032-23041		104
2154	Ferroxidase-like activity of Au nanorod/Pt nanodot structures and implications for cellular oxidative stress. **2015**, 8, 4024-4037		21
2153	A nonenzymatic optical immunoassay strategy for detection of Salmonella infection based on blue silica nanoparticles. **2015**, 898, 109-15		21
2152	A highly sensitive multi-catalytic sensing system for organophosphorus and organochlorine pesticides based on the peroxidase-like activity of ferric ions. **2015**, 5, 101879-101886		4
2151	Prussian blue modified metal□organic framework MIL-101(Fe) with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. **2015**, 5, 98215-98221		58
2150	Interconnected 1D Co3O4 nanowires on reduced graphene oxide for enzymeless H2O2 detection. **2015**, 8, 469-480		107
2149	A sensitive electrochemical aptasensor based on the co-catalysis of hemin/G-quadruplex, platinum nanoparticles and flower-like MnO2 nanosphere functionalized multi-walled carbon nanotubes. **2015**, 51, 1472-4		63
2148	Magnetically separable reactive sorbent based on the CeO2/□Fe2O3 composite and its utilization for rapid degradation of the organophosphate pesticide parathion methyl and certain nerve agents. **2015**, 262, 747-755		38
2147	Recent developments and applications of bioinspired dendritic polymers. **2015**, 6, 668-680		55
2146	Acquired superoxide-scavenging ability of ceria nanoparticles. **2015**, 54, 1832-5		143
2145	Quest for a turnover mechanism in peptide-based enzyme mimics. **2015**, 59, 206-210		5
2144	Synthesis, characterization and biomolecule-binding properties of novel tetra-platinum(II)-thiopyridylporphyrins. **2015**, 44, 530-8		27
2143	Leaf-templated synthesis of 3D hierarchical porous cobalt oxide nanostructure as direct electrochemical biosensing interface with enhanced electrocatalysis. **2015**, 63, 145-152		134
2142	The peroxidase/catalase-like activities of MFe□□(M=Mg, Ni, Cu) MNPs and their application in colorimetric biosensing of glucose. **2015**, 63, 384-391		145
2141	Intrinsic enzyme mimicking activity of gold nanoclusters upon visible light triggering and its application for colorimetric trypsin detection. **2015**, 64, 523-9		127
2140	Molecular containers in complex chemical systems. *Chemical Society Reviews*, **2015**, 44, 419-32	58.5	470
2139	NiO nanoparticles modified with 5,10,15,20-tetrakis(4-carboxyl pheyl)-porphyrin: promising peroxidase mimetics for H2O2 and glucose detection. **2015**, 64, 147-53		248

2138	Peroxidase-Like Activity of Ferrihydrite and Hematite Nanoparticles for the Degradation of Methylene Blue. **2016**, 2016, 1-8	11
2137	Hydrolytic Metallo-Nanozymes: From Micelles and Vesicles to Gold Nanoparticles. **2016**, 21,	45
2136	Carbon Nanodots as Peroxidase Nanozymes for Biosensing. **2016**, 21,	86
2135	Optimizing Colorimetric Assay Based on V□□ Nanozymes for Sensitive Detection of H□□ and Glucose. **2016**, 16,	72
2134	Nano-Engineered Biomimetic Optical Sensors for Glucose Monitoring in Diabetes. **2016**, 16,	23
2133	An In Situ One-Pot Synthetic Approach towards Multivariate Zirconium MOFs. **2016**, 55, 6471-5	89
2132	An In Situ One-Pot Synthetic Approach towards Multivariate Zirconium MOFs. **2016**, 128, 6581-6585	21
2131	Fe3O4 Nanoparticles Anchored on Carbon Serve the Dual Role of Catalyst and Magnetically Recoverable Entity in the Aerobic Oxidation of Alcohols. **2016**, 8, 805-811	39
2130	Biomimetic nanomaterials: Development of protein coated nanoceria as a potential antioxidative nano-agent for the effective scavenging of reactive oxygen species in vitro and in zebrafish model. **2016**, 146, 375-86	13
2129	Enzyme Mimics: Advances and Applications. **2016**, 22, 8404-30	201
2128	Sphere-like CoS with nanostructures as peroxidase mimics for colorimetric determination of H2O2 and mercury ions. **2016**, 6, 66963-66970	51
2127	Vacancy-Engineered Nanoceria: Enzyme Mimetic Hotspots for the Degradation of Nerve Agents. **2016**, 128, 1434-1438	25
2126	Structural effects of amphiphilic protein/gold nanoparticle hybrid based nanozyme on peroxidase-like activity and silver-mediated inhibition. **2016**, 6, 112435-112444	21
2125	Platinum nanoparticles inhibit antioxidant effects of vitamin C via ascorbate oxidase-mimetic activity. **2016**, 4, 7895-7901	21
2124	Cerium oxide based nanozymes: Redox phenomenon at biointerfaces. **2016**, 11, 04B202	76
2123	Revisiting catechol derivatives as robust chromogenic hydrogen donors working in alkaline media for peroxidase mimetics. **2016**, 948, 80-89	3
2122	Three-in-One: Sensing, Self-Assembly, and Cascade Catalysis of Cyclodextrin Modified Gold Nanoparticles. **2016**, 138, 16645-16654	198
2121	Magnetically separable mesoporous Fe3O4/silica catalysts with very low Fe3O4 content. **2016**, 237, 138-143	10

2120	Cobalt-doped graphitic carbon nitride with enhanced peroxidase-like activity for wastewater treatment. **2016**, 6, 35568-35576	49
2119	Lanthanide Coordination Polymer Nanoparticles as an Excellent Artificial Peroxidase for Hydrogen Peroxide Detection. **2016**, 88, 6342-8	113
2118	Crosslinking catalysis-active center of hemin on the protein scaffold toward peroxidase mimic with powerful catalysis. **2016**, 6, 47595-47599	9
2117	Enhanced catalytic activity of gold nanoparticle-carbon nanotube hybrids for influenza virus detection. **2016**, 85, 503-508	76
2116	The catalytic activity of Ag2S-montmorillonites as peroxidase mimetic toward colorimetric detection of H2O2. **2016**, 65, 109-15	33
2115	Platinum nanoparticles on reduced graphene oxide as peroxidase mimetics for the colorimetric detection of specific DNA sequence. **2016**, 4, 4076-4083	44
2114	Nanozymes: an emerging field bridging nanotechnology and biology. **2016**, 59, 400-2	158
2113	Deciphering the quenching mechanism of 2D MnO2 nanosheets towards Au nanocluster fluorescence to design effective glutathione biosensors. **2016**, 8, 3935-3940	45
2112	Integrated Nanozymes with Nanoscale Proximity for in Vivo Neurochemical Monitoring in Living Brains. **2016**, 88, 5489-97	241
2111	Fe-doped CeO nanorods for enhanced peroxidase-like activity and their application towards glucose detection. **2016**, 4, 3874-3885	113
2110	Peroxidase-like activity of FeVO4 nanobelts and its analytical application for optical detection of hydrogen peroxide. **2016**, 233, 162-172	48
2109	Engineering peptide-based biomimetic enzymes for enhanced catalysis. **2016**, 6, 40828-40834	2
2108	Hydration of aromatic alkynes catalyzed by a self-assembled hexameric organic capsule. **2016**, 6, 6031-6036	27
2107	Development of advanced biorefinery concepts using magnetically responsive materials. **2016**, 116, 17-26	11
2106	Synthesis of EDTA-assisted CeVO nanorods as robust peroxidase mimics towards colorimetric detection of HO. **2016**, 4, 6316-6325	33
2105	Cost-efficient method for unsymmetrical meso-aryl porphyrins and iron oxide-porphyrin hybrids prepared thereof. **2016**, 45, 16211-16220	9
2104	Aggregation-induced superior peroxidase-like activity of Cu2Se nanoparticles for melamine detection. **2016**, 8, 7516-7521	17
2103	Engineered Gold Nanoparticles and Plant Adaptation Potential. **2016**, 11, 400	88

2102	Artificial Metalloenzyme-Based Enzyme Replacement Therapy for the Treatment of Hyperuricemia. **2016**, 26, 7921-7928	37
2101	Carbon-Based Nanomaterials as Nanozymes. **2016**, 309-333	
2100	Introduction to Nanozymes. **2016**, 1-6	3
2099	High-performance sensor based on copper oxide nanoparticles for dual detection of phenolic compounds and a pesticide. **2016**, 71, 33-37	27
2098	Cu0.89Zn0.11O, A New Peroxidase-Mimicking Nanozyme with High Sensitivity for Glucose and Antioxidant Detection. **2016**, 8, 22301-8	136
2097	Pd Nanoparticles Decorated N-Doped Graphene Quantum Dots@N-Doped Carbon Hollow Nanospheres with High Electrochemical Sensing Performance in Cancer Detection. **2016**, 8, 22563-73	130
2096	Nanozymes: Next Wave of Artificial Enzymes. **2016**,	50
2095	Reversible Electrochemical Modulation of a Catalytic Nanosystem. **2016**, 55, 10737-40	16
2094	Metal Oxide-Based Nanomaterials for Nanozymes. **2016**, 57-91	3
2093	Efficient epoxide isomerization within a self-assembled hexameric organic capsule. **2016**, 6, 83505-83509	27
2092	Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyridylporphyrin. **2016**, 6, 79497-79506	13
2091	Reversible Electrochemical Modulation of a Catalytic Nanosystem. **2016**, 128, 10895-10898	2
2090	Synthesis of PVP-functionalized ultra-small MoS2 nanoparticles with intrinsic peroxidase-like activity for H2O2 and glucose detection. **2016**, 6, 81174-81183	52
2089	Other Nanomaterials for Nanozymes. **2016**, 93-102	
2088	An ATP Aptasensor Based on the Peroxidase-like Activity of Hemin/Graphene Oxide Nanosheets. **2016**, 32, 565-9	8
2087	Supramolecular Activation of Hydrogen Peroxide in the Selective Sulfoxidation of Thioethers by a Self-Assembled Hexameric Capsule. **2016**, 358, 3443-3449	27
2086	Catalysis Within the Self-Assembled Resorcin[4]arene Hexamer. **2016**, 203-234	9
2085	The role of nanomaterials in electroanalytical biosensors: A mini review. **2016**, 781, 401-409	68

2084	Glucose Oxidase and Horseradish Peroxidase Like Activities of Cuprous Oxide/Polypyrrole Composites. **2016**, 215, 253-260	23
2083	Novel synthesis of a mixed Cu/CuO□educed graphene oxide nanocomposite with enhanced peroxidase-like catalytic activity for easy detection of glutathione in solution and using a paper strip. **2016**, 6, 92729-92738	41
2082	Highly sensitive colorimetric detection of copper ions based on regulating the peroxidase-like activity of Au@Pt nanohybrids. **2016**, 8, 7531-7536	16
2081	Developing enhanced magnetoimmunosensors based on low-cost screen-printed electrode devices. **2016**, 35, 53-85	15
2080	Tailoring Enzyme-Like Activities of Gold Nanoclusters by Polymeric Tertiary Amines for Protecting Neurons Against Oxidative Stress. **2016**, 12, 4127-35	52
2079	Novel hierarchical NiO nanoflowers exhibiting intrinsic superoxide dismutase-like activity. **2016**, 4, 5217-5221	34
2078	Magnetic carbon nitride nanocomposites as enhanced peroxidase mimetics for use in colorimetric bioassays, and their application to the determination of H2O2 and glucose. **2016**, 183, 3191-3199	55
2077	Uncapped nanobranch-based CuS clews used as an efficient peroxidase mimic enable the visual detection of hydrogen peroxide and glucose with fast response. **2016**, 947, 42-49	86
2076	Triple-enzyme mimetic activity of Co3O4 nanotubes and their applications in colorimetric sensing of glutathione. **2016**, 40, 10056-10063	36
2075	Functionalized Nano-MoS with Peroxidase Catalytic and Near-Infrared Photothermal Activities for Safe and Synergetic Wound Antibacterial Applications. **2016**, 10, 11000-11011	572
2074	Facet Energy versus Enzyme-like Activities: The Unexpected Protection of Palladium Nanocrystals against Oxidative Damage. **2016**, 10, 10436-10445	157
2073	Peroxidase-like properties of Ruthenium nanoframes. **2016**, 61, 1739-1745	29
2072	Label-free electrochemical immunosensor based on enhanced signal amplification between Au@Pd and CoFe2O4/graphene nanohybrid. **2016**, 6, 23391	27
2071	Rationally Modulate the Oxidase-like Activity of Nanoceria for Self-Regulated Bioassays. **2016**, 1, 1336-1343	199
2070	A Simple Paper-Based Colorimetric Device for Rapid Mercury(II) Assay. **2016**, 6, 31948	61
2069	Manganese Phosphate Self-assembled Nanoparticle Surface and Its application for Superoxide Anion Detection. **2016**, 6, 28989	42
2068	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. **2016**, 4, 7423-7428	54
2067	Metal-Based Nanomaterials for Nanozymes. **2016**, 31-55	3

2066	Challenges and Perspectives. **2016**, 103-107	1
2065	Fluorescein as an artificial enzyme to mimic peroxidase. **2016**, 52, 13912-13915	53
2064	Solids Go Bio: Inorganic Nanoparticles as Enzyme Mimics. **2016**, 2016, 1906-1915	132
2063	Vacancy-Engineered Nanoceria: Enzyme Mimetic Hotspots for the Degradation of Nerve Agents. **2016**, 55, 1412-6	119
2062	Iron oxide nanozyme catalyzed synthesis of fluorescent polydopamine for light-up Zn(2+) detection. **2016**, 8, 13620-6	84
2061	Spectrophotometric determination of mercury(II) ions based on their stimulation effect on the peroxidase-like activity of molybdenum disulfide nanosheets. **2016**, 183, 2481-2489	46
2060	Boosting the oxidase mimicking activity of nanoceria by fluoride capping: rivaling protein enzymes and ultrasensitive F(-) detection. **2016**, 8, 13562-7	157
2059	Discovering the enzyme mimetic activity of metal-organic framework (MOF) for label-free and colorimetric sensing of biomolecules. **2016**, 86, 432-438	121
2058	Nanocatalysts promote Streptococcus mutans biofilm matrix degradation and enhance bacterial killing to suppress dental caries in vivo. **2016**, 101, 272-84	156
2057	Bimetallic Fe15Pt85 nanoparticles as an effective anodic electrocatalyst for non-enzymatic glucose/oxygen biofuel cell. **2016**, 208, 325-333	16
2056	Rapid and visual detection of Listeria monocytogenes based on nanoparticle cluster catalyzed signal amplification. **2016**, 86, 1-7	76
2055	Ratiometric Electrochemiluminescent Immunoassay for Tumor Marker Regulated by Mesocrystals and Biomimetic Catalyst. **2016**, 196, 565-571	14
2054	Magnetic Iron Oxide Nanoparticle Seeded Growth of Nucleotide Coordinated Polymers. **2016**, 8, 15615-22	50
2053	Impact of Metal Nanoform Colloidal Solution on the Adaptive Potential of Plants. **2016**, 11, 89	15
2052	Accelerated dephosphorylation of adenosine phosphates and related compounds in the presence of nanocrystalline cerium oxide. **2016**, 3, 847-856	21
2051	Dual enzyme mimicry exhibited by ITO nanocubes and their application in spectrophotometric and electrochemical sensing. **2016**, 141, 4024-8	8
2050	Colorimetric detection of cysteine and homocysteine based on an oligonucleotide-stabilized Pd nanozyme. **2016**, 8, 5111-5116	18
2049	Dual role of hydrogen peroxide on the oxidase-like activity of nanoceria and its application for colorimetric hydrogen peroxide and glucose sensing. **2016**, 6, 59939-59945	32

2048	Extraction of Rutin and Rhoifolin by Inorganic Borate Functionalized Magnetic Particles. **2016**, 34, 823-829	1
2047	Fabrication and multifunctional properties of ultrasmall water-soluble tungsten oxide quantum dots. **2016**, 52, 9534-7	24
2046	Synthesis of an ordered nanoporous Fe2O3/Au film for application in ascorbic acid detection. **2016**, 6, 63358-63364	12
2045	Vertical □FeOOH nanowires grown on the carbon fiber paper as a free-standing electrode for sensitive H2O2 detection. **2016**, 9, 2260-2269	31
2044	Three Dimensional Multipod Superstructure based on Cu(OH) as a Highly Efficient Nanozyme. **2016**, 4, 4657-4661	22
2043	Chiral Nanozymes-Gold Nanoparticle-Based Transphosphorylation Catalysts Capable of Enantiomeric Discrimination. **2016**, 22, 7028-32	39
2042	Molecular mechanical properties of short-sequence peptide enzyme mimics. **2016**, 34, 463-74	6
2041	Magnetic Fe3S4 nanoparticles with peroxidase-like activity, and their use in a photometric enzymatic glucose assay. **2016**, 183, 625-631	92
2040	Bi-functional Au/FeS (Au/Co3O4) composite for in situ SERS monitoring and degradation of organic pollutants. **2016**, 18, 1	14
2039	Highly sensitive visual detection of Avian Influenza A (H7N9) virus based on the enzyme-induced metallization. **2016**, 79, 874-80	27
2038	Synthesis of Cu2O nanowire mesocrystals using PTCDA as a modifier and their superior peroxidase-like activity. **2016**, 51, 3979-3988	22
2037	Integration of nanomaterials for colorimetric immunoassays with improved performance: a functional perspective. **2016**, 141, 1196-208	48
2036	Photoluminescence sensing systems based on copper, gold and silver nanomaterials. **2016**, 320-321, 129-138	42
2035	Platinum nanozymes recover cellular ROS homeostasis in an oxidative stress-mediated disease model. **2016**, 8, 3739-52	136
2034	Catalytic nanocrystalline coordination polymers as an efficient peroxidase mimic for labeling and optical immunoassays. **2016**, 183, 651-658	32
2033	Polystyrene@Au@prussian blue nanocomposites with enzyme-like activity and their application in glucose detection. **2016**, 490, 291-299	19
2032	Multiplexed Activity of perAuxidase: DNA-Capped AuNPs Act as Adjustable Peroxidase. **2016**, 88, 600-5	121
2031	Nanozymes in bionanotechnology: from sensing to therapeutics and beyond. **2016**, 3, 41-60	427

2030	Optical determination of hydrogen peroxide by exploiting the peroxidase-like activity of AgVO3 nanobelts. **2016**, 183, 457-463	51
2029	Single-Nanoparticle Resolved Biomimetic Long-Range Electron Transfer and Electrocatalysis of Mixed-Valence Nanoparticles. **2016**, 6, 2728-2738	15
2028	Biocompatibility selenium nanoparticles with an intrinsic oxidase-like activity. **2016**, 18, 1	26
2027	Synergistic effect of ternary electrospun TiO2/Fe2O3/PPy composite nanofibers on peroxidase-like mimics with enhanced catalytic performance. **2016**, 6, 31107-31113	31
2026	Triple-enzyme mimetic activity of nickel-palladium hollow nanoparticles and their application in colorimetric biosensing of glucose. **2016**, 52, 5410-3	112
2025	Ultrasensitive Profiling of Metabolites Using Tyramine-Functionalized Graphene Quantum Dots. **2016**, 10, 3622-9	124
2024	Soft template induced phase selective synthesis of Fe2O3 nanomagnets: one step towards peroxidase-mimic activity allowing colorimetric sensing of thioglycolic acid. **2016**, 6, 32308-32318	30
2023	Palladium nanoparticles modified electrospun CoFe2O4 nanotubes with enhanced peroxidase-like activity for colorimetric detection of hydrogen peroxide. **2016**, 6, 33636-33642	50
2022	Peroxidase-like activity of the Co3O4 nanoparticles used for biodetection and evaluation of antioxidant behavior. **2016**, 8, 5938-45	133
2021	BiOI hierarchical nanoflowers as novel robust peroxidase mimetics for colorimetric detection of H2O2. **2016**, 6, 17483-17493	28
2020	Nanomaterial based electrochemical sensors for in vitro detection of small molecule metabolites. **2016**, 34, 234-49	69
2019	Controlled synthesis and photocatalysis of sea urchin-like Fe3O4@TiO2@Ag nanocomposites. **2016**, 8, 5313-26	118
2018	Polyoxometalate-based nanozyme: Design of a multifunctional enzyme for multi-faceted treatment of Alzheimer□s disease. **2016**, 9, 1079-1090	66
2017	Self-enhanced N-(aminobutyl)-N-(ethylisoluminol) derivative-based electrochemiluminescence immunosensor for sensitive laminin detection using PdIr cubes as a mimic peroxidase. **2016**, 8, 8017-23	32
2016	Three-dimensional hierarchical porous PtCu dendrites: A highly efficient peroxidase nanozyme for colorimetric detection of H2O2. **2016**, 230, 721-730	58
2015	Sensitive and selective colorimetric detection of Hg(2+) by a Hg(2+) induced dual signal amplification strategy based on cascade-type catalytic reactions. **2016**, 141, 2362-6	14
2014	Oxidase-like mimic of Ag@Ag3PO4 microcubes as a smart probe for ultrasensitive and selective Hg(2+) detection. **2016**, 45, 3048-54	34
2013	Self-templated formation of aptamer-functionalized copper oxide nanorods with intrinsic peroxidase catalytic activity for protein and tumor cell detection. **2016**, 227, 100-107	23

2012	A non-enzymatic electrochemical immunosensor for microcystin-LR rapid detection based on Ag@MSN nanoparticles. **2016**, 490, 336-342	21
2011	Prussian blue nanoparticles encapsulated inside a metal-organic framework via in situ growth as promising peroxidase mimetics for enzyme inhibitor screening. **2016**, 4, 128-134	42
2010	A robust electrochemiluminescence immunoassay for carcinoembryonic antigen detection based on a microtiter plate as a bridge and Au@Pd nanorods as a peroxidase mimic. **2016**, 141, 337-45	17
2009	Immobilization of aptamer-modified gold nanoparticles on BiOCl nanosheets: Tunable peroxidase-like activity by protein recognition. **2016**, 75, 181-7	50
2008	Multifunctional catalytic platform for peroxidase mimicking, enzyme immobilization and biosensing. **2016**, 77, 746-51	31
2007	Synthesis and intrinsic enzyme-like activity of □MnOOH nanoplates. **2016**, 59, 547-552	8
2006	A Remarkably Efficient MnFe2 O4 -based Oxidase Nanozyme. **2016**, 11, 72-6	74
2005	Nanostructured Metal Oxides for Stoichiometric Degradation of Chemical Warfare Agents. **2016**, 236, 239-58	10
2004	Combined experimental and theoretical study on the removal of pollutant compounds by peroxidases: affinity and reactivity toward a bioremediation catalyst. **2016**, 34, 1839-48	20
2003	Role of nanomaterials in plants under challenging environments. **2017**, 110, 194-209	220
2002	New biorecognition molecules in biosensors for the detection of toxins. **2017**, 87, 285-298	117
2001	Do catalytic nanoparticles offer an improved therapeutic strategy to combat dental biofilms?. **2017**, 12, 275-279	13
2000	ABCs of DNA aptamer and related assay development. **2017**, 35, 275-301	103
1999	Generalized-active-space pair-density functional theory: an efficient method to study large, strongly correlated, conjugated systems. **2017**, 8, 2741-2750	46
1998	Oxidized multiwalled carbon nanotubes decorated with silver nanoparticles for fluorometric detection of dimethoate. **2017**, 224, 353-358	39
1997	Enhanced luminol chemiluminescence by Co□e LDH nanoplates and its application in H2O2 and glucose detection. **2017**, 9, 974-979	20
1996	A sensitive and selective Victoria blue 4R SERS molecular probe for sodium lauryl sulfate in AuNP/AgCl sol substrate. **2017**, 244, 275-281	8
1995	Porphyrin-Based Porous Organic Frameworks as a Biomimetic Catalyst for Highly Efficient Colorimetric Immunoassay. **2017**, 9, 3514-3523	62

1994	In situ growth of gold nanoparticles on hydrogen-bond supramolecular structures with high peroxidase-like activity at neutral pH and their application to one-pot blood glucose sensing. **2017**, 245, 656-664	19
1993	Use of the peroxidase mimetic activity of erythrocyte-like Cu1.8S nanoparticles in the colorimetric determination of glutathione. **2017**, 9, 841-846	37
1992	Albumin-Mediated Biomineralization of Shape-Controllable and Biocompatible Ceria Nanomaterials. **2017**, 9, 6839-6848	25
1991	Amino acid-mediated 'turn-off/turn-on' nanozyme activity of gold nanoclusters for sensitive and selective detection of copper ions and histidine. **2017**, 92, 140-146	111
1990	Nanohybrids consisting of magnetic nanoparticles and gold nanoclusters as effective peroxidase mimics and their application for colorimetric detection of glucose. **2017**, 12, 01A401	19
1989	One-Pot Synthesis of FeO Nanoparticle Loaded 3D Porous Graphene Nanocomposites with Enhanced Nanozyme Activity for Glucose Detection. **2017**, 9, 7465-7471	149
1988	Photoswitchable Catalysis by a Nanozyme Mediated by a Light-Sensitive Cofactor. **2017**, 139, 1794-1797	82
1987	Glycine-functionalized copper(ii) hydroxide nanoparticles with high intrinsic superoxide dismutase activity. **2017**, 9, 3952-3960	45
1986	Facile method to synthesize dopamine-capped mixed ferrite nanoparticles and their peroxidase-like activity. **2017**, 50, 11LT02	18
1985	Enhanced Peroxidase-Like Performance of Gold Nanoparticles by Hot Electrons. **2017**, 23, 6717-6723	45
1984	Glycine post-synthetic modification of MIL-53(Fe) metal-organic framework with enhanced and stable peroxidase-like activity for sensitive glucose biosensing. **2017**, 167, 359-366	44
1983	Boron nitride nanosheet/CuS nanocomposites as mimetic peroxidase for sensitive colorimetric detection of cholesterol. **2017**, 246, 118-126	64
1982	A GO-Se nanocomposite as an antioxidant nanozyme for cytoprotection. **2017**, 53, 3082-3085	51
1981	Facile synthesis of silver nanoparticles/carbon dots for a charge transfer study and peroxidase-like catalytic monitoring by surface-enhanced Raman scattering. **2017**, 410, 42-50	26
1980	Yolk-shell nanostructured FeO@C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of HO and glucose. **2017**, 9, 4508-4515	136
1979	Mixed SDS-Hemin-Imidazole at low ionic strength being efficient peroxidase-like as a nanozyme. **2017**, 522, 233-241	6
1978	Amplified Peroxidase-Like Activity in Iron Oxide Nanoparticles Using Adenosine Monophosphate: Application to Urinary Protein Sensing. **2017**, 9, 10069-10077	50
1977	Mimicking Horseradish Peroxidase Functions Using Cu-Modified Carbon Nitride Nanoparticles or Cu-Modified Carbon Dots as Heterogeneous Catalysts. **2017**, 11, 3247-3253	226

1976	Design of C-dots/Fe3O4 magnetic nanocomposite as an efficient new nanozyme and its application for determination of H2O2 in nanomolar level. **2017**, 247, 691-696	42
1975	Ultrasmall Pt Nanoclusters as Robust Peroxidase Mimics for Colorimetric Detection of Glucose in Human Serum. **2017**, 9, 10027-10033	218
1974	Surface modification of nanozymes. **2017**, 10, 1125-1148	300
1973	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. **2017**, 7, 40928	27
1972	Colorimetric detection of glutathione in cells based on peroxidase-like activity of gold nanoclusters: A promising powerful tool for identifying cancer cells. **2017**, 967, 64-69	81
1971	Peroxidase activity of the coronene bisimide supramolecular architecture and its applications in colorimetric sensing of HO and glucose. **2017**, 5, 6572-6578	10
1970	Mimicking Horseradish Peroxidase and NADH Peroxidase by Heterogeneous Cu-Modified Graphene Oxide Nanoparticles. **2017**, 17, 2043-2048	151
1969	High-index {hk0} faceted platinum concave nanocubes with enhanced peroxidase-like activity for an ultrasensitive colorimetric immunoassay of the human prostate-specific antigen. **2017**, 142, 911-917	65
1968	Designing metal-contained enzyme mimics for prodrug activation. **2017**, 118, 78-93	26
1967	Synergistic Degradation of a Hyperuricemia-Causing Metabolite Using One-Pot Enzyme-Nanozyme Cascade Reactions. **2017**, 7, 44330	12
1966	Magnetic Graphene Nanocomposites for Multifunctional Applications. **2017**, 317-357	2
1965	Nanozyme applications in biology and medicine: an overview. **2017**, 45, 1-8	56
1964	Photometric determination of free cholesterol via cholesterol oxidase and carbon nanotube supported Prussian blue as a peroxidase mimic. **2017**, 184, 2181-2189	57
1963	Phage capsid protein-directed MnO nanosheets with peroxidase-like activity for spectrometric biosensing and evaluation of antioxidant behaviour. **2017**, 53, 5216-5219	79
1962	Determination of Immunoglobulin G by a Hemin–Manganese(IV) Oxide-Labeled Enzyme-linked Immunosorbent Assay. **2017**, 50, 1803-1811	6
1961	A label-free visual platform for self-correcting logic gate construction and sensitive biosensing based on enzyme-mimetic coordination polymer nanoparticles. **2017**, 5, 4607-4613	19
1960	A fully integrated distance readout ELISA-Chip for point-of-care testing with sample-in-answer-out capability. **2017**, 96, 332-338	64
1959	Multi-walled carbon nanotubes act as a chemokine and recruit macrophages by activating the PLC/IP3/CRAC channel signaling pathway. **2017**, 7, 226	14

1958	HO-responsive liposomal nanoprobe for photoacoustic inflammation imaging and tumor theranostics via in vivo chromogenic assay. **2017**, 114, 5343-5348	331
1957	PA-Tb-Cu MOF as luminescent nanoenzyme for catalytic assay of hydrogen peroxide. **2017**, 96, 227-232	67
1956	Cobalt oxyhydroxide nanoflakes with intrinsic peroxidase catalytic activity and their application to serum glucose detection. **2017**, 409, 4225-4232	40
1955	Interactions between nanoparticles and plants: phytotoxicity and defense mechanisms. **2017**, 12, 158-169	196
1954	Manganese dioxide nanoparticle-based colorimetric immunoassay for the detection of alpha-fetoprotein. **2017**, 184, 2767-2774	18
1953	Introduction of a simple sensing device for monitoring of hydrogen peroxide based on ZnFe2O4 nanoparticles/chitosan modified gold electrode. **2017**, 796, 17-23	8
1952	A highly sensitive EDTA-based senor for detection of disease biomarker and drug. **2017**, 249, 478-485	4
1951	Nanocrystalline cerium oxide prepared from a carbonate precursor and its ability to breakdown biologically relevant organophosphates. **2017**, 4, 1283-1293	26
1950	Toxicity assessment of multi-walled carbon nanotubes on Cucurbita pepo L. under well-watered and water-stressed conditions. **2017**, 142, 274-283	42
1949	Substrate mediated enzyme prodrug therapy. **2017**, 118, 24-34	23
1948	An overview on enzyme-mimicking nanomaterials for use in electrochemical and optical assays. **2017**, 184, 323-342	143
1947	Optimization of FeO nanozyme activity via single amino acid modification mimicking an enzyme active site. **2016**, 53, 424-427	225
1946	A facile synthesis of FeO/nitrogen-doped carbon hybrid nanofibers as a robust peroxidase-like catalyst for the sensitive colorimetric detection of ascorbic acid. **2017**, 5, 5499-5505	54
1945	Novel biotemplated MnO2 1D nanozyme with controllable peroxidase-like activity and unique catalytic mechanism and its application for glucose sensing. **2017**, 252, 919-926	81
1944	Dichlorofluorescein as a peroxidase mimic and its application to glucose detection. **2017**, 41, 7578-7582	20
1943	Light-Mediated Reversible Modulation of ROS Level in Living Cells by Using an Activity-Controllable Nanozyme. **2017**, 13, 1603051	52
1942	Bioinspired Synthesis of Cu -Modified Covalent Triazine Framework: A New Highly Efficient and Promising Peroxidase Mimic. **2017**, 23, 11037-11045	31
1941	Simultaneous enzymatic activity modulation and rapid determination of enzyme kinetics by highly crystalline graphite dots. **2017**, 9, 8410-8417	10

1940	Enzymatically activated reduction-caged SERS reporters for versatile bioassays. **2017**, 142, 2322-2326	17
1939	Surface Modification of Two-Dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. **2017**, 56, 9704-9709	125
1938	Artificial Enzyme-based Logic Operations to Mimic an Intracellular Enzyme-participated Redox Balance System. **2017**, 23, 9156-9161	12
1937	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. **2017**, 29, 1700102	283
1936	Chitosan-stabilized platinum nanoparticles as effective oxidase mimics for colorimetric detection of acid phosphatase. **2017**, 9, 10292-10300	138
1935	Multiple functional strategies for amplifying sensitivity of amperometric immunoassay for tumor markers: A review. **2017**, 98, 100-112	64
1934	Quantitatively Intrinsic Biomimetic Catalytic Activity of Nanocerias as Radical Scavengers and Their Ability against HO and Doxorubicin-Induced Oxidative Stress. **2017**, 9, 23342-23352	30
1933	Strongly coupled CeO/CoO/poly(3,4-ethylenedioxythiophene) nanofibers with enhanced nanozyme activity for highly sensitive colorimetric detection. **2017**, 28, 295704	21
1932	Ceria Nanoparticles as Enzyme Mimetics. **2017**, 35, 791-800	21
1931	Halide Ion-Induced Switching of Gold Nanozyme Activity Based on Au-X Interactions. **2017**, 33, 6372-6381	31
1930	FeCo nanoparticles-embedded carbon nanofibers as robust peroxidase mimics for sensitive colorimetric detection of l-cysteine. **2017**, 46, 8942-8949	39
1929	Surface Modification of Two-Dimensional Metal□Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. **2017**, 129, 9836-9841	33
1928	Novel biomimetic enzyme for sensitive detection of superoxide anions. **2017**, 174, 82-91	22
1927	One step electro-oxidative preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic. **2017**, 173, 36-43	60
1926	Surface-Enhanced Raman Scattering Active Gold Nanoparticles with Enzyme-Mimicking Activities for Measuring Glucose and Lactate in Living Tissues. **2017**, 11, 5558-5566	383
1925	□AgVO3 Nanorods as Peroxidase Mimetic for Colorimetric Determination of Glucose. **2017**, 64, 795-803	4
1924	Au@carbon dot nanoconjugates as a dual mode enzyme-free sensing platform for cholesterol. **2017**, 5, 5425-5432	40
1923	Complex Magnetic Nanostructures. **2017**,	5

1922	Visual determination of hydrogen peroxide and glucose by exploiting the peroxidase-like activity of magnetic nanoparticles functionalized with a poly(ethylene glycol) derivative. **2017**, 184, 2115-2122	31
1921	Synthesis of Annulated Thiophenes Involving Benzo-DMTHFs/Triflic acid-Mediated Domino Reactions. **2017**, 2, 2578-2582	
1920	Molecular Imprinting on Inorganic Nanozymes for Hundred-fold Enzyme Specificity. **2017**, 139, 5412-5419	380
1919	Growth of CuO nanoneedles on graphene quantum dots as peroxidase mimics for sensitive colorimetric detection of hydrogen peroxide and glucose. **2017**, 248, 374-384	98
1918	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. **2017**, 27, 1605817	137
1917	Nanosalina: A Tale of Saline-Loving Algae from the Lake's Agony to Cancer Therapy. **2017**, 9, 11528-11536	7
1916	Reusable, 3D-printed, peroxidase mimic□ncorporating multi-well plate for high-throughput glucose determination. **2017**, 247, 641-647	12
1915	Graphene Oxide Quantum Dots as Novel Nanozymes for Alcohol Intoxication. **2017**, 9, 12241-12252	64
1914	Molecular Imprinting for Substrate Selectivity and Enhanced Activity of Enzyme Mimics. **2017**, 13, 1602730	48
1913	[email□protected]2O3 Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. **2017**, 29, 1134-1146	49
1912	Multicopper Laccase Mimicking Nanozymes with Nucleotides as Ligands. **2017**, 9, 1352-1360	185
1911	AuPt Alloy Nanostructures with Tunable Composition and Enzyme-like Activities for Colorimetric Detection of Bisulfide. **2017**, 7, 40103	59
1910	Fabrication of novel metal-free "graphene alloy" for the highly efficient electrocatalytic reduction of HO. **2017**, 165, 143-151	16
1909	Fabrication of nanozyme@DNA hydrogel and its application in biomedical analysis. **2017**, 10, 959-970	44
1908	Protein-Directed Synthesis of Bifunctional Adsorbent-Catalytic Hemin-Graphene Nanosheets for Highly Efficient Removal of Dye Pollutants via Synergistic Adsorption and Degradation. **2017**, 9, 684-692	54
1907	Polyvinylpyrrolidone (PVP)-Capped Pt Nanocubes with Superior Peroxidase-Like Activity. **2017**, 3, 33-38	29
1906	Coral-like CeO/NiO nanocomposites with efficient enzyme-mimetic activity for biosensing application. **2017**, 74, 434-442	27
1905	Co 3 O 4 mirobelts: Preparation with the electrospinning technique and its investigation in peroxidase-like activity. **2017**, 399, 298-304	18

1904	Enhancement of the Intrinsic Peroxidase-Like Activity of Graphitic Carbon Nitride Nanosheets by ssDNAs and Its Application for Detection of Exosomes. **2017**, 89, 12327-12333	156
1903	Dopamine coated FeO nanoparticles as enzyme mimics for the sensitive detection of bacteria. **2017**, 53, 12306-12308	46
1902	Simple and rapid colorimetric detection of melanoma circulating tumor cells using bifunctional magnetic nanoparticles. **2017**, 142, 4788-4793	36
1901	Nanomaterials for the optical detection of fluoride. **2017**, 9, 17667-17680	28
1900	Hierarchical CNFs/MnCoO nanofibers as a highly active oxidase mimetic and its application in biosensing. **2017**, 28, 485708	24
1899	Fluorometric determination of ascorbic acid by exploiting its deactivating effect on the oxidase□mimetic properties of cobalt oxyhydroxide nanosheets. **2017**, 184, 4749-4755	27
1898	Monitoring of Heparin Activity in Live Rats Using Metal-Organic Framework Nanosheets as Peroxidase Mimics. **2017**, 89, 11552-11559	162
1897	Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. **2017**, 9, 35133-35140	82
1896	In-site encapsulating gold "nanowires" into hemin-coupled protein scaffolds through biomimetic assembly towards the nanocomposites with strong catalysis, electrocatalysis, and fluorescence properties. **2017**, 9, 16005-16011	26
1895	Nanomaterials connected to antibodies and molecularly imprinted polymers as bio/receptors for bio/sensor applications. **2017**, 9, 387-401	44
1894	Fibrous Nanozyme Dressings with Catalase-Like Activity for HO Reduction To Promote Wound Healing. **2017**, 9, 38024-38031	63
1893	Graphene Oxide: Structural Updates and Enzyme Mimetic Properties for Biomedical Applications. **2017**, 15-34	
1892	Core□shell molecularly imprinted particles. **2017**, 95, 110-121	54
1891	Competitive Inhibition of the Enzyme-Mimic Activity of Gd-Based Nanorods toward Highly Specific Colorimetric Sensing of l-Cysteine. **2017**, 33, 10006-10015	49
1890	Aggregation-induced accelerating peroxidase-like activity of gold nanoclusters and their applications for colorimetric Pb detection. **2017**, 53, 10160-10163	77
1889	In situ self-assembly of polarizing chromogen nanofibers catalyzed with hybrid films of gold nanoparticles and cellulose. **2017**, 28, 385602	
1888	Colorimetric aptasensor for the detection of Salmonella enterica serovar typhimurium using ZnFeO-reduced graphene oxide nanostructures as an effective peroxidase mimetics. **2017**, 261, 42-48	38
1887	Alkaline peroxidase activity of cupric oxide nanoparticles and its modulation by ammonia. **2017**, 142, 3986-3992	18

1886	Chitosan-gold nanoparticles as peroxidase mimic and their application in glucose detection in serum. **2017**, 7, 44463-44469	48
1885	A Redox Modulatory Mn O Nanozyme with Multi-Enzyme Activity Provides Efficient Cytoprotection to Human Cells in a Parkinson's Disease Model. **2017**, 56, 14267-14271	285
1884	A Redox Modulatory Mn3O4 Nanozyme with Multi-Enzyme Activity Provides Efficient Cytoprotection to Human Cells in a Parkinson's Disease Model. **2017**, 129, 14455-14459	65
1883	Catalytic Activity of Peptide-Nanoparticle Conjugates Regulated by a Conformational Change. **2017**, 18, 3557-3562	18
1882	Gold-Loaded Nanoporous Ferric Oxide Nanocubes with Peroxidase-Mimicking Activity for Electrocatalytic and Colorimetric Detection of Autoantibody. **2017**, 89, 11005-11013	87
1881	Enzymes as key features in therapeutic cell mimicry. **2017**, 118, 94-108	31
1880	Gold-platinum bimetallic nanoclusters with enhanced peroxidase-like activity and their integrated agarose hydrogel-based sensing platform for the colorimetric analysis of glucose levels in serum. **2017**, 142, 4106-4115	43
1879	A bimetallic (Co/2Fe) metal-organic framework with oxidase and peroxidase mimicking activity for colorimetric detection of hydrogen peroxide. **2017**, 184, 4629-4635	91
1878	The laccase-like reactivity of manganese oxide nanomaterials for pollutant conversion: rate analysis and cyclic voltammetry. **2017**, 7, 7756	20
1877	Enzymatically active free standing membranes based on an easy two step preparation from alginate catechol and glucose oxidase/peroxidase. **2017**, 529, 508-512	
1876	Confinement of Reactive Oxygen Species in an Artificial-Enzyme-Based Hollow Structure To Eliminate Adverse Effects of Photocatalysis on UV Filters. **2017**, 23, 13518-13524	12
1875	WSe few layers with enzyme mimic activity for high-sensitive and high-selective visual detection of glucose. **2017**, 9, 11806-11813	74
1874	Polyhydroxamicalkanoate as a bioinspired acetylcholinesterase-based catalyst for acetylthiocholine hydrolysis and organophosphorus dephosphorylation: experimental studies and theoretical insights. **2017**, 7, 3388-3398	3
1873	Self-Assembly of Nucleobase, Nucleoside and Nucleotide Coordination Polymers: From Synthesis to Applications. **2017**, 3, 670-684	42
1872	Peroxidase mimetic activity of FeO nanoparticle prepared based on magnetic hydrogels for hydrogen peroxide and glucose detection. **2017**, 506, 46-57	24
1871	Mimicking a Natural Enzyme System: Cytochrome c Oxidase-Like Activity of CuO Nanoparticles by Receiving Electrons from Cytochrome c. **2017**, 56, 9400-9403	41
1870	A facile synthesis of CuFeO/CuS/PPy ternary nanotubes as peroxidase mimics for the sensitive colorimetric detection of HO and dopamine. **2017**, 46, 11171-11179	42
1869	CoA-dependent coordination polymer as a novel electrochemical sensing platform for sensitive detection of hydrogen peroxide in biological environments. **2017**, 801, 306-314	4

1868	Fabrication of CeO2/rGO nanocomposites with oxidase-like activity and their application in colorimetric sensing of ascorbic acid. **2017**, 33, 540-545	12
1867	Evaluation of fluorogenic substrates for Ni/Co LDHs peroxidase mimic and application for determination of inhibitory effects of antioxidant. **2017**, 987, 98-104	16
1866	Facet-selective response of trigger molecule to CeO2 {1 1 0} for up-regulating oxidase-like activity. **2017**, 330, 746-752	49
1865	CoN Nanowires: Noble-Metal-Free Peroxidase Mimetic with Excellent Salt- and Temperature-Resistant Abilities. **2017**, 9, 29881-29888	63
1864	Protic ionic liquids as a versatile modulator and stabilizer in regulating artificial peroxidase activity of carbon materials for glucose colorimetric sensing. **2017**, 243, 333-340	10
1863	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. **2017**, 17, 5572-5579	167
1862	Colorimetric detection of streptomycin in milk based on peroxidase-mimicking catalytic activity of gold nanoparticles. **2017**, 7, 38471-38478	32
1861	Multivalency as a Design Criterion in Catalyst Development. **2017**, 153-176	
1860	Cu/Mn Double-Doped CeO Nanocomposites as Signal Tags and Signal Amplifiers for Sensitive Electrochemical Detection of Procalcitonin. **2017**, 89, 13349-13356	61
1859	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. **2017**, 11, 12210-12218	77
1858	Switching Peroxidase-Mimic Activity of Protein Stabilized Platinum Nanozymes by Sulfide Ions: Substrate Dependence, Mechanism, and Detection. **2017**, 33, 13811-13820	39
1857	Stereoselective Nanozyme Based on Ceria Nanoparticles Engineered with Amino Acids. **2017**, 23, 18146-18150	43
1856	A Cell-Mimicking Structure Converting Analog Volume Changes to Digital Colorimetric Output with Molecular Selectivity. **2017**, 17, 7926-7931	25
1855	Copper metal-organic polyhedra nanorods with high intrinsic peroxidase-like activity at physiological pH for bio-sensing. **2017**, 5, 9365-9370	22
1854	Advanced Nanomaterials in Biomedical, Sensor and Energy Applications. **2017**,	4
1853	Rapid one-pot fabrication of magnetic calcium phosphate nanoparticles immobilizing DNA and iron oxide nanocrystals using injection solutions for magnetofection and magnetic targeting. **2017**, 6, 51-61	12
1852	Imidazole-derived graphene nanocatalysts for organophosphate destruction: Powder and thin film heterogeneous reactions. **2017**, 356, 75-84	24
1851	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. **2017**, 129, 16298-16301	37

1850	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. **2017**, 56, 16082-16085		231
1849	A novel nanoenzyme based on Fe3O4 nanoparticles@thionine-imprinted polydopamine for electrochemical biosensing. **2017**, 253, 108-114		30
1848	Gold nanozyme-based paper chip for colorimetric detection of mercury ions. **2017**, 7, 2806		65
1847	Gold Nanorod-Mediated Photothermal Enhancement of the Biocatalytic Activity of a Polymer-Encapsulated Enzyme. **2017**, 29, 6308-6314		24
1846	A non-enzyme cascade amplification strategy for colorimetric assay of disease biomarkers. **2017**, 53, 9055-9058		22
1845	Platinum nanoparticles in nanobiomedicine. *Chemical Society Reviews*, **2017**, 46, 4951-4975	58.5	216
1844	Importance of the surface chemistry of nanoparticles on peroxidase-like activity. **2017**, 491, 15-18		14
1843	Catalytic Performance of Oligonucleotide-Templated Pt Nanozyme Evaluated by Laccase Substrates. **2017**, 147, 2144-2152		20
1842	An enzyme-mediated competitive colorimetric sensor based on Au@Ag bimetallic nanoparticles for highly sensitive detection of disease biomarkers. **2017**, 142, 2954-2960		31
1841	Colorimetric sensing of malathion using palladium-gold bimetallic nanozyme. **2017**, 92, 280-286		105
1840	Mechanisms underlying toxicity and stimulatory role of single-walled carbon nanotubes in Hyoscyamus niger during drought stress simulated by polyethylene glycol. **2017**, 324, 306-320		84
1839	One-step analysis of glucose and acetylcholine in water based on the intrinsic peroxidase-like activity of Ni/Co LDHs microspheres. **2017**, 5, 116-122		37
1838	MnO nanosheets as an artificial enzyme to mimic oxidase for rapid and sensitive detection of glutathione. **2017**, 90, 69-74		233
1837	High peroxidase-like activity of iron and nitrogen co-doped carbon dots and its application in immunosorbent assay. **2017**, 164, 1-6		88
1836	Cu-Ag bimetallic nanoparticles on reduced graphene oxide nanosheets as peroxidase mimic for glucose and ascorbic acid detection. **2017**, 238, 842-851		192
1835	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. **2017**, 110, 2-12		416
1834	Cytocompatible peroxidase mimic CuO:graphene nanosphere composite as colorimetric dual sensor for hydrogen peroxide and cholesterol with its logic gate implementation. **2017**, 240, 338-348		58
1833	Size-controlled preparation of peroxidase-like graphene-gold nanoparticle hybrids for the visible detection of norovirus-like particles. **2017**, 87, 558-565		93

1832	An ultrasensitive electrochemiluminescence immunosensor for NT-proBNP based on self-catalyzed luminescence emitter coupled with PdCu@carbon nanohorn hybrid. **2017**, 87, 779-785	43
1831	Reconstituting redox active centers of heme-containing proteins with biomineralized gold toward peroxidase mimics with strong intrinsic catalysis and electrocatalysis for HO detection. **2017**, 87, 1036-1043	15
1830	Titania-coated gold nanorods with expanded photocatalytic response. Enzyme-like glucose oxidation under near-infrared illumination. **2017**, 9, 1787-1792	38
1829	An automated method to evaluate the enzyme kinetics of □glucosidases. **2017**, 26, 382-388	1
1828	The peroxidase and oxidase-like activity of NiCoO mesoporous spheres: Mechanistic understanding and colorimetric biosensing. **2017**, 951, 124-132	60
1827	Reagentless colorimetric biosensing platform based on nanoceria within an agarose gel matrix. **2017**, 93, 226-233	30
1826	Antibody fragments as nanoparticle targeting ligands: a step in the right direction. **2017**, 8, 63-77	163
1825	Trace Iodide Dramatically Accelerates the Peroxidase Activity of VOx at ppb-Concentration Levels. **2017**, 2, 10854-10859	23
1824	Electrochemical sensing of hydrogen peroxide using brominated graphene as mimetic catalase. **2017**, 258, 1435-1444	29
1823	Maghemite Nanoparticles Acts as Nanozymes, Improving Growth and Abiotic Stress Tolerance in Brassica napus. **2017**, 12, 631	82
1822	Filling in the Gaps between Nanozymes and Enzymes: Challenges and Opportunities. **2017**, 28, 2903-2909	207
1821	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetic for Biomedical Applications. **2017**, 7, 3207-3227	309
1820	Incorporating gold nanoclusters and target-directed liposomes as a synergistic amplified colorimetric sensor for HER2-positive breast cancer cell detection. **2017**, 7, 899-911	50
1819	Low-Cost Nanocarbon-Based Peroxidases from Graphite and Carbon Fibers. **2017**, 7, 924	9
1818	3.29 Nanomaterials for Biological Sensing. **2017**, 635-656	2
1817	Boosting the Peroxidase-Like Activity of Nanostructured Nickel by Inducing Its 3+ Oxidation State in LaNiO Perovskite and Its Application for Biomedical Assays. **2017**, 7, 2277-2286	71
1816	Peroxidase-like activity of nanocrystalline cobalt selenide and its application for uric acid detection. **2017**, 12, 3295-3302	13
1815	Amplified visual immunosensor integrated with nanozyme for ultrasensitive detection of avian influenza virus. **2017**, 1, 338-345	14

1814	Recent Advances in Biosensor Development for Foodborne Virus Detection. **2017**, 1, 272-295		23
1813	Food-Grade Enzymes. **2017**, 587-603		5
1812	Theranostic DNAzymes. **2017**, 7, 1010-1025		135
1811	Hydrolysis of Phosphate Esters Catalyzed by Inorganic Iron Oxide Nanoparticles Acting as Biocatalysts. **2018**, 18, 294-310		18
1810	Visible-Light-Triggered Reactive-Oxygen-Species-Mediated Antibacterial Activity of Peroxidase-Mimic CuO Nanorods. **2018**, 1, 1694-1704		94
1809	Polypyrrole/copper nanoparticles composite thin films for high-sensing performance. **2018**, 75, 4753-4767		6
1808	Improved peroxidase mimetic activity of a mixture of WS nanosheets and silver nanoclusters for chemiluminescent quantification of HO and glucose. **2018**, 185, 190		28
1807	Nano-Assembly of Pamitoyl-Bioconjugated Coenzyme-A for Combinatorial Chemo-Biologics in Transcriptional Therapy. **2018**, 29, 1419-1427		3
1806	Protein-Directed Metal Oxide Nanoflakes with Tandem Enzyme-Like Characteristics: Colorimetric Glucose Sensing Based on One-Pot Enzyme-Free Cascade Catalysis. **2018**, 28, 1800018		149
1805	A Co,N co-doped hierarchically porous carbon hybrid as a highly efficient oxidase mimetic for glutathione detection. **2018**, 264, 312-319		88
1804	Engineering oligonucleotide-based peroxidase mimetics for the colorimetric assay of S1 nuclease. **2018**, 10, 1405-1412		6
1803	Carbon Nanozymes: Enzymatic Properties, Catalytic Mechanism, and Applications. **2018**, 57, 9224-9237		274
1802	DNA metallization: principles, methods, structures, and applications. *Chemical Society Reviews*, **2018**, 47, 4017-4072	58.5	108
1801	Manganese-Based Nanozymes: Multienzyme Redox Activity and Effect on the Nitric Oxide Produced by Endothelial Nitric Oxide Synthase. **2018**, 24, 8393-8403		43
1800	Fabrication of Pt-ZnO composite nanotube modified electrodes for the detection of H2O2. **2018**, 817, 176-183		26
1799	Atomistic simulation of the coupled adsorption and unfolding of protein GB1 on the polystyrenes nanoparticle surface. **2018**, 61, 1		6
1798	Improvement of mimetic peroxidase activity of gold nanoclusters on the luminol chemiluminescence reaction by surface modification with ethanediamine. **2018**, 33, 751-758		13
1797	Colorimetric Detection of Hg2+ Based on Enhancement of Peroxidase-like Activity of Chitosan-Gold Nanoparticles. **2018**, 39, 625-630		20

1796	Versatile Three-Dimensional Porous Cu@Cu2O Aerogel Networks as Electrocatalysts and Mimicking Peroxidases. **2018**, 130, 6935-6940	17
1795	Self-templated fabrication of FeMnO nanoparticle-filled polypyrrole nanotubes for peroxidase mimicking with a synergistic effect and their sensitive colorimetric detection of glutathione. **2018**, 54, 5827-5830	69
1794	Kohlenstoff-Nanozyme: Enzymatische Eigenschaften, Katalysemechanismen und Anwendungen. **2018**, 130, 9366-9379	11
1793	Versatile Three-Dimensional Porous Cu@Cu O Aerogel Networks as Electrocatalysts and Mimicking Peroxidases. **2018**, 57, 6819-6824	106
1792	A fluorescence and colorimetric dual-mode assay of alkaline phosphatase activity via destroying oxidase-like CoOOH nanoflakes. **2018**, 6, 2843-2850	67
1791	Bioinspired Design of Fe -Doped Mesoporous Carbon Nanospheres for Enhanced Nanozyme Activity. **2018**, 24, 7259-7263	45
1790	Horseradish peroxidase-nanoclay hybrid particles of high functional and colloidal stability. **2018**, 524, 114-121	19
1789	Regulating the surface of nanoceria and its applications in heterogeneous catalysis. **2018**, 73, 1-36	95
1788	ROS scavenging MnO nanozymes for anti-inflammation. **2018**, 9, 2927-2933	251
1787	Exquisite Enzyme-Fenton Biomimetic Catalysts for Hydroxyl Radical Production by Mimicking an Enzyme Cascade. **2018**, 10, 8666-8675	19
1786	Dendritic fibrous nano-silica supported gold nanoparticles as an artificial enzyme. **2018**, 6, 1600-1604	47
1785	Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO2 Nanorods Decorated With Au Nanoparticles. **2018**, 65, 2052-2057	4
1784	Highly sensitive and selective colorimetric detection of glutathione via enhanced Fenton-like reaction of magnetic metal organic framework. **2018**, 262, 95-101	34
1783	A Facile synthesis of superparamagnetic Fe3O4 nanofibers with superior peroxidase-like catalytic activity for sensitive colorimetric detection of l-cysteine. **2018**, 440, 237-244	45
1782	3D flower-like ferrous(II) phosphate nanostructures as peroxidase mimetics for sensitive colorimetric detection of hydrogen peroxide and glucose at nanomolar level. **2018**, 182, 230-240	46
1781	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. **2018**, 24, 9703-9713	53
1780	A highly selective colorimetric sulfide assay based on the inhibition of the peroxidase-like activity of copper nanoclusters. **2018**, 185, 143	29
1779	Facile preparation of Prussian blue/polypyrrole hybrid nanofibers as robust peroxidase mimics for colorimetric detection of L-cysteine. **2018**, 2, 768-774	16

1778	Intrinsic Triple-Enzyme Mimetic Activity of V6O13 Nanotextiles: Mechanism Investigation and Colorimetric and Fluorescent Detections. **2018**, 57, 2416-2425	33
1777	Sandwich Assay for Pathogen and Cells Detection. **2018**, 183-197	1
1776	Colorimetric Sandwich Assays for Protein Detection. **2018**, 15-27	
1775	Nanoisozymes: Crystal-Facet-Dependent Enzyme-Mimetic Activity of V O Nanomaterials. **2018**, 57, 4510-4515	124
1774	Nanoisozymes: Crystal-Facet-Dependent Enzyme-Mimetic Activity of V2O5 Nanomaterials. **2018**, 130, 4600-4605	53
1773	Dual nanoenzyme modified microelectrode based on carbon fiber coated with AuPd alloy nanoparticles decorated graphene quantum dots assembly for electrochemical detection in clinic cancer samples. **2018**, 107, 153-162	60
1772	Highly sensitive colorimetric detection of allergies based on an immunoassay using peroxidase-mimicking nanozymes. **2018**, 143, 1182-1187	12
1771	A label-free fluorescence assay for hydrogen peroxide and glucose based on the bifunctional MIL-53(Fe) nanozyme. **2018**, 54, 1762-1765	78
1770	MiRNA extraction from cell-free biofluid using protein corona formed around carboxyl magnetic nanoparticles. **2018**, 4, 654-662	10
1769	Formation of PtCuCo Trimetallic Nanostructures with Enhanced Catalytic and Enzyme-like Activities for Biodetection. **2018**, 1, 222-231	33
1768	High-performance electrochemical mercury aptasensor based on synergistic amplification of Pt nanotube arrays and FeO/rGO nanoprobes. **2018**, 104, 1-7	29
1767	A dual-cell device designed as an oxidase mimic and its use for the study of oxidase-like nanozymes. **2018**, 54, 818-820	13
1766	Nanozyme Decorated Metal-Organic Frameworks for Enhanced Photodynamic Therapy. **2018**, 12, 651-661	464
1765	The designing strategies of graphene-based peroxidase mimetic materials. **2018**, 61, 266-275	9
1764	Potential toxicity of nano-graphene oxide on callus cell of Plantago major L. under polyethylene glycol-induced dehydration. **2018**, 148, 910-922	30
1763	Peroxidase-like activity of MoS nanoflakes with different modifications and their application for HO and glucose detection. **2018**, 6, 487-498	103
1762	Encapsulated cholesterol oxidase in metal-organic framework and biomimetic Ag nanocluster decorated MoS2 nanosheets for sensitive detection of cholesterol. **2018**, 259, 402-410	49
1761	PdRu Bimetallic Nanocrystals with a Porous Structure and Their Enhanced Catalytic Properties. **2018**, 35, 1700386	10

1760	Synthesis of hierarchical CoO@NiO core-shell nanotubes with a synergistic catalytic activity for peroxidase mimicking and colorimetric detection of dopamine. **2018**, 181, 431-439	60
1759	Prussian Blue Nanoparticles as a Catalytic Label in a Sandwich Nanozyme-Linked Immunosorbent Assay. **2018**, 90, 2348-2354	79
1758	Biosensors Based on Sandwich Assays. **2018**,	4
1757	An ultrasensitive electrochemical cytosensor based on the magnetic field assisted binanozymes synergistic catalysis of Fe3O4 nanozyme and reduced graphene oxide/molybdenum disulfide nanozyme. **2018**, 260, 676-684	46
1756	Tobacco Mosaic Virus with Peroxidase-Like Activity for Cancer Cell Detection through Colorimetric Assay. **2018**, 15, 2946-2953	15
1755	Superior peroxidase mimetic activity of tungsten disulfide nanosheets/silver nanoclusters composite: Colorimetric, fluorometric and electrochemical studies. **2018**, 515, 39-49	28
1754	Selenium-Based Nanozyme as Biomimetic Antioxidant Machinery. **2018**, 24, 10224	27
1753	In vivo guiding nitrogen-doped carbon nanozyme for tumor catalytic therapy. **2018**, 9, 1440	480
1752	ssDNA-tailorable oxidase-mimicking activity of spinel MnCo2O4 for sensitive biomolecular detection in food sample. **2018**, 269, 79-87	46
1751	Accelerating the Peroxidase-Like Activity of Gold Nanoclusters at Neutral pH for Colorimetric Detection of Heparin and Heparinase Activity. **2018**, 90, 6247-6252	138
1750	Microwave-Assisted Fabrication of Bimetallic PdCu Nanocorals with Enhanced Peroxidase-Like Activity and Efficiency for Thiocyanate Sensing. **2018**, 1, 2397-2405	34
1749	Structure and magnetic properties of synthesized fine cerium dioxide nanoparticles. **2018**, 753, 167-175	9
1748	Hunting for the Sweet Spot: Effects of Contiguous Guanines and Strand Lengths on the Catalytic Performance of DNA-Based Peroxidase Mimetics. **2018**, 148, 1723-1730	3
1747	Biominerized gold-Hemin@MOF composites with peroxidase-like and gold catalysis activities: A high-throughput colorimetric immunoassay for alpha-fetoprotein in blood by ELISA and gold-catalytic silver staining. **2018**, 266, 543-552	52
1746	Semiconducting CuO Nanotubes: Synthesis, Characterization, and Bifunctional Photocathodic Enzymatic Bioanalysis. **2018**, 90, 5439-5444	36
1745	Integrated nanozymes: facile preparation and biomedical applications. **2018**, 54, 6520-6530	95
1744	Rational Design of Au@Pt Multibranched Nanostructures as Bifunctional Nanozymes. **2018**, 10, 12954-12959	77
1743	A supramolecular approach to construct a hydrolase mimic with photo-switchable catalytic activity. **2018**, 6, 2444-2449	26

1742	Nanozymatic Antioxidant System Based on MoS Nanosheets. **2018**, 10, 12453-12462	91
1741	Magnetic Nanozyme-Linked Immunosorbent Assay for Ultrasensitive Influenza A Virus Detection. **2018**, 10, 12534-12543	101
1740	Enzyme inspired complexes for industrial CO2 capture: Opportunities and challenges. **2018**, 24, 419-429	28
1739	A smartphone-integrated ready-to-use paper-based sensor with mesoporous carbon-dispersed Pd nanoparticles as a highly active peroxidase mimic for H2O2 detection. **2018**, 265, 412-420	78
1738	A facile and stable colorimetric sensor based on three-dimensional graphene/mesoporous Fe3O4 nanohybrid for highly sensitive and selective detection of p-nitrophenol. **2018**, 266, 86-94	37
1737	Conducting polymer-based peroxidase mimics: synthesis, synergistic enhanced properties and applications. **2018**, 61, 653-670	33
1736	Planar intercalated copper (II) complex molecule as small molecule enzyme mimic combined with FeO nanozyme for bienzyme synergistic catalysis applied to the microRNA biosensor. **2018**, 110, 110-117	45
1735	Leafy copper-cobalt nanostructures/three-dimensional porous carbon for glucose sensing. **2018**, 24, 3199-3207	3
1734	Nanostructured silver fabric as a free-standing NanoZyme for colorimetric detection of glucose in urine. **2018**, 110, 8-15	141
1733	An iron hydroxyl phosphate microoctahedron catalyst as an efficient peroxidase mimic for sensitive and colorimetric quantification of H2O2 and glucose. **2018**, 42, 6803-6809	11
1732	Uricase-free on-demand colorimetric biosensing of uric acid enabled by integrated CoP nanosheet arrays as a monolithic peroxidase mimic. **2018**, 1021, 113-120	55
1731	Sensitive electrogenerated chemiluminescence biosensors for protein kinase activity analysis based on bimetallic catalysis signal amplification and recognition of Au and Pt loaded metal-organic frameworks nanocomposites. **2018**, 109, 132-138	44
1730	Antioxidant activity of nanomaterials. **2018**, 6, 2036-2051	101
1729	Construction of surface charge-controlled reduced graphene oxide-loaded FeO and Pt nanohybrid for peroxidase mimic with enhanced catalytic activity. **2018**, 1014, 77-84	19
1728	Polydopamine films and particles with catalytic activity. **2018**, 301, 196-203	47
1727	Self-sacrificial template synthesis of mixed-valence-state cobalt nanomaterials with high catalytic activities for colorimetric detection of glutathione. **2018**, 254, 329-336	18
1726	Selenium-functionalized metal-organic frameworks as enzyme mimics. **2018**, 11, 5761-5768	24
1725	Elimination of background color interference by immobilizing Prussian blue on carbon cloth: A monolithic peroxidase mimic for on-demand photometric sensing. **2018**, 256, 151-159	25

1724	Janus DNA orthogonal adsorption of graphene oxide and metal oxide nanoparticles enabling stable sensing in serum. **2018**, 5, 65-69	73
1723	Emerging Biomedical Applications of Enzyme-Like Catalytic Nanomaterials. **2018**, 36, 15-29	113
1722	Platinum Nanoparticle-Based Microreactors as Support for Neuroblastoma Cells. **2018**, 10, 7581-7592	17
1721	Antioxidative study of Cerium Oxide nanoparticle functionalised PCL-Gelatin electrospun fibers for wound healing application. **2018**, 3, 201-211	91
1720	Synthesis and catalytic evaluation of Fe3O4/MWCNTs nanozyme as recyclable peroxidase mimetics: Biochemical and physicochemical characterization. **2018**, 32, e4018	9
1719	Peroxidase-Mimicking Nanozyme with Enhanced Activity and High Stability Based on Metal-Support Interactions. **2018**, 24, 409-415	46
1718	Fabrication of cobalt ferrite/cobalt sulfide hybrid nanotubes with enhanced peroxidase-like activity for colorimetric detection of dopamine. **2018**, 511, 383-391	40
1717	Rapid and sensitive colorimetric detection of ascorbic acid in food based on the intrinsic oxidase-like activity of MnO nanosheets. **2018**, 33, 145-152	36
1716	Novel amine-functionalized iron trimesates with enhanced peroxidase-like activity and their applications for the fluorescent assay of choline and acetylcholine. **2018**, 100, 161-168	65
1715	Ultrasensitive chemiluminescent biosensor for the detection of cholesterol based on synergetic peroxidase-like activity of MoS and graphene quantum dots. **2018**, 178, 992-1000	63
1714	High peroxidase-like activity of metallic cobalt nanoparticles encapsulated in metal□organic frameworks derived carbon for biosensing. **2018**, 255, 2050-2057	52
1713	Peroxidase-like activity of Au@TiO2 yolk-shell nanostructure and its application for colorimetric detection of H2O2 and glucose. **2018**, 257, 166-177	51
1712	Mesoporous Iron Oxide Synthesized Using Poly(styrene-b-acrylic acid-b-ethylene glycol) Block Copolymer Micelles as Templates for Colorimetric and Electrochemical Detection of Glucose. **2018**, 10, 1039-1049	67
1711	Metastable □AgVO microrods as peroxidase mimetics for colorimetric determination of HO. **2017**, 185, 1	203
1710	Simultaneous determination of codeine and its co-formulated drugs acetaminophen and caffeine by utilising cerium oxide nanoparticles modified screen-printed electrodes. **2018**, 259, 142-154	39
1709	Microfluidic paper-based device for colorimetric determination of glucose based on a metal-organic framework acting as peroxidase mimetic. **2017**, 185, 47	53
1708	Enhanced Electrocatalytic Activity of p-CuO/n-CeO2-Heterojunction-Based Nanocomposites for Superoxide Determination: Influence of the Cu/Ce Ratio. **2018**, 4, 213-219	3
1707	Colorimetric logic gate for alkaline phosphatase based on copper (II)-based metal-organic frameworks with peroxidase-like activity. **2018**, 1004, 74-81	91

1706	Nitrosoreductase-Like Nanocatalyst for Ultrasensitive and Stable Biosensing. **2018**, 90, 807-813	17
1705	Copper (II) oxide nanozyme based electrochemical cytosensor for high sensitive detection of circulating tumor cells in breast cancer. **2018**, 812, 1-9	46
1704	In situ growth of copper oxide-graphite carbon nitride nanocomposites with peroxidase-mimicking activity for electrocatalytic and colorimetric detection of hydrogen peroxide. **2018**, 129, 29-37	57
1703	Magnetically controlled immunosensor for highly sensitive detection of carcinoembryonic antigen based on an efficient □urn-on□cyanine fluorophore. **2018**, 258, 133-140	8
1702	Visual detection of cyanide ions by membrane-based nanozyme assay. **2018**, 102, 510-517	42
1701	A novel electrochemiluminescence immunosensor based on functional □cyclodextrin-ferrocene host-guest complex with multiple signal amplification. **2018**, 258, 1146-1151	19
1700	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. **2017**, 185, 7	75
1699	Intrinsic peroxidase-like activity of rhodium nanoparticles, and their application to the colorimetric determination of hydrogen peroxide and glucose. **2017**, 185, 22	84
1698	Mimetic Ag nanoparticle/Zn-based MOF nanocomposite (AgNPs@ZnMOF) capped with molecularly imprinted polymer for the selective detection of patulin. **2018**, 179, 710-718	91
1697	A novel strategy to construct supported Pd nanocomposites with synergistically enhanced catalytic performances. **2018**, 11, 3272-3281	11
1696	Few-layered MoSe nanosheets as an efficient peroxidase nanozyme for highly sensitive colorimetric detection of HO and xanthine. **2018**, 6, 105-111	55
1695	Photosensitization of Molecular Oxygen on Graphene Oxide for Ultrasensitive Signal Amplification. **2018**, 24, 2602-2608	17
1694	Novel urchin-like Co9S8 nanomaterials with efficient intrinsic peroxidase-like activity for colorimetric sensing of copper (II) ion. **2018**, 258, 32-41	32
1693	Ultrasensitive electrochemical immunosensor for quantitative detection of HBeAg using Au@Pd/MoS@MWCNTs nanocomposite as enzyme-mimetic labels. **2018**, 102, 189-195	58
1692	. **2018**,	6
1691	Surface charge engineering of nanosized CuS via acidic amino acid modification enables high peroxidase-mimicking activity at neutral pH for one-pot detection of glucose. **2018**, 54, 13443-13446	53
1690	Hierarchical manganese dioxide nanoflowers enable accurate ratiometric fluorescence enzyme-linked immunosorbent assay. **2018**, 10, 21893-21897	32
1689	Reversible pH switchable oxidase-like activities of MnO nanosheets for a visual molecular majority logic gate. **2018**, 20, 28644-28648	22

1688	Water dispersed two-dimensional ultrathin Fe(iii)-modified covalent triazine framework nanosheets: peroxidase like activity and colorimetric biosensing applications. **2018**, 10, 20120-20125	13
1687	An ultrathin iron-porphyrin based nanocapsule with high peroxidase-like activity for highly sensitive glucose detection. **2018**, 10, 22155-22160	19
1686	Cobalt and nickel bimetallic sulfide nanoparticles immobilized on montmorillonite demonstrating peroxidase-like activity for H2O2 detection. **2018**, 42, 18749-18758	31
1685	Highly active fluorogenic oxidase-mimicking NiO nanozymes. **2018**, 54, 12519-12522	56
1684	Size- and defect-controlled anti-oxidant enzyme mimetic and radical scavenging properties of cerium oxide nanoparticles. **2018**, 42, 18810-18823	23
1683	Novel Approaches to the Control of Oral Microbial Biofilms. **2018**, 2018, 6498932	45
1682	Colorimetric DNA assay by exploiting the DNA-controlled peroxidase mimicking activity of mesoporous silica loaded with platinum nanoparticles. **2018**, 185, 544	7
1681	Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. **2018**, 30, 8391-8414	26
1680	Application of Hierarchical CuO Bowl-like Array Film to Amperometric Detection of l-Ascorbic Acid. **2018**, 34, 1225-1230	1
1679	Redox nanoparticles: synthesis, properties and perspectives of use for treatment of neurodegenerative diseases. **2018**, 16, 87	26
1678	Dual Responsive Enzyme Mimicking of Ternary Polyaniline□MnO2□Pd Nanowires and Its Application in Colorimetric Biosensing. **2018**, 6, 16482-16492	24
1677	Iron oxide nanozyme suppresses intracellular Enteritidis growth and alleviates infection. **2018**, 8, 6149-6162	60
1676	A highly stable black phosphorene nanocomposite for voltammetric detection of clenbuterol. **2018**, 185, 566	22
1675	Enhanced Peroxidase-Like Activity of MoS□Quantum Dots Functionalized g-C□N□Nanosheets towards Colorimetric Detection of H□O□. **2018**, 8,	15
1674	Nanozymes in Nanofibrous Mats with Haloperoxidase-like Activity To Combat Biofouling. **2018**, 10, 44722-44730	31
1673	Superoxide dismutase mimetic ability of Mn-doped ZnS QDs. **2018**, 29, 1865-1868	15
1672	A novel antibacterial agent based on AgNPs and FeO loaded chitin microspheres with peroxidase-like activity for synergistic antibacterial activity and wound-healing. **2018**, 552, 277-287	36
1671	Substrate-Induced Self-Assembly of Cooperative Catalysts. **2018**, 57, 16469-16474	53

1670	Nanozyme as Artificial Receptor with Multiple Readouts for Pattern Recognition. **2018**, 90, 11775-11779	66
1669	Sensitive and selective colorimetric detection of alkaline phosphatase activity based on phosphate anion-quenched oxidase-mimicking activity of Ce(IV) ions. **2018**, 1044, 154-161	41
1668	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. **2018**, 140, 13449-13455	45
1667	Magnetite and Zinc Oxide Nanoparticles Alleviated Heat Stress in Wheat Plants. **2018**, 3, 32-43	20
1666	N-Heterocyclic Carbene-Modified Au-Pd Alloy Nanoparticles and Their Application as Biomimetic and Heterogeneous Catalysts. **2018**, 24, 18682-18688	19
1665	"Non-Naked" Gold with Glucose Oxidase-Like Activity: A Nanozyme for Tandem Catalysis. **2018**, 14, e1803256	95
1664	Effect of CTAB coating on structural, magnetic and peroxidase mimic activity of ferric oxide nanoparticles. **2018**, 41, 1	12
1663	Colorimetric determination of dopamine by exploiting the enhanced oxidase mimicking activity of hierarchical NiCoS-rGO composites. **2018**, 185, 496	17
1662	Fe-N-C Artificial Enzyme: Activation of Oxygen for Dehydrogenation and Monoxygenation of Organic Substrates under Mild Condition and Cancer Therapeutic Application. **2018**, 10, 35327-35333	47
1661	Ultrasmall Nanozymes Isolated within Porous Carbonaceous Frameworks for Synergistic Cancer Therapy: Enhanced Oxidative Damage and Reduced Energy Supply. **2018**, 30, 7831-7839	59
1660	Substrate-Induced Self-Assembly of Cooperative Catalysts. **2018**, 130, 16707-16712	29
1659	Mesoporous MnCo2O4 with efficient peroxidase mimetic activity for detection of H2O2. **2018**, 98, 184-191	7
1658	Recent advances in gold and silver nanoparticle based therapies for lung and breast cancers. **2018**, 553, 483-509	39
1657	A review on electrochemical biosensing platform based on layered double hydroxides for small molecule biomarkers determination. **2018**, 262, 21-38	75
1656	Carbon Dot Nanozymes: How to Be Close to Natural Enzymes. **2019**, 25, 954-960	19
1655	Adenosine-Related Compounds as an Enhancer for Peroxidase-Mimicking Activity of Nanomaterials: Application to Sensing of Heparin Level in Human Plasma and Total Sulfate Glycosaminoglycan Content in Synthetic Cerebrospinal Fluid. **2018**, 10, 37846-37854	16
1654	Single Particle Automated Raman Trapping Analysis. **2018**, 9, 4256	19
1653	Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. **2018**, 57, 16791-16795	54

1652	Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. **2018**, 130, 17033-17037	7
1651	Manganese oxide nanoparticle-induced changes in growth, redox reactions and elicitation of antioxidant metabolites in deadly nightshade (Atropa belladonna L.). **2018**, 126, 403-414	40
1650	Fe3C/Nitrogen-Doped Carbon Nanofibers as Highly Efficient Biocatalyst with Oxidase-Mimicking Activity for Colorimetric Sensing. **2018**, 6, 16766-16776	31
1649	Guide to Selecting a Biorecognition Element for Biosensors. **2018**, 29, 3231-3239	142
1648	CoO nanocrystals as an efficient catalase mimic for the colorimetric detection of glutathione. **2018**, 6, 6858-6864	31
1647	Carbon Dots/Cu2O Composite with Intrinsic High Protease-Like Activity for Hydrolysis of Proteins under Physiological Conditions. **2018**, 35, 1800277	6
1646	Plasmonic Cu/CuCl/Cu2S/Ag and Cu/CuCl/Cu2S/Au Supports with Peroxidase-Like Activity: Insights from Surface Enhanced Raman Spectroscopy. **2018**, 232, 1541-1550	2
1645	Colorimetric aptasensor for Campylobacter jejuni cells by exploiting the peroxidase like activity of Au@Pd nanoparticles. **2018**, 185, 448	59
1644	Microwave-Assisted Facile Synthesis of Eu(OH) Nanoclusters with Pro-Proliferative Activity Mediated by miR-199a-3p. **2018**, 10, 31044-31053	3
1643	Computational optimization of electric fields for better catalysis design. **2018**, 1, 649-655	93
1642	Three hidden talents in one framework: a terephthalic acid-coordinated cupric metal-organic framework with cascade cysteine oxidase- and peroxidase-mimicking activities and stimulus-responsive fluorescence for cysteine sensing. **2018**, 6, 6207-6211	28
1641	Exploration of Intrinsic Lipase-Like Activity of Zirconium-Based Metal-Organic Frameworks. **2018**, 2018, 4579-4585	13
1640	An Unusual Two-Step Hydrolysis of Nerve Agents by a Nanozyme. **2018**, 10, 4826-4831	14
1639	Advanced Smart Nanomaterials with Integrated Logic-Gating and Biocomputing: Dawn of Theranostic Nanorobots. **2018**, 118, 10294-10348	90
1638	Prompting peroxidase-like activity of gold nanorod composites by localized surface plasmon resonance for fast colorimetric detection of prostate specific antigen. **2018**, 143, 5038-5045	9
1637	A Novel AuNP-Based Glucose Oxidase Mimic with Enhanced Activity and Selectivity Constructed by Molecular Imprinting and O2-Containing Nanoemulsion Embedding. **2018**, 5, 1801070	20
1636	Protamine-gold nanoclusters as peroxidase mimics and the selective enhancement of their activity by mercury ions for highly sensitive colorimetric assay of Hg(II). **2018**, 410, 7385-7394	21
1635	A sandwich-type electrochemiluminescence aptasensor for insulin detection based on the nano-C60/BSA@luminol nanocomposite and ferrocene derivative. **2018**, 290, 90-97	15

1634	Bio-nano: Theranostic at Cellular Level. **2018**, 85-170	1
1633	Nanozyme Sensor Arrays for Detecting Versatile Analytes from Small Molecules to Proteins and Cells. **2018**, 90, 11696-11702	97
1632	Enzymatic activity of Fe-grafted mesoporous silica nanoparticles: an insight into H2O2 and glucose detection. **2018**, 42, 16060-16068	5
1631	Role of cerium oxide in bioactive glasses during catalytic dissociation of hydrogen peroxide. **2018**, 20, 23507-23514	2
1630	Magnetic-metal organic framework (magnetic-MOF): A novel platform for enzyme immobilization and nanozyme applications. **2018**, 120, 2293-2302	90
1629	Porphyrin-based porous organic framework: An efficient and stable peroxidase-mimicking nanozyme for detection of H2O2 and evaluation of antioxidant. **2018**, 277, 86-94	36
1628	Palladium nanoparticles supported on mesoporous silica microspheres for enzyme-free amperometric detection of H2O2 released from living cells. **2018**, 276, 517-525	21
1627	Heterogeneous Nanostructure Design Based on the Epitaxial Growth of Spongy MoS on 2D Co(OH) Nanoflakes for Triple-Enzyme Mimetic Activity: Experimental and Density Functional Theory Studies on the Dramatic Activation Mechanism. **2018**, 10, 32567-32578	20
1626	Fullerol improves seed germination, biomass accumulation, photosynthesis and antioxidant system in Brassica napus L. under water stress. **2018**, 129, 130-140	38
1625	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. **2018**, 105, 218-224	319
1624	Intracellular Chemistry: Integrating Molecular Inorganic Catalysts with Living Systems. **2018**, 24, 10584-10594	43
1623	Multifunctional nanozymes: enzyme-like catalytic activity combined with magnetism and surface plasmon resonance. **2018**, 3, 367-382	66
1622	A Metal Chelator as a Plasmonic Signal-Generation Superregulator for Ultrasensitive Colorimetric Bioassays of Disease Biomarkers. **2018**, 5, 1800295	15
1621	Amplification of surface-enhanced Raman scattering by the oxidation of capping agents on gold nanoparticles.. **2018**, 8, 19051-19057	8
1620	Bio-pesticidal effects of Trichoderma viride formulated titanium dioxide nanoparticle and their physiological and biochemical changes on Helicoverpa armigera (Hub.). **2018**, 149, 26-36	31
1619	Synthesis, structure and effective peroxidase-like activity of a stable polyoxometalate-pillared metal–organic framework with multinuclear cycles. **2018**, 151, 206-212	11
1618	Future trends in the market for electrochemical biosensing. **2018**, 10, 107-111	42
1617	Unraveling the Enzymatic Activity of Oxygenated Carbon Nanotubes and Their Application in the Treatment of Bacterial Infections. **2018**, 18, 3344-3351	120

1616	Chitosan as a peroxidase mimic: Paper based sensor for the detection of hydrogen peroxide. **2018**, 272, 8-13	28
1615	Encapsulation of Co3O4 Nanoparticles Inside CeO2 Nanotubes: An Efficient Biocatalyst for the Ultrasensitive Detection of Ascorbic Acid. **2018**, 35, 1800049	11
1614	One-step three-dimensional printing of enzyme/substrate-incorporated devices for glucose testing. **2018**, 1036, 133-140	12
1613	Dual-mode fluorescent and colorimetric immunoassay for the ultrasensitive detection of alpha-fetoprotein in serum samples. **2018**, 1038, 112-119	14
1612	Remote activation of nanoparticulate biomimetic activity by light triggered pH-jump. **2018**, 54, 8641-8644	8
1611	Nanomaterials as Catalysts. **2018**, 45-82	9
1610	Standardized assays for determining the catalytic activity and kinetics of peroxidase-like nanozymes. **2018**, 13, 1506-1520	336
1609	Applications of Organized Films at Solid□iquid and Liquid□as Interfaces. **2018**, 21, 405-425	
1608	Peroxidase mimetic activity of fluorescent NS-carbon quantum dots and their application in colorimetric detection of HO and glutathione in human blood serum. **2018**, 6, 5256-5268	59
1607	A highly-sensitive VB electrochemical sensor based on one-step co-electrodeposited molecularly imprinted WS-PEDOT film supported on graphene oxide-SWCNTs nanocomposite. **2018**, 92, 77-87	24
1606	Solution-Phase Synthesis of Platinum Nanoparticle-Decorated Metal-Organic Framework Hybrid Nanomaterials as Biomimetic Nanoenzymes for Biosensing Applications. **2018**, 10, 24108-24115	79
1605	CeO nanorods with intrinsic urease-like activity. **2018**, 10, 13074-13082	36
1604	Ag -Gated Surface Chemistry of Gold Nanoparticles and Colorimetric Detection of Acetylcholinesterase. **2018**, 14, e1801680	32
1603	Histidine-mediated tunable peroxidase-like activity of nanosized Pd for photometric sensing of Ag+. **2018**, 273, 400-407	61
1602	Porous nanozymes: the peroxidase-mimetic activity of mesoporous iron oxide for the colorimetric and electrochemical detection of global DNA methylation. **2018**, 6, 4783-4791	59
1601	Topical ferumoxytol nanoparticles disrupt biofilms and prevent tooth decay in vivo via intrinsic catalytic activity. **2018**, 9, 2920	79
1600	Visual detection of peroxide-based explosives using novel mimetic Ag nanoparticle/ZnMOF nanocomposite. **2018**, 360, 233-242	34
1599	Ultrasensitive colorimetric sensing strategy based on ascorbic acid triggered remarkable photoactive-nanoperoxidase for signal amplification and its application to □glucosidase activity detection. **2018**, 190, 103-109	20

1598	Iridium nanocrystals encapsulated liposomes as near-infrared light controllable nanozymes for enhanced cancer radiotherapy. **2018**, 181, 81-91	89
1597	Visible Light-Activatable Oxidase Mimic of 9-Mesityl-10-Methylacridinium Ion for Colorimetric Detection of Biothiols and Logic Operations. **2018**, 90, 9959-9965	44
1596	Review on nanoparticles and nanostructured materials: history, sources, toxicity and regulations. **2018**, 9, 1050-1074	1401
1595	2D-Metal-Organic-Framework-Nanozyme Sensor Arrays for Probing Phosphates and Their Enzymatic Hydrolysis. **2018**, 90, 9983-9989	117
1594	On the origin of the synergy between the Pt nanoparticles and MnO nanosheets in Wonton-like 3D nanozyme oxidase mimics. **2018**, 121, 159-165	58
1593	Multi mimetic Graphene Palladium nanocomposite based colorimetric paper sensor for the detection of neurotransmitters. **2018**, 273, 1385-1394	13
1592	Graphene oxide-gold nanozyme for highly sensitive electrochemical detection of hydrogen peroxide. **2018**, 274, 201-209	39
1591	Preparation of porphyrin modified CO9S8 nanocomposites and application for colorimetric biosensing of H2O2. **2018**, 22, 935-943	12
1590	Synergistically enhanced peroxidase-like activity of Pd nanoparticles dispersed on CeO2 nanotubes and their application in colorimetric sensing of sulfhydryl compounds. **2018**, 53, 13912-13923	19
1589	Artificial cerium-based proenzymes confined in lyotropic liquid crystals: synthetic strategy and on-demand activation. **2018**, 6, 4920-4928	5
1588	Enhancing the sensitivity of colorimetric lateral flow assay (CLFA) through signal amplification techniques. **2018**, 6, 7102-7111	45
1587	Cu MOF-based catalytic sensing for formaldehyde. **2018**, 6, 8105-8114	28
1586	Synthesis of Porous CoFe□□ and Its Application as a Peroxidase Mimetic for Colorimetric Detection of H□□ and Organic Pollutant Degradation. **2018**, 8,	25
1585	An Antibody-Immobilized Silica Inverse Opal Nanostructure for Label-Free Optical Biosensors. **2018**, 18,	38
1584	Effective Peroxidase-Like Activity of Co-Aminoclay [CoAC] and Its Application for Glucose Detection. **2018**, 18,	7
1583	Plant and Nanoparticle Interface at the Molecular Level. **2018**, 325-344	1
1582	Fabricating carbon-nanotubes-based porous foam for superoxide electrochemical sensing through one-step hydrothermal process induced by phytic acid. **2018**, 1038, 132-139	8
1581	Nanozymes for Biomedical Sensing Applications: From In Vitro to Living Systems. **2018**, 171-209	2

1580	The biomimic oxidase activity of layered V2O5 nanozyme for rapid and sensitive nanomolar detection of glutathione. **2018**, 273, 1179-1186	50
1579	Fe-Porphyrin-Based Covalent Organic Framework As a Novel Peroxidase Mimic for a One-Pot Glucose Colorimetric Assay.. **2018**, 1, 382-388	37
1578	Integrated Antibody with Catalytic Metal-Organic Framework for Colorimetric Immunoassay. **2018**, 10, 25113-25120	63
1577	Bioinspired Nanozymes with pH-Independent and Metal Ions-Controllable Activity: Field-Programmable Logic Conversion of Sole Logic Gate System. **2018**, 35, 1800207	12
1576	Polydopamine Nanoparticles as Efficient Scavengers for Reactive Oxygen Species in Periodontal Disease. **2018**, 12, 8882-8892	193
1575	Diverse applications of TMB-based sensing probes. **2018**, 16, 5667-5676	6
1574	Impact of Nanoparticles on Oxidative Stress and Responsive Antioxidative Defense in Plants. **2018**, 393-406	10
1573	Cu metal-organic framework-derived Cu Nanospheres@Porous carbon/macroporous carbon for electrochemical sensing glucose. **2018**, 757, 105-111	28
1572	Prussian blue with intrinsic heme-like structure as peroxidase mimic. **2018**, 11, 4905-4913	66
1571	Highly sensitive and robust peroxidase-like activity of Au-Pt core/shell nanorod-antigen conjugates for measles virus diagnosis. **2018**, 16, 46	30
1570	Peroxidase-mimicking PtNP-coated, 3D-printed multi-well plate for rapid determination of glucose and lactate in clinical samples. **2018**, 269, 46-53	3
1569	Catalyzed and Electrocatalyzed Oxidation of l-Tyrosine and l-Phenylalanine to Dopachrome by Nanozymes. **2018**, 18, 4015-4022	23
1568	Sensing. **2018**, 459-498	
1567	Glutathione-driven Cu(i)-O chemistry: a new light-up fluorescent assay for intracellular glutathione. **2018**, 143, 2486-2490	2
1566	A visual detection of bisphenol A based on peroxidase-like activity of hemin–graphene composites and aptamer. **2018**, 10, 2450-2455	10
1565	Catalytically Synthesized Prussian Blue Nanoparticles Defeating Natural Enzyme Peroxidase. **2018**, 140, 11302-11307	138
1564	Preparation and Characterization of Chiral Transition-Metal Dichalcogenide Quantum Dots and Their Enantioselective Catalysis. **2018**, 10, 30680-30688	26
1563	A cobalt-based polyoxometalate nanozyme with high peroxidase-mimicking activity at neutral pH for one-pot colorimetric analysis of glucose. **2018**, 6, 5750-5755	47

1562	Luminescent mesoporous nanorods as photocatalytic enzyme-like peroxidase surrogates. **2018**, 9, 7766-7778	9
1561	A HO-free depot for treating bacterial infection: localized cascade reactions to eradicate biofilms in vivo. **2018**, 10, 17656-17662	26
1560	Diagnosis of rubella virus using antigen-conjugated Au@Pt nanorods as nanozyme probe. **2018**, 13, 4795-4805	21
1559	Noble-Metal Nanostructures as Artificial Enzymes: Controlled Synthesis and Electron Microscope Characterizations. **2018**, 24, 1640-1641	
1558	Cu-induced assembly of methanobactin-modified gold nanoparticles and its peroxidase mimic activity. **2018**, 12, 915-921	5
1557	Synergistic Use of Gold Nanoparticles (AuNPs) and "Capillary Enzyme-Linked Immunosorbent Assay (ELISA)" for High Sensitivity and Fast Assays. **2017**, 18,	10
1556	Single-layer Rh nanosheets with ultrahigh peroxidase-like activity for colorimetric biosensing. **2018**, 11, 6304-6315	43
1555	Enhanced Peroxidase-like Activity of Mo6+-Doped Co3O4 Nanotubes for Ultrasensitive and Colorimetric l-Cysteine Detection. **2018**, 1, 4703-4715	32
1554	A surface plasmon-enhanced nanozyme-based fenton process for visible-light-driven aqueous ammonia oxidation. **2018**, 20, 4067-4074	7
1553	Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. **2018**, 30, 6431-6439	139
1552	A 3-dimensional C/CeO hollow nanostructure framework as a peroxidase mimetic, and its application to the colorimetric determination of hydrogen peroxide. **2018**, 185, 417	20
1551	DNA methylation detection: recent developments in bisulfite free electrochemical and optical approaches. **2018**, 143, 4802-4818	29
1550	Intracellular delivery of a molecularly imprinted peroxidase mimicking DNAzyme for selective oxidation. **2018**, 5, 738-744	30
1549	Fabrication of ternary MoS-polypyrrole-Pd nanotubes as peroxidase mimics with a synergistic effect and their sensitive colorimetric detection of l-cysteine. **2018**, 1035, 146-153	32
1548	Colorimetric determination of glutathione in human serum and cell lines by exploiting the peroxidase-like activity of CuS-polydopamine-Au composite. **2018**, 410, 4805-4813	19
1547	Recent advances in the construction and analytical applications of metal-organic frameworks-based nanozymes. **2018**, 105, 391-403	173
1546	Preparation of Fe 3 O 4 /BiPO 4 magnetic nanocomposite and its photocatalytic performance. **2018** , 1171, 140-149	12
1545	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. **2018**, 30, e1707073	39

1544	Efficacy of FeSO4 nano formulations on osmolytes and antioxidative enzymes of sunflower under salt stress. **2018**, 23, 305-315	16
1543	3D graphene-based foam induced by phytic acid: An effective enzyme-mimic catalyst for electrochemical detection of cell-released superoxide anion. **2019**, 123, 101-107	24
1542	Fabrication of oxidase-like polyaniline-MnO hybrid nanowires and their sensitive colorimetric detection of sulfite and ascorbic acid. **2019**, 191, 171-179	36
1541	Development of Nanozymes for Food Quality and Safety Detection: Principles and Recent Applications. **2019**, 18, 1496-1513	62
1540	Engineered Mn/Co oxides nanocomposites by cobalt doping of Mn-BTC - New oxidase mimetic for colorimetric sensing of acid phosphatase. **2019**, 299, 126928	31
1539	DNA nanotetrahedron-assisted electrochemical aptasensor for cardiac troponin I detection based on the co-catalysis of hybrid nanozyme, natural enzyme and artificial DNAzyme. **2019**, 142, 111578	48
1538	Metal and metal-oxide nanozymes: bioenzymatic characteristics, catalytic mechanism, and eco-environmental applications. **2019**, 11, 15783-15793	39
1537	Catalytic gold□platinum alloy nanoparticles and a novel glucose oxidase mimic with enhanced activity and selectivity constructed by molecular imprinting. **2019**, 11, 4586-4592	10
1536	A Chemical Photo-Oxidation of 5-Methyl Cytidines. **2019**, 361, 4685-4690	11
1535	Effect of multi-modal environmental stress on dose-dependent cytotoxicity of nanodiamonds in Saccharomyces cerevisiae cells. **2019**, 22, e00123	6
1534	Mixed-Valence Ce-BPyDC Metal-Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. **2019**, 58, 11382-11388	42
1533	Recent advances in nanoparticulate biomimetic catalysts for combating bacteria and biofilms. **2019**, 11, 22206-22215	29
1532	2D metal chalcogenides with surfaces fully covered with an organic "promoter" for high-performance biomimetic catalysis. **2019**, 55, 10444-10447	9
1531	Laser-induced breakdown spectroscopy as a novel readout method for nanoparticle-based immunoassays. **2019**, 186, 629	10
1530	Nanoarchitectured peroxidase-mimetic nanozymes: mesoporous nanocrystalline □or □ron oxide?. **2019**, 7, 5412-5422	37
1529	NIR-II Driven Plasmon-Enhanced Catalysis for a Timely Supply of Oxygen to Overcome Hypoxia-Induced Radiotherapy Tolerance. **2019**, 58, 15069-15075	84
1528	In-situ silver nanoparticles formation as a tool for non-enzymatic glucose sensing: Study with an enzyme mimicking salt. **2019**, 580, 123715	5
1527	Dynamic interactions between peroxidase-mimic silver NanoZymes and chlorpyrifos-specific aptamers enable highly-specific pesticide sensing in river water. **2019**, 1083, 157-165	40

1526	Catalytic Decomposition of Hypochlorite Anions by Ceria Nanoparticles Visualized by Spectroscopic Techniques. **2019**, 123, 20675-20681	5
1525	Counter Anion-Directed Growth of Iron Oxide Nanorods in a Polyol Medium with Efficient Peroxidase-Mimicking Activity for Degradation of Dyes in Contaminated Water. **2019**, 4, 13153-13164	15
1524	Magnetic Reactive Oxygen Species Nanoreactor for Switchable Magnetic Resonance Imaging Guided Cancer Therapy Based on pH-Sensitive FeC@FeO Nanoparticles. **2019**, 13, 10002-10014	82
1523	Gold nanoparticle etching induced by an enzymatic-like reaction for the colorimetric detection of hydrogen peroxide and glucose. **2019**, 11, 4829-4834	4
1522	Ru(III)-Based Metal-Organic Gels: Intrinsic Horseradish and NADH Peroxidase-Mimicking Nanozyme. **2019**, 11, 29158-29166	31
1521	Ruthenium Ion-Complexed Carbon Nitride Nanosheets with Peroxidase-like Activity as a Ratiometric Fluorescence Probe for the Detection of Hydrogen Peroxide and Glucose. **2019**, 11, 29072-29077	43
1520	Engineering DNA-Nanozyme Interfaces for Rapid Detection of Dental Bacteria. **2019**, 11, 30640-30647	30
1519	Zinc-Doped Mesoporous Graphitic Carbon Nitride for Colorimetric Detection of Hydrogen Peroxide. **2019**, 2, 5156-5168	17
1518	Light-enhanced sponge-like carbon nanozyme used for synergetic antibacterial therapy. **2019**, 7, 4131-4141	43
1517	Enzymatic bioremediation: a smart tool to fight environmental pollutants. **2019**, 99-118	11
1516	Self-Indicative Gold Nanozyme for H O and Glucose Sensing. **2019**, 25, 11940-11944	33
1515	Nanoarchitectonics to prepare practically useful artificial enzymes. **2019**, 475, 110492	29
1514	The Role of Ascorbate-Glutathione Pathway in Reactive Oxygen Species Balance Under Abiotic Stresses. **2019**, 89-111	2
1513	Unprecedented peroxidase-mimicking activity of single-atom nanozyme with atomically dispersed Fe-N moieties hosted by MOF derived porous carbon. **2019**, 142, 111495	90
1512	Nanocatalytic Medicine. **2019**, 31, e1901778	227
1511	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti(AlCu)C and Its Artificial Enzyme Behavior. **2019**, 13, 9198-9205	31
1510	AuPt/MOF-Graphene: A Synergistic Catalyst with Surprisingly High Peroxidase-Like Activity and Its Application for HO Detection. **2019**, 91, 10589-10595	61
1509	Smartphone-based colorimetric assay of antioxidants in red wine using oxidase-mimic MnO nanosheets. **2019**, 144, 5479-5485	14

1508	MXene-TiC/CuS nanocomposites: Enhanced peroxidase-like activity and sensitive colorimetric cholesterol detection. **2019**, 104, 110000	44
1507	Co-delivery of therapeutic protein and catalase-mimic nanoparticle using a biocompatible nanocarrier for enhanced therapeutic effect. **2019**, 309, 181-189	24
1506	Aptamer-based electrochemical cytosensors for tumor cell detection in cancer diagnosis: A review. **2019**, 1082, 1-17	50
1505	Fabrication of HO-driven nanoreactors for innovative cancer treatments. **2019**, 11, 16164-16186	30
1504	Highly sensitive colorimetric detection of arsenite based on reassembly-induced oxidase-mimicking activity inhibition of dithiothreitol-capped Pd nanozyme. **2019**, 298, 126876	44
1503	Nanozymes-Engineered Metal-Organic Frameworks for Catalytic Cascades-Enhanced Synergistic Cancer Therapy. **2019**, 19, 5674-5682	146
1502	Spectrophotometric nanomolar determination of glucose by using C-dots/(hbox {Fe}_{3}hbox {O}_{4}) magnetic nanozyme. **2019**, 131, 1	5
1501	Fe/C magnetic nanocubes with enhanced peroxidase mimetic activity for colorimetric determination of hydrogen peroxide and glucose. **2019**, 186, 417	9
1500	Porous Ruthenium Selenide Nanoparticle as a Peroxidase Mimic for Glucose Bioassay. **2019**, 3, 253-259	9
1499	Preparation of porous uranium oxide hollow nanospheres with peroxidase mimicking activity: application to the colorimetric determination of tin(II). **2019**, 186, 501	11
1498	Target-directed functionalized ferrous phosphate-carbon dots fluorescent nanostructures as peroxidase mimetics for cancer cell detection and ROS-mediated therapy. **2019**, 297, 126739	17
1497	A dual-mode colorimetric sensor based on copper nanoparticles for the detection of mercury-(II) ions. **2019**, 11, 4014-4021	15
1496	PdPt bimetallic nanowires with efficient oxidase mimic activity for the colorimetric detection of acid phosphatase in acidic media. **2019**, 7, 4561-4567	24
1495	Bifunctional MIL-53(Fe) with pyrophosphate-mediated peroxidase-like activity and oxidation-stimulated fluorescence switching for alkaline phosphatase detection. **2019**, 7, 4794-4800	43
1494	Monolayer-Protected Gold Nanoparticles for Molecular Sensing and Catalysis. **2019**, 413-447	
1493	3D Co-Ni Nanocone Array Shielded with Conducting Amorphous Carbon Used as Fused, Separable, and Stable Mimicking Peroxidases for RGB-Color Intensiometric pH Indication. **2019**, 11, 40382-40392	3
1492	Infiltration pattern of gammadelta T cells and its association with local inflammatory response in the nasal mucosa of patients with allergic rhinitis. **2019**, 9, 1318-1326	8
1491	Highly Sensitive Electrochemical Determination of Norepinephrine Using Poly Acrylic Acid-Coated Nanoceria. **2019**, 6, 4666-4673	6

1490	Oxygen Vacancy-Engineered PEGylated MoO Nanoparticles with Superior Sulfite Oxidase Mimetic Activity for Vitamin B1 Detection. **2019**, 15, e1903153	21
1489	Coordination Nanoparticles Formed by Fluorescent 2-Aminopurine and Au3+: Stability and Nanozyme Activities. **2019**, 3, 219-227	5
1488	Electrochemical immunosensor based on Ag-dependent CTAB-AuNPs for ultrasensitive detection of sulfamethazine. **2019**, 144, 111643	14
1487	In-situ reduction of Ag on black phosphorene and its NH-MWCNT nanohybrid with high stability and dispersibility as nanozyme sensor for three ATP metabolites. **2019**, 145, 111716	34
1486	Triggering Sequential Catalytic Fenton Reaction on 2D MXenes for Hyperthermia-Augmented Synergistic Nanocatalytic Cancer Therapy. **2019**, 11, 42917-42931	44
1485	Research on Optimization of Association Rules Mining Algorithm. **2019**, 1302, 042033	2
1484	. **2019**,	18
1483	In situ TEM Investigation of the Electroplasticity Phenomenon in Metals. **2019**, 25, 1832-1833	1
1482	The Intrinsic Enzyme Activities of the Classic Polyoxometalates. **2019**, 9, 14832	13
1481	A one-pot and modular self-assembly strategy for high-performance organized enzyme cascade bioplatforms based on dual-functionalized protein-PtNP@mesoporous iron oxide hybrid. **2019**, 7, 43-52	10
1480	Functional nanomaterials with unique enzyme-like characteristics for sensing applications. **2019**, 7, 850-875	86
1479	Iron Oxide Nanoparticles: An Inorganic Phosphatase. **2019**,	5
1478	Efficient Bacteria Killing by CuWS Nanocrystals with Enzyme-like Properties and Bacteria-Binding Ability. **2019**, 13, 13797-13808	103
1477	Biological and Bio-inspired Nanomaterials. **2019**,	3
1476	Metabolic responses of the green microalga Dunaliella salina to silver nanoparticles-induced oxidative stress in the presence of salicylic acid treatment. **2019**, 217, 105356	9
1475	Nanozymes: an emerging field bridging nanotechnology and enzymology. **2019**, 62, 1543-1546	19
1474	Ligand-Exchange-Mediated Fabrication of Gold Aerogels Containing Different Au(I) Content with Peroxidase-like Behavior. **2019**, 31, 10094-10099	17
1473	Molybdenum Oxide Nanosheet-Supported Ferrous Ion Artificial Peroxidase for Visual Colorimetric Detection of Triacetone Triperoxide. **2019**, 7, 18985-18991	11

1472	One-step synthesis of thermally stable artificial multienzyme cascade system for efficient enzymatic electrochemical detection. **2019**, 12, 3031-3036		19
1471	Plasmon-Enhanced Oxidase-Like Activity and Cellular Effect of Pd-Coated Gold Nanorods. **2019**, 11, 45416-45426		26
1470	Nanomedicine in Brain Diseases. **2019**,		
1469	CN nanosheet-supported Prussian Blue nanoparticles as a peroxidase mimic: colorimetric enzymatic determination of lactate. **2019**, 186, 735		10
1468	N-Doped Carbon As Peroxidase-Like Nanozymes for Total Antioxidant Capacity Assay. **2019**, 91, 15267-15274		64
1467	Improved enzymatic assay for hydrogen peroxide and glucose by exploiting the enzyme-mimicking properties of BSA-coated platinum nanoparticles. **2019**, 186, 778		19
1466	New Colorimetric DNA Sensor for Detection of Campylobacter jejuni in Milk Sample Based on Peroxidase-Like Activity of Gold/Platinium Nanocluster. **2019**, 4, 11687-11692		10
1465	Gold nanoclusters-based dual-channel assay for colorimetric and turn-on fluorescent sensing of alkaline phosphatase. **2019**, 301, 127080		34
1464	Modification of Lithium Iron Phosphate by Carbon Coating. **2019**, 10622-10632		2
1463	LncRNA SNHG14 potentiates pancreatic cancer progression via modulation of annexin A2 expression by acting as a competing endogenous RNA for miR-613. **2019**, 23, 7222-7232		22
1462	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. **2019**, 15, e1903108		102
1461	Self-Assembly of Ferrocene Peptides: A Nonheme Strategy to Construct a Peroxidase Mimic. **2019**, 6, 1901082		4
1460	Oxidase-like activity of magnetically separable nano ceria for catechol detection. **2019**, 1, 1		2
1459	CuS Decorated Functionalized Reduced Graphene Oxide: A Dual Responsive Nanozyme for Selective Detection and Photoreduction of Cr(VI) in an Aqueous Medium. **2019**, 7, 16131-16143		35
1458	Recent advances in covalent organic frameworks (COFs) as a smart sensing material. *Chemical Society Reviews*, **2019**, 48, 5266-5302	58.5	326
1457	AuCu bimetal nanoclusters as high-performance mimics for ultrasensitive recognition of biomolecules. **2019**, 97, 546-554		2
1456	Recent advances in synthesizing metal nanocluster-based nanocomposites for application in sensing, imaging and catalysis. **2019**, 28, 100767		83
1455	NIR-II Driven Plasmon-Enhanced Catalysis for a Timely Supply of Oxygen to Overcome Hypoxia-Induced Radiotherapy Tolerance. **2019**, 131, 15213-15219		11

1454	Nitro-functionalized metal-organic frameworks with catalase mimic properties for glutathione detection. **2019**, 144, 6041-6047	19
1453	RETRACTED ARTICLE: Carbon Dots as Artificial Peroxidases for Analytical Applications. **2019**, 3, 191-205	8
1452	N-Acety-L-Cysteine-Stabilized Pt Nanozyme for Colorimetric Assay of Heparin. **2019**, 3, 277-285	3
1451	Facile colorimetric detection of alkaline phosphatase activity based on the target-induced valence state regulation of oxidase-mimicking Ce-based nanorods. **2019**, 7, 5834-5841	20
1450	Modeling the Kinetic Behavior of Reactive Oxygen Species with Cerium Dioxide Nanoparticles. **2019**, 9,	7
1449	Advancements in electrochemical sensing of hydrogen peroxide, glucose and dopamine by using 2D nanoarchitectures of layered double hydroxides or metal dichalcogenides. A review. **2019**, 186, 671	55
1448	Critical Comparison of the Superoxide Dismutase-like Activity of Carbon Antioxidant Nanozymes by Direct Superoxide Consumption Kinetic Measurements. **2019**, 13, 11203-11213	16
1447	Emerging applications of nanozymes in environmental analysis: Opportunities and trends. **2019**, 120, 115653	52
1446	Smart Plasmonic Nanozyme Enhances Combined Chemo-photothermal Cancer Therapy and Reveals Tryptophan Metabolic Apoptotic Pathway. **2019**, 91, 12203-12211	17
1445	Prussian blue analogue nanoenzymes mitigate oxidative stress and boost bio-fermentation. **2019**, 11, 19497-19505	9
1444	Nanozyme-Based Bandage with Single-Atom Catalysis for Brain Trauma. **2019**, 13, 11552-11560	85
1443	Mineralizing gold-silver bimetals into hemin-melamine matrix: A nanocomposite nanozyme for visual colorimetric analysis of HO and glucose. **2019**, 1092, 57-65	20
1442	Can Nanozymes Have an Impact on Sensing?. **2019**, 4, 2213-2214	12
1441	Enhanced peroxidase-like activity of AuNPs loaded graphitic carbon nitride nanosheets for colorimetric biosensing. **2019**, 1091, 69-75	34
1440	Enhanced oxidase-like activity of selenium nanoparticles stabilized by chitosan and application in a facile colorimetric assay for mercury (II). **2019**, 152, 107384	16
1439	Recent progress in the construction of nanozyme-based biosensors and their applications to food safety assay. **2019**, 121, 115668	82
1438	CNT-Modified MIL-88(NH2)-Fe for Enhancing DNA-Regulated Peroxidase-Like Activity. **2019**, 3, 238-245	4
1437	Catalytically active cerium oxide nanoparticles protect mammalian cells from endogenous reactive oxygen species. **2019**, 10, 25-31	3

1436	A comparative study of pomegranate Sb@C yolk-shell microspheres as Li and Na-ion battery anodes. **2018**, 11, 348-355	26
1435	Highly efficient redox reaction between potassium permanganate and 3,3',5,5'-tetramethylbenzidine for application in hydrogen peroxide based colorimetric assays.. **2019**, 9, 1889-1894	4
1434	Carbon-mediated synthesis of shape-controllable manganese phosphate as nanozymes for modulation of superoxide anions in HeLa cells. **2019**, 7, 401-407	11
1433	Emerging strategies to develop sensitive AuNP-based ICTS nanosensors. **2019**, 112, 147-160	50
1432	A bimetallic Co/Mn metal□rganic-framework with a synergistic catalytic effect as peroxidase for the colorimetric detection of H2O2. **2019**, 11, 1111-1124	38
1431	Nucleobase-mediated synthesis of nitrogen-doped carbon nanozymes as efficient peroxidase mimics. **2019**, 48, 1993-1999	20
1430	Peroxidase-like activity of acetylcholine-based colorimetric detection of acetylcholinesterase activity and an organophosphorus inhibitor. **2019**, 7, 2613-2618	29
1429	Computer-Aided Design of Nanoceria Structures as Enzyme Mimetic Agents: The Role of Bodily Electrolytes on Maximizing Their Activity.. **2019**, 2, 1098-1106	13
1428	A manganese oxide nanozyme prevents the oxidative damage of biomolecules without affecting the endogenous antioxidant system. **2019**, 11, 3855-3863	62
1427	A Single-Atom Nanozyme for Wound Disinfection Applications. **2019**, 131, 4965-4970	53
1426	A Single-Atom Nanozyme for Wound Disinfection Applications. **2019**, 58, 4911-4916	335
1425	A universal one-pot assay strategy based on bio-inorganic cascade catalysts for different analytes by changing pH-dependent activity of enzymes on enzyme mimics. **2019**, 286, 460-467	15
1424	Unraveling the enzyme-like activity of heterogeneous single atom catalyst. **2019**, 55, 2285-2288	120
1423	A Phenylalanine Derivative Containing a 4-Pyridine Group Can Construct Both Single Crystals and a Selective Cu-Ag Bimetallohydrogel. **2019**, 2019, 1349-1353	2
1422	A multifunctional mesoporous silica-gold nanocluster hybrid platform for selective breast cancer cell detection using a catalytic amplification-based colorimetric assay. **2019**, 11, 2631-2636	47
1421	Nanoarchitecture Frameworks for Electrochemical miRNA Detection. **2019**, 44, 433-452	75
1420	Fe(III)-Tannic Acid Complex Derived FeC Decorated Carbon Nanofibers for Triple-Enzyme Mimetic Activity and Their Biosensing Application. **2019**, 5, 1238-1246	13
1419	Enhanced Peroxidase Mimetic Activity of Porous Iron Oxide Nanoflakes. **2019**, 5, 506-513	25

1418	Intrinsic peroxidase-like activity of CuZnSn(SSe) nanocrystals, and their application to the colorimetric detection of HO. **2019**, 186, 118	3
1417	Mesoporous manganese oxide/manganese ferrite nanopopcorns with dual enzyme mimic activities: A cascade reaction for selective detection of ketoses. **2019**, 541, 75-85	11
1416	Visual detection of cancer cells by using in situ grown functional CuSe/reduced graphene oxide hybrids acting as an efficient nanozyme. **2019**, 144, 716-721	6
1415	Substrate-free and label-free electrocatalysis-assisted biosensor for sensitive detection of microRNA in lung cancer cells. **2019**, 55, 1172-1175	18
1414	Aggregation/dispersion-mediated peroxidase-like activity of MoS quantum dots for colorimetric pyrophosphate detection. **2019**, 55, 2039-2042	30
1413	Metal-doped carbon nanoparticles with intrinsic peroxidase-like activity for colorimetric detection of HO and glucose. **2019**, 7, 296-304	42
1412	Novel colorimetric sensor based on peroxidase-like activity of chitosan-stabilized Au/Pt nanoclusters for trace lead. **2019**, 11, 684-690	19
1411	A single-atom Fe-N catalytic site mimicking bifunctional antioxidative enzymes for oxidative stress cytoprotection. **2018**, 55, 159-162	120
1410	Pt-Decorated Boron Nitride Nanosheets as Artificial Nanozyme for Detection of Dopamine. **2019**, 11, 22102-22112	98
1409	Fabrication of a covalent organic framework and its gold nanoparticle hybrids as stable mimetic peroxidase for sensitive and selective colorimetric detection of mercury in water samples. **2019**, 204, 224-228	40
1408	Electrochemical sensing and photocatalytic degradation of methylene blue (MB) dye by cobalt-beta hydroxy benzoate complex. **2019**, 101, 164-173	15
1407	Construction of Single-Iron-Atom Nanocatalysts for Highly Efficient Catalytic Antibiotics. **2019**, 15, e1901834	63
1406	Fluorescent detection of fluoride by CeO2 nanozyme oxidation of Amplex red. **2019**, 106, 38-42	19
1405	Carbogenic Nanozyme with Ultrahigh Reactive Nitrogen Species Selectivity for Traumatic Brain Injury. **2019**, 19, 4527-4534	71
1404	A cobalt-doped iron oxide nanozyme as a highly active peroxidase for renal tumor catalytic therapy.. **2019**, 9, 18815-18822	22
1403	Enzyme-inspired flavin–polydopamine as a biocompatible nanoparticle photocatalyst. **2019**, 4, 1318-1325	4
1402	Anchoring of Prussian blue nanoparticles on polydopamine nanospheres as an efficient peroxidase mimetic for colorimetric sensing. **2019**, 577, 622-629	13
1401	Immobilization of penicillin G acylase on a novel paramagnetic composite carrier with epoxy groups. **2019**, 2, 720-734	8

1400	Copper-based two-dimensional metal-organic framework nanosheets as horseradish peroxidase mimics for glucose fluorescence sensing. **2019**, 1079, 164-170	47
1399	Hollow copper sulfide nanocubes as multifunctional nanozymes for colorimetric detection of dopamine and electrochemical detection of glucose. **2019**, 141, 111450	74
1398	Autoregenerative redox nanoparticles as an antioxidant and glycation inhibitor for palliation of diabetic cataracts. **2019**, 11, 13126-13138	19
1397	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. **2019**, 131, 12754-12761	38
1396	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. **2019**, 58, 12624-12631	209
1395	High catalytic activity of gold nanoparticle-templated, tyrosine-rich peptide self-assemblies for 3,3?,5,5?-tetramethylbenzidine oxidation in the absence of hydrogen peroxide. **2019**, 128, 349-359	4
1394	Interfacial engineering regulating the peroxidase-like property of ternary composite nanofibers and their sensing applications. **2019**, 491, 138-146	9
1393	Transferrin-conjugated quasi-cubic SPIONs for cellular receptor profiling and detection of brain cancer. **2019**, 297, 126737	18
1392	Simultaneous enzyme mimicking and chemical reduction mechanisms for nanoceria as a bio-antioxidant: a catalytic model bridging computations and experiments for nanozymes. **2019**, 11, 13289-13299	45
1391	A facile solvothermal synthesis of 3D magnetic MoS2/Fe3O4 nanocomposites with enhanced peroxidase-mimicking activity and colorimetric detection of perfluorooctane sulfonate. **2019**, 149, 104019	20
1390	Influences of simulated gastrointestinal environment on physicochemical properties of gold nanoparticles and their implications on intestinal epithelial permeability. **2019**, 37, 116-131	3
1389	Biochemical Characteristics of Microbial Enzymes and Their Significance from Industrial Perspectives. **2019**, 61, 579-601	35
1388	In Vivo Biosensing Using Resonance Energy Transfer. **2019**, 9,	19
1387	Magnetic Cu/FeO@FeOOH with intrinsic HRP-like activity at nearly neutral pH for one-step biosensing. **2019**, 411, 3801-3810	6
1386	Enhanced peroxidase-like activity of Fe@PCN-224 nanoparticles and their applications for detection of H2O2and glucose. **2019**, 577, 456-463	43
1385	Supercritical Fluid-Assisted Fabrication of Manganese (III) Oxide Hollow Nanozymes Mediated by Polymer Nanoreactors for Efficient Glucose Sensing Characteristics. **2019**, 11, 28781-28790	16
1384	Deactivation of singlet oxygen by cerium oxide nanoparticles. **2019**, 382, 111925	11
1383	MnO nanosheets as oxidase mimics for colorimetric detection of alkaline phosphatase activity. **2019**, 186, 408	18

1382	Biomimetic design for enhancing the peroxidase mimicking activity of hemin. **2019**, 11, 12603-12609		32
1381	CeVO4 Nanozymes Catalyze the Reduction of Dioxygen to Water without Releasing Partially Reduced Oxygen Species. **2019**, 131, 7879-7883		2
1380	Nanotechnology for Phytoremediation of Heavy Metals: Mechanisms of Nanomaterial-Mediated Alleviation of Toxic Metals. **2019**, 315-327		5
1379	Carbon-gold hybrid nanoprobes for real-time imaging, photothermal/photodynamic and nanozyme oxidative therapy. **2019**, 9, 3443-3458		75
1378	Light-Responsive Metal-Organic Framework as an Oxidase Mimic for Cellular Glutathione Detection. **2019**, 91, 8170-8175		95
1377	Induction of Plant Defense Machinery Against Nanomaterials Exposure. **2019**, 241-263		4
1376	Bioelectrochemical evaluation of plant extracts and gold nanozyme-based sensors for total antioxidant capacity determination. **2019**, 129, 124-134		28
1375	A novel peroxidase mimetic Co-MOF enhanced luminol chemiluminescence and its application in glucose sensing. **2019**, 296, 126631		45
1374	3D-printed CuO nanoparticle-functionalized flow reactor enables online fluorometric monitoring of glucose. **2019**, 186, 404		9
1373	Electrochemical detection of superoxide anions in HeLa cells by using two enzyme-free sensors prepared from ZIF-8-derived carbon nanomaterials. **2019**, 186, 370		13
1372	Hierarchically structured Fe3O4-doped MnO2 microspheres as an enhanced peroxidase-like catalyst for low limit of detection. **2019**, 83, 35-43		17
1371	Nanozyme: new horizons for responsive biomedical applications. *Chemical Society Reviews*, **2019**, 48, 3683-3704	58.5	568
1370	Characterization of Au@PtNP/GO nanozyme and its application to electrochemical microfluidic devices for quantification of hydrogen peroxide. **2019**, 294, 166-176		45
1369	Recent progress in the design fabrication of metal-organic frameworks-based nanozymes and their applications to sensing and cancer therapy. **2019**, 137, 178-198		127
1368	CoDA Au Hybrid Nanostructures as Efficient Peroxidase Mimics for Colorimetric Biosensing. **2019**, 19, 6696-6702		6
1367	Colorimetric evaluation of the hydroxyl radical scavenging ability of antioxidants using carbon-confined CoO as a highly active peroxidase mimic. **2019**, 186, 354		12
1366	The Analysis of Zirconium (IV) Oxide (ZrO2) Nanoparticles for Peroxidase Activity. **2019**, 3, 246-252		5
1365	Single-Atom Nanozyme Based on Nanoengineered Fe-N-C Catalyst with Superior Peroxidase-Like Activity for Ultrasensitive Bioassays. **2019**, 15, e1901485		105

1364	Construction of a bioinspired laccase-mimicking nanozyme for the degradation and detection of phenolic pollutants. **2019**, 254, 452-462	82
1363	DNA-Directed Immobilized Enzymes on Recoverable Magnetic Nanoparticles Shielded in Nucleotide Coordinated Polymers. **2019**,	11
1362	Synthesis of catalytically active peroxidase-like Fe-doped carbon dots and application in ratiometric fluorescence detection of hydrogen peroxide and glucose. **2019**, 11, 2663-2668	18
1361	One-pot synthesized Cu/Au/Pt trimetallic nanoparticles as a novel enzyme mimic for biosensing applications.. **2019**, 9, 14982-14989	10
1360	Lock and key-based nanozyme model to understand the substituent effect on the hydrolysis of organophosphate-based nerve agents by Zr-incorporated cerium oxide. **2019**, 172, 198-204	4
1359	Direct transformation of lignin into fluorescence-switchable graphene quantum dots and their application in ultrasensitive profiling of a physiological oxidant. **2019**, 21, 3343-3352	47
1358	Nanozyme-mediated catalytic nanotherapy for inflammatory bowel disease. **2019**, 9, 2843-2855	61
1357	Pyrophosphate-Mediated On□Off□On Oxidase-Like Activity Switching of Nanosized MnFe2O4 for Alkaline Phosphatase Sensing. **2019**, 3, 228-237	12
1356	Constructing metal□organic framework nanodots as bio-inspired artificial superoxide dismutase for alleviating endotoxemia. **2019**, 6, 1682-1687	37
1355	Application of surface molecular imprinted magnetic graphene oxide and high performance mimetic behavior of bi-metal ZnCo MOF for determination of atropine in human serum. **2019**, 201, 286-294	32
1354	Two-Dimensional Metal-Organic Framework/Enzyme Hybrid Nanocatalyst as a Benign and Self-Activated Cascade Reagent for in Vivo Wound Healing. **2019**, 13, 5222-5230	202
1353	Single-atom nanozymes. **2019**, 5, eaav5490	329
1352	Planarization of tetracarboxamides: tuning the self-assembly of polycyclic aromatic hydrocarbons. **2019**, 55, 6070-6073	5
1351	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. **2019**, 186, 320	9
1350	Carbon Dots and Graphene Quantum Dots in Electrochemical Biosensing. **2019**, 9,	112
1349	Colorimetric Assay Conversion to Highly Sensitive Electrochemical Assay for Bimodal Detection of Arsenate Based on Cobalt Oxyhydroxide Nanozyme via Arsenate Absorption. **2019**, 91, 6487-6497	64
1348	Rapid response of dopamine towards insitu synthesised copper nanocluster in presence of H2O2. **2019**, 379, 63-71	12
1347	Artificial Nanometalloenzymes for Cooperative Tandem Catalysis. **2019**, 11, 15718-15726	8

1346	Immobilization of amidase into a magnetic hierarchically porous metal-organic framework for efficient biocatalysis. **2019**, 55, 5697-5700	38
1345	Three-Dimensional Branched Crystal Carbon Nitride with Enhanced Intrinsic Peroxidase-Like Activity: A Hypersensitive Platform for Colorimetric Detection. **2019**, 11, 17467-17474	19
1344	Colorimetric detection of blood glucose based on GOx@ZIF-8@Fe-polydopamine cascade reaction. **2019**, 219, 240-247	26
1343	Discriminative Detection of Glutathione in Cell Lysates Based on Oxidase-Like Activity of Magnetic Nanoporous Graphene. **2019**, 91, 5004-5010	45
1342	Ultrasensitive Microfluidic Paper-Based Electrochemical Biosensor Based on Molecularly Imprinted Film and Boronate Affinity Sandwich Assay for Glycoprotein Detection. **2019**, 11, 16198-16206	58
1341	Peroxidase-Like Activity of Smart Nanomaterials and Their Advanced Application in Colorimetric Glucose Biosensors. **2019**, 15, e1900133	94
1340	Uptake and translocation of magnetite (FeO) nanoparticles and its impact on photosynthetic genes in barley (Hordeum vulgare L.). **2019**, 226, 110-122	62
1339	Hollow Prussian Blue Nanozymes Drive Neuroprotection against Ischemic Stroke via Attenuating Oxidative Stress, Counteracting Inflammation, and Suppressing Cell Apoptosis. **2019**, 19, 2812-2823	102
1338	A review on phenolic wastewater remediation using homogeneous and heterogeneous enzymatic processes: Current status and potential challenges. **2019**, 219, 186-207	80
1337	Fluorescent Fe3O4 Quantum Dots for H2O2 Detection. **2019**, 2, 2076-2085	33
1336	Highly Thiolated Dendritic Mesoporous Silica Nanoparticles with High-Content Gold as Nanozymes: The Nano-Gold Size Matters. **2019**, 11, 13264-13272	22
1335	Bio-inspired nanozyme: a hydratase mimic in a zeolitic imidazolate framework. **2019**, 11, 5960-5966	46
1334	Facile strategy to prepare a metalloporphyrin-based hydrophilic porous organic polymer with enhanced peroxidase-like activity and high stability for colorimetric detection of HO and glucose. **2019**, 178, 137-145	28
1333	Luminescent CeO:Eu nanocrystals for robust in situ HO real-time detection in bacterial cell cultures. **2019**, 132, 286-293	17
1332	Nanomaterials-Based Colorimetric Immunoassays. **2019**, 9,	34
1331	A novel colorimetric assay based on the peroxidase-like properties of amino functionalized copper metal□organic framework nanoparticles for ascorbic acid sensing. **2019**, 11, 1697-1706	10
1330	One-pot synthesis of a composite consisting of the enzyme ficin and a zinc(II)-2-methylimidazole metal organic framework with enhanced peroxidase activity for colorimetric detection for glucose. **2019**, 186, 213	21
1329	A nanozyme-linked immunosorbent assay for dual-modal colorimetric and ratiometric fluorescent detection of cardiac troponin I. **2019**, 288, 60-64	46

1328	N- and B-Codoped Graphene: A Strong Candidate To Replace Natural Peroxidase in Sensitive and Selective Bioassays. **2019**, 13, 4312-4321	103
1327	Atomic layer deposition-assisted growth of CuAl LDH on carbon fiber as a peroxidase mimic for colorimetric determination of H2O2 and glucose. **2019**, 43, 5826-5832	18
1326	Magnetite/Ceria Nanoparticle Assemblies for Extracorporeal Cleansing of Amyloid-In Alzheimer's Disease. **2019**, 31, e1807965	42
1325	Wet/Sono-Chemical Synthesis of Enzymatic Two-Dimensional MnO Nanosheets for Synergistic Catalysis-Enhanced Phototheranostics. **2019**, 31, e1900401	91
1324	Rapid and sensitive colorimetric sensor for H2O2 and Hg2+ detection based on homogeneous iodide with high peroxidase-mimicking activity. **2019**, 147, 75-82	10
1323	Enhancing the colorimetric detection of HO and ascorbic acid on polypyrrole coated fluconazole-functionalized POMOFs. **2019**, 144, 3347-3356	27
1322	Iron Oxide Hydroxide, Ferrihydrite Produced by Exhibiting Intrinsic Peroxidase-Like Activity and Their Analytical Applications. **2019**, 2019, 7127869	5
1321	Electrochemical dual-aptamer-based biosensor for nonenzymatic detection of cardiac troponin I by nanohybrid electrocatalysts labeling combined with DNA nanotetrahedron structure. **2019**, 134, 49-56	73
1320	Unveiling the Intrinsic Catalytic Activities of Single-Gold-Nanoparticle-Based Enzyme Mimetics. **2019**, 58, 6327-6332	45
1319	Unveiling the Intrinsic Catalytic Activities of Single-Gold-Nanoparticle-Based Enzyme Mimetics. **2019**, 131, 6393-6398	18
1318	Bioengineered magnetoferritin nanozymes for pathological identification of high-risk and ruptured atherosclerotic plaques in humans. **2019**, 12, 863-868	12
1317	In Situ Generation of Prussian Blue with Potassium Ferrocyanide to Improve the Sensitivity of Chemiluminescence Immunoassay Using Magnetic Nanoparticles as Label. **2019**, 91, 4906-4912	32
1316	-Lipidated Amino Acids and Peptides Immobilizedon Cellulose Able to Split Amide Bonds. **2019**, 12,	1
1315	Electrochemical sensing of H2O2 released from living cells based on AuPd alloy-modified PDA nanotubes. **2019**, 11, 1651-1656	17
1314	A colorimetric heparin assay based on the inhibition of the oxidase mimicking activity of cerium oxide nanoparticles. **2019**, 186, 274	11
1313	Manganese as a Catalytic Mediator for Photo-oxidation and Breaking the pH Limitation of Nanozymes. **2019**, 19, 3214-3220	96
1312	Click-conjugated photon-upconversion nanoparticles in an immunoassay for honeybee pathogen Melissococcus plutonius. **2019**, 11, 8343-8351	19
1311	Nanoparticles and Abiotic Stress Tolerance in Plants: Synthesis, Action, and Signaling Mechanisms. **2019**, 549-561	22

1310	Rock salt type NiO assembled on ordered mesoporous carbon as peroxidase mimetic for colorimetric assay of gallic acid. **2019**, 201, 406-412	31
1309	Elucidating the mechanism of the structure-dependent enzymatic activity of Fe-N/C oxidase mimics. **2019**, 55, 5271-5274	51
1308	VO Quantum Dots with Multienzyme-Mimic Activities and the Application in Constructing a Three-Dimensional (3D) Coordinate System for Accurate Discrimination of the Hydrogen Peroxide over a Broad Concentration Range. **2019**, 91, 5753-5761	22
1307	Enzyme-modified electrodes for biosensors and biofuel cells. **2019**, 6, 1336-1358	59
1306	Fabrication of polyethyleneimine-functionalized reduced graphene oxide-hemin-bovine serum albumin (PEI-rGO-hemin-BSA) nanocomposites as peroxidase mimetics for the detection of multiple metabolites. **2019**, 1070, 80-87	12
1305	Reactive Oxygen Species (ROS)-Based Nanomedicine. **2019**, 119, 4881-4985	776
1304	Bioorthogonal nanozymes: progress towards therapeutic applications. **2019**, 1, 90-98	35
1303	Editorial: Supramolecular Aspects in Catalysis. **2019**, 7, 174	9
1302	Fe(III) porphyrin metal□rganic framework as an artificial enzyme mimics and its application in biosensing of glucose and H2O2. **2019**, 26, 1507-1521	21
1301	Impact of Nanomaterials on Plant Physiology and Functions. **2019**, 349-377	3
1300	Fluorescent and colorimetric immunoassay of nuclear matrix protein 22 enhanced by porous Pd nanoparticles. **2019**, 30, 1307-1309	5
1299	Nanomaterials in Proteomics. **2019**, 29, 1900253	37
1298	Enhanced peroxidase-like activity of CuO/Pt nanoflowers for colorimetric and ultrasensitive Hg2+ detection in water sample. **2019**, 483, 551-561	35
1297	Generation of MnO2 nanozyme in spherical polyelectrolyte brush for colorimetric detection of glutathione. **2019**, 248, 89-92	15
1296	MnO2 nanozyme induced the chromogenic reactions of ABTS and TMB to visual detection of Fe2+ and Pb2+ ions in water. **2019**, 99, 501-514	9
1295	CeVO Nanozymes Catalyze the Reduction of Dioxygen to Water without Releasing Partially Reduced Oxygen Species. **2019**, 58, 7797-7801	32
1294	Noble-Metal Nanostructures as Highly Efficient Peroxidase Mimics. **2019**, 5, 860-868	7
1293	Design of high performance nanozymes: a single-atom strategy. **2019**, 62, 710-712	37

1292	Au nanoparticles with enzyme-mimicking activity-ornamented ZIF-8 for highly efficient photodynamic therapy. **2019**, 7, 2740-2748	41
1291	A series of MOF/Ce-based nanozymes with dual enzyme-like activity disrupting biofilms and hindering recolonization of bacteria. **2019**, 208, 21-31	102
1290	Sensitive Colorimetric Assay Based on Peroxidase-Like Activity of CeO2 Nanoparticles Supported on SBA-15 Mesoporous Silica to Determination of H2O2. **2019**, 4, 2160-2167	3
1289	Redox Recycling-Triggered Peroxidase-Like Activity Enhancement of Bare Gold Nanoparticles for Ultrasensitive Colorimetric Detection of Rare-Earth Ce Ion. **2019**, 91, 4039-4046	57
1288	Enzyme mimetic activities of spinel substituted nanoferrites (MFeO): A review of synthesis, mechanism and potential applications. **2019**, 99, 1424-1447	42
1287	One-pot fabrication of Fe-doped carbon nitride nanoparticles as peroxidase mimetics for HO and glucose detection. **2019**, 215, 218-224	18
1286	High-Performance Integrated Enzyme Cascade Bioplatform Based on Protein-BiPt Nanochain@Graphene Oxide Hybrid Guided One-Pot Self-Assembly Strategy. **2019**, 15, e1804987	18
1285	Additive-based stability assessment of biologically designed CuO and GSH-CuO nanospheres and their applicability as Nano-biosensors. **2019**, 178, 66-73	7
1284	Real-time quantification of hydrogen peroxide production in living cells using NiCo2S4@CoS2 heterostructure. **2019**, 287, 124-130	30
1283	Peroxidase-like activity of magnetic poly(glycidyl methacrylate-co-ethylene dimethacrylate) particles. **2019**, 9, 1543	3
1282	An efficient thin-walled Pd/polypyrrole hybrid nanotube biocatalyst for sensitive detection of ascorbic acid. **2019**, 1056, 125-134	10
1281	Avoiding Pre-Isolation Step in Exosome Analysis: Direct Isolation and Sensitive Detection of Exosomes Using Gold-Loaded Nanoporous Ferric Oxide Nanozymes. **2019**, 91, 3827-3834	137
1280	Induction of Enzyme-like Peroxidase Activity in an Iron Porphyrin Complex Using Second Sphere Interactions. **2019**, 58, 2954-2964	19
1279	A copper(II)/cobalt(II) organic gel with enhanced peroxidase-like activity for fluorometric determination of hydrogen peroxide and glucose. **2019**, 186, 168	21
1278	The Characterisation and Quantification of Immobilised Concanavalin A on Quartz Surfaces Based on The Competitive Binding to Glucose and Fluorescent Labelled Dextran. **2019**, 9, 318	5
1277	Nanomaterials Exhibiting Enzyme-Like Properties (Nanozymes): Current Advances and Future Perspectives. **2019**, 7, 46	101
1276	A Chemiluminescent Method for the Detection of HDand Glucose Based on Intrinsic Peroxidase-Like Activity of WSQuantum Dots. **2019**, 24,	60
1275	Platinum Nanoparticles to Enable Electrodynamic Therapy for Effective Cancer Treatment. **2019**, 31, e1806803	70

1274	Electrogenerated hydrophilic carbon nanomaterials with tailored electrocatalytic activity. **2019**, 302, 402-413	3
1273	MnO2 nanowires tuning of photoluminescence of alloy Cu/Ag NCs and thiamine enables a ratiometric fluorescent sensing of glutathione. **2019**, 286, 476-482	26
1272	Redox Trimetallic Nanozyme with Neutral Environment Preference for Brain Injury. **2019**, 13, 1870-1884	63
1271	e occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. **2019**, 10, 704	112
1270	Nanozymes: Classification, Catalytic Mechanisms, Activity Regulation, and Applications. **2019**, 119, 4357-4412	1010
1269	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. **2019**, 10, 940	191
1268	Molecularly imprinted nanozymes with faster catalytic activity and better specificity. **2019**, 11, 4854-4863	44
1267	Enzyme-triggered in situ formation of Ag nanoparticles with oxidase-mimicking activity for amplified detection of alkaline phosphatase activity. **2019**, 144, 2416-2422	44
1266	Ultrafine and monodispersed iridium nanoparticles supported on nitrogen-functionalized carbon: an efficient oxidase mimic for glutathione colorimetric detection. **2019**, 55, 3634-3637	28
1265	Mimicking peroxidase-like activity of Co3O4-CeO2 nanosheets integrated paper-based analytical devices for detection of glucose with smartphone. **2019**, 288, 44-52	53
1264	Highly stable enzyme-mimicking nanocomposite of antioxidant activity. **2019**, 543, 174-182	14
1263	Multi-shaped cationic gold nanoparticle-l-cysteine-ZnSeS quantum dots hybrid nanozyme as an intrinsic peroxidase mimic for the rapid colorimetric detection of cocaine. **2019**, 287, 416-427	14
1262	Nanoparticles as Biosensors for Food Quality and Safety Assessment. **2019**, 147-202	11
1261	CuO nanoparticles as haloperoxidase-mimics: Chloride-accelerated heterogeneous Cu-Fenton chemistry for H2O2 and glucose sensing. **2019**, 287, 180-184	24
1260	Rhodamine B Chemiluminescence Improved by Mimetic AuCu Alloy Nanoclusters and Ultrasensitive Measurement of HO, Glucose and Xanthine. **2019**, 35, 543-550	9
1259	Facile Synthesis of CuO@TiO-PtCu Nanocomposites as a Signal Amplification Strategy for the Insulin Detection. **2019**, 11, 8945-8953	33
1258	Sensitive colorimetric detection of ascorbic acid using Pt/CeO2 nanocomposites as peroxidase mimics. **2019**, 479, 532-539	53
1257	Nanomaterials for medical applications and their antimicrobial advantages. **2019**, 409-431	0

1256	Nanomaterials-Based Next Generation Synthetic Enzymes. **2019**, 37-58		2
1255	Advances in chiral nanozymes: a review. **2019**, 186, 782		19
1254	Catalytic inactivation of influenza virus by iron oxide nanozyme. **2019**, 9, 6920-6935		54
1253	Photo-modulated nanozymes for biosensing and biomedical applications. **2019**, 11, 5081-5088		17
1252	Fe-N/C single-atom catalysts exhibiting multienzyme activity and ROS scavenging ability in cells. **2019**, 55, 14534-14537		32
1251	Fluoride-capped nanoceria as a highly efficient oxidase-mimicking nanozyme: inhibiting product adsorption and increasing oxygen vacancies. **2019**, 11, 17841-17850		48
1250	Fluorometric and colorimetric analysis of alkaline phosphatase activity based on a nucleotide coordinated copper ion mimicking polyphenol oxidase. **2019**, 7, 6508-6514		17
1249	High-activity Mo, S co-doped carbon quantum dot nanozyme-based cascade colorimetric biosensor for sensitive detection of cholesterol. **2019**, 7, 7042-7051		49
1248	Superparamagnetic nanoarchitectures for disease-specific biomarker detection. *Chemical Society Reviews*, **2019**, 48, 5717-5751	58.5	119
1247	Increasing enzyme-like activity by in situ anchoring of Ag3PO4 nanoparticles on keratin□horganic hybrid nanoflowers. **2019**, 43, 15946-15955		4
1246	Peroxidase-AgAu hybrid nanocages as signal transducers for sensitive plasmonic colorimetric sensing. **2019**, 7, 15179-15187		5
1245	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. **2019**, 11, 102		59
1244	Signal amplification in immunoassays by using noble metal nanoparticles: a review. **2019**, 186, 859		18
1243	Colorimetric determination of As(III) based on 3-mercaptopropionic acid assisted active site and interlayer channel dual-masking of Fe-Co-layered double hydroxides with oxidase-like activity. **2019** , 186, 815		17
1242	Target-Catalyzed Self-Growing Spherical Nucleic Acid Enzyme (SNAzyme) as a Double Amplifier for Ultrasensitive Chemiluminescence MicroRNA Detection. **2019**, 4, 3219-3226		21
1241	Progress and Trend on the Regulation Methods for Nanozyme Activity and Its Application. **2019**, 9, 1057		9
1240	Peptide□old Nanoparticle Conjugates as Artificial Carbonic Anhydrase Mimics. **2019**, 9, 903		7
1239	Antigen-labeled mesoporous silica-coated Au-core Pt-shell nanostructure: a novel nanoprobe for highly efficient virus diagnosis. **2019**, 13, 87		13

1238	Therapeutic applications of multifunctional nanozymes. **2019**, 11, 21046-21060	50
1237	Molecular imprinting on PtPd nanoflowers for selective recognition and determination of hydrogen peroxide and glucose.. **2019**, 9, 33678-33683	5
1236	Cu@Au(Ag)/Pt nanocomposite as peroxidase mimic and application of Cu@Au/Pt in colorimetric detection of glucose and l-cysteine.. **2019**, 9, 41561-41568	10
1235	Metal Nanomaterials. **2019**, 39-65	
1234	Signal Amplification. **2019**, 287-312	2
1233	Masking the Peroxidase-Like Activity of the Molybdenum Disulfide Nanozyme Enables Label-Free Lipase Detection. **2019**, 20, 1861-1867	12
1232	A self-activated nanobiocatalytic cascade system based on an enzyme-inorganic hybrid nanoflower for colorimetric and visual detection of glucose in human serum. **2019**, 284, 45-54	27
1231	Phosphatase-like Activity of Porous Nanorods of CeO for the Highly Stabilized Dephosphorylation under Interferences. **2019**, 11, 195-201	47
1230	Engineering Nanozymes Using DNA for Catalytic Regulation. **2019**, 11, 1790-1799	38
1229	Self-assembled nanozyme complexes with enhanced cascade activity and high stability for colorimetric detection of glucose. **2019**, 30, 1009-1012	26
1228	Redox-dependent catalase mimetic cerium oxide-based nanozyme protect human hepatic cells from 3-AT induced acatalasemia. **2019**, 175, 625-635	46
1227	Recent Advances in Nanozyme Research. **2019**, 31, e1805368	246
1226	A visualized colorimetric detection strategy for heparin in serum using a metal-free polymer nanozyme. **2019**, 145, 864-871	14
1225	Electrospun nanofibrous materials: A versatile platform for enzyme mimicking and their sensing applications. **2019**, 12, 1-13	29
1224	Double-integrated mimic enzymes for the visual screening of Microcystin-LR: Copper hydroxide nanozyme and G-quadruplex/hemin DNAzyme. **2019**, 1054, 128-136	21
1223	Rapid and label-free, electrochemical DNA detection utilizing the oxidase-mimicking activity of cerium oxide nanoparticles. **2019**, 99, 5-10	20
1222	MoO nanodots with dual enzyme mimic activities as multifunctional modulators for amyloid assembly and neurotoxicity. **2019**, 539, 575-584	18
1221	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. **2019**, 58, 1638-1646	74

1220	Mustard seeds derived fluorescent carbon quantum dots and their peroxidase-like activity for colorimetric detection of HO and ascorbic acid in a real sample. **2019**, 1054, 145-156	80
1219	Unlocking the hidden talent of DNA: Unexpected catalytic activity for colorimetric assay of alkaline phosphatase. **2019**, 1055, 98-105	17
1218	Identification and Directed Development of Non-Organic Catalysts with Apparent Pan-Enzymatic Mimicry into Nanozymes for Efficient Prodrug Conversion. **2019**, 58, 278-282	39
1217	Nanocatalytic Tumor Therapy by Biomimetic Dual Inorganic Nanozyme-Catalyzed Cascade Reaction. **2019**, 6, 1801733	250
1216	New insights into nanomaterials combating bacteria: ROS and beyond. **2019**, 62, 150-152	11
1215	Identification and Directed Development of Non-Organic Catalysts with Apparent Pan-Enzymatic Mimicry into Nanozymes for Efficient Prodrug Conversion. **2019**, 131, 284-288	2
1214	A facile one-pot method to prepare peroxidase-like nanogel artificial enzymes for highly efficient and controllable catalysis. **2019**, 174, 352-359	9
1213	Colorimetric detection of methyltransferase activity based on the enhancement of CoOOH nanozyme activity by ssDNA. **2019**, 281, 1073-1079	29
1212	Bacterial intracellular nanoparticles exhibiting antioxidant properties and the significance of their formation in ROS detoxification. **2019**, 11, 140-146	4
1211	Synthesis of g-CN@CuMOFs nanocomposite with superior peroxidase mimetic activity for the fluorometric measurement of glucose. **2019**, 213, 28-36	21
1210	Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. **2019**, 186, 50	22
1209	Nanomaterials for Intracellular pH Sensing and Imaging. **2019**, 241-273	5
1208	Fluorometric determination of glucose based on a redox reaction between glucose and aminopropyltriethoxysilane and in-situ formation of blue-green emitting silicon nanodots. **2019**, 186, 78	11
1207	Fluorometric determination of pesticides and organophosphates using nanoceria as a phosphatase mimic and an inner filter effect on carbon nanodots. **2019**, 186, 66	33
1206	Aptamer-mediated colorimetric and electrochemical detection of Pseudomonas aeruginosa utilizing peroxidase-mimic activity of gold NanoZyme. **2019**, 411, 1229-1238	92
1205	Synthesis, properties and applications of noble metal iridium nanomaterials. **2019**, 387, 450-462	20
1204	Ultrasensitive Colorimetric Detection of Murine Norovirus Using NanoZyme Aptasensor. **2019**, 91, 3270-3276	108
1203	Dextran-Coated Iron Oxide Nanoparticles as Biomimetic Catalysts for Localized and pH-Activated Biofilm Disruption. **2019**, 13, 4960-4971	124

1202	Enlargement of Gold Nanoparticles for Sensitive Immunochromatographic Diagnostics of Potato Brown Rot. **2019**, 19,		23
1201	Fabricating and regulating peroxidase-like activity of eggshell membrane-templated gold nanoclusters for colorimetric detection of staphylococcal enterotoxin B. **2019**, 194, 634-642		15
1200	The preparation of high-index facet Au/Cu NRs and their application for colorimetric determination ascorbic acid. **2019**, 281, 375-382		11
1199	Highly selective and sensitive turn-on fluorescent probes for sensing Hg2+ ions in mixed aqueous solution. **2019**, 281, 311-319		12
1198	Hollow and porous nickel sulfide nanocubes prepared from a metal-organic framework as an efficient enzyme mimic for colorimetric detection of hydrogen peroxide. **2019**, 411, 129-137		17
1197	Engineering Nanoceria for Enhanced Peroxidase Mimics: A Solid Solution Strategy. **2019**, 11, 737-743		22
1196	A peroxidase-mimicking nanosensor with Hg2+-triggered enzymatic activity of cysteine-decorated ferromagnetic particles for ultrasensitive Hg2+ detection in environmental and biological fluids. **2019**, 281, 445-452		55
1195	Synthetic Catalysts Inspired by Hydrolytic Enzymes. **2019**, 9, 168-187		52
1194	CoO/CuO hollow nanocage hybrids with high oxidase-like activity for biosensing of dopamine. **2019** , 94, 858-866		35
1193	DNA-directed enzyme immobilization on Fe3O4 modified with nitrogen-doped graphene quantum dots as a highly efficient and stable multi-catalyst system. **2019**, 54, 2535-2551		14
1192	Enzyme-free multicolor biosensor based on Cu2+-modified carbon nitride nanosheets and gold nanobipyramids for sensitive detection of neuron specific enolase. **2019**, 283, 138-145		26
1191	High-activity FeO nanozyme as signal amplifier: A simple, low-cost but efficient strategy for ultrasensitive photoelectrochemical immunoassay. **2019**, 127, 64-71		57
1190	Exosome-like Nanozyme Vesicles for HO-Responsive Catalytic Photoacoustic Imaging of Xenograft Nasopharyngeal Carcinoma. **2019**, 19, 203-209		92
1189	Chiral Molecule-mediated Porous Cu O Nanoparticle Clusters with Antioxidation Activity for Ameliorating Parkinson's Disease. **2019**, 141, 1091-1099		134
1188	Improved ELISA for tumor marker detection using electro-readout-mode based on label triggered degradation of methylene blue. **2019**, 126, 800-805		19
1187	Nanomaterials with enzyme-like characteristics (nanozymes): next-generation artificial enzymes (II). *Chemical Society Reviews*, **2019**, 48, 1004-1076	58.5	1430
1186	Nanozymes with intrinsic peroxidase-like activities. **2019**, 278, 130-144		64
1185	Catechol oxidase mimetic activity of cadmium sulfide nanoparticles for the oxidation of L- 3,4 -dihydroxyphenylalanine. **2019**, 6, 035020		

1184	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. **2019**, 283, 18-34	51
1183	Enzyme-based biosensors for choline analysis: A review. **2019**, 110, 367-374	28
1182	Role of Nanoparticles on Photosynthesis. **2019**, 103-127	17
1181	Functional Nanomaterials and Nanostructures Enhancing Electrochemical Biosensors and Lab-on-a-Chip Performances: Recent Progress, Applications, and Future Perspective. **2019**, 119, 120-194	271
1180	Electrochemical sensing of hydrogen peroxide using nitrogen-doped graphene/porous iron oxide nanorod composite. **2019**, 235, 137-140	13
1179	CuMnO2 nanoflakes as pH-switchable catalysts with multiple enzyme-like activities for cysteine detection. **2019**, 279, 374-384	40
1178	Cu (II)-based metal-organic xerogels as a novel nanozyme for colorimetric detection of dopamine. **2019**, 207, 236-241	24
1177	Understanding the role of oxo and peroxido species in the glutathione peroxidase (GPx)-like activity of metal based nanozymes. **2019**, 484, 283-290	5
1176	Silver-gold-apoferritin nanozyme for suppressing oxidative stress during cryopreservation. **2019**, 94, 831-840	23
1175	Designed fabrication of biomimetic metal□rganic frameworks for catalytic applications. **2019**, 378, 445-465	89
1174	Graphene-supported biomimetic catalysts with synergistic effect of adsorption and degradation for efficient dye capture and removal. **2020**, 31, 239-243	12
1173	When Nanozymes Meet Single-Atom Catalysis. **2020**, 59, 2565-2576	201
1172	When Nanozymes Meet Single-Atom Catalysis. **2020**, 132, 2585-2596	55
1171	On the origin of microbial magnetoreception. **2020**, 7, 472-479	20
1170	'Artificial peroxidase' nanozyme - enzyme based lactate biosensor. **2020**, 208, 120393	28
1169	Electrochemical DNA sensor for inorganic mercury(II) ion at attomolar level in dairy product using Cu(II)-anchored metal-organic framework as mimetic catalyst. **2020**, 383, 123182	28
1168	Copper Tannic Acid Coordination Nanosheet: A Potent Nanozyme for Scavenging ROS from Cigarette Smoke. **2020**, 16, e1902123	52
1167	Development of nanotubes coated with platinum nanodendrites using a virus as a template. **2020**, 31, 015502	3

1166	Macrophage polarization by plasma sprayed ceria coatings on titanium-based implants: Cerium valence state matters. **2020**, 504, 144070	15
1165	Enhanced peroxidase-like activity of hierarchical MoS2-decorated N-doped carbon nanotubes with synergetic effect for colorimetric detection of H2O2 and ascorbic acid. **2020**, 31, 1109-1113	48
1164	C-dots/Mn3O4 nanocomposite as an oxidase nanozyme for colorimetric determination of ferrous ion. **2020**, 17, 507-512	10
1163	Bienzymatic synergism of vanadium oxide nanodots to efficiently eradicate drug-resistant bacteria during wound healing in vivo. **2020**, 559, 313-323	35
1162	Clinically colorimetric diagnostics of blood glucose levels based on vanadium oxide quantum dots enzyme mimics. **2020**, 153, 104352	8
1161	Dimension conversion: from a 1D metal□rganic gel into a 3D metal□rganic porous network with high-efficiency multiple enzyme-like activities for cascade reactions. **2020**, 5, 119-123	11
1160	Highly tuned cobalt-doped MnO2 nanozyme as remarkably efficient uricase mimic. **2020**, 10, 317-328	3
1159	Synergistic Effect of Polyoxometalate and Single Walled Carbon Nanotubes on Peroxidase-like Mimics and Highly Sensitive Electrochemical Detection of Hydrogen Peroxide. **2020**, 32, 683-689	0
1158	Strategies of enzyme immobilization on nanomatrix supports and their intracellular delivery. **2020**, 38, 2746-2762	14
1157	Robust magnetic laccase-mimicking nanozyme for oxidizing o-phenylenediamine and removing phenolic pollutants. **2020**, 88, 103-111	29
1156	A DNA electrochemical biosensor based on triplex DNA-templated Ag/Pt nanoclusters for the detection of single-nucleotide variant. **2020**, 207, 120257	16
1155	Biological, biomedical and pharmaceutical applications of cerium oxide. **2020**, 279-358	18
1154	Vitamin B functionalized iron oxide nanozymes for mouth ulcer healing. **2020**, 63, 68-79	15
1153	Designing electrochemical interfaces based on nanohybrids of avidin functionalized-carbon nanotubes and ruthenium nanoparticles as peroxidase-like nanozyme with supramolecular recognition properties for site-specific anchoring of biotinylated residues. **2020**, 148, 111764	27
1152	Improving cancer therapy through the nanomaterials-assisted alleviation of hypoxia. **2020**, 228, 119578	82
1151	Inorganic nanoparticles with enzyme-mimetic activities for biomedical applications. **2020**, 403, 213092	66
1150	Heme Cofactor-Resembling Fe□N Single Site Embedded Graphene as Nanozymes to Selectively Detect H2O2 with High Sensitivity. **2020**, 30, 1905410	99
1149	Remote-controlled multi-enzyme system for enhanced tumor therapy via dark/light relay catalysis. **2020**, 5, 283-293	27

1148	Ultrasensitive electrochemiluminescence aptasensor for kanamycin detection based on silver nanoparticle-catalyzed chemiluminescent reaction between luminol and hydrogen peroxide. **2020**, 304, 127367	52
1147	Antioxidant properties of gold nanozyme: A review. **2020**, 297, 112004	33
1146	Triethylamine as a complexing reagent for highly efficient naked-eyes copper ions sensing A new catalytic pathway for ultrasensitive detection. **2020**, 305, 127373	3
1145	Ascorbate Oxidase Mimetic Activity of Copper(II) Oxide Nanoparticles. **2020**, 21, 978-984	18
1144	Degradation of phenol using a peroxidase mimetic catalyst through conjugating deuterohemin-peptide onto metal-organic framework with enhanced catalytic activity. **2020**, 134, 105859	5
1143	Dual responsive magnetic FeO-TiO/graphene nanocomposite as an artificial nanozyme for the colorimetric detection and photodegradation of pesticide in an aqueous medium. **2020**, 385, 121516	69
1142	Quercetin@ZIF-90 as a novel antioxidant for label-free colorimetric ATP sensing at neutral pH. **2020**, 304, 127324	13
1141	Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes. **2020**, 10,	20
1140	Colorimetric determination of the activity of alkaline phosphatase by exploiting the oxidase-like activity of palladium cube@CeO core-shell nanoparticles. **2020**, 187, 115	17
1139	Graphene oxide as a photocatalytic nuclease mimicking nanozyme for DNA cleavage. **2020**, 13, 455-460	28
1138	Heparin-platinum nanozymes with enhanced oxidase-like activity for the colorimetric sensing of isoniazid. **2020**, 211, 120707	19
1137	Degradation of Anthraquinone Dyes from Effluents: A Review Focusing on Enzymatic Dye Degradation with Industrial Potential. **2020**, 54, 647-664	137
1136	Ultrasmall theranostic nanozymes to modulate tumor hypoxia for augmenting photodynamic therapy and radiotherapy. **2020**, 8, 973-987	27
1135	A gold nanoparticle-intercalated mesoporous silica-based nanozyme for the selective colorimetric detection of dopamine. **2020**, 2, 734-745	11
1134	Self color-changing ordered mesoporous ceria for reagent-free colorimetric biosensing. **2020**, 12, 1419-1424	15
1133	Nanozyme-based catalytic theranostics.. **2019**, 10, 10-20	48
1132	The importance of nanoscale confinement to electrocatalytic performance. **2019**, 11, 1233-1240	23
1131	Superparamagnetic nanoparticles for biomedical applications. **2020**, 8, 354-367	75

1130	Cerium(III)-doped MoS nanosheets with expanded interlayer spacing and peroxidase-mimicking properties for colorimetric determination of hydrogen peroxide. **2020**, 187, 111	12
1129	The Fe-N-C oxidase-like nanozyme used for catalytic oxidation of NOM in surface water. **2020**, 171, 115491	15
1128	Colorimetric Detection of Nucleic Acids through Triplex-Hybridization Chain Reaction and DNA-Controlled Growth of Platinum Nanoparticles on Graphene Oxide. **2020**, 92, 2714-2721	27
1127	Plasmon-activated nanozymes with enhanced catalytic activity by near-infrared light irradiation. **2020**, 56, 1784-1787	13
1126	Silica-polydopamine hybrids as light-induced oxidase mimics for colorimetric detection of pyrophosphate. **2020**, 145, 424-433	9
1125	Molecule-gated surface chemistry of Pt nanoparticles for constructing activity-controllable nanozymes and a three-in-one sensor. **2020**, 145, 1279-1287	13
1124	Mechanism of the Oxidation of 3,3',5,5'-Tetramethylbenzidine Catalyzed by Peroxidase-Like Pt Nanoparticles Immobilized in Spherical Polyelectrolyte Brushes: A Kinetic Study. **2020**, 21, 450-458	12
1123	A serological point-of-care test for Zika virus detection and infection surveillance using an enzyme-free vial immunosensor with a smartphone. **2020**, 151, 111960	13
1122	Controlled formation of porous CuCoO nanorods with enhanced oxidase and catalase catalytic activities using bimetal-organic frameworks as templates. **2020**, 188, 110764	17
1121	Enzyme Mimicking Based on the Natural Melanin Particles from Human Hair. **2020**, 23, 100778	12
1120	Ultrasound-Enhanced Generation of Reactive Oxygen Species for MRI-Guided Tumor Therapy by the Fe@FeO-Based Peroxidase-Mimicking Nanozyme.. **2020**, 3, 639-647	13
1119	Optical Biosensor for Rapid Detection of Based on Porous Gold@Platinum Nanocatalysts and a 3D Fluidic Chip. **2020**, 5, 65-72	32
1118	Biodegradation-Mediated Enzymatic Activity-Tunable Molybdenum Oxide Nanourchins for Tumor-Specific Cascade Catalytic Therapy. **2020**, 142, 1636-1644	108
1117	A composite prepared from MoS quantum dots and silver nanoparticles and stimulated by mercury(II) is a robust oxidase mimetic for use in visual determination of cysteine. **2019**, 187, 74	14
1116	Low-background electrochemical biosensor for one-step detection of base excision repair enzyme. **2020**, 150, 111865	8
1115	Exploring the bactericidal performance and application of novel mimic enzyme CoS. **2020**, 561, 327-337	5
1114	Gold nanozyme: Biosensing and therapeutic activities. **2020**, 108, 110422	41
1113	Protein-protected metal nanoclusters: An emerging ultra-small nanozyme. **2020**, 12, e1602	25

1112	Mulberry-like Au@PtPd porous nanorods composites as signal amplifiers for sensitive detection of CEA. **2020**, 149, 111842	27
1111	Catalytically Active Peptide-Gold Nanoparticle Conjugates: Prospecting for Artificial Enzymes. **2020**, 59, 8776-8785	20
1110	State-of-the-art iron-based nanozymes for biocatalytic tumor therapy. **2020**, 5, 202-217	44
1109	Advanced nanotechnology for hypoxia-associated antitumor therapy. **2020**, 12, 2855-2874	27
1108	Catalytically Active Peptide□Gold Nanoparticle Conjugates: Prospecting for Artificial Enzymes. **2020**, 132, 8858-8867	1
1107	A Heparinase Sensor Based on a Ternary System of Hg-Heparin-Osmium Nanoparticles. **2020**, 92, 1635-1642	17
1106	Pt nanoparticle-coupled WO nanoplates as multi-enzyme mimetics for colorimetric detection and radical elimination. **2020**, 412, 521-530	4
1105	Molybdenum disulfides nanoflowers anchoring iron-based metal organic framework: A synergetic catalyst with superior peroxidase-mimicking activity for biosensing. **2020**, 305, 127530	14
1104	CeO/C nanowire derived from a cerium(III) based organic framework as a peroxidase mimic for colorimetric sensing of hydrogen peroxide and for enzymatic sensing of glucose. **2019**, 187, 11	23
1103	Strain Effect in Palladium Nanostructures as Nanozymes. **2020**, 20, 272-277	46
1102	Highly sensitive colorimetric sensor for detection of iodine ions using carboxylated chitosan-coated palladium nanozyme. **2020**, 412, 499-506	25
1101	Photothermal-enhanced tandem enzyme-like activity of Ag2-xCuxS nanoparticles for one-step colorimetric glucose detection in unprocessed human urine. **2020**, 305, 127420	16
1100	Review□Nanozyme-Based Immunosensors and Immunoassays: Recent Developments and Future Trends. **2020**, 167, 037508	39
1099	Magnetic nanocatalysts derived from carbon nanotubes functionalized with imidazole: towards pesticide degradation. **2020**, 264, 118496	11
1098	Well-aligned Cu@C nanocubes for highly efficient nonenzymatic glucose detection in human serum. **2020**, 305, 127473	21
1097	Size-controllable Fe-N/C single-atom nanozyme with exceptional oxidase-like activity for sensitive detection of alkaline phosphatase. **2020**, 305, 127511	93
1096	Bimetallic Fe/Mn metal-organic-frameworks and Au nanoparticles anchored carbon nanotubes as a peroxidase-like detection platform with increased active sites and enhanced electron transfer. **2020**, 210, 120678	22
1095	Dramatically Enhanced Immunochromatographic Assay Using Cascade Signal Amplification for Ultrasensitive Detection of O157:H7 in Milk. **2020**, 68, 1118-1125	40

1094	The Advances of Ceria Nanoparticles for Biomedical Applications in Orthopaedics. **2020**, 15, 7199-7214	16
1093	Nano-Sized Iron Sulfide: Structure, Synthesis, Properties, and Biomedical Applications. **2020**, 8, 818	8
1092	Single-atom nanozymes for biological applications. **2020**, 8, 6428-6441	15
1091	Determination of glycated albumin using a Prussian blue nanozyme-based boronate affinity sandwich assay. **2020**, 1134, 41-49	6
1090	Single-step electrochemical sensing of ppt-level lead in leaf vegetables based on peroxidase-mimicking metal-organic framework. **2020**, 168, 112544	12
1089	Biosensor nanoengineering: Design, operation, and implementation for biomolecular analysis. **2020**, 1, 100040	99
1088	Nanocomposite antimicrobials prevent bacterial growth through the enzyme-like activity of Bi-doped cerium dioxide (CeBiO). **2020**, 12, 21344-21358	9
1087	Peroxidase Mimic Activities of Copper Selenide (CuSe) Nanoplates for Sensing H□□ and L-Cysteine. **2020**, 20, 5369-5375	
1086	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. **2020**, 168, 112537	52
1085	Nanozyme-mediated cascade reaction based on metal-organic framework for synergetic chemo-photodynamic tumor therapy. **2020**, 328, 631-639	21
1084	Current trends and future prospects of chemical management of oral biofilms. **2020**, 10, 660-664	2
1083	Biomimetic two-dimensional nanozymes: synthesis, hybridization, functional tailoring, and biosensor applications. **2020**, 8, 10065-10086	27
1082	A chiral covalent organic framework (COF) nanozyme with ultrahigh enzymatic activity. **2020**, 7, 3291-3297	21
1081	Emerging biomaterials: Taking full advantage of the intrinsic properties of rare earth elements. **2020**, 35, 100952	13
1080	Size-Tunable Continuous-Seed-Mediated Growth of Silver Nanoparticles in Alkylamine Mixture via the Stepwise Thermal Decomposition of Silver Oxalate. **2020**, 32, 9363-9370	6
1079	Peroxidase-like activity of Fe3O4@fatty acid-nanoparticles and their application for the detection of uric acid. **2020**, 44, 18608-18615	2
1078	Boosting glucose oxidation by constructing Cu□u2O heterostructures. **2020**, 44, 18449-18456	3
1077	"Gold-plated" IRMOF-3 and sea cucumber-like Pd@PtRh SNRs based sandwich-type immunosensor for dual-mode detection of PCT. **2020**, 170, 112667	12

1076	Electrochemical glucose sensors in diabetes management: an updated review (2010-2020). *Chemical Society Reviews*, **2020**, 49, 7671-7709	58.5	172
1075	Designing signal-on sensors by regulating nanozyme activity. **2020**, 12, 4708-4723		8
1074	Enhanced catalytic activity under non-equilibrium conditions. **2020**, 15, 868-874		21
1073	Bifunctional antibody and copper-based metal-organic framework nanocomposites for colorimetric Fetoprotein sensing. **2020**, 187, 465		7
1072	Electrochemical Nanozyme Sensor Based on MoS2-COOH-MWCNT Nanohybrid for a New Plant Growth Regulator 5-Nitroguaiacol. **2020**, 13, 2028-2038		5
1071	Biological interaction levels of zinc oxide nanoparticles; lettuce seeds as case study. **2020**, 6, e03983		10
1070	Copper Pyrovanadate Nanoribbons as Efficient Multienzyme Mimicking Nanozyme for Biosensing Applications. **2020**, 3, 7917-7929		15
1069	Dual detoxification and inflammatory regulation by ceria nanozymes for drug-induced liver injury therapy. **2020**, 35, 100925		39
1068	Comprehensive Review on Current Interventions, Diagnostics, and Nanotechnology Perspectives against SARS-CoV-2. **2020**, 31, 2021-2045		36
1067	Integrated cascade nanozyme catalyzes in vivo ROS scavenging for anti-inflammatory therapy. **2020**, 6, eabb2695		97
1066	Transfer of hydrophobic colloidal gold nanoparticles to aqueous phase using catecholamines. **2020**, 315, 113796		10
1065	A metal-free nanozyme-activated prodrug strategy for targeted tumor catalytic therapy. **2020**, 35, 100935		60
1064	Cyclodextrin coated porous Pd@Au nanostructures with enhanced peroxidase-like activity for colorimetric and paper-based determination of glucose. **2020**, 187, 425		13
1063	Smartphone-assisted off-on photometric determination of phosphate ion based on target-promoted peroxidase-mimetic activity of porous CeZrO (x0.5) nanocomposites. **2020**, 189, 109921		9
1062	Core-shell structured Ag-CoO nanoparticles with superior peroxidase-like activity for colorimetric sensing hydrogen peroxide and o-phenylenediamine. **2020**, 603, 125283		9
1061	Nanomaterials for Treating Bacterial Biofilms on Implantable Medical Devices. **2020**, 10,		14
1060	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. **2020**, 8, 25053-25060		2
1059	Nanocrystals of platinum-group metals as peroxidase mimics for diagnostics. **2020**, 56, 14962-14975		5

1058	Human serum albumin templated MnO nanosheets as an efficient biomimetic oxidase for biomolecule sensing. **2020**, 8, 11090-11095	12
1057	Enzyme-Free Tandem Reaction Strategy for Surface-Enhanced Raman Scattering Detection of Glucose by Using the Composite of Au Nanoparticles and Porphyrin-Based Metal-Organic Framework. **2020**, 12, 55324-55330	32
1056	Osmium nanozyme as peroxidase mimic with high performance and negligible interference of O2. **2020**, 8, 25226-25234	19
1055	Ariel a window to the origin of life on early earth?. **2020**, 1	1
1054	Copper Nanocluster (Cu23 NC)-Based Biomimetic System with Peroxidase Activity. **2020**, 8, 18335-18344	18
1053	Visualization nanozyme based on tumor microenvironment "unlocking" for intensive combination therapy of breast cancer. **2020**, 6,	50
1052	Construct of Carbon Nanotube-Supported FeO Hybrid Nanozyme by Atomic Layer Deposition for Highly Efficient Dopamine Sensing. **2020**, 8, 564968	6
1051	Electrochemical Immunoassay of Endothelin-1 Based on a Fenton-Type Reaction Using Cu(II)-Containing Nanocomposites as Nanozymes. **2020**, 92, 15916-15926	5
1050	Nanoenzymes in disease diagnosis and therapy. **2020**, 56, 15513-15524	22
1049	Recent advances in the construction of nanozyme-based logic gates. **2020**, 6, 245-255	1
1048	BC@DNA-Mn(PO) Nanozyme for Real-Time Detection of Superoxide from Living Cells. **2020**, 92, 15927-15935	9
1047	Hg Significantly Enhancing the Peroxidase-Like Activity of HTCPP/ZnS/CoS Nanoperoxidases by Inducing the Formation of Surface-Cation Defects and Application for the Sensitive and Selective Detection of Hg in the Environment. **2020**, 59, 18384-18395	7
1046	UV-Induced Nanoparticles-Formation, Properties and Their Potential Role in Origin of Life. **2020**, 10,	5
1045	Mucosal Vaccination for Influenza Protection Enhanced by Catalytic Immune-Adjuvant. **2020**, 7, 2000771	16
1044	Bioactive ROS-scavenging nanozymes for regenerative medicine: Reestablishing the antioxidant firewall. **2020**, 1, 285-297	10
1043	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. **2020**, 11, 9741-9756	52
1042	Fabrication and Application of Magnetically Catalytic Imprinting Nanozymes. **2020**, 5, 8284-8288	2
1041	Perovskite mesoporous LaFeO3 with peroxidase-like activity for colorimetric detection of gallic acid. **2020**, 321, 128642	15

1040	Amplified Electrochemical Hydrogen Peroxide Sensing Based on Cu-Porphyrin Metal-Organic Framework Nanofilm and G-Quadruplex-Hemin DNAzyme. **2020**, 12, 58105-58112	31
1039	Poly--Glutamic Acid/Chitosan Hydrogel Nanoparticles Entrapping Glucose Oxidase and Magnetic Nanoparticles for Glucose Biosensing. **2020**, 20, 5333-5337	8
1038	Nanozyme-assisted sensitive profiling of exosomal proteins for rapid cancer diagnosis. **2020**, 10, 9303-9314	15
1037	Natural Polyphenol-Vanadium Oxide Nanozymes for Synergistic Chemodynamic/Photothermal Therapy. **2020**, 26, 15159-15169	22
1036	Composition and morphology effects on catalase mimetic activity of potential bioactive glasses. **2020**, 46, 25854-25864	4
1035	ZIF-8 directed templating synthesis of CeO2 nanoparticles and its oxidase-like activity for colorimetric detection. **2020**, 323, 128625	9
1034	Nanozymatic Activity of UiO-66 Metal□Organic Frameworks: Tuning the Nanopore Environment Enhances Hydrolytic Activity toward Peptide Bonds. **2020**, 3, 8931-8938	17
1033	Sodium Alginate Modified Platinum Nanozymes With Highly Efficient and Robust Oxidase-Like Activity for Antioxidant Capacity and Analysis of Proanthocyanidins. **2020**, 8, 654	4
1032	Ultrasensitive Stimulation Effect of Fluoride Ions on a Novel Nanozyme□SERS System. **2020**, 8, 11906-11913	10
1031	Copper-Sensitized □Turn On□Peroxidase-Like Activity of MMoO4 (M = Co, Ni) Flowers for Selective Detection of Aquatic Copper Ions. **2020**, 8, 12568-12576	16
1030	Noble metal and Fe3O4Co-functionalizedco-functionalized hierarchical polyaniline@MoS2 microtubes. **2020**, 605, 125347	5
1029	Catalase active metal-organic framework synthesized by ligand regulation for the dual detection of glucose and cysteine. **2020**, 1131, 118-125	6
1028	A Biocompatible Second Near-Infrared Nanozyme for Spatiotemporal and Non-Invasive Attenuation of Amyloid Deposition through Scalp and Skull. **2020**, 14, 9894-9903	31
1027	Self-assembly synthesis of Ag@PANI nanocomposites as a tandem enzyme utilizing a highly efficient label-free SERS method to detect saccharides. **2020**, 44, 16384-16389	3
1026	Oxidase-like MOF-818 Nanozyme with High Specificity for Catalysis of Catechol Oxidation. **2020**, 142, 15569-15574	89
1025	Metal-organic frameworks and their derivatives as signal amplification elements for electrochemical sensing. **2020**, 424, 213520	58
1024	Room temperature ultrafast synthesis of zinc oxide nanomaterials via hydride generation for non-enzymatic glucose detection. **2020**, 159, 105396	8
1023	Fullerol Nanocatalysis and Trimodal Surface Plasmon Resonance for the Determination of Isocarbophos. **2020**, 8, 673	1

1022	Group IV nanodots: Newly emerging properties and application in biomarkers sensing. **2020**, 131, 116007	35
1021	Self-Assembled Pd Coordination Cage as Photoregulated Oxidase-Like Nanozyme. **2020**, 142, 18981-18989	51
1020	Recent advances of lateral flow immunoassay for mycotoxins detection. **2020**, 133, 116087	25
1019	Porous manganese-cobalt oxide microspheres with tunable oxidase mimicking activity for sulfide ion colorimetric detection. **2020**, 56, 14098-14101	7
1018	A novel and reusable multinanozyme system for sensitive and selective quantification of hydrogen peroxide and highly efficient degradation of organic dye. **2020**, 21, 100771	4
1017	Drug Stability and Chemical Kinetics. **2020**,	1
1016	Coenzyme-dependent nanozymes playing dual roles in oxidase and reductase mimics with enhanced electron transport. **2020**, 12, 23578-23585	6
1015	Plasmonic Nanozymes: Engineered Gold Nanoparticles Exhibit Tunable Plasmon-Enhanced Peroxidase-Mimicking Activity. **2020**, 11, 9321-9328	16
1014	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. **2020**, 92, 13518-13524	42
1013	Metal Nanozyme with Ester Hydrolysis Activity in the Presence of Ammonia-Borane and Its Use in a Sensitive Immunosensor. **2020**, 59, 22419-22422	10
1012	Toward supramolecular nanozymes for the photocatalytic activation of Pt(IV) anticancer prodrugs. **2020**, 56, 10461-10464	7
1011	Monodispersed gold nanoparticles entrapped in ordered mesoporous carbon/silica nanocomposites as xanthine oxidase mimic for electrochemical sensing of xanthine. **2020**, 187, 543	9
1010	Metal Nanozyme with Ester Hydrolysis Activity in the Presence of Ammonia-Borane and Its Use in a Sensitive Immunosensor. **2020**, 132, 22605-22608	2
1009	N, S, and P-Co-doped Carbon Quantum Dots: Intrinsic Peroxidase Activity in a Wide pH Range and Its Antibacterial Applications. **2020**, 6, 5527-5537	39
1008	Density Functional Theory-Based Method to Predict the Activities of Nanomaterials as Peroxidase Mimics. **2020**, 10, 12657-12665	33
1007	Construction of a chiral artificial enzyme used for enantioselective catalysis in live cells. **2020**, 11, 11344-11350	6
1006	Visual detection of in vitro nucleic acid replication by submicro- and nano-sized materials. **2020**, 169, 112602	1
1005	Boron-doped Fe-N-C single-atom nanozymes specifically boost peroxidase-like activity. **2020**, 35, 100971	69

1004	Fluorescence Quenchers Manipulate the Peroxidase-like Activity of Gold-Based Nanomaterials. **2020**, 5, 24487-24494	2
1003	FeO@GO magnetic nanocomposites protect mesenchymal stem cells and promote osteogenic differentiation of rat bone marrow mesenchymal stem cells. **2020**, 8, 5984-5993	11
1002	Protein-mediated sponge-like copper sulfide as an ingenious and efficient peroxidase mimic for colorimetric glucose sensing.. **2020**, 10, 28819-28826	6
1001	In Situ Enzymatic Generation of Gold Nanoparticles for Nanozymatic Label-free Detection of Acid Phosphatase. **2020**, 3, 9462-9469	5
1000	Platinum nanoparticle-deposited multi-walled carbon nanotubes as a NADH oxidase mimic: characterization and applications. **2020**, 12, 19284-19292	12
999	Intrinsic Peroxidase-Mimicking Ir Nanoplates for Nanozymatic Anticancer and Antibacterial Treatment. **2020**, 12, 41062-41070	16
998	In vitro antioxidant activity of synthesized BSA conjugated manganese dioxide nanoparticles. **2020**, 2, 1	2
997	Synthesis and Characterization of Antibody-Protected Bimetallic Nanoclusters with Catalytic Properties. **2020**, 32, 8286-8293	1
996	Ultra-small iridium nanoparticles as active catalysts for the selective and efficient reduction of nitroarenes. **2020**, 44, 18274-18280	5
995	Engineering Inorganic Nanoflares with Elaborate Enzymatic Specificity and Efficiency for Versatile Biofilm Eradication. **2020**, 16, e2002348	19
994	High Carbonization Temperature to Trigger Enzyme Mimicking Activities of Silk-Derived Nanosheets. **2020**, 16, e2004129	8
993	Uniformly distributed ruthenium nanocrystals as highly efficient peroxidase for hydrogen peroxide colorimetric detection and nitroreductase for 4-nitroaniline reduction. **2020**, 56, 12347-12350	8
992	Cu MoS Nanozyme with NIR-II Light Enhanced Catalytic Activity for Efficient Eradication of Multidrug-Resistant Bacteria. **2020**, 16, e2001099	44
991	Origins of the peroxidase mimicking activities of graphene oxide from first principles. **2020**,	13
990	GSH-Depleted Nanozymes with Hyperthermia-Enhanced Dual Enzyme-Mimic Activities for Tumor Nanocatalytic Therapy. **2020**, 32, e2002439	135
989	Spatial Confinement of Enzyme and Nanozyme in Silica-Based Hollow Microreactors. **2020**, 12, 45476-45484	7
988	Covalent and Noncovalent Functionalization of Graphene Oxide with DNA for Smart Sensing. **2020**, 2, 2000123	35
987	Metal-organic framework based nanozymes: promising materials for biochemical analysis. **2020**, 56, 11338-11353	53

986	Polymer-Coated Cerium Oxide Nanoparticles as Oxidoreductase-like Catalysts. **2020**, 12, 42056-42066	27
985	Synthesis, Catalytic Properties and Application in Biosensorics of Nanozymes and Electronanocatalysts: A Review. **2020**, 20,	24
984	Self-Reducing Prussian Blue on Ti3C2Tx MXene Nanosheets as a Dual-Functional Nanohybrid for Hydrogen Peroxide and Pesticide Sensing. **2020**, 59, 15556-15564	11
983	Virus detection using nanoparticles and deep neural network-enabled smartphone system. **2020**, 6,	18
982	Colorimetric Detection of Hg2+ Based on the Promotion of Oxidase-Like Catalytic Activity of Ag Nanowires. **2020**, 19, 2050004	3
981	Dual enzyme-like activities of transition metal-doped MnO2 nanocoatings and their dependence on the electronic band structure and ionic dissolution. **2020**, 534, 147649	11
980	One electron oxidation of ascorbic acid facilitated by ionic liquid-doped poly (3, 4-ethylenedioxythiophene) as artificial enzyme. **2020**, 878, 114702	2
979	Facile one-step deposition of Co3O4-MoS2 nanocomposites using a vacuum kinetic spray process for non-enzymatic H2O2 sensing. **2020**, 21, 100748	6
978	Ultrafast and sensitive colorimetric detection of ascorbic acid with Pd-Pt core-shell nanostructure as peroxidase mimic. **2020**, 1, 100031	4
977	Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid-□n an Alzheimer's Disease Model. **2020**, 142, 21702-21711	36
976	Achieving Ultrasmall Prussian Blue Nanoparticles as High-Performance Biomedical Agents with Multifunctions. **2020**, 12, 57382-57390	16
975	Two-Dimensional Nanomaterials With Enzyme-Like Properties for Biomedical Applications. **2020**, 8, 565940	13
974	Recent Advances in Enzymatic and Chemoenzymatic Cascade Processes. **2020**, 10, 1258	17
973	Graphene in different extraction techniques. **2020**, 91, 49-72	1
972	Heparin as a bifunctional biotemplate for Pt nanocluster with exclusively peroxidase mimicking activity at near-neutral pH. **2020**, 606, 125455	10
971	A colorimetric sensing platform based on self-assembled 3D porous CeGONR nanozymes for label-free visual detection of organophosphate pesticides. **2020**, 1, 2789-2796	3
970	The Effect of Synthesis Procedure on Hydrogen Peroxidase-Like Catalytic Activity of Iron Oxide Magnetic Particles. **2020**, 10, 6756	1
969	Nanozyme Sensor Arrays Based on Heteroatom-Doped Graphene for Detecting Pesticides. **2020**, 92, 7444-7452	76

968	Phosphate-responsive 2D-metal-organic-framework-nanozymes for colorimetric detection of alkaline phosphatase. **2020**, 8, 6905-6911	23
967	Nanofabrication within unimolecular nanoreactors. **2020**, 12, 12698-12711	5
966	Nanozymes for Catalytic Cancer Immunotherapy. **2020**, 3, 4925-4943	24
965	Intrinsic Enzyme-like Activities of Cerium Oxide Nanocomposite and Its Application for Extracellular HO Detection Using an Electrochemical Microfluidic Device. **2020**, 5, 11883-11894	20
964	Protein-Based Artificial Nanosystems in Cancer Therapy. **2020**, 16, e1907256	24
963	Bimetallic CuCo S Nanozymes with Enhanced Peroxidase Activity at Neutral pH for Combating Burn Infections. **2020**, 21, 2620-2627	15
962	A biomimetic nanozyme/camptothecin hybrid system for synergistically enhanced radiotherapy. **2020**, 8, 5312-5319	25
961	Nanozyme-based electrochemical biosensors for disease biomarker detection. **2020**, 145, 4398-4420	60
960	Cadmium cobaltite nanosheets synthesized in basic deep eutectic solvents with oxidase-like, peroxidase-like, and catalase-like activities and application in the colorimetric assay of glucose. **2020**, 187, 314	23
959	Nanozyme-Triggered DNA Release from Alginate Films.. **2020**, 3, 3741-3750	8
958	Recent advances in nanomaterial-enhanced enzyme-linked immunosorbent assays. **2020**, 145, 4069-4078	20
957	Insights into Cronobacter sakazakii Biofilm Formation and Control Strategies in the Food Industry. **2020**, 6, 393-405	25
956	Synthesis of an ordered nanoporous Cu/Ni/Au film for sensitive non-enzymatic glucose sensing.. **2020**, 10, 12883-12890	4
955	A simple enzymeless approach for Paraoxon determination using imidazole-functionalized carbon nanotubes. **2020**, 116, 111140	8
954	Non-Functionalized Fullerenes and Endofullerenes in Aqueous Dispersions as Superoxide Scavengers. **2020**, 25,	6
953	Advances in Synchrotron Radiation-based X-ray Absorption Spectroscopy to Characterize the Fine Atomic Structure of Single-atom Nanozymes. **2020**, 15, 2110-2116	2
952	NIR-II driven plasmon-enhanced cascade reaction for tumor microenvironment-regulated catalytic therapy based on bio-breakable Au Ag nanozyme. **2020**, 13, 2118-2129	9
951	Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. **2020**, 7, 1902980	29

950	A peroxidase-mimicking Zr-based MOF colorimetric sensing array to quantify and discriminate phosphorylated proteins. **2020**, 1121, 26-34	41
949	Oxygen Pathology and Oxygen-Functional Materials for Therapeutics. **2020**, 2, 1115-1147	6
948	Advances in nanotechnology-based strategies for the treatments of amyotrophic lateral sclerosis. **2020**, 6, 100055	18
947	Intrinsic peroxidase-like activity of graphene nanoribbons for label-free colorimetric detection of dopamine. **2020**, 114, 111034	18
946	Densely Isolated FeN4 Sites for Peroxidase Mimicking. **2020**, 10, 6422-6429	87
945	Core-shell Au@Co-Fe hybrid nanoparticles as peroxidase mimetic nanozyme for antibacterial application. **2020**, 95, 131-138	19
944	Cobalt tuned copper sulfide on montmorillonite: Peroxidase-like activity, catalytic mechanism and colorimetric sensing of hydrogen peroxide. **2020**, 602, 125063	10
943	Single-atom nanozymes: A rising star for biosensing and biomedicine. **2020**, 418, 213376	58
942	Enzyme-like electrocatalysis from 2D gold nanograss-nanocube assemblies. **2020**, 575, 24-34	3
941	Polymer-Based Bioorthogonal Nanocatalysts for the Treatment of Bacterial Biofilms. **2020**, 142, 10723-10729	42
940	Emission Wavelength Switchable Carbon Dots Combined with Biomimetic Inorganic Nanozymes for a Two-Photon Fluorescence Immunoassay. **2020**, 12, 30085-30094	18
939	Reversible Inhibition of Iron Oxide Nanozyme by Guanidine Chloride. **2020**, 8, 491	3
938	Multifunctional magnetic iron oxide nanoparticles: an advanced platform for cancer theranostics. **2020**, 10, 6278-6309	99
937	The Fe-N-C Nanozyme with Both Accelerated and Inhibited Biocatalytic Activities Capable of Accessing Drug□Drug Interactions. **2020**, 132, 14606-14611	11
936	Aptamer-gold nanozyme based competitive lateral flow assay for rapid detection of CA125 in human serum. **2020**, 165, 112368	21
935	Surface-Plasmonic-Field-Induced Photoredox Catalysis and Mediated Electron Transfer for Washing-Free DNA Detection. **2020**, 132, 19364-19370	
934	Fluorescence detection of dopamine based on the polyphenol oxidase-mimicking enzyme. **2020**, 412, 5291-5297	11
933	Electrochemical Immunoassay for Determination of Glycated Albumin using Nanozymes. **2020**, 10, 9513	9

932	Ultrarapid, size-controlled, high-crystalline plasma-mediated synthesis of ceria nanoparticles for reagent-free colorimetric glucose test strips. **2020**, 320, 128404	6
931	Intrinsic Oxidase-like Nanoenzyme CoS/Co(OH) Hybrid Nanotubes with Broad-Spectrum Antibacterial Activity. **2020**, 12, 29614-29624	10
930	Colorimetric detection of HO based on the enhanced peroxidase mimetic activity of nanoparticles decorated Ce(WO) nanosheets. **2020**, 239, 118499	7
929	Surface-Plasmonic-Field-Induced Photoredox Catalysis and Mediated Electron Transfer for Washing-Free DNA Detection. **2020**, 59, 19202-19208	1
928	Nanostructured MnO2 nanosheets grown on nickel foam: an efficient and readily recyclable 3D artificial oxidase for the colorimetric detection of ascorbic acid. **2020**, 44, 11959-11964	2
927	The Fe-N-C Nanozyme with Both Accelerated and Inhibited Biocatalytic Activities Capable of Accessing Drug-Drug Interactions. **2020**, 59, 14498-14503	43
926	Rod-shape inorganic biomimetic mutual-reinforcing MnO2-Au nanozymes for catalysis-enhanced hypoxic tumor therapy. **2020**, 13, 2246-2258	27
925	Nanozyme-based luminescence detection. **2020**, 35, 1185-1194	7
924	Promotion and Inhibition of the Oxidase-Mimicking Activity of Nanoceria by Phosphate, Polyphosphate, and DNA. **2020**, 21, 2178-2186	16
923	Dispersible and manipulable magnetic L1-FePt nanoparticles. **2020**, 12, 7843-7848	7
922	A heparin-modified palladium nanozyme for photometric determination of protamine. **2020**, 187, 226	6
921	The phosphatase-like activity of zirconium oxide nanoparticles and their application in near-infrared intracellular imaging. **2020**, 8, 4428-4433	13
920	Applications of nanozymes in the environment. **2020**, 7, 1305-1318	42
919	Peroxidase-Like Nanozymes Induce a Novel Form of Cell Death and Inhibit Tumor Growth In Vivo. **2020**, 30, 2000647	24
918	Discrete Hf Metal-oxo Cluster as a Heterogeneous Nanozyme for Site-Specific Proteolysis. **2020**, 59, 9094-9101	17
917	Doping Nitrogen into Q-Graphene by Plasma Treatment toward Peroxidase Mimics with Enhanced Catalysis. **2020**, 92, 5152-5157	19
916	Programmable and Reversible Regulation of Catalytic Hemin@MOFs Activities with DNA Structures. **2020**, 36, 301-306	3
915	Redox nanoparticles. **2020**, 65-74	

914	Protein-Supported RuO Nanoparticles with Improved Catalytic Activity, In Vitro Salt Resistance, and Biocompatibility: Colorimetric and Electrochemical Biosensing of Cellular HO. **2020**, 12, 14876-14883	24
913	Ultrasonic synthesis of nano-PrO as nanozyme for colorimetric determination of trans-resveratrol. **2020**, 10, 4432	3
912	Discrete Hf18 Metal-oxo Cluster as a Heterogeneous Nanozyme for Site-Specific Proteolysis. **2020**, 132, 9179-9186	6
911	The Bioactive Core and Corona Synergism of Quantized Gold Enables Slowed Inflammation and Increased Tissue Regeneration in Wound Hypoxia. **2020**, 21,	6
910	Signal-off tuned signal-on (SF-T-SN) colorimetric immunoassay for amantadine using activity-metalmodulated peroxidase-mimicking nanozyme. **2020**, 311, 127933	9
909	Nanotechnology in agriculture: Current status, challenges and future opportunities. **2020**, 721, 137778	226
908	Recent Advances in Enzyme-Nanostructure Biocatalysts with Enhanced Activity. **2020**, 10, 338	26
907	Electrochemical and sensing properties of Prussian Blue based nanozymes Artificial peroxidase **2020**, 872, 114048	23
906	Manganese oxide functionalized silk fibers for enzyme mimic application. **2020**, 151, 104565	1
905	ReviewEnzymatic Strips for Detection of Serum Total Cholesterol with Point-of-Care Testing (POCT) Devices: Current Status and Future Prospect. **2020**, 167, 037535	11
904	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. **2020**, 132, 11180-11185	11
903	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. **2020**, 59, 11087-11092	48
902	Development of the signal amplification based on Au@Pt/MIL-101(Cr) as mimetic enzyme and RecJf exonuclease-assistant target recycling. **2020**, 312, 128019	6
901	BSA-Decorated Magnesium Nanoparticles for Scavenging Hydrogen Peroxide from Human Hepatic Cells. **2020**, 3, 3355-3370	2
900	Label-free electrochemical immunosensor with palladium nanoparticles functionalized MoS2/NiCo heterostructures for sensitive procalcitonin detection. **2020**, 312, 127980	21
899	Synthesis of MnO nanozymes from structurally characterized phenoxazinone synthase models based on manganese(iii) Schiff base complexes. **2020**, 49, 5999-6011	8
898	Amalgamated gold-nanoalloys with enhanced catalytic activity for the detection of mercury ions (Hg2+) in seawater samples. **2020**, 13, 989-998	22
897	Ionic liquid coated zerovalent manganese nanoparticles with stabilized and enhanced peroxidase-like catalytic activity for colorimetric detection of hydrogen peroxide. **2020**, 7, 035018	6

896	MnO nanozyme-driven polymerization and decomposition mechanisms of 17β-estradiol: Influence of humic acid. **2020**, 393, 122393	15
895	Modified TiC nanosheets as peroxidase mimetics for use in colorimetric detection and immunoassays. **2020**, 8, 2650-2659	10
894	Single Iron Site Nanozyme for Ultrasensitive Glucose Detection. **2020**, 16, e2002343	40
893	Enhanced oxidase-like activity of Ag@Ag2WO4 nanorods for colorimetric detection of Hg2+. **2020**, 603, 125203	7
892	Oxidized Activated Charcoal Nanoparticles as Catalytic Superoxide Dismutase Mimetics: Evidence for Direct Participation of an Intrinsic Radical. **2020**, 3, 6962-6971	7
891	Electrocatalysis as the Nexus for Sustainable Renewable Energy: The Gordian Knot of Activity, Stability, and Selectivity. **2020**, 59, 15298-15312	62
890	Simple and label-free strategy for terminal transferase assay using a personal glucose meter. **2020**, 56, 8912-8915	4
889	Cleaving DNA by nanozymes. **2020**, 8, 7135-7142	18
888	Colorimetric determination of Hg based on the mercury-stimulated oxidase mimetic activity of AgPO microcubes. **2020**, 187, 422	4
887	Wonton-like nanoparticles with dual enzyme-mimetic function for the multiple-imaging-guided cancer combined therapy. **2020**, 401, 126054	5
886	Revealing Kinetics of Two-Electron Oxygen Reduction Reaction at Single-Molecule Level. **2020**, 142, 13201-13209	109
885	Rational Design of Hierarchical CoO/NiO Nanosheets on Conductive Polypyrrole Nanotubes for Peroxidase Mimicking and Sensing Application. **2020**, 8, 11069-11078	18
884	Nanozymes used for antimicrobials and their applications. **2020**, 195, 111252	16
883	A mesoporous encapsulated nanozyme for decontaminating two kinds of wastewater and avoiding secondary pollution. **2020**, 12, 14465-14471	13
882	Continuous phase regulation of MoSe from 2H to 1T for the optimization of peroxidase-like catalysis. **2020**, 8, 6451-6458	9
881	Graphdiyne-templated palladium-nanoparticle assembly as a robust oxygen generator to attenuate tumor hypoxia. **2020**, 34, 100907	38
880	One-pot cascade catalysis at neutral pH driven by CuO tandem nanozyme for ascorbic acid and alkaline phosphatase detection. **2020**, 321, 128511	17
879	Elektrokatalyse als Nexus für nachhaltige erneuerbare Energien – der gordische Knoten aus Aktivität, Stabilität und Selektivität. **2020**, 132, 15410-15426	5

878	A novel selective and sensitive multinanozyme colorimetric method for glutathione detection by using an indamine polymer. **2020**, 1127, 1-8	9
877	Targeting non-apoptotic cell death in cancer treatment by nanomaterials: Recent advances and future outlook. **2020**, 29, 102243	14
876	High-performance dual-channel ratiometric colorimetric sensing of phosphate ion based on target-induced differential oxidase-like activity changes of Ce-Zr bimetal-organic frameworks. **2020** , 321, 128546	25
875	Two-dimensional FeP@C nanosheets as a robust oxidase mimic for fluorescence detection of cysteine and Cu. **2020**, 8, 7494-7500	8
874	CoMoO nanobelts as efficient peroxidase mimics for the colorimetric determination of HO. **2020**, 187, 424	13
873	Immunomodulation-Enhanced Nanozyme-Based Tumor Catalytic Therapy. **2020**, 32, e2003563	91
872	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. **2020**, 1126, 106-113	31
871	Hybrid cellulose nanocrystal/magnetite glucose biosensors. **2020**, 247, 116704	20
870	Fungal Nanophase Particles Catalyze Iron Transformation for Oxidative Stress Removal and Iron Acquisition. **2020**, 30, 2943-2950.e4	16
869	An Ultrasmall RuO Nanozyme Exhibiting Multienzyme-like Activity for the Prevention of Acute Kidney Injury. **2020**, 12, 31205-31216	24
868	Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. **2020**, 233, 118195	6
867	Specific "Unlocking" of a Nanozyme-Based Butterfly Effect To Break the Evolutionary Fitness of Chaotic Tumors. **2020**, 59, 9491-9497	55
866	Electrochemical biosensor based on gold nanoflowers-encapsulated magnetic metal-organic framework nanozymes for drug evaluation with in-situ monitoring of H2O2 released from H9C2 cardiac cells. **2020**, 311, 127909	31
865	Bioinspired Construction of a Nanozyme-Based HO Homeostasis Disruptor for Intensive Chemodynamic Therapy. **2020**, 142, 5177-5183	195
864	The use of biogenic nanoparticles of ferrihydrite in the propagation of horticultural crops by cutting. **2020**, 421, 062014	1
863	2D hematene, a bioresorbable electrocatalytic support for glucose oxidation. **2020**, 7, 025044	2
862	Nanozymes-based biosensors for food quality and safety. **2020**, 126, 115841	39
861	Nanozyme-Augmented Tumor Catalytic Therapy by Self-Supplied HO Generation.. **2020**, 3, 1769-1778	8

860	An electrochemical aptasensor for lead ion detection based on catalytic hairpin assembly and porous carbon supported platinum as signal amplification. **2020**, 10, 6647-6653	10
859	Virus-Like FeO@BiS Nanozymes with Resistance-Free Apoptotic Hyperthermia-Augmented Nanozymitic Activity for Enhanced Synergetic Cancer Therapy. **2020**, 12, 11320-11328	35
858	VO Nanobelts Mimick Tandem Enzymes To Achieve Nonenzymatic Online Monitoring of Glucose in Living Rat Brain. **2020**, 92, 4583-4591	22
857	Zero-Dimensional/Two-Dimensional AuPd Nanocomposites with Enhanced Nanozyme Catalysis for Sensitive Glucose Detection. **2020**, 12, 11616-11624	40
856	Colloidal-sized zirconium porphyrin metal-organic frameworks with improved peroxidase-mimicking catalytic activity, stability and dispersity. **2020**, 145, 3002-3008	8
855	Effects of crystal structure on the activity of MnO2 nanorods oxidase mimics. **2020**, 13, 709-718	10
854	Specific Unlocking of a Nanozyme-Based Butterfly Effect To Break the Evolutionary Fitness of Chaotic Tumors. **2020**, 132, 9578-9584	12
853	Boosting the Peroxidase-like Activity of Cobalt Ions by Amino Acid-based Biological Species and Its Applications. **2020**, 15, 1067-1073	2
852	Ultrasmall CuS-BSA-Cu(PO) nanozyme for highly efficient colorimetric sensing of HO and glucose in contact lens care solutions and human serum. **2020**, 1109, 78-89	21
851	Application of carbon nanomaterials in plant biotechnology. **2020**, 30, 340-345	10
850	Immobilized Glucose Oxidase on Boronic Acid-Functionalized Hierarchically Porous MOF as an Integrated Nanozyme for One-Step Glucose Detection. **2020**, 8, 4481-4488	46
849	A Porous Tantalum-Based Metal Organic Framework (T MOF) as a Novel and Highly Efficient Peroxidase Mimic for Colorimetric Evaluation of the Antioxidant Capacity. **2020**, 150, 2167-2179	10
848	MoS2/MWCNTs porous nanohybrid network with oxidase-like characteristic as electrochemical nanozyme sensor coupled with machine learning for intelligent analysis of carbendazim. **2020**, 862, 113940	32
847	Biochars and their magnetic derivatives as enzyme-like catalysts mimicking peroxidases. **2020**, 2, 121-134	5
846	Advancement of capture immunoassay for real-time monitoring of hepatitis E virus-infected monkey. **2020**, 1110, 64-71	12
845	Oxidase-Inspired Selective 2e/4e Reduction of Oxygen on Electron-Deficient Cu. **2020**, 12, 4833-4842	16
844	Highly sensitive chemiluminescent sensing of intracellular Al based on the phosphatase mimetic activity of cerium oxide nanoparticles. **2020**, 152, 112027	20
843	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. **2020**, 92, 3373-3379	81

842	Biogenic synthesis of AuPd nanocluster as a peroxidase mimic and its application for colorimetric assay of acid phosphatase. **2020**, 589, 124444	14
841	Highly Selective Fluorescent Sensing of Phosphite through Recovery of Poisoned Nickel Oxide Nanozyme. **2020**, 92, 3118-3124	24
840	Construction of high sensitivity non-enzymatic glucose sensor based on three-dimensiona nickel foam supported Ni2P/NiO/CeO2 nanoflake arrays. **2020**, 733, 012019	0
839	Nanomaterials for Angiogenesis in Skin Tissue Engineering. **2020**, 26, 203-216	23
838	Emerging functional materials based on chemically designed molecular recognition. **2020**, 2,	40
837	Nanobiomaterial Engineering. **2020**,	19
836	Hydrogel-based artificial enzyme for combating bacteria and accelerating wound healing. **2020**, 13, 496-502	27
835	Colorimetric acid phosphatase sensor based on MoO nanozyme. **2020**, 1105, 162-168	33
834	Nanozymes for medical biotechnology and its potential applications in biosensing and nanotherapeutics. **2020**, 42, 357-373	18
833	Light-activated nanozymes: catalytic mechanisms and applications. **2020**, 12, 2914-2923	51
832	Nanozymes: created by learning from nature. **2020**, 63, 1183-1200	58
831	Multi-triggered and enzyme-mimicking graphene oxide/polyvinyl alcohol/G-quartet supramolecular hydrogels. **2020**, 12, 5186-5195	13
830	Selective aerobic oxidation of cyclic ethers to lactones over Au/CeO without any additives. **2020**, 56, 2638-2641	4
829	Crossover between anti- and pro-oxidant activities of different manganese oxide nanoparticles and their biological implications. **2020**, 8, 1191-1201	18
828	Nanozymology. **2020**,	11
827	An Enzyme-Mimicking Single-Atom Catalyst as an Efficient Multiple Reactive Oxygen and Nitrogen Species Scavenger for Sepsis Management. **2020**, 59, 5108-5115	82
826	Frontiers in electrochemical enzyme based biosensors for food and drug analysis. **2020**, 124, 115809	41
825	Hemin@carbon dot hybrid nanozymes with peroxidase mimicking properties For dual (colorimetric and fluorometric) sensing of hydrogen peroxide, glucose and xanthine. **2020**, 187, 132	19

824	Dendritic silica with carbon dots and gold nanoclusters for dual nanozymes. **2020**, 44, 1988-1992	14
823	Luminescence-Sensing Tb-MOF Nanozyme for the Detection and Degradation of Estrogen Endocrine Disruptors. **2020**, 12, 8351-8358	36
822	An Enzyme-Mimicking Single-Atom Catalyst as an Efficient Multiple Reactive Oxygen and Nitrogen Species Scavenger for Sepsis Management. **2020**, 132, 5146-5153	12
821	Using a Heme-Based Nanozyme as Bifunctional Redox Mediator for Li□2 Batteries. **2020**, 3, 336-340	7
820	Expanded mesoporous silica-encapsulated ultrasmall Pt nanoclusters as artificial enzymes for tracking hydrogen peroxide secretion from live cells. **2020**, 1104, 180-187	7
819	BiO Nanosheets as Radiosensitizers with Catalase-Like Activity for Hypoxia Alleviation and Enhancement of the Radiotherapy of Tumors. **2020**, 59, 3482-3493	30
818	Nanozyme-Modified Metal-Organic Frameworks with Multienzymes Activity as Biomimetic Catalysts and Electrocatalytic Interfaces. **2020**, 12, 17185-17192	45
817	FeO Nanoparticles Attenuated Infection in Chicken Liver Through Reactive Oxygen and Autophagy via PI3K/Akt/mTOR Signaling. **2019**, 10, 1580	15
816	Iridium/ruthenium nanozyme reactors with cascade catalytic ability for synergistic oxidation therapy and starvation therapy in the treatment of breast cancer. **2020**, 238, 119848	48
815	Selenium-doped two-photon fluorescent carbon nanodots for in-situ free radical scavenging in mitochondria. **2020**, 567, 402-409	7
814	Dual emission carbon dots as enzyme mimics and fluorescent probes for the determination of o-phenylenediamine and hydrogen peroxide. **2020**, 187, 292	14
813	In situ formation and immobilization of gold nanoparticles on polydimethylsiloxane (PDMS) exhibiting catalase-mimetic activity. **2020**, 56, 6416-6419	5
812	Recent Progress of Nanozymes in the Detection of Pathogenic Microorganisms. **2020**, 21, 2572-2584	3
811	Polyethylenimine-stabilized silver nanoclusters act as an oxidoreductase mimic for colorimetric determination of chromium(VI). **2020**, 187, 263	19
810	Enzyme Mimic Nanomaterials and Their Biomedical Applications. **2020**, 21, 2408-2418	14
809	Self-limited Phosphatase-mimicking CeO2 Nanozymes. **2020**, 6, 947-952	20
808	Halogen-containing semiconductors: From artificial photosynthesis to unconventional computing. **2020**, 415, 213316	9
807	Iron oxide magnetic nanoparticles exhibiting zymolyase-like lytic activity. **2020**, 394, 125000	6

806	Biomimetic graphene oxide-cationic multi-shaped gold nanoparticle-hemin hybrid nanozyme: Tuning enhanced catalytic activity for the rapid colorimetric apta-biosensing of amphetamine-type stimulants. **2020**, 216, 120990	13
805	Gold alloy-based nanozyme sensor arrays for biothiol detection. **2020**, 145, 3916-3921	16
804	Enzyme-Like Properties of Gold Clusters for Biomedical Application. **2020**, 8, 219	18
803	Glucose oxidase-like activity of cerium oxide nanoparticles: use for personal glucose meter-based label-free target DNA detection. **2020**, 10, 4507-4514	12
802	Size Effect in Pd-Ir Core-Shell Nanoparticles as Nanozymes. **2020**, 21, 2440-2444	17
801	Metal-Free Colorimetric Detection of Pyrophosphate Ions by Inhibitive Nanozymatic Carbon Dots. **2020**, 5, 1314-1324	22
800	Advancing Modern Healthcare With Nanotechnology, Nanobiosensors, and Internet of Nano Things: Taxonomies, Applications, Architecture, and Challenges. **2020**, 8, 65230-65266	43
799	Minimal metallo-nanozymes constructed through amino acid coordinated self-assembly for hydrolase-like catalysis. **2020**, 394, 124987	17
798	Light-responsive nanozymes for biosensing. **2020**, 145, 4388-4397	25
797	Cyclodextrin-Modified CeO Nanoparticles as a Multifunctional Nanozyme for Combinational Therapy of Psoriasis. **2020**, 15, 2515-2527	10
796	Photo-responsive oxidase mimic of conjugated microporous polymer for constructing a pH-sensitive fluorescent sensor for bio-enzyme sensing. **2020**, 316, 128157	11
795	Point-of-care assay for drunken driving with Pd@Pt core-shell nanoparticles-decorated ploy(vinyl alcohol) aerogel assisted by portable pressure meter. **2020**, 10, 5064-5073	8
794	Rosette-shaped graphitic carbon nitride acts as a peroxidase mimic in a wide pH range for fluorescence-based determination of glucose with glucose oxidase. **2020**, 187, 286	14
793	Nanoparticle application and abiotic-stress tolerance in plants. **2020**, 627-641	1
792	A colloid approach to decorate latex particles with Prussian blue nanozymes. **2020**, 309, 113066	13
791	Substituent Effects on Electronic Structures and Peroxidase-Mimicking Activities of Graphyne and Palladium-Doped Graphyne: A Computational Study. **2020**, 124, 9917-9923	4
790	Haloperoxidase Mimicry by CeO2 Nanorods of Different Aspect Ratios for Antibacterial Performance. **2020**, 8, 6744-6752	21
789	Chemical reactivity under nanoconfinement. **2020**, 15, 256-271	178

788	An ultrasensitive label-free colorimetric biosensor for the detection of glucose based on glucose oxidase-like activity of nanolayered manganese-calcium oxide. **2020**, 1110, 98-108	23
787	Stable and Reusable Light-Responsive Reduced Covalent Organic Framework (COF-300-AR) as a Oxidase-Mimicking Catalyst for GSH Detection in Cell Lysate. **2020**, 12, 20414-20422	34
786	Efficient elimination and detection of phenolic compounds in juice using laccase mimicking nanozymes. **2021**, 29, 167-175	15
785	Advances in nanomaterials for treatment of hypoxic tumor. **2021**, 8, nwaa160	16
784	A review on metal nanozyme-based sensing of heavy metal ions: Challenges and future perspectives. **2021**, 401, 123397	56
783	Synthesis of CeO hollow microspheres with oxidase-like activity and their application in the catalytic degradation of p-nitrophenol. **2021**, 42, 134-140	1
782	Recent advances in the development of colorimetric analysis and testing based on aggregation-induced nanozymes. **2021**, 32, 25-32	5
781	Design of nanozymes for inflammatory bowel disease therapy. **2021**, 64, 1368-1371	1
780	Adaptive iron-based magnetic nanomaterials of high performance for biomedical applications. **2022**, 15, 1	6
779	Core-Shell Nanozymes "Artificial Peroxidase": Stability with Superior Catalytic Properties. **2021**, 12, 5547-5551	4
778	Glucose-oxidase like catalytic mechanism of noble metal nanozymes. **2021**, 12, 3375	37
777	Nanozyme-mediated elemental biogeochemical cycling and environmental effects. **2021**, 64, 1015-1025	6
776	Catalase-like quantum dots of l-lysine polymerization as free radical scavengers for hypoxic brain injury. **2021**, 27, 102286	2
775	Mn3O4 Nanozyme for Inflammatory Bowel Disease Therapy. **2021**, 4, 2100081	5
774	Nanozymes Inspired by Natural Enzymes. **2021**, 2, 534-547	68
773	Recent Progress in Nanotechnology for COVID-19 Prevention, Diagnostics and Treatment. **2021**, 11,	10
772	Defect-Engineered Nanozyme-Linked Receptors. **2021**, 17, e2101907	11
771	On the Metal-Aided Catalytic Mechanism for Phosphodiester Bond Cleavage Performed by Nanozymes. **2021**, 11, 8736-8748	5

770	Proton-Regulated Catalytic Activity of Nanozymes for Dual-Modal Bioassay of Urease Activity. **2021**, 93, 9897-9903	6
769	Biocatalytic Nanomaterials: A New Pathway for Bacterial Disinfection. **2021**, 33, e2100637	34
768	Hydrogen peroxide-generating nanomedicine for enhanced chemodynamic therapy. **2021**, 32, 2127-2138	13
767	Atomically Dispersed Co to an End-Adsorbing Molecule for Excellent Biomimetically and Prime Sensitively Detecting O Released from Living Cells. **2021**, 93, 10789-10797	2
766	A Novel Luminescent "Nanochip" as a Tandem Catalytic System for Chemiluminescent Detection of Sweat Glucose. **2021**, 93, 10593-10600	8
765	Hollow porous N-doped carbon-based Co4N with peroxidase-like activity for detection of H2O2 under non-physiologic conditions. **2021**, 166, 106206	2
764	Fe-MOGs-based enzyme mimetic and its mediated electrochemiluminescence for in situ detection of HO released from Hela cells. **2021**, 184, 113216	11
763	Bimetallic Metal-Organic Frameworks: Enhanced Peroxidase-like Activities for the Self-Activated Cascade Reaction. **2021**, 13, 36106-36116	5
762	Highly sensitive oxidation of MBTH/DMAB by MnFe2O4 nanoparticles as a promising method for nanozyme-based sensor development. **2021**, 621, 126585	2
761	The Application of Nanoenzymes in Biology Detection. **2021**, 804, 042018	
760	Polymer-templated supramolecular co-assemblies of proteins and metal oxide clusters as versatile platform for chemo-enzymatic catalysis. **2021**, 594, 874-881	1
759	Multi-function PtCo nanozymes/CdS nanocrystals@graphene oxide luminophores and KSO/HO coreactants-based dual amplified electrochemiluminescence immunosensor for ultrasensitive detection of anti-myeloperoxidase antibody. **2021**, 19, 225	1
758	Construction of Metal Hydrate-Based Amorphous Magnetic Nanosheets for Enhanced Protein Enrichment and Immobilization. **2021**, 13, 37915-37923	1
757	CoS2/MoS2 Nanosheets with Enzymatic and Photocatalytic Properties for Bacterial Sterilization. **2021**, 4, 7698-7711	7
756	To Love and to Kill: Accurate and Selective Colorimetry for Both Chloride and Mercury Ions Regulated by Electro-Synthesized Oxidase-like SnTe Nanobelts. **2021**, 93, 10132-10140	6
755	One-pot synthesis of AuAgPd trimetallic nanoparticles with peroxidase-like activity for colorimetric assays. **2021**, 413, 5383-5393	2
754	Titania nanotube array supported nanoceria with redox cycling stability ameliorates oxidative stress-inhibited osteogenesis. **2021**, 415, 128913	4
753	Photodynamic therapy for hypoxic tumors: Advances and perspectives. **2021**, 438, 213888	36

752	Natural Nanominerals Show Enzyme-Like Activities. **2021**, 2021, 1-12	0
751	Designing biopolymer-based artificial peroxidase for oxidative removal of dibenzothiophene from a model diesel fuel. **2021**, 183, 1784-1793	2
750	Sensitive glutathione S-transferase assay based on Fe-doped hollow carbon nanospheres with oxidase-like activity. **2021**, 338, 129777	3
749	Enhanced Artificial Enzyme Activities on the Reconstructed Sawtoothlike Nanofacets of Pure and Pr-Doped Ceria Nanocubes. **2021**, 13, 38061-38073	0
748	Nanozyme for tumor therapy: Surface modification matters. **2021**, 1, 75-89	72
747	A stable nanosilver decorated phosphorene nanozyme with phosphorus-doped porous carbon microsphere for intelligent sensing of 8-hydroxy-2?-deoxyguanosine. **2021**, 895, 115522	3
746	Tailoring metal-organic frameworks-based nanozymes for bacterial theranostics. **2021**, 275, 120951	8
745	Pd Nanoclusters Confined in ZIF-8 Matrixes for Fluorescent Detection of Glucose and Cholesterol. **2021**, 4, 9132-9142	4
744	Polyoxometalate Nanostructures Decorated with CuO Nanoparticles for Sensing Ascorbic Acid and Fe2+ Ions. **2021**, 4, 8302-8313	12
743	Enhanced oxidase-like activity of g-C3N4 nanosheets supported Pd nanosheets for ratiometric fluorescence detection of acetylcholinesterase activity and its inhibitor. **2021**,	2
742	Biomimetic electrochemical sensors: New horizons and challenges in biosensing applications. **2021**, 185, 113242	28
741	Single site catalyst with enzyme-mimic micro-environment for electroreduction of CO2. 1	5
740	Solid-State Fabrication of Cu2O/CuO Hydroxide Nanoelectrode Array onto Graphene Paper by Thermal Dewetting for High-Sensitive Detection of Glucose. **2021**, 218, 2100389	1
739	Ratiometric Colorimetric Detection of Nitrite Realized by Stringing Nanozyme Catalysis and Diazotization Together. **2021**, 11,	2
738	Metallic oxide nanomaterials act as antioxidant nanozymes in higher plants: Trends, meta-analysis, and prospect. **2021**, 780, 146578	12
737	Catalytic amplification based on hierarchical heterogeneity bimetal-organic nanostructures with peroxidase-like activity. **2021**, 1173, 338713	4
736	An overview of the use of nanozymes in antibacterial applications. **2021**, 418, 129431	41
735	Green synthesis of Au@WSe2 hybrid nanostructures with the enhanced peroxidase-like activity for sensitive colorimetric detection of glucose. 1	7

734	Boron doped graphdiyne: A metal-free peroxidase mimetic nanozyme for antibacterial application. 1	18
733	UV-Light-Driven Enhancement of Peroxidase-Like Activity of Mg-Aminoclay-Based Fe3O4/TiO2 Hybrids for Colorimetric Detection of Phenolic Compounds. **2021**, 9, 219	1
732	Nano-structured materials for the electrochemiluminescence signal enhancement. **2021**, 388, 138586	6
731	Selenium-core nanozymes dynamically regulates A& neuroinflammation circulation: Augmenting repair of nervous damage. **2021**, 418, 129345	8
730	A fluorescent and colorimetric dual-channel sensor based on acid phosphatase-triggered blocking of internal filtration effect. **2021**, 188, 282	3
729	ROS-Catalytic Transition-Metal-Based Enzymatic Nanoagents for Tumor and Bacterial Eradication. 2107530	16
728	Mechanical Bond Approach to Introducing Self-Adaptive Active Sites in Covalent Organic Frameworks for Zinc-Catalyzed Organophosphorus Degradation. **2021**, 7, 1698-1706	1
727	Osmium-Tellurium Nanozymes for Pentamodal Combinatorial Cancer Therapy. **2021**, 13, 44124-44135	3
726	Smart Nanozyme Platform with Activity-Correlated Ratiometric Molecular Imaging for Predicting Therapeutic Effects.	2
725	Development of enzyme-free immunosensor based on nanobrush and fluorescence dye for sensitive detection of procalcitonin. **2021**, 193, 109548	1
724	Synergistic desulfurization over graphitic N and enzyme-like Fe-N sites of Fe-N-C. **2021**, 430, 132657	2
723	Metal Nanozymes: New Horizons in Cellular Homeostasis Regulation. **2021**, 11, 9019	2
722	Development of non-enzymatic and photothermal immuno-sensing assay for detecting the enrofloxacin in animal derived food by utilizing black phosphorus-platinum two-dimensional nanomaterials. **2021**, 357, 129766	5
721	The Fabrication of Amino Acid Incorporated Nanoflowers with Intrinsic Peroxidase-like Activity and Its Application for Efficiently Determining Glutathione with TMB Radical Cation as Indicator. **2021**, 12,	0
720	Prussian Blue Nanozymes Prevent Anthracycline-Induced Liver Injury by Attenuating Oxidative Stress and Regulating Inflammation. **2021**, 13, 42382-42395	4
719	Facile in situ microwave synthesis of FeO@MIL-100(Fe) exhibiting enhanced dual enzyme mimetic activities for colorimetric glutathione sensing. **2021**, 1179, 338825	8
718	Polydopamine molecularly imprinted polymer coated on a biomimetic iron-based metal-organic framework for highly selective fluorescence detection of metronidazole. **2021**, 232, 122411	14
717	Enzyme Mimics for Engineered Biomimetic Cascade Nanoreactors: Mechanism, Applications, and Prospects. 2106139	20

716	Fullerene-Based Mimics of Biocatalysts Show Remarkable Activity and Modularity. **2021**, 13, 45854-45863	1
715	Synthesis of Finely Controllable Sizes of Au Nanoparticles on a Silica Template and Their Nanozyme Properties. **2021**, 22,	1
714	A dual-quenched ECL immunosensor for ultrasensitive detection of retinol binding protein 4 based on luminol@AuPt/ZIF-67 and MnO@CNTs. **2021**, 19, 272	0
713	Porous CoO nanodisks as robust peroxidase mimetics in an ultrasensitive colorimetric sensor for the rapid detection of multiple heavy metal residues in environmental water samples. **2021**, 417, 125994	14
712	Progress in the Application of Carbon Dots-Based Nanozymes. **2021**, 9, 748044	4
711	Bio-inspired Nanoenzyme Synthesis and Its Application in A Portable Immunoassay for Food Allergy Proteins. **2021**,	8
710	Spontaneous Deposition of Uniformly Distributed Ruthenium Nanoparticles on Graphitic Carbon Nitride for Quantifying Electrochemically Accumulated H2O2.	1
709	Smart Nanozyme Platform with Activity-Correlated Ratiometric Molecular Imaging for Predicting Therapeutic Effects. **2021**, 60, 26142-26150	15
708	A Titanium Nitride Nanozyme for pH-Responsive and Irradiation-Enhanced Cascade-Catalytic Tumor Therapy. **2021**, 133, 25532	0
707	Mutual-reinforcing sonodynamic therapy against Rheumatoid Arthritis based on sparfloxacin sonosensitizer doped concave-cubic rhodium nanozyme. **2021**, 276, 121063	8
706	Reversible capturing and voltammetric determination of circulating tumor cells using two-dimensional nanozyme based on PdMo decorated with gold nanoparticles and aptamer. **2021**, 188, 319	2
705	Nanozymes in Point-of-Care Diagnosis: An Emerging Futuristic Approach for Biosensing. **2021**, 13, 193	16
704	Morphology-Dependent Peroxidase Mimicking Enzyme Activity of Copper Metal-Organic Polyhedra Assemblies. **2021**, 27, 15730-15736	0
703	Pt and ZnFe2O4 Nanoparticles Immobilized on Carbon for the Detection of Glutathione. **2021**, 4, 9479-9488	1
702	Fe3+-Doped Aminated Lignin as Peroxidase-Mimicking Nanozymes for Rapid and Durable Colorimetric Detection of H2O2. **2021**, 9, 12833-12843	1
701	Ultrasound-activated Au/ZnO-based Trojan nanogenerators for combined targeted electro-stimulation and enhanced catalytic therapy of tumor. **2021**, 87, 106208	18
700	Enhanced peroxidase-like activity of copper phosphate modified by hydrophilic phytic-acid and its application in colorimetric detection of hydrogen peroxide. **2021**, 168, 106489	4
699	Fe-N-C Single-Atom Catalyst Coupling with Pt Clusters Boosts Peroxidase-like Activity for Cascade-Amplified Colorimetric Immunoassay. **2021**, 93, 12353-12359	7

698	Protein-Assisted Osmium Nanoclusters with Intrinsic Peroxidase-like Activity and Extrinsic Antifouling Behavior. **2021**, 13, 44541-44548	3
697	Self-assembled manganese phthalocyanine nanoparticles with enhanced peroxidase-like activity for anti-tumor therapy. 1	6
696	MOFs supported nanonetworks hybrid flower-like catalysts via supramolecular-mediated cascade self-assembly for sensitive sensing of H2O2. **2021**, 342, 130076	4
695	Detection of pesticides using nanozymes: trends, challenges and outlook. **2021**, 116429	10
694	Colorimetric Detection of Hydrogen Peroxide and Glutathione Based on Peroxidase Mimetic Activity of Fe3O4-sodium Lignosulfonate Nanoparticles. **2021**, 49, e21160-e21169	3
693	Production of carbon dots by pulsed laser ablation: Precursors and photo-oxidase properties.	
692	A Titanium Nitride Nanozyme for pH-Responsive and Irradiation-Enhanced Cascade-Catalytic Tumor Therapy. **2021**, 60, 25328-25338	21
691	Colorimetric Determination of Mercury(II) by Secondary Gold Nanoparticles Formation on Primary Gold Nanoparticles as an Efficient Nanozyme. **2021**, 210, 115506	1
690	Template-engaged redox etching strategy synthesis of □MnO2 hollow architectures toward colorimetric glutathione sensing. **2021**, 563, 150319	0
689	Functionalized gold nanomaterials as biomimetic nanozymes and biosensing actuators. **2021**, 143, 116376	11
688	Target-induced synergetic modulation of electrochemical tag concentration and electrode surface passivation for one-step sampling filtration-free detection of acid phosphatase activity. **2021**, 233, 122500	1
687	NIR enhanced peroxidase-like activity of Au@CeO2 hybrid nanozyme by plasmon-induced hot electrons and photothermal effect for bacteria killing. **2021**, 295, 120317	24
686	Nanozymes: A clear definition with fuzzy edges. **2021**, 40, 101269	97
685	Three-dimensional MoS nanoflowers supported Prussian blue and Au nanoparticles: A peroxidase-mimicking catalyst for the colorimetric detection of hydrogen peroxide and glucose. **2021**, 259, 119886	4
684	The effects of nanographene oxide on the morpho-biochemical traits and antioxidant activity of Lepidium sativum L. under in vitro salinity stress. **2021**, 288, 110301	4
683	Realizing selective detection with nanozymes: Strategies and trends. **2021**, 143, 116379	13
682	New challenges in point of care electrochemical detection of clinical biomarkers. **2021**, 345, 130349	9
681	CuO nanorods with excellent regenerable NADH peroxidase mimics and its application for selective and sensitive fluorimetric ethanol sensing. **2021**, 1186, 339126	8

680	Acetaminophen sensor based on the oxidase-like activity and interference self-elimination ability of chondroitin sulfate-modified platinum nanozyme. **2021**, 347, 130627	3
679	Porous polymers from octa(amino-phenyl)silsesquioxane and metalloporphyrin as peroxidase-mimicking enzyme for malathion colorimetric sensor. **2021**, 207, 112010	2
678	Establishment of anti-oxidation platform based on few-layer molybdenum disulfide nanosheet-coated titanium dioxide nanobelt nanocomposite. **2021**, 601, 167-176	8
677	Influence of the iodine content of nitrogen- and iodine-doped carbon dots as a peroxidase mimetic nanozyme exhibiting antifungal activity against C. albicans. **2021**, 175, 108139	6
676	Colorimetric detection of human alpha-2-macroglobulin by janus imprinted nanoparticles constructed dual molecular imprinting immunosandwich strategy. **2021**, 1184, 339039	1
675	Constructing biocompatible MSN@Ce@PEG nanoplatform for enhancing regenerative capability of stem cell via ROS-scavenging in periodontitis. **2021**, 423, 130207	4
674	Vanadium/cobalt oxides□nchored flexible carbon nanofibers with tunable magnetism as recoverable peroxidase-like catalysts. **2021**, 22, 100568	2
673	Insights into enzymatic mimicking activity of silver nanoprisms: spectral monitoring and analysis. **2021**, 262, 120083	
672	Porous Au@Pt nanoparticles with superior peroxidase-like activity for colorimetric detection of spike protein of SARS-CoV-2. **2021**, 604, 113-121	5
671	Experiment and theoretical insights into CuNi/CoMoO4 multi-functional catalyst with laccase-like: Catalysis mechanism, smartphone biosensing and organic pollutant efficient degradation. **2021**, 425, 130586	6
670	Cofactor-free organic nanozyme with assembly-induced catalysis and light-regulated activity. **2021**, 426, 130855	1
669	Cationic chitosan@Ruthenium dioxide hybrid nanozymes for photothermal therapy enhancing ROS-mediated eradicating multidrug resistant bacterial infection. **2021**, 603, 615-632	14
668	Water-soluble PANI:PSS designed for spontaneous non-disruptive membrane penetration and direct intracellular photothermal damage on bacteria. **2021**, 6, 4758-4771	9
667	An interrelated CataFlower enzyme system for sensitively monitoring sweat glucose. **2021**, 235, 122799	2
666	Nanozymes: Activity origin, catalytic mechanism, and biological application. **2021**, 448, 214170	26
665	Advances in metal□rganic framework-based nanozymes and their applications. **2021**, 449, 214216	16
664	Oligonucleotide-mediated the oxidase-mimicking activity of Mn3O4 nanoparticles as a novel colorimetric aptasensor for ultrasensitive and selective detection of Staphylococcus aureus in food. **2021**, 349, 130809	7
663	Cobalt-doped MoS2 nanocomposite with NADH oxidase mimetic activity and its application in colorimetric biosensing of NADH. **2021**, 111, 178-185	10

662	Zr(IV)-based metal-organic framework nanocomposites with enhanced peroxidase-like activity as a colorimetric sensing platform for sensitive detection of hydrogen peroxide and phenol. **2022**, 203, 111818	7
661	Spherical mesoporous Fe-N-C single-atom nanozyme for photothermal and catalytic synergistic antibacterial therapy. **2022**, 606, 826-836	10
660	Simultaneously colorimetric detection and effective removal of mercury ion based on facile preparation of novel and green enzyme mimic. **2022**, 266, 120410	1
659	Reactive oxygen species-based nanomaterials for the treatment of myocardial ischemia reperfusion injuries. **2022**, 7, 47-72	33
658	Microfluidic encapsulated manganese organic frameworks as enzyme mimetics for inflammatory bowel disease treatment. **2022**, 607, 1382-1390	3
657	Colorimetric quantification of sodium benzoate in food by using d-amino acid oxidase and 2D metal organic framework nanosheets mediated cascade enzyme reactions. **2022**, 237, 122906	2
656	Transition metal oxide and chalcogenide-based nanomaterials for antibacterial activities: an overview. **2021**, 13, 6373-6388	8
655	Multifunctional peptide-assembled micelles for simultaneously reducing amyloid-and reactive oxygen species. **2021**, 12, 6449-6457	8
654	Applications of Nanozymes in Wastewater Treatment. **2021**, 95-110	
653	Shining light on transition metal sulfides: New choices as highly efficient antibacterial agents. **2021**, 14, 1-23	15
652	Therapeutic applications of nanozymes and their role in cardiovascular disease. **2021**, 009-018	
651	Catalytic and electrocatalytic activities of Fe3O4/CeO2/C-dot nanocomposite. **2021**, 75, 2371-2378	2
650	Design of hybrid biocatalysts by controlled heteroaggregation of manganese oxide and sulfate latex particles to combat reactive oxygen species. **2021**, 9, 4929-4940	2
649	Transition metal coordination frameworks as artificial nanozymes for dopamine detection via peroxidase-like activity.	0
648	Amino Acids Functionalized Inorganic Metal Nanoparticles: Synthetic Nanozymes for Target Specific Binding, Sensing and Catalytic Applications. **2021**, 1-33	1
647	Green Synthesis of Iron Oxide Nanoparticles and Its Biomedical Applications. **2021**, 83-109	1
646	Mechanism of Toxicity of Engineered Nanomaterials and Defense by the Crop Plants. **2021**, 341-380	0
645	Nanoparticles Catalyzing Enzymatic Reactions: Recent Developments and Future Prospects. **2021**, 51-80	1

644	Nanozyme: a New Strategy Combating Bacterial. **2021**, 36, 257	0
643	Recent advances in the application of noble metal nanoparticles in colorimetric sensors for lead ions. **2021**, 8, 863-889	10
642	Future prospects and concluding remarks for electroanalytical applications of quantum dots. **2021**, 427-450	1
641	Applications of Nanobiotechnology in Overcoming Temperature Stress. **2021**, 417-435	4
640	Synthesis-temperature-regulated multi-enzyme-mimicking activities of ceria nanozymes. **2021**, 9, 7238-7245	7
639	Recent trends in nanozymes design: from materials and structures to environmental applications.	9
638	Ferritin-catalyzed synthesis of ferrihydrite nanoparticles with high mimetic peroxidase activity for biomolecule detection.. **2021**, 11, 26211-26217	0
637	Neutrophil-like Cell-Membrane-Coated Nanozyme Therapy for Ischemic Brain Damage and Long-Term Neurological Functional Recovery. **2021**, 15, 2263-2280	47
636	Smartphone-based colorimetric detection systems for glucose monitoring in the diagnosis and management of diabetes. **2021**, 146, 2784-2806	10
635	Nanozymes: Biomedical Applications of Enzymatic FeO Nanoparticles from In Vitro to In Vivo. **2019**, 1174, 291-312	3
634	Nanozymology: An Overview. **2020**, 3-16	4
633	Molecular Detection Using Nanozymes. **2020**, 395-424	2
632	Nanozyme-Based Tumor Theranostics. **2020**, 425-457	3
631	Nanozymes for Environmental Monitoring and Treatment. **2020**, 527-543	1
630	Types of Nanozymes: Materials and Activities. **2020**, 41-77	4
629	Nanozymes: Preparation and Characterization. **2020**, 79-101	5
628	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetics for Biomedical Application. **2020**, 105-140	22
627	Carbon-based Nanozeymes. **2020**, 171-193	2

626	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. **2020**, 195-278	4
625	A facile colorimetric sensor for ultrasensitive and selective detection of Lead(II) in environmental and biological samples based on intrinsic peroxidase-mimic activity of WS nanosheets. **2020**, 1106, 115-125	28
624	Ferrihydrite nanoparticles insights: Structural characterization, lactate dehydrogenase binding and virtual screening assay. **2020**, 164, 3559-3567	7
623	Enhanced Multiple Enzymelike Activity of PtPdCu Trimetallic Nanostructures for Detection of Fe2+ and Evaluation of Antioxidant Capability. **2021**, 9, 569-579	9
622	Interplay between structural parameters and reactivity of Zr-based MOFs as artificial proteases. **2020**, 11, 6662-6669	17
621	Antioxidant metal oxide nanozymes: role in cellular redox homeostasis and therapeutics. **2021**, 93, 187-205	3
620	A Colorimetric Sensor for Dopamine Detection Based on Peroxidase-like Activity of Ce2(MoO4)3 Nanoplates. **2019**, 15, 224-230	3
619	BIOMIMETIC AND ANTIOXIDANT ACTIVITY OF NANOCRYSTALLINE CERIUM DIOXIDE. **2018**, 14, 196	11
618	The Enzyme-Like Property and Photocatalytic Effect on □□Diphenyl-□Picrylhydrazyl (DPPH) of CuPt Nanocomposite. **2019**, 9, 813	2
617	Single-Atom Nanozymes Linked Immunosorbent Assay for Sensitive Detection of A 1-40: A Biomarker of Alzheimer's Disease. **2020**, 2020, 4724505	21
616	Mechanisms of Action of Nanoparticles in Living Systems. **2018**, 220-236	5
615	Recent Advances in Nanozyme Research for Disease Diagnostics. **2015**, 30, 1-10	3
614	A carbon dot-based Co-nanozyme with alkaline phosphatase - mechanism and application.. **2021**, 11, 33253-33259	0
613	A ratiometric electrochemical biosensor for glycated albumin detection based on enhanced nanozyme catalysis of cuprous oxide-modified reduced graphene oxide nanocomposites. **2021**, 9, 9324-9332	2
612	Iron and nitrogen co-doped graphene quantum dots as highly active peroxidases for the sensitive detection of L-cysteine. **2021**, 45, 19056-19064	0
611	Studying the effect of PDA@CeO nanoparticles with antioxidant activity on the mechanical properties of cells. **2021**, 9, 9204-9212	0
610	Recent antioxidative nanomaterials toward wound dressing and disease treatment via ROS scavenging. **2021**, 17, 100149	2
609	The Application of Nanozymes in the Diagnosis and Treatment of TUMOR: A Review. **2021**, 11,	1

608	Nanozyme-Participated Biosensing of Pesticides and Cholinesterases: A Critical Review. **2021**, 11,	0
607	Hydrogen-Bonded Biohybrid Framework-Derived Highly Specific Nanozymes for Biomarker Sensing. **2021**, 93, 13981-13989	4
606	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. **2021**, 23, 1	0
605	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review.. **2022**, 38, 157-177	2
604	Biocatalytic CsPbX Perovskite Nanocrystals: A Self-Reporting Nanoprobe for Metabolism Analysis. **2021**, 17, e2103255	4
603	Single-atom iron confined within polypyrrole-derived carbon nanotubes with exceptional peroxidase-like activity for total antioxidant capacity. **2022**, 351, 130969	4
602	A Novel Cascade Nanoreactor Integrating Two-Dimensional Pd-Ru Nanozyme, Uricase and Red Blood Cell Membrane for Highly Efficient Hyperuricemia Treatment. **2021**, 17, e2103645	5
601	Unveiling the Actual Catalytic Sites in Nanozyme-Catalyzed Oxidation of o-Phenylenediamine. **2021**, 17, e2104083	6
600	A Functionalized Magnetic Graphene-Based MOFs Platform as the Heterogeneous Mimic Enzyme Sensor for Glucose Detection. 1	0
599	Precise Subcellular Organelle Targeting for Boosting Endogenous-Stimuli-Mediated Tumor Therapy. **2021**, 33, e2101572	6
598	Challenges in Detection of Serum Oncoprotein: Relevance to Breast Cancer Diagnostics. **2021**, 13, 575-593	
597	Recent Progress of Surface Modified Nanomaterials for Scavenging Reactive Oxygen Species in Organism. **2021**, 32, 2269-2289	5
596	Density Functional Theory Mechanistic Insight into the Peroxidase- and Oxidase-like Activities of Nanoceria. **2021**, 125, 23098-23104	6
595	Potentiality of Nanoenzymes for Cancer Treatment and Other Diseases: Current Status and Future Challenges. **2021**, 14,	7
594	Recent trends in nanomaterial-based signal amplification in electrochemical aptasensors. **2021**, 1-19	5
593	Nanozyme Catalytic Turnover and Self-Limited Reactions. **2021**, 15, 15645-15655	16
592	A Functionalized Octahedral Palladium Nanozyme as a Radical Scavenger for Ameliorating Alzheimer's Disease. **2021**, 13, 49602-49613	5
591	Promotion and inhibition of oxidase-like nanoceria and peroxidase-like iron oxide by arsenate and arsenite. **2021**, 134, 108979	1

590	Gold functionalised attapulgite for discrimination of hydrogen peroxide and oxidising ions. **2017**, 11, 200-204	0
589	Amplified visual immunosensor integrated with nanozyme for ultrasensitive detection of avian influenza virus.	
588	Chitozyme: First Peroxidase-like Activity of Chitosan for Multiplexed Visual Detection of H2O2, Glucose and Lactate on Paper-based Device.	
587	A Novel AuNPs-based Glucose Oxidase Mimic with Enhanced Activity and Selectivity Constructed by Molecular Imprinting and O2-Containing Nanoemulsion Embedding.	
586	The Advances of Nanozyme in Brain Disease. **2019**, 139-179	1
585	An Electrochemical Ascorbic Acid Sensor Based on Nanoporous Cu/Au Array Film. **2020**, 10, 54-62	
584	Antioxidant nanozyme counteracts HIV-1 by modulating intracellular redox potential.	
583	Hot-Electron-Activated Peroxidase-Mimicking Activity of Ultrathin Pd Nanozymes. **2020**, 15, 162	4
582	A comprehensive review of impacts of diverse nanoparticles on growth, development and physiological adjustments in plants under changing environment. **2021**, 291, 132672	1
581	Nano/micro-scaled materials based optical biosensing of glucose. **2021**,	3
580	Emerging nanolabels-based immunoassays: principle and applications in food safety. **2021**, 116462	2
579	Nanozymes for Therapeutics. **2020**, 459-488	
578	Role of Catalysis and Catalytic Agents in Drug Stability. **2020**, 95-119	
577	Cascade reaction system integrating nanozymes for colorimetric discrimination of organophosphorus pesticides. **2022**, 350, 130810	1
576	Recent advances on endogenous/exogenous stimuli-triggered nanoplatforms for enhanced chemodynamic therapy. **2022**, 451, 214267	13
575	A novel artificial peroxisome candidate based on nanozyme with excellent catalytic performance for biosensing. **2022**, 196, 113686	4
574	Controllable release ratiometric fluorescent sensor for hyaluronidase via the combination of Cu-Fe-N-C nanozymes and degradable intelligent hydrogel. **2022**, 237, 122961	0
573	Ultrasensitive Pd nano catalyst as peroxidase mimetics for colorimetric sensing and evaluation of antioxidants and total polyphenols in beverages and fruit juices. **2022**, 238, 123000	4

572 Hybrid Nanozyme: More Than One Plus One. **2020**, 367-391 1

571 Temperature-responsive iron nanozymes based on poly(-vinylcaprolactam) with multi-enzyme activity.. **2020**, 10, 39954-39966 1

570 Beyond: Novel Applications of Nanozymes. **2020**, 545-555

569 Peroxidase-Like Activity of Metal Nanoparticles for Biomedical Applications. **2020**, 109-126 1

568 CHAPTER 13:POCT for Nucleic Acids by Using Colorimetric Nanoprobes. **2020**, 279-302

567 nanozyme.

566 Nanozymes in Tumor Theranostics. **2021**, 11, 666017 2

565 Template-Regulated Bimetallic Sulfide Nanozymes with High Specificity and Activity for Visual Colorimetric Detection of Cellular HO. **2021**, 13, 53599-53609 4

564 A Unique Multifunctional Nanoenzyme Tailored for Triggering Tumor Microenvironment Activated NIR-II Photoacoustic Imaging and Chemodynamic/Photothermal Combined Therapy. **2021**, e2102073 5

563 Engineered Nanoenzymes with Multifunctional Properties for Next-Generation Biological and Environmental Applications. 2108650 5

562 Structure Defect Tuning of Metal-Organic Frameworks as a Nanozyme Regulatory Strategy for Selective Online Electrochemical Analysis of Uric Acid. **2021**, 3

561 Nanomaterials as novel agents for amelioration of Parkinson disease. **2021**, 41, 101328 2

560 Emerging Single-Atom Catalysts/Nanozymes for Catalytic Biomedical Applications. **2021**, e2101682 5

559 Nanozymes as Potential Catalysts for Sensing and Analytical Applications. **2020**, 143-162

558 Incorporation of a Biocompatible Nanozyme in Cellular Antioxidant Enzyme Cascade Reverses Huntington Like Disorder in Preclinical Model.

557 Photo-enhanced enzyme-like activities of BiOBr/PtRu hybrid nanostructures. **2020**, 38, 299-314 1

556 Nanoparticles of chosen noble metals as reactive oxygen species scavengers. **2021**, 32, 055704 7

555 Iron and magnetic: new research direction of the ferroptosis-based cancer therapy. **2018**, 8, 1933-1946 29

554	Transparent polycarbonate coated with CeO nanozymes repel PA14 biofilms.. **2021**, 14, 86-98	2
553	Bioadhesive injectable hydrogel with phenolic carbon quantum dot supported Pd single atom nanozymes as a localized immunomodulation niche for cancer catalytic immunotherapy. **2021**, 280, 121272	16
552	The synthesis of a nanodrug using metal-based nanozymes conjugated with ginsenoside Rg3 for pancreatic cancer therapy.	1
551	Investigation on the peroxidase-mimic activity of adenine phosphate and its applications. **2022**, 173, 106992	1
550	Electrochemical immunosensor based on hollow porous Pt skin AgPt alloy/NGR as a dual signal amplification strategy for sensitive detection of Neuron-specific enolase. **2022**, 197, 113779	3
549	FeS nanoparticles embedded in 2D carbon nanosheets as novel nanozymes with peroxidase-like activity for colorimetric and fluorescence assay of H2O2 and antioxidant capacity. **2022**, 353, 131131	3
548	Inorganic Nanozymes: Prospects for Disease Treatments and Detection Applications.. **2021**, 9, 773285	3
547	NiFe2O4/CNTs fabricated by atomic layer deposition as highly stable peroxidase mimics for sensitive colorimetric detection of hydrogen peroxide and glucose. **2021**, 147, 111637	1
546	Polysaccharide-Iron (III) Chelate as Peroxidase Mimics for Total Antioxidant Capacity Assay of Fruit and Vegetable Food. **2021**, 10,	1
545	Highly Enhanced Enzymatic Activity of Mn-Induced Carbon Dots and Their Application as Colorimetric Sensor Probes. **2021**, 11,	2
544	Self-assembled recombinant camel serum albumin nanoparticles-encapsulated hemin with peroxidase-like activity for colorimetric detection of hydrogen peroxide and glucose. **2021**,	4
543	Weak Interaction-Tailored Catalytic Interface of Ultrasmall Gold Nanoclusters as Enzyme Mimics for Enhanced Colorimetric Biosensing. **2021**, 13, 58209-58219	7
542	Enhancing the Catalytic Activity of MOF-808 Towards Peptide Bond Hydrolysis through Synthetic Modulations. **2021**, 27, 17230-17239	1
541	Photoenzymatic Activity of Artificial-Natural Bienzyme Applied in Biodegradation of Methylene Blue and Accelerating Polymerization of Dopamine. **2021**, 13, 56191-56204	2
540	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications - A review. **2021**,	11
539	Defect engineering in nanozymes. **2021**,	12
538	Facile Synthesis of Pd-Ir Nanocubes for Biosensing.. **2021**, 9, 775220	0
537	A Bioinspired Assembly to Simultaneously Heterogenize Polyoxometalates as Nanozymes and Encapsulate Enzymes in a Microstructure Endowing Efficient Peroxidase-Mimicking Activity. **2021**, 9, 15819-15829	1

536	Nanozymes Artificial peroxidase In reduction and detection of organic peroxides. **2021**, 115902	2
535	Emerging Theranostic Nanomaterials in Diabetes and Its Complications. **2021**, e2102466	7
534	Toxicity of manufactured nanomaterials. **2021**,	10
533	Cobalt Sulfide Nanosheets as Peroxidase Mimics for Colorimetric Detection of l-Cysteine.	1
532	Switching On-Off-On Colorimetric Sensor Based on Fe-N/S-C Single-Atom Nanozyme for Ultrasensitive and Multimodal Detection of Hg2+.	
531	A new biomimetic nanozyme of hemin/graphdiyne oxide with superior peroxidase-like activity for colorimetric bioassays. **2021**, 146, 7284-7293	2
530	A GPx-mimetic copper vanadate nanozyme mediates the release of nitric oxide from -nitrosothiols.. **2022**,	2
529	Room-Temperature Harvesting Oxidase-Mimicking Enzymes with Exogenous ROS Generation in One Step.. **2022**,	1
528	Platinum Janus Nanoparticles as Peroxidase Mimics for Catalytic Immunosorbent Assay.	1
527	Dual enzyme-mimic nanozyme based on single-atom construction strategy for photothermal-augmented nanocatalytic therapy in the second near-infrared biowindow.. **2021**, 281, 121325	9
526	Teaching a fluorophore new tricks: Exploiting the light-driven organic oxidase nanozyme properties of thiazolothiazole for highly sensitive biomedical detection. **2022**, 354, 131226	3
525	Integrating the high peroxidase activity of carbon dots with easy recyclability: Immobilization on dialdehyde cellulose nanofibrils and cholesterol detection. **2022**, 26, 101286	1
524	Hierarchical porous MoS particles: excellent multi-enzyme-like activities, mechanism and its sensitive phenol sensing based on inhibition of sulfite oxidase mimics.. **2021**, 425, 128053	5
523	Carbon dots as nanocatalytic medicine for anti-inflammation therapy.. **2021**, 611, 545-553	6
522	A peroxidase-like nanoenzyme based on strontium(II)-ion-exchanged Prussian blue analogue derivative SrCoO/CoO nanospheres and carbon quantum dots for the colorimetric detection of tigecycline in river water.. **2021**, 240, 123112	2
521	Biomimetic iron-imidazole sites into metal organic framework nanoflowers as high-affinity peroxidase mimic for colorimetric biosensing. **2022**, 175, 107064	
520	Ultrasmall Au nanoparticles modified 2D metalloporphyrinic metal-organic framework nanosheets with high peroxidase-like activity for colorimetric detection of organophosphorus pesticides.. **2021**, 376, 131906	4
519	Mode of Action and Signaling of Nanoparticles to Alleviate Abiotic Stress in Crop Plants. **2021**, 171-184	

518	Exploring Nanotechnology to Reduce Stress: Mechanism of Nanomaterial-Mediated Alleviation. **2021**, 93-113	
517	A Core-Shell Cascade of Chloroperoxidase and Gold Nanoclusters for Asymmetric Hydroxylation of Ethylbenzene.	
516	Determination of catechin and glutathione using copper aspartate nanofibers with multiple enzyme-like activities.. **2022**, 189, 61	0
515	Nitrogen-doped carbon dots/Ni-MnFe-layered double hydroxides (N-CDs/Ni-MnFe-LDHs) hybrid nanomaterials as immunoassay label for low-density lipoprotein detection.. **2022**, 189, 72	0
514	Exploration of nanozymes in viral diagnosis and therapy.	13
513	Perspective for Single Atom Nanozymes Based Sensors: Advanced Materials, Sensing Mechanism, Selectivity Regulation, and Applications.. **2022**,	4
512	Co-N/C-900 metal-organic framework-derived nanozyme as a HO-free oxidase mimic for the colorimetric sensing of L-cysteine.. **2022**,	1
511	Colorimetric detection of glucose by a hybrid nanomaterial based on amplified peroxidase-like activity of ferrosoferric oxide modified with gold–platinum heterodimer. **2021**, 46, 239-249	3
510	The recent development of nanozymes for food quality and safety detection.. **2022**,	4
509	Nanobiotechnology in fermented dairy products. **2022**, 347-355	
508	Intercalation-Activated Layered MoO3 Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy.. **2022**,	15
507	Hexavalent Chromium as a Smart Switch for Peroxidase-like Activity Regulation via the Surface Electronic Redistribution of Silver Nanoparticles Anchored on Carbon Spheres.. **2022**,	1
506	Intercalation-Activated Layered MoO3 Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy.	1
505	Bioorthogonal catalytic nanozyme-mediated lysosomal membrane leakage for targeted drug delivery.. **2022**, 12, 1132-1147	5
504	Nanoceria-based lateral flow immunoassay for hydrogen peroxide-free colorimetric biosensing for C-reactive protein.. **2022**, 414, 3257	1
503	Nanozymes with reductase-like activities: antioxidant properties and electrochemical behavior.. **2022**, 12, 2026-2035	0
502	Enzyme immobilized nanomaterials. **2022**, 17-65	
501	Enhancing the peroxidase-like activity of MIL-88B by ligand exchange with polydopamine.. **2022**,	0

500	Light-activated oxidize-mimicking nanozyme for inhibition of pathogenic Escherichia coli.. **2022**,	1
499	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications.. **2022**, 15,	4
498	Single-atom Pd catalysts as oxidase mimics with maximum atom utilization for colorimetric analysis. 1	4
497	Construction of a colorimetric sensor array based on the coupling reaction to identify phenols.. **2022**,	
496	Controllable bisubstrate multi-colorimetric assay based on peroxidase-like nanozyme and complementary colorharmonic principle for semi-quantitative detection of HO with the naked eye.. **2022**, 189, 81	0
495	In Situ Generation of Gold Nanoparticles on Bacteria-Derived Magnetosomes for Imaging-Guided Starving/Chemodynamic/Photothermal Synergistic Therapy against Cancer. 2110063	2
494	Current research progress on laccase-like nanomaterials.	5
493	Bimetallic nanozyme with cascade effect for synergistic therapy of cancer.. **2022**,	2
492	The preparation of Fe-based peroxidase mimetic nanozymes and for the electrochemical detection of histamine. **2022**, 908, 116088	3
491	Gold nanoparticles spontaneously grown on cellulose nanofibrils as a reusable nanozyme for colorimetric detection of cholesterol in human serum.. **2022**, 201, 686-686	3
490	Cyclodextrin-Stabilized Biosynthesis Nanozyme for Dual Enzyme Mimicking and Fenton Reaction with a High Potential Anticancer Agent.. **2022**, 7, 4457-4470	4
489	Peroxidase catalytic activity of carbon nanoparticles for glutathione detection.. **2021**, 12, 595-601	1
488	Detection and Difference Analysis of the Enzyme Activity of Colloidal Gold Nanoparticles With Negatively Charged Surfaces Prepared by Different Reducing Agents.. **2021**, 9, 812083	1
487	Recent developments of iron-based nanosystems as enzyme-mimicking surrogates of interest in tumor microenvironment treatment. **2022**, 237-265	
486	Recent trends in bioremediation of pollutants by enzymatic approaches. **2022**, 115-134	
485	Synthesis of Peroxidase-Like V2O5 Nanoparticles for Dye Removal from Aqueous Solutions. 1	1
484	Recent advances in multifunctional nanomaterials for photothermal-enhanced Fenton-based chemodynamic tumor therapy.. **2022**, 13, 100197	3
483	NIR-II photothermal therapy for effective tumor eradication enhanced by heterogeneous nanorods with dual catalytic activities. 1	2

482	Metal/Metalloid-Based Nanomaterials for Plant Abiotic Stress Tolerance: An Overview of the Mechanisms.. **2022**, 11,	12
481	A novel CuCoS nanozyme for synergistic photothermal and chemodynamic therapy of tumors.	0
480	Transition metal ion-coordinated porous organic polymer to enhance the peroxidase mimic activity for detection of ascorbic acid and dopamine.	1
479	Recent Advances in the Development of Noble Metal NPs for Cancer Therapy.. **2022**, 2022, 2444516	8
478	Chemistry and Nanotechnology-Oriented Strategies toward Nanocellulose for Human Water Treatment. 2100302	2
477	Construction of DNA ligase-mimicking nanozymes molecular imprinting.. **2022**,	
476	Upcycling discarded cellulosic surgical masks into catalytically active freestanding materials.. **2022**, 29, 1-18	0
475	Engineering nanomedicines to inhibit hypoxia-inducible Factor-1 for cancer therapy.. **2022**, 530, 110-110	0
474	Pt deposited on sea urchin-like CuCo2O4 nanowires: Preparation, the excellent peroxidase-like activity and the colorimetric detection of sulfide ions. **2022**, 10, 107228	0
473	Colorimetric assay for the detection of dopamine using bismuth ferrite oxide (BiFeO) nanoparticles as an efficient peroxidase-mimic nanozyme.. **2022**, 613, 384-395	3
472	Controllable doping of Fe atoms into MoS2 nanosheets towards peroxidase-like nanozyme with enhanced catalysis for colorimetric analysis of glucose. **2022**, 583, 152496	3
471	Multienzyme mimetic activities of holey CuPd@H-CN for visual colorimetric and ultrasensitive fluorometric discriminative detection of glutathione and glucose in physiological fluids.. **2022**, 241, 123221	0
470	Superoxide dismutase mimicking nanocomposites based on immobilization of metal complexes on nanotubular carriers. **2022**, 1256, 132492	0
469	A Competitive Assay Based on Dual-Mode Au@Pt-DNA Biosensors for On-Site Sensitive Determination of Carbendazim Fungicide in Agricultural Products.. **2022**, 9, 820150	2
468	Single-atom Nanozymes for Biomedical Applications: Recent Advances and Challenges.. **2022**,	1
467	In-biofilm generation of nitric oxide using a magnetically-targetable cascade-reaction container for eradication of infectious biofilms.. **2022**, 14, 321-334	3
466	Superior Peroxidase-Like activity of Gold Nanorattles in Ultrasensitive H2O2 Sensing and Antioxidant Screening.. **2022**,	1
465	Leveraging multiomics approaches for producing lignocellulose degrading enzymes.. **2022**, 79, 132	0

464	Ultrathin Ruthenium Nanosheets with Crystallinity-Modulated Peroxidase-like Activity for Protein Discrimination.. **2021**,	6
463	Advanced bioactive nanomaterials for biomedical applications. **2021**, 1, 20210089	41
462	Fungal-Mineral Interactions Modulating Intrinsic Peroxidase-like Activity of Iron Nanoparticles: Implications for the Biogeochemical Cycles of Nutrient Elements and Attenuation of Contaminants.. **2021**,	5
461	Biomimetic Cascade Nanoreactor with Triple-Enzyme Mimetic Activities for Colorimetric Detection of Acid Phosphatase.	
460	Biorecognition elements. **2022**, 41-70	1
459	Reversible inhibition of the oxidase-like activity of Fe single-atom nanozymes for drug detection.	2
458	An antioxidant nanodrug protects against hepatic ischemia-reperfusion injury by attenuating oxidative stress and inflammation.. **2022**,	2
457	Recent advances in the applications of nanozymes for the efficient detection/removal of organic pollutants: a review.	2
456	Defect-controlled halogenating properties of lanthanide-doped ceria nanozymes.. **2022**,	1
455	Biomimetics Applied in Electrochemistry. **2022**, 1-35	
454	CoO Nanozymes with Multiple Catalytic Activities Regulate Atopic Dermatitis.. **2022**, 12,	1
453	Nanotechnology: a novel and sustainable approach towards heavy metal stress alleviation in plants. 1	0
452	Fabrication of peroxidase-mimic iron oxide/carbon nanocomposite for highly sensitive colorimetric detection. **2022**, 17, 75-85	
451	Recent advances on nanozyme-based electrochemical biosensors.	1
450	Peroxidase-like Active Nanomedicine with Dual Glutathione Depletion Property to Restore Oxaliplatin Chemosensitivity and Promote Programmed Cell Death.. **2022**,	10
449	An Unprecedented FeMo6@Ce-Uio-66 Nanocomposites with Cascade Enzyme-mimic Activity as Colorimetric Sensing Platform.. **2022**,	1
448	A resorcin[4]arene hexameric capsule as a supramolecular catalyst in elimination and isomerization reactions.. **2022**, 18, 337-349	0
447	Light-responsive nanomaterials with pro-oxidant and anti-oxidant activity. 1	1

446	Nanozybiotics: Nanozyme-Based Antibacterials against Bacterial Resistance.. **2022**, 11,	1
445	2D material-based peroxidase-mimicking nanozymes: catalytic mechanisms and bioapplications.. **2022**, 414, 2971	0
444	Titanium dioxide nanoparticles as a risk factor for the health of Neotropical tadpoles: a case study of Dendropsophus minutus (Anura: Hylidae).. **2022**, 1	1
443	Synthesis and Catalytic Property of Ribonucleoside-Derived Carbon Dots.. **2022**, e2106269	1
442	Versatile graphitic nanozymes for magneto actuated cascade reaction-enhanced treatment of S. mutans biofilms. 1	2
441	Bimetal Biomimetic Engineering Utilizing Metal□Organic Frameworks for Superoxide Dismutase Mimic. **2022**, 4, 751-757	7
440	Nanobody and Nanozyme-Enabled Immunoassays with Enhanced Specificity and Sensitivity.. **2022**, e2101576	3
439	Analysis of structural and biomimetic characteristics of the green-synthesized Fe3O4 nanozyme from the fruit peel extract of Punica granatum. 1	0
438	Designing CoS Nanoparticles Anchored on N-Doped Carbon Dodecahedron as Dual-Enzyme Mimics for the Colorimetric Detection of HO and Glutathione.. **2022**, 7, 11135-11147	
437	Putting surface-enhanced Raman spectroscopy to work for nanozyme research: methods, materials and applications. **2022**, 116603	2
436	Quantum Dots in Peroxidase-like Chemistry and Formamide-Based Hot Spring Synthesis of Nucleobases.. **2022**,	0
435	Explaining chemical clues of metal organic framework-nanozyme nano-/micro-motors in targeted treatment of cancers: benchmarks and challenges.. **2022**, 20, 153	2
434	Direct Electrodeposition of Bimetallic Nanostructures on Co-Based MOFs for Electrochemical Sensing of Hydrogen Peroxide.. **2022**, 10, 856003	1
433	Rational Construction of a Ni/CoMoO Heterostructure with Strong Ni-O-Co Bonds for Improving Multifunctional Nanozyme Activity.. **2022**,	5
432	Gold nanoparticles as adaptogens increazing the freezing tolerance of wheat seedlings.. **2022**, 1	0
431	Selective Inhibition toward Dual Enzyme-like Activities of Iridium Nanozymes for a Specific Colorimetric Assay of Malathion without Enzymes.. **2022**,	1
430	High-throughput synthesis of CeO nanoparticles for transparent nanocomposites repelling Pseudomonas aeruginosa biofilms.. **2022**, 12, 3935	2
429	POD Nanozyme optimized by charge separation engineering for light/pH activated bacteria catalytic/photodynamic therapy.. **2022**, 7, 86	10

428	Superoxide Radical-Mediated Self-Synthesized Au/MoO Hybrids with Enhanced Peroxidase-like Activity and Photothermal Effect for Anti-MRSA Therapy.. **2022**,	15
427	Metal-nitrogen-carbon-based nanozymes:Advances and perspectives.	4
426	Iron phthalocyanine-derived nanozyme as dual reactive oxygen species generation accelerator for photothermally enhanced tumor catalytic therapy.. **2022**, 284, 121495	2
425	Plasmonic Nanomaterials for Colorimetric Biosensing: A Review. **2022**, 10, 136	2
424	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties.. **2022**, 114269	2
423	Electrochemical sensors based on metal nanoparticles with biocatalytic activity.. **2022**, 189, 172	5
422	Evaluation of nanomaterials-grafted enzymes for application in contaminants degradation: Need of the hour with proposed IoT synchronized nanosensor fit sustainable clean water technology in en masse. **2022**, 99, 100429	1
421	Platinum nanozyme-hydrogel composite (PtNZHG)-impregnated cascade sensing system for one-step glucose detection in serum, urine, and saliva. **2022**, 359, 131585	3
420	Synthesis of pH-switchable Pt/Co3O4 nanoflowers: Catalytic mechanism, four-enzyme activity and smartphone biosensing applications. **2022**, 437, 134414	3
419	Ultra-fast colorimetric detection of glutathione by magnetic Fe NPs with peroxidase-like activity. **2022**, 361, 131750	2
418	Biomimetic cascade nanoreactor with triple-enzyme mimetic activities for colorimetric detection of acid phosphatase. **2022**, 437, 135267	2
417	A novel colorimetric strategy for rapid detection of dimethoate residue in vegetables based on enhancing oxidase-mimicking catalytic activity of cube-shape Ag2O particles. **2022**, 361, 131720	1
416	Vitamin B3 as a high acid-alkali tolerant peroxidase mimic for colorimetric detection of hydrogen peroxide and glutathione. **2022**, 15, 103823	0
415	Hollow C@MoS2 nanotubes with Hg2+-triggered oxidase-like catalysis: A colorimetric method for detection of Hg2+ ions in wastewater. **2022**, 361, 131725	0
414	Development of hybrid DNA-copper phosphate nanoflowers as peroxidase enzyme mimics and for colorimetric sensing of phenol. **2022**, 536, 120885	0
413	Indirect colorimetric determination of trace hydrogen peroxide by its oxidizing power on chromium(III) oxide nanoparticles. **2022**, 178, 107335	
412	Strategic synthesis of trimetallic Au@Ag-Pt nanorattles for ultrasensitive colorimetric detection in lateral flow immunoassay.. **2022**, 208, 114218	2
411	Bioinspired laccase-mimicking catalyst for on-site monitoring of thiram in paper-based colorimetric platform.. **2022**, 207, 114199	1

410	Metalloporphyrin and gold nanoparticles modified hollow zeolite imidazole Framework-8 with excellent peroxidase like activity for quick colorimetric determination of choline in infant formula milk powder.. **2022**, 384, 132552	0
409	Nanozyme: A promising tool from clinical diagnosis and environmental monitoring to wastewater treatment. **2022**, 71, 90-107	2
408	Global mapping of research outputs on nanoparticles with peroxidase mimetic activity from 2010–2019. 1-13	0
407	A multifunctional nanozyme-based enhanced system for tert-butyl hydroquinone assay by surface-enhanced Raman scattering.. **2021**, 189, 29	0
406	Nanocarbon Framework-Supported Ultrafine MoC@MoO Nanoclusters for Photothermal-Enhanced Tumor-Specific Tandem Catalysis Therapy.. **2021**, 13, 59649-59661	1
405	Temperature-Dependent CAT-Like RGD-BPNS@SMFN Nanoplatform for PTT-PDT Self-Synergetic Tumor Phototherapy.. **2021**, e2102298	7
404	Fluorescent nanodiamonds as enzyme mimics for protecting astrocytes from oxidative stress in a mouse model of epilepsy. **2021**, 23, 1	1
403	Magnetic nanoparticles in theranostics of malignant melanoma.. **2021**, 11, 127	1
402	Recent Advances in Nanozymes: From Matters to Bioapplications. **2022**, 32, 2110432	15
401	Preparation, Diagnosis and Evaluation of Cyclic-Tryptophan Derivatives as Anti Breast cancer Agents. **2021**, 14, 1983-1991	
400	Catalytic antimicrobial therapy using nanozymes.. **2021**, e1769	3
399	Biochar Nanozyme from Silkworm Excrement for Scavenging Vapor-Phase Free Radicals in Cigarette Smoke.. **2021**,	
398	Multifunctional Nanozyme Hydrogel with Mucosal Healing Activity for Single-Dose Ulcerative Colitis Therapy.. **2021**,	3
397	A Nanostructured Cu(II) Coordination Polymer Based on Alanine as a Trifunctional Mimic Enzyme and Efficient Composite in the Detection of Sphingobacteria.. **2022**, 2022, 8788221	
396	Nanozymes with Multiple Activities: Prospects in Analytical Sensing.. **2022**, 12,	1
395	Positively Charged Gold Quantum Dots: An Nanozymatic "Off-On" Sensor for Thiocyanate Detection.. **2022**, 11,	2
394	Synthesis of β-Cyclodextrin Grafted Rhombohedral-CuO Antioxidant Nanozyme for Detection of Dopamine and Hexavalent Chromium through off-on Strategy of Peroxidase Mimicking activity. **2022**, 107514	1
393	Solvothermal synthesis of transition metal (iron/copper) and nitrogen co-doped carbon nanomaterials: comparing their peroxidase-like properties. **2022**, 24, 1	1

392	Bioprobes-regulated precision biosensing of exosomes: From the nanovesicle surface to the inside. **2022**, 463, 214538	2
391	Data_Sheet_1.pdf. **2020**,	
390	Table_1.DOCX. **2020**,	
389	Data_Sheet_1.PDF. **2020**,	
388	Image_1.JPEG. **2020**,	
387	Image_2.TIF. **2020**,	
386	A Valence-Engineered Self-Cascading Antioxidant Nanozyme for the Therapy of Inflammatory Bowel Disease.. **2022**,	4
385	Switching on-off-on colorimetric sensor based on Fe-N/S-C single-atom nanozyme for ultrasensitive and multimodal detection of Hg.. **2022**, 155428	3
384	Simulation design of natural enzyme binding pocket structure in MOFs for enhanced catalytic activity.	
383	Platinum Nanozyme Catalyzed Multichannel Colorimetric Sensor Array For Identification and Detection of Pesticides.	
382	Toxicity of nanoparticles onto plants: Overview of the biochemical and molecular mechanisms. **2022**, 69-94	0
381	CO2 capture by absorption. **2022**, 33-61	
380	Role of nanoparticles in alleviation of drought stress in plants: Strategy to achieve sustainable agriculture system. **2022**, 155-187	
379	State of the art and applications in nanostructured biocatalysis. **2022**, 36, 117-133	0
378	Construction of a bioinspired Fe3O4/N-HCS nanozyme for highly sensitive detection of GSH. **2022**, 129046	1
377	Single-Atom Pd/CeO2 Nanostructures for Mimicking Multienzyme Activities.	3
376	H2O2-Sensentive Nanoscale Coordination Polymers for Photoacoustic Tumors Imaging via in Vivo Chromogenic Assay.	0
375	Inflammation-sensing catalase-mimicking nanozymes alleviate acute kidney injury via reversing local oxidative stress.. **2022**, 20, 205	1

374	A Valence-Engineered Self-Cascading Antioxidant Nanozyme for the Therapy of Inflammatory Bowel Disease.	
373	Using Wool Keratin Derived Metallo-Nanozymes as a Robust Antioxidant Catalyst to Scavenge Reactive Oxygen Species Generated by Smoking.. **2022**, e2201205	0
372	Multifunctional Magnetic Hydrogels Fabricated by Iron Oxide Nanoparticles Mediated Radical Polymerization.	0
371	Recent advances in metal-organic framework-based materials for anti-staphylococcus aureus infection.. **2022**, 1-23	2
370	Chiral Nanomaterials for Biocatalysis. **2022**, 241-285	
369	Recent Advances in Polyoxometalates with Enzyme-like Characteristics for Analytical Applications.. **2022**, 1-18	
368	Shape Regulation of CeO2 Nanozymes Boosts Reaction Specificity and Activity.	
367	Efficient Biocatalytic System for Biosensing by Combining Metal-Organic Framework (MOF)-Based Nanozymes and G-Quadruplex (G4)-DNAzymes.. **2022**,	2
366	Acceleration of the Dehydrogenation of d-Glucose to 2-Keto-d-gluconate in Aqueous Amino Acid via Hydrated Stacked Clay Nanosheets.. **2022**,	
365	An Engineered, Self-Propelled Nanozyme as Reactive Oxygen Species Scavenger. **2022**, 136794	1
364	Engineering of Coordination Environment in Bioinspired Laccase-Mimicking Catalysts for Monitoring of Pesticide Poisoning. **2022**, 136930	0
363	Electro-dissolution of gold nanoclusters for constructing ammonia sensor. **2022**, 916, 116335	
362	Gold/platinum bimetallic nanomaterials for immunoassay and immunosensing. **2022**, 465, 214578	2
361	Recent advancements in coralyne (COR)-based biosensors: Basic principles, various strategies and future perspectives.. **2022**, 210, 114343	1
360	Diacetyl as a new-type of artificial enzyme to mimic oxidase mediated by light and its application in the detection of glutathione at neutral pH. **2022**, 179, 107529	1
359	Nanoarchitectured superparamagnetic iron oxide-doped mesoporous carbon nanozymes for glucose sensing. **2022**, 366, 131980	2
358	Phosphatase-like activity of single-atom CeNC nanozyme for rapid detection of Al.. **2022**, 390, 133127	3
357	Construction of Zn-heptapeptide bionanozymes with intrinsic hydrolase-like activity for degradation of di(2-ethylhexyl) phthalate.. **2022**, 622, 860-870	2

356	Antioxidant colloids via heteroaggregation of cerium oxide nanoparticles and latex beads.. **2022**, 216, 112531	1
355	Starvation, Ferroptosis, and Prodrug Therapy Synergistically Enabled by a Cytochrome c Oxidase like Nanozyme.. **2022**, e2203236	8
354	Novel design of multifunctional nanozymes based on tumor microenvironment for diagnosis and therapy. **2022**, 114456	2
353	Bimetallic nanozyme mediated urine glucose monitoring through discriminant analysis of colorimetric signal. **2022**, 114386	1
352	Label-free fluorescence detection of hydrogen peroxide and glucose based on the Ni-MOF nanozyme-induced self-ligand emission.. **2022**, 189, 219	0
351	ROS-Targeted Depression Therapy via BSA-Incubated Ceria Nanoclusters.. **2022**,	7
350	Applications of Miniaturized Electrochemical Biosensors. **2022**,	
349	Anticancer Therapeutic Effects of Cerium Oxide Nanoparticles: Known and Unknown Molecular Mechanisms.	4
348	Carbon dots with tunable emission based on pH values. **2022**, 12, 271-277	
347	Peony-like 3D-MoS2/graphene nanostructures with enhanced mimic peroxidase performance for colorimetric determination of dopamine. **2022**, 123553	0
346	Nanocatalyst-Enabled Physically Unclonable Functions as Smart Anticounterfeiting Tags with AI-Aided Smartphone Authentication.	1
345	Oxidase-mimicking peptide-copper complexes and their applications in sandwich affinity biosensors. **2022**, 1214, 339965	1
344	Ratiometric fluorescent sensing and imaging of intracellular pH by an AIE-active luminogen with intrinsic phosphatase-like catalytic activity. **2022**, 204, 110436	0
343	Recent development in the design of artificial enzymes through molecular imprinting technology.	0
342	Ultra-Small Cu-Au Bimetallic Nanozyme with Infinitesimal Steric Hindrance to Promoting the Rapid Lateral Flow Detection of Clenbuterolflow Detection of Clenbuterol.	
341	Mechanism of Nanoparticles-Mediated Alleviating Biotic and Abiotic Stresses in Agricultural Crops: Recent Advances and Future Perspectives. **2022**, 117-139	0
340	???:??????. **2022**,	2
339	Development of the Au@Pt-Labeled Nanobody Lateral-Flow Nanozyme Immunoassay for Visual Detection of 3-Phenoxybenzoic Acid in Milk and Lake Water.	1

338	Preparation of Dye Molecule-Intercalated MoO 3 Organic/Inorganic Superlattice Nanoparticles for Fluorescence Imaging-Guided Catalytic Therapy. 2200595	4
337	One-step synthesis of biomimetic copper□ysteine nanoparticle with excellent laccase-like activity.	2
336	Alginate Particles for Enzyme Immobilization Using Spray Drying.	1
335	Fabrication of Ag nanoparticles coupled with ferrous disulfide biocatalyst as a peroxidase mimic for sensitive electrochemical and colorimetric dual-mode biosensing of H2O2. **2022**, 133386	2
334	Mussel-inspired Fe-based Tannic acid Nanozyme: A Renewable Bioresource-derived High-affinity Signal Tag for Dual-readout Multiplex Lateral Flow Immunoassay. **2022**, 137382	3
333	Comparative study of Pd@Pt nanozyme improved colorimetric N-ELISA for the paper-output portable detection of Staphylococcus aureus. **2022**, 247, 123503	0
332	Applications of smartphone-based colorimetric biosensors. **2022**, 11, 100173	3
331	Nanomaterials as signal amplification elements in aptamer-based electrochemiluminescent biosensors. **2022**, 147, 108170	2
330	Copper metal organic framework as natural oxidase mimic for effective killing of Gram-negative and Gram-positive bacteria.	1
329	Intrinsic Multienzyme-like Activities of the Nanoparticles of Mn and Fe Cyano-Bridged Assemblies. **2022**, 12, 2095	0
328	Nanobiomimetic Medicine. 2204791	0
327	Catalysis Driven by Biohybrid Nanozyme. **2022**, 100024	
326	Insulin-incubated palladium clusters promote recovery after brain injury. **2022**, 20,	1
325	2H□MoS2/Co3O4 nanohybrid with type I nitroreductase-mimicking activity for the electrochemical assays of nitroaromatic compounds. **2022**, 340078	1
324	Exogenously Triggered Nanozyme for Real-Time Magnetic Resonance Imaging-Guided Synergistic Cascade Tumor Therapy.	1
323	Application of Metal-Based Nanozymes in Inflammatory Disease: A Review. 10,	
322	Synthesis of Gold-Platinum Core-Shell Nanoparticles Assembled on a Silica Template and Their Peroxidase Nanozyme Properties. **2022**, 23, 6424	
321	RuO2/rGO heterostructures as mimic peroxidases for colorimetric detection of glucose. **2022**, 189,	0

320	Fructose oxidase-like activity of CuO nanoparticles supported by phosphate for a tandem catalysis-based fructose sensor. **2022**, 1220, 340064	0
319	A perylenediimide modified SiO2@TiO2 yolk-shell light-responsive nanozyme: Improved peroxidase-like activity for H2O2 and sarcosine sensing. **2022**, 436, 129321	2
318	MoS2 based nanomaterials: Advanced antibacterial agents for future. **2022**, 348, 158-185	1
317	One-pot fabrication of nanozyme with 2D/1D heterostructure by in-situ growing MoS2 nanosheets onto single-walled carbon nanotubes with enhanced catalysis for colorimetric detection of glutathione. **2022**, 1221, 340083	1
316	Dual-channel fluorescent imaging of reactive oxygen species in living cells based on Ce(III) modified quantum dots with oxidation triggered phosphatase-like activity. **2022**, 367, 132178	0
315	A novel fluorescence-scattering ratiometric sensor based on Fe-N-C nanozyme with robust oxidase-like activity. **2022**, 368, 132181	1
314	Stimuli-responsive colorimetric sensor based on bifunctional pyrophosphate-triggered controlled release and enhancing activity of CoOOH nanozyme. **2022**, 369, 132215	0
313	Nanozymes for foodborne microbial contaminants detection: Mechanisms, recent advances, and challenges. **2022**, 141, 109165	2
312	Boosting the Peroxidase-like Activity of Pt Nanozyme by Synergistical Effect of Ti3C2 Nanosheets for Dual Mechanism Detection.	1
311	Nanosized porous artificial enzyme as a pH-sensitive doxorubicin delivery system for joint enzymatic and chemotherapy towards tumor treatment.	1
310	Nanozymes A route to overcome microbial resistance: A viewpoint. **2022**, 11, 2575-2583	
309	Clinical potential of nanotechnlogy as smart therapeutics: A step toward targeted drug delivery. **2022**, 133-154	
308	A Cu-based metal-organic framework with two types of connecting nodes as catalyst for oxygen activation. **2022**,	
307	Polypyrrole Nanoenzymes as Tumor Microenvironment Modulators to Reprogram Macrophage and Potentiate Immunotherapy. 2201703	5
306	Enhancing enzymatic activity of Mn@Co3O4 nanosheets as mimetic nanozyme for colorimetric assay of ascorbic acid. **2022**, 114818	0
305	A review on the current progress of layered double hydroxide application in biomedical sectors. **2022**, 137,	2
304	Enzyme-nanozyme cascade colorimetric sensor platform: a sensitive method for detecting human serum creatinine.	1
303	Homogeneity of Supported Single-Atom Active Sites Boosting the Selective Catalytic Transformations. 2201520	3

302	Enhanced Peroxidase-like Activity of Fe3O4@MIL-100(Fe) Aroused by ATP for One-Step Colorimetric Sensing toward Cholesterol.	3
301	Spinel-Oxide-Based Laccase Mimics for the Identification and Differentiation of Phenolic Pollutants. **2022**, 94, 10198-10205	2
300	Engineered Polymer-Supported Biorthogonal Nanocatalysts Using Flash Nanoprecipitation.	2
299	Nanozyme-Based Lateral Flow Immunoassay (LFIA) for Extracellular Vesicle Detection. **2022**, 12, 490	1
298	Peroxidase-like activity of Fe 3 O 4 nanoparticles and Fe 3 O 4 -graphene oxide nanohybrids: Effect of the amino- and carboxyl-surface modifications on H 2 O 2 sensing.	0
297	Enzyme-Like Property (Nanozyme) of Iron Oxide Nanoparticles.	0
296	Gold nanoparticle-carbon nanotube nanohybrids with peroxidase-like activity for the highly-sensitive immunoassay of kanamycin in milk.	1
295	Catechol Mediated Synthesis of Monometallic and Bimetallic Nanoparticles and Catalytic Efficiency of Monometallic Nanoparticles.	0
294	Cerium-Based Metal□Organic Framework with Intrinsic Haloperoxidase-Like Activity for Antibiofilm Formation. 2206294	0
293	Recent Development of Bio-inspired Porous Materials for Catalytic Applications.	
292	Colorimetric Systems for the Detection of Bacterial Contamination: Strategy and Applications. **2022**, 12, 532	1
291	Nanostructures with at least one dimension in ultra-small size for the treatment of acute kidney injury. **2022**, 11, 100111	0
290	Platinum nanozyme catalyzed multichannel colorimetric sensor array for identification and detection of pesticides. **2022**, 369, 132334	4
289	Rutin as a coenzyme of Fe-doped silicon nanozyme with enhanced peroxidase-like activity for a colorimetric □glucuronidase sensor. **2022**, 181, 107771	
288	Biocompatible pericarpium citri reticulatae polysaccharide templated Pd nanoparticles for effectively colorimetric detection of glutathione. **2022**, 650, 129617	1
287	Ultrathin porous Pd metallene as highly efficient oxidase mimics for colorimetric analysis. **2022**, 626, 296-304	2
286	Multivalent Ce-MOFs as biomimetic laccase nanozyme for environmental remediation. **2022**, 138220	2
285	An orally administered gold nanocluster with ROS scavenging for inflammatory bowel disease treatment. **2022**,	0

284	Lentinan stabilized bimetallic PdPt3 dendritic nanoparticles with enhanced oxidase-like property for L-cysteine detection. **2022**,	0
283	Facile Fabrication of 1-Methylimidazole/Cu Nanozyme with Enhanced Laccase Activity for Fast Degradation and Sensitive Detection of Phenol Compounds. **2022**, 27, 4712	2
282	Colorimetric detection of total antioxidants in green tea with oxidase-mimetic CoOOH nanorings. **2022**, 218, 112711	1
281	What are inorganic nanozymes? Artificial or inorganic enzymes. **2022**, 46, 15273-15291	0
280	????????????????. **2022**,	
279	Facet-Dependent Activity of CeO2 Nanozymes Regulate the Fate of Human Neural Progenitor Cell via Redox Homeostasis. **2022**, 14, 35423-35433	1
278	Recent Progress in Phase Regulation, Functionalization, and Biosensing Applications of Polyphase MoS 2. **2022**, 18, 2202956	0
277	Humic Acid-Coated Fe3O4 Nanoparticles Confer Resistance to Acremonium Wilt Disease and Improve Physiological and Morphological Attributes of Grain Sorghum. **2022**, 14, 3099	1
276	Vacancies-rich CoAl monolayer layered double hydroxide as efficient superoxide dismutase-like nanozyme. **2022**, 15, 7940-7950	0
275	Prussian blue: from advanced electrocatalyst to nanozymes defeating natural enzyme. **2022**, 189,	1
274	Enhanced Peroxidase-like Activity of CuS Hollow Nanocages by Plasmon-Induced Hot Carriers and Photothermal Effect for the Dual-Mode Detection of Tannic Acid.	0
273	Multifunctional MnCo@C yolk-shell nanozymes with smartphone platform for rapid colorimetric analysis of total antioxidant capacity and phenolic compounds. **2022**, 114652	3
272	Cu 2+ -Chelatable and ROS-Scavenging MXenzyme as NIR-II-Triggered Blood□Brain Barrier-Crossing Nanocatalyst against Alzheimer's Disease. 2203031	3
271	Selective and Practical Graphene-Based Arsenite Sensor at 10 ppb. **2022**, 5, 11876-11888	1
270	Chiral Nanozymes for Enantioselective Biological Catalysis.	0
269	Chiral Nanozymes for Enantioselective Biological Catalysis.	2
268	Pre-Harvest Application of Multi-Walled Carbon Nanotubes Improves the Antioxidant Capacity of □lame Seedless□Grapes during Storage. **2022**, 14, 9568	
267	Recent advances in nanomaterials-based optical sensors for detection of various biomarkers (inorganic species, organic and biomolecules).	1

266	Catalase-Like Nanozymes: Classification, Catalytic Mechanisms, and Their Applications. 2203400	7
265	Nanozymes enable sensitive food safety analysis. **2022**,	1
264	Light-responsive organic artificial enzymes: Material designs and bio-applications.	0
263	A review on recent advances in the applications of composite Fe3O4 magnetic nanoparticles in the food industry. 1-29	2
262	Edge-Site Engineering of Defective FeN 4 Nanozymes with Boosted Catalase-Like Performance for Retinal Vasculopathies. 2205324	11
261	Screening of Protein-Based Ultrasmall Nanozymes for Building Cell-Mimicking Catalytic Vesicles. 2202145	1
260	Catechol detection based on a two-dimensional copper-based metal-organic framework with high polyphenol oxidase activity. **2022**, 100162	
259	Nanoengineering and green chemistry-oriented strategies toward nanocelluloses for protein sensing. **2022**, 308, 102758	0
258	Synthesis, properties, and applications of carbyne nanocrystals. **2022**, 151, 100692	
257	Ru incorporation for boosting Co3O4 oxidase-like activity in dopamine colorimetric detection. **2022**, 603, 154434	
256	Chemoenzymatic catalysis of tert-butyl 6-cyano-(3R,5R)-dihydroxyhexanoate by aldo-keto reductase coupled with composite Fe3O4 nanozyme scaffold. **2022**, 261, 117935	
255	Oxidase mimicking of CuMnO2 nanoflowers and the application in colorimetric detection of ascorbic acid. **2022**, 652, 129887	1
254	Thiolated gamma-cyclodextrin-polymer-functionalized CeFe3O4 magnetic nanocomposite as an intrinsic nanocatalyst for the selective and ultrasensitive colorimetric detection of triacetone triperoxide. **2022**, 307, 136108	
253	Ultrasensitive label-free electrochemical immunosensor of NT-proBNP biomarker based on branched AuPd nanocrystals/N-doped honeycombed porous carbon. **2022**, 148, 108225	1
252	Mn-doped single atom nanozyme composited Au for enhancing enzymatic and photothermal therapy. **2022**, 628, 419-434	
251	Introductory Chapter: Incredible Spicy Iron Oxide Nanoparticles.	0
250	Plasmonic Nanozymes: Leveraging Localized Surface Plasmon Resonance to Boost the Enzyme-Mimicking Activity of Nanomaterials. 2204131	1
249	Polymetallic Hybrid Nanoplatform with Hyperthermia-Amplified Dual Enzyme-Like Activities for Efficient Speeded-Up Bacterially Infected Wound Healing. 2201422	0

248	A mechanism of microbial sensitivity regulation on interventional remediation by nanozyme manganese oxide in soil heavy metal pollution. **2022**, 373, 133825	1
247	Rational design and structural engineering of heterogeneous single-atom nanozyme for biosensing. **2022**, 216, 114662	2
246	Manganese oxide nano-platforms in cancer therapy: Recent advances on the development of synergistic strategies targeting the tumor microenvironment. **2022**, 29, 101628	0
245	Carbon dots-based electrochemical sensors. **2023**, 109-136	0
244	Nanozyme-based pollutant sensing and environmental treatment: Trends, challenges, and perspectives. **2023**, 854, 158771	0
243	Nanozymes for biomedical applications in orthopaedics. **2023**, 76, 32-45	1
242	Colorimetric sensing of glucose and GSH using core□shell Cu/Au nanoparticles with peroxidase mimicking activity. **2022**, 12, 21875-21884	1
241	A colorimetric sensing platform for the determination of H2O2 using 2D□1D MoS2-CNT nanozymes. **2022**, 12, 28349-28358	0
240	Aspartic acid based metal□organic frameworks with dual function of NADH peroxidase and glycerol dehydrogenase-mimicking activities.	0
239	Gold nanoparticles: current and upcoming biomedical applications in sensing, drug, and gene delivery. **2022**, 58, 10886-10895	2
238	A synergistic chemodynamic□photodynamic-photothermal therapy platform based on biodegradable Ce-doped MoOx nanoparticles.	0
237	Emerging single-atom iron catalysts for advanced catalytic systems.	1
236	Determination of Uric Acid in Serum by Sers System Based on Vo-Mnco2o4/Ag Nanozyme.	0
235	Magnetic Nanoparticle-Based Biosensors for the Sensitive and Selective Detection of Urine Glucose.	0
234	TiO₂ Nanoparticles Based Peroxidase Mimics for Colorimetric Sensing of Cholesterol and Hydrogen Peroxide.	1
233	Recent progress in single-atom nanozymes research.	1
232	Bifunctional Mn-Doped N-Rich Carbon Dots with Tunable Photoluminescence and Oxidase-Mimetic Activity Enabling Bimodal Ratiometric Colorimetric/Fluorometric Detection of Nitrite. **2022**, 14, 44762-44771	3
231	New Insight into Assembled Fe3O4@PEI@Ag Structure as Acceptable Agent with Enzymatic and Photothermal Properties. **2022**, 23, 10743	0

230	Plasmon-Enhanced Bimodal Nanosensors: An Enzyme-Free Signal Amplification Strategy for Ultrasensitive Detection of Pathogens.	1
229	Communication Breakdown: Into the Molecular Mechanism of Biofilm Inhibition by CeO2 Nanocrystal Enzyme Mimics and How It Can Be Exploited.	0
228	The effects of gold nanoparticles on redox status and freezing tolerance of wheat seedlings. **2022**, 44,	0
227	Rational Design of Nanozymes Enables Advanced Biochemical Sensing. **2022**, 10, 386	1
226	Plasmonics in Bioanalysis: SPR, SERS, and Nanozymes. **2023**, 37-83	0
225	Bifunctional Magnetic Fe3O4@Cu2O@TiO2 Nanosphere-Mediated Dual-Mode Assay of PTP1B Activity Based on Photocurrent Polarity Switching and Nanozyme-Engineered Biocatalytic Precipitation Strategies. **2022**, 94, 13342-13349	0
224	Plasmonic/magnetic nanoarchitectures: From controllable design to biosensing and bioelectronic interfaces. **2022**, 114744	1
223	Pd@Pt Nanodendrites as Peroxidase Nanomimics for Enhanced Colorimetric ELISA of Cytokines with Femtomolar Sensitivity. **2022**, 10, 359	0
222	Bimetallic Metal□Organic Framework Fe/Co-MIL-88(NH2) Exhibiting High Peroxidase-like Activity and Its Application in Detection of Extracellular Vesicles. **2022**, 14, 41800-41808	0
221	Antioxidant Activity of New Copolymer Conjugates of Methoxyoligo(Ethylene Glycol)Methacrylate and Betulin Methacrylate with Cerium Oxide Nanoparticles In Vitro. **2022**, 27, 5894	1
220	Fabrication of a Tubular CuO/NiO Biomimetic Nanozyme with Synergistically Promoted Peroxidase-like Performance for Isoniazid Sensing.	0
219	Iron Doped NiCo2O4 Nanoparticles: Synthesis via Homogeneous Precipitation Method and Studies on their Peroxidase-like Activity.	0
218	Electrochemiluminescence Systems for the Detection of Biomarkers: Strategical and Technological Advances. **2022**, 12, 738	0
217	TiO2 Nanoflowers Decorated with FeOx Nanocluster and Single Atoms by Atomic Layer Deposition for Peroxidase-Mimicking Nanozymes. **2022**, 5, 13090-13099	0
216	Porphyrin-Containing Metallacage with Precise Active Sites and Super Long-Term Stability as a Specific Peroxidase Mimic for Versatile Analyte Determination. **2022**, 94, 13261-13268	0
215	Fe-Doped MoS2 Nanozyme for Antibacterial Activity and Detoxification of Mustard Gas Simulant. **2022**, 14, 42940-42949	1
214	Assessment of multiple biomarkers in Lithobates catesbeianus (Anura: Ranidae) tadpoles exposed to zinc oxide nanoparticles and zinc chloride: integrating morphological and behavioral approaches to ecotoxicology.	0
213	2D Copper(II) Metalated Metal□Organic Framework Nanocomplexes for Dual-enhanced Photodynamic Therapy and Amplified Antitumor Immunity. **2022**, 14, 44199-44210	1

212	Nanozymes for Regenerative Medicine. 2200997	2
211	Functional catalytic nanoparticles (nanozymes) for sensing. **2022**, 114768	3
210	A nanozyme-based competitive electrochemical immunosensor for the determination of E-selectin. **2022**, 189,	1
209	Ceria Nanoenzyme-Based Hydrogel with Antiglycative and Antioxidative Performance for Infected Diabetic Wound Healing. 2200949	1
208	Room-temperature fabrication of a heterostructure Cu2O@CuO nanosheet electrocatalyst for non-enzymatic detection of glucose and H2O2. **2022**, 116874	0
207	In vitro selection and optimization of high-affinity aptamer for milk allergen α-lactalbumin and its application in dual-mode detection. 9,	0
206	"Switch to love, switch to kill": Glucose and light co-regulate iron single-atom nanozyme to modulate cell fate. **2022**, 33, 505703	0
205	Nanozyme-Enabled Treatment of Cardio- and Cerebrovascular Diseases. 2204809	2
204	Combining Cobalt Ferrite Nanozymes with a Natural Enzyme to Reshape the Tumor Microenvironment for Boosted Cascade Enzyme-Like Activities.	3
203	Oxygen-terminated few-layered Ti3C2Tx MXene nanosheets as peroxidase-mimic nanozyme for colorimetric detection of kanamycin. **2022**, 218, 114774	0
202	Tuning Iron Spin State in Single-Atom Nanozymes Enables Efficient Peroxidase Mimicking.	1
201	Structure design mechanisms and inflammatory diseases applications of nanozymes.	0
200	Medical Nanozymes for Therapeutics. **2022**, 1-46	0
199	Cu(ii)-assisted self-assembly of dicyandiamide-derived carbon dots: construction inspired from chemical evolution and its H2O2 sensing application.	0
198	Ultrasmall Pt Nanozymes Immobilized on Spherical Polyelectrolyte Brushes with Robust Peroxidase-like Activity for Highly Sensitive Detection of Cysteine. **2022**, 38, 12915-12923	4
197	Nanozyme Based on Dispersion of Hemin by Graphene Quantum Dots for Colorimetric Detection of Glutathione. **2022**, 27, 6779	0
196	Metal-organic-framework-involved nanobiocatalysis for biomedical applications. **2022**, 2, 2552-2589	0
195	Nanozymes-Enhanced Cell Therapy. 189-209	0

194	Multifunctional Nanozymes: Versatile Materials for Biochemical Analysis. 91-115	0
193	Nanoantioxidants: The Fourth Generation of Antioxidants Recent Research Roadmap and Future Perspectives. **2022**, 12, 1568	1
192	Polylysine-Based Macromolecules with Catalase-Like Activity to Accelerate Wound Healing by Clearing Bacteria and Attenuating Inflammatory Response.	0
191	Defective PtRuTe As Nanozyme with Selectively Enhanced Peroxidase-like Activity.	0
190	One-Pot Synthesis of MnOx-SiO2 Porous Composites as Nanozymes with ROS-Scavenging Properties. **2022**, 12, 3503	0
189	Living Macrophage-Delivered Tetrapod PdH Nanoenzyme for Targeted Atherosclerosis Management by ROS Scavenging, Hydrogen Anti-inflammation, and Autophagy Activation. **2022**, 16, 15959-15976	1
188	Recent Advances in Detection for Breast-Cancer-Derived Exosomes. **2022**, 27, 6673	0
187	Challenges in Biomaterials Science for Electrochemical Biosensing and Bioenergy.	1
186	On-site colorimetric detection of Salmonella typhimurium. **2022**, 6,	1
185	Nanomedicine in the Face of Parkinson Disease: From Drug Delivery Systems to Nanozymes. **2022**, 11, 3445	0
184	Medical Devices Based on Nanozymes. 211-229	0
183	Cupric Oxide Nanozymes for Biomedical Applications. 117-133	0
182	In situ controllable growth of Ag particles on paper for smartphone optical sensing of Hg2+ based on nanozyme activity stimulation. **2022**, 124055	1
181	State-of-the-art advances on syntheses, structures and applications of polyoxometalate-based metal-organic frameworks. **2022**,	2
180	Dual-active-site Fe/Cu single-atom nanozymes with multifunctional specific peroxidase-like properties for S2 detection and dye degradation. **2022**, 107969	0
179	Organic monolayer on gold nanoparticles as hydrolytic nanozymes. **2022**, 12, 100122	0
178	A general cation-exchange strategy for constructing hierarchical TiO2/CuInS2/CuS hybrid nanofibers to boost their peroxidase-like activity toward sensitive detection of dopamine. **2022**, 183, 108090	2
177	NiFe2O4 nanoparticles as nanozymes, a new colorimetric probe for 2,4-dichlorophenoxyacetic acid herbicide detection. **2022**, 146, 110104	1

176	Toxicity of ceria nanoparticles to the regeneration of freshwater planarian Dugesia japonica: The role of biotransformation. **2023**, 857, 159590	0
175	Fe hotspots in Ni-Ni3B nanocatalyst unravel remarkable cooperativity to boost hydrogen production from ammonia borane with enzyme-like catalysis.	0
174	Electrochemical immunosensor based on multi-order Rubik's cube-type platinum nickel nanocubes and Au NPs/cPDA NTs for detection of CEA. **2023**, 149, 108325	0
173	Recent Advances of Metal-Organic Frameworks-based Nanozymes for Bio-applications.	0
172	Intrinsic Light-Activated Oxidase Mimicking Activity of Conductive Polyaniline Nanofibers: A Class of Metal-Free Nanozyme.	0
171	Penetration and Translocation of Functional Inorganic Nanomaterials into Biological Barriers. **2022**, 114615	1
170	MXene-Based Composites as Nanozymes in Biomedicine: A Perspective. **2022**, 14,	0
169	Single-Atom Catalysts with Ultrahigh Catalase-Like Activity Through Electron Filling and Orbital Energy Regulation. 2209560	2
168	Single-Atom Nanozyme with Asymmetric Electron Distribution for Tumor Catalytic Therapy by Disrupting Tumor Redox and Energy Metabolism Homeostasis. 2208512	2
167	Strategies to improve drug penetration into tumor microenvironment by nanoparticles: Focus on nanozymes. **2022**, 8, 100100	0
166	Nanozymes in the Treatment of Diseases Caused by Excessive Reactive Oxygen Specie. Volume 15, 6307-6328	1
165	Reactive Oxygen Species- and Cell-Free DNA-Scavenging Mn3O4 Nanozymes for Acute Kidney Injury Therapy. **2022**, 14, 50649-50663	1
164	Engineering Antioxidative Cascade Metal-Phenolic Nanozymes for Alleviating Oxidative Stress during Extracorporeal Blood Purification.	0
163	Nanoceria as an Electron Reservoir: Spontaneous Deposition of Metal Nanoparticles on Oxides and Their Anti-inflammatory Activities.	1
162	Fabrication of Novel Copper MOF Nanoparticles for Nanozymatic Detection of Mercury Ions. **2022**,	0
161	Thermo-responsive palladium–ruthenium nanozyme synergistic photodynamic therapy for metastatic breast cancer management. **2022**, 10, 10027-10041	0
160	Fabrication of novel electroactive nickel sulfide@graphene oxide nanocomposite integrated transduction platform for non-enzymatic electrochemical sensing of Hydrogen Peroxide in environmental and biological samples. **2023**, 292, 117240	0
159	MOF Catalysis Meets Biochemistry: Molecular Insights from the Hydrolytic Activity of MOFs Towards Biomolecules.	1

158	Recent advances in colorimetric sensors based on nanozymes with peroxidase-like activity.	1
157	Microfluidic bioanalysis based on nanozymes. **2023**, 158, 116858	0
156	Changes in mechanical and bacterial properties of denture base resin following nanoceria incorporation with and without SBA-15 carriers. **2023**, 138, 105634	0
155	Glucose oxidase immobilization on Hemin@PCN-222 (Mn): Integrated biomimetic and bioenzyme activities in cascade catalytic process. **2023**, 307, 122832	0
154	Janus nanozyme based satellite structure immunosandwich colorimetric strategy for glycoproteins visual detection. **2023**, 454, 140495	0
153	Latest advances and status analysis of nanomaterials for microalgae photosystem, lipids and biodiesel: A state of art. **2023**, 11, 109111	1
152	Hollow NiCo@C Nanozyme-Embedded Paper-Based Colorimetric Aptasensor for Highly Sensitive Antibiotic Detection on a Smartphone Platform. **2022**, 94, 16768-16777	0
151	Synthesis of Amorphous/Crystalline Hetero-Phase Nanozymes With Peroxidase-Like Activity by Coordination-Driven Self-Assembly for Biosensors. 2204782	0
150	Air-Stable Radical Organic Cages as Cascade Nanozymes for Enhanced Catalysis. 2206127	0
149	Enhanced Radiosensitivity and Chemo-radiation efficacy of Nasopharynx Carcinoma via Dual-targeted SPION@Polymer Hybrid Nanosensitizer.	0
148	Tumor Microenvironment-Activable Manganese-Boosted Catalytic Immunotherapy Combined with PD-1 Checkpoint Blockade.	0
147	Bioinspired Fabrication of Two-Dimensional Metal□Organic Framework-Based Nanozyme for Sensitive Colorimetric Detection of Glutathione. **2022**, 5, 18761-18769	2
146	eg Occupancy as a Predictive Descriptor for Spinel Oxide Nanozymes.	0
145	Single-atom nanozymes towards central nervous system diseases.	0
144	Introducing nanozymes: new horizons in periodontal and dental implant care.	1
143	2D Co metal-organic framework nanosheet as an oxidase-like nanozyme for sensitive biomolecule monitoring.	1
142	Microbial bioprocess performance in nanoparticle-mediated composting. 1-18	0
141	Cold Nanozyme for Precise Enzymatic Antitumor Immunity.	0

140	New horizons for therapeutic applications of nanozymes in oral infection. **2022**,	0
139	Integrating Incompatible Nanozyme-Catalyzed Reactions for Diabetic Wound Healing. 2206707	0
138	Photothermal Enhanced and Tumor Microenvironment Responsive Nanozyme for Amplified Cascade Enzyme Catalytic Therapy. 2202198	1
137	Hollow Co-CeO2@PEG nanospheres: ultrasound enhanced cascade-nanozyme for synergetic anticancer. **2022**, 140993	0
136	Biomimetic Prussian blue nanozymes with enhanced bone marrow-targeting for treatment of radiation-induced hematopoietic injury. **2022**, 121980	0
135	Clear-Box Machine Learning for Virtual Screening of Two-Dimensional Nanozymes to Target Tumor Hydrogen Peroxide. 2202925	2
134	Multifaceted nanozymes for synergistic antitumor therapy: A review. **2022**, 224, 111430	1
133	Neutrophil-targeted Mn3O4 nanozyme treats myocardial ischemia reperfusion injury by scavenging reactive oxygen species.	0
132	Detection of Glucose Based on Noble Metal Nanozymes: Mechanism, Activity Regulation, and Enantioselective Recognition. 2205924	2
131	Light-Mediated Modulation of Enzyme-Mimetic Activity of CuMnO2 Nanosheets. **2022**, 13, 11770-11777	0
130	Core-shell Au@PdNPs based Colorimetric Enhanced Lateral Flow Immunoassay for C-reactive protein Detection. **2022**, 133247	0
129	Using Silk-derived Magnetic Carbon Nanocomposites as Highly Efficient Nanozymes and Electromagnetic Absorbing Agents. **2022**, 108084	0
128	Biomimetic mineralization based on self-assembling peptides.	0
127	Peroxidase-Like FeCoZn Triple-Atom Catalyst-Based Electronic Tongue for Colorimetric Discrimination of Food Preservatives **. 2207036	0
126	Interaction of Nanomaterials with Plant Macromolecules: Nucleic Acid, Proteins and Hormones. **2023**, 231-271	0
125	Biological Applications of Nanozymes. **2023**, 187-212	0
124	Supercritical fluid-assisted fabrication of C-doped Co3O4 nanoparticles based on polymer-coated metal salt nanoreactors for efficient enzyme-mimicking and glucose sensor properties.	1
123	Medical Nanozymes for Therapeutics. **2023**, 285-329	0

122	Response of Plant Photosynthesis to Nanomaterials. **2023**, 49-67	0
121	Rapid Colorimetric Detection of Thiabendazole Based on Its Inhibition Effect on the Peroxidase Mimetic Activity of Ag-MoS2 Nanozyme. **2023**, 3, 82-89	0
120	Engineering ROS-Scavenging Prussian Blue Nanozymes for Efficient Atherosclerosis Nanotherapy.	0
119	Oxygen Vacancy-Rich Amorphous BiVO4 Nanoparticles for Colorimetric Sensing.	0
118	Nanozymes for Bioimaging and Disease Diagnostics. **2023**, 81-106	0
117	Design of carbon dots as nanozymes to mediate redox biological processes.	0
116	Amino-Ligand-Coordinated Dicopper Active Sites Enable Catechol Oxidase-Like Activity for Chiral Recognition and Catalysis.	0
115	Nanozymes for Improving Anticancer Therapy. **2023**, 107-142	0
114	Construction of Au/Cu hierarchically organized particles with dual-functional enzyme-like activity.	0
113	Near-infrared-IIb emitting single-atom catalyst for imaging-guided therapy of blood-brain barrier breakdown after traumatic brain injury. **2023**, 14,	0
112	Agronanobiotechnology: Present and Prospect. **2023**, 43-80	0
111	Nanomedicine-mediated ferroptosis targeting strategies for synergistic cancer therapy.	0
110	Reaction Mechanisms and Kinetics of Nanozymes: Insights from Theory and Computation. 2211151	0
109	Cobalt Single-Atom Nanozyme Co-Administration with Ascorbic Acid Enables Redox Imbalance for Tumor Catalytic Ablation.	0
108	Synthesis of Two-Dimensional Metal, Metal Oxide and Metal Hydroxide Nanomaterials for Biosensing. **2023**, 161-185	0
107	Nanozymes for Glucose Sensing and Diabetes Management. **2023**, 51-80	0
106	Cerium Oxide Nanoparticles-Based Optical Biosensors for Biomedical Applications. 2200065	1
105	Pt-Ru bimetallic nanoclusters with super peroxidase-like activity for ultra-sensitive lateral flow immunoassay. **2023**, 457, 141324	0

104	Insight into nanozymes for their environmental applications as antimicrobial and antifouling agents: Progress, challenges and prospects. **2023**, 48, 101755	0
103	Laser-induced graphene (LIG)-based Au@CuO/V2CTx MXene non-enzymatic electrochemical sensors for the urine glucose test. **2023**, 457, 141303	0
102	Advances in antioxidative nanozymes for treating ischemic stroke. **2023**, 4, 95-102	0
101	Co,N,S co-doped hollow carbon with efficient oxidase-like activity for the detection of Hg2+ and Fe3+ ions. **2023**, 187, 108383	0
100	A Review on Low-Dimensional Nanomaterials: Nanofabrication, Characterization and Applications. **2023**, 13, 160	2
99	Facile Preparation of Co3O4 Hollow Dodecahedron with Superior Peroxidase-like Activity for Selective Detection of Cholesterol. **2023**, 11, 27	1
98	Recent Advances in Tetrakis (4-Carboxyphenyl) Porphyrin-Based Nanocomposites for Tumor Therapy. 2200136	0
97	High-Indexed Intermetallic Pt3Sn Nanozymes with High Activity and Specificity for Sensitive Immunoassay. **2023**, 23, 267-275	1
96	Au/Pd Nanocatalysts on Silica Nanoparticle-Coated Indium Tin Oxide for Colorimetric Sensing of Ascorbic Acid. **2023**, 6, 190-199	0
95	Advanced bioactive nanomaterials for diagnosis and treatment of major chronic diseases. 10,	0
94	Machine Learning-assisted Nanozyme Design: Lessons from Materials and Engineered Enzymes. 2210848	0
93	Porous Nitrogen-Doped Crumpled Graphene Nanoparticles: A Metal-Free Nanozyme for Selective Detection of Dopamine in Aqueous Medium and Human Serum. **2023**, 6, 1667-1677	0
92	Rise of supramolecular nanozymes: Next-generation peroxidase enzyme-mimetic materials. **2023**, 329-387	0
91	Spherical Hydrogel Sensor Based on PB@Fe-COF@Au Nanoparticles with Triplet Peroxidase-like Activity and Multiple Capture Sites for Effective Detection of Organophosphorus Pesticides. **2023**, 15, 6473-6485	0
90	Ceria Nanoparticles as Copper Chaperones that Activate SOD1 for Synergistic Antioxidant Therapy to Treat Ischemic Vascular Diseases. 2208989	0
89	Dual-Enzyme Cascade Composed of Chitosan Coated FeS2 Nanozyme and Glucose Oxidase for Sensitive Glucose Detection. **2023**, 28, 1357	0
88	Multi-Functional Carbon Dots for Visualizing and Modulating ROS-Induced Mitophagy in Living Cells. 2212141	0
87	Self-assembled, hemin-functionalized peptide nanotubes: an innovative strategy for detecting glutathione and glucose molecules with peroxidase-like activity. **2023**, 10,	0

86	Transition metal-doped germanium oxide nanozyme with enhanced enzyme-like activity for rapid detection of pesticide residues in water samples. **2023**, 1245, 340861	0
85	ELECTROCHEMICAL BIOSENSORS FOR CONTROL OF LEAD CONTENT IN THE ENVIRONMENT. A REVIEW. **2022**, 88, 55-87	0
84	Recyclable ferroferric oxide@titanium dioxide@molybdenum disulfide with enhanced enzyme-like activity under visible light for effectively inhibiting the growth of drug-resistant bacteria in sewage. **2023**, 11, 3434-3444	0
83	Magnetic Fe-N-C nanoparticles as dual nanozyme for lable-free colorimetric detection of antibiotics.	0
82	One-pot hydrothermal synthesis of metal-doped carbon dot nanozymes using protein cages as precursors. **2023**, 13, 6760-6767	0
81	Recent advancement in nanomaterial-encapsulated drug delivery vehicles for combating cancer, COVID-19, and HIV-like chronic diseases.	0
80	Structural Analysis and Intrinsic Enzyme Mimicking Activities of Ligand-Free PtAg Nanoalloys. 2206772	0
79	Elucidating the Roles of Distinct Chemical Factors in the Hydrolytic Activities of Hetero- and Homonuclear Synthetic Analogues of Binuclear Metalloenzymes. **2023**, 13, 3131-3147	0
78	An investigation on the multiple roles of CeO2 nanoparticle in electrochemical sensing: Biomimetic activity and electron acceptor. **2023**, 935, 117301	0
77	Single-Atom Nanocatalytic Therapy for Suppression of Neuroinflammation by Inducing Autophagy of Abnormal Mitochondria.	0
76	Regulating interlayer spacing of aminated graphene oxide membranes for efficient flow reactions. **2023**, 6, 1173-1187	0
75	Self-Adaptive Antibiofilm Effect and Immune Regulation by Hollow Cu2MoS4 Nanospheres for Treatment of Implant Infections.	0
74	Polyhedral MnSe microparticles with specific Hg2+-suppressed oxidase-like activity: Toward a green and low-cost turn-off method for Hg2+ detection. **2023**, 382, 133539	0
73	Recent progress on nanozymes in electrochemical sensing. **2023**, 936, 117391	0
72	Citrate-functionalized osmium nanoparticles with peroxidase-like specific activity for highly efficient degradation of phenolic pollutants. **2023**, 464, 142726	0
71	Fluorescent sensor based on PtS2-PEG nanosheets with peroxidase-like activity for intracellular hydrogen peroxide detection and imaging. **2023**, 1259, 341179	0
70	Synthesis and characterization of new CNT-loaded CeO2 nanoparticles for antibacterial applications. **2023**, 195, 108931	0
69	Magnetic three-phase single-drop microextraction for highly sensitive detection of aflatoxin B1 in agricultural product samples based on peroxidase-like spatial network structure. **2023**, 416, 135856	0

68	Oxygen vacancies rich Co-Mo metal oxide microspheres as efficient oxidase mimetic for colorimetric detection of sulfite. **2023**, 189, 108562	0
67	A sensing platform for on-site detection of glutathione S-transferase using oxidized Pi@Ce-doped Zr-based metal-organic frameworks(MOFs). **2023**, 259, 124537	0
66	Photoreforming of Waste Polymers for Sustainable Hydrogen Fuel and Chemicals Feedstock: Waste to Energy.	0
65	Cerium oxide nanozymes confer a cytoprotective and bio-friendly surface micro-environment to methacrylate based oro-facial prostheses. **2023**, 296, 122063	0
64	Assemble multi-enzyme mimic tandem Mn3O4@ g-C3N4 for augment ROS elimination and label free detection. **2023**, 463, 142355	0
63	Green synthesized copper assisted iron oxide nanozyme for the efficient elimination of industrial pollutant via peroxodisulfate activation. **2023**, 1283, 135267	0
62	Supercritical fluid-assisted fabrication of Pt-modified cerium oxide nanozyme based on polymer nanoreactors for peroxidase-like and glucose detection characteristics. **2023**, 198, 105915	0
61	Ultra-small polydopamine nanomedicine-enabled antioxidation against senescence. **2023**, 19, 100544	0
60	Accelerating innovations in C H activation/functionalization through intricately designed magnetic nanomaterials: From genesis to applicability in liquid/regio/photo catalysis. **2023**, 175, 106615	0
59	Mechanism and application of the anti-bacterial nanomaterials. 26, 136-150	0
58	Electronic and structural properties of functionalized Silica nanoparticles: DFT and SCC DFTB calculation.	0
57	Smart Biomimetic Nanozymes for Precise Molecular Imaging: Application and Challenges. **2023**, 16, 249	0
56	Dual-signal immuno-competitive determination of brain natriuretic peptide based on magnetic nanozyme.	0
55	Recent Advances in Biomaterials-Based Therapies for Alleviation and Regeneration of Traumatic Brain Injury. 2200577	0
54	Structural dynamics of Schottky and Frenkel defects in CeO2: a density-functional theory study. **2023**, 5, 025004	0
53	Tuning Local Coordination Environments of Manganese Single-Atom Nanozymes with Multi-Enzyme Properties for Selective Colorimetric Biosensing. **2023**, 62,	0
52	Tuning Local Coordination Environments of Manganese Single-Atom Nanozymes with Multi-Enzyme Properties for Selective Colorimetric Biosensing. **2023**, 135,	0
51	Nanoparticles-Based Management of Cadmium Toxicity in Crop Plants. **2023**, 549-570	0

50	Recent progress in nanozyme-based sensors for ion detection: strategies, trends, and challenges. **2023**, 2, 307-319	0
49	Chimeric Biocatalyst Combining Peptidic and Nucleic Acid Components Overcomes the Performance and Limitations of the Native Horseradish Peroxidase. **2023**, 145, 4517-4526	0
48	Nanozymes: Definition, Activity, and Mechanisms. 2211041	0
47	Emerging antibacterial nanozymes for wound healing.	0
46	Tartaric acid stabilized iridium nanoparticles with excellent laccase-like activity. **2023**, 11, 2770-2777	0
45	Ag Aerogel-Supported Single-Atom Hg Nanozyme Enables Efficient SERS Monitoring of Enhanced Oxidase-Like Catalysis. **2023**, 95, 4335-4343	0
44	Insights into the antibacterial mechanism of MoS2/CoS2 heterostructure nanozymes with double enzyme-like activities for MRSA-infected wound therapy. **2023**, 461, 141959	0
43	Facile Synthesis and X-ray Attenuation Properties of Ultrasmall Platinum Nanoparticles Grafted with Three Types of Hydrophilic Polymers. **2023**, 13, 806	0
42	Self-enhanced peroxidase-like activity in a wide pH range enabled by heterostructured Au/MOF nanozymes for multiple ascorbic acid-related bioenzyme analyses. **2023**, 148, 1579-1586	0
41	Application of Nanozymes in Environmental Monitoring, Management, and Protection. **2023**, 13, 314	0
40	Geometric Tuning of Single-Atom FeN 4 Sites via Edge-Generation Enhances Multi-Enzymatic Properties.	0
39	Synthesis of Ti3C2Tx/MnO2 composites for synergistic catalytic/photothermal-based bacterial inhibition. **2023**, 5, 2216-2225	0
38	Laser-generated defect-rich MnOx nanobelts with high oxidase mimic activity for glutathione detection. **2023**, 383, 133595	0
37	Cerium oxide nanozymes alleviate oxidative stress in tenocytes for Achilles tendinopathy healing.	0
36	Supramolecular Chiral Nanozymes with High and Switchable Enantioselectivity. 2200405	0
35	Rational design of ZIF-67 derived hollow nanozyme through a general strategy for biosensing. **2023** , 190, 108601	0
34	Atomic-Level Regulation of Cobalt Single-Atom Nanozymes: Engineering High-Efficiency Catalase Mimics.	0
33	Atomic-Level Regulation of Cobalt Single-Atom Nanozymes: Engineering High-Efficiency Catalase Mimics.	0

32	Enzyme-Regulated In Situ Formation of Copper Hexacyanoferrate Nanoparticles with Oxidase-Mimetic Behaviour for Colorimetric Detection of Ascorbate Oxidase. **2023**, 13, 344	0
31	Regulation of the Oxidase Mimetic Activity of Ceria Nanoparticles by Buffer Composition.	0
30	Glucose Oxidase-like Rhodium Single-Atom Nanozymes: A Mimic Platform for Biometabolism and Electrometabolism of Glucose Oxidation at Neutral pH. **2023**, 8, 1697-1704	0
29	A biomineralized bi-functional hybrid nanoflower to effectively combat bacteria via a glucose-powered cascade catalytic reaction. **2023**, 11, 3413-3421	0
28	Nanotechnological strategies to increase the oxygen content of the tumor. 14,	0
27	Single-Atom Nanozyme Based on Mn-Center with Enhanced Peroxidase-like Activity for Organic Dye Degradation. **2023**, 6, 4844-4853	0
26	Controllable synthesis of MoS2@TiO2 nanocomposites for visual detection of dopamine secretion with highly-efficient enzymatic activity. **2023**, 148, 1732-1742	0
25	Reusable nickel foam supported 3D hierarchical Co□e□Ni mixed metal oxides with peroxidase-like activity as biosensors for the colorimetric detection of H2O2.	0
24	A mechanistic study of gold nanoparticles catalysis of O2 reduction by ascorbate and hydroethidine, investigating reactive oxygen species reactivity. **2023**, 13, 8557-8563	0
23	Influence of surface chemical properties of nanocrystalline CeO2 on phosphate adsorption and methyl-paraoxon decomposition. **2023**,	0
22	Advances in bovine serum albumin-protected gold nanoclusters: from understanding the formation mechanisms to biological applications. **2023**, 29, 101460	0
21	Nanotheranostics: application of nanosensors in diabetes management.	0
20	An electrochemical determination strategy for miRNA based on bimetallic nanozyme and toehold-mediated DNA replacement procedure. **2023**, 190,	0
19	Mn 3 O 4 Nanoparticles Alleviate ROS-Inhibited Root Apex Mitosis Activities to Improve Maize Drought Tolerance. 2200317	0
18	An In Situ Study on Nanozyme Performance to Optimize Nanozyme-Strip for A□Detection. **2023**, 23, 3414	0
17	Model of Chronoamperometric Response towards Glucose Sensing by Arrays of Gold Nanostructures Obtained by Laser, Thermal and Wet Processes. **2023**, 13, 1163	0
16	Artificial-enzymes-armed Bifidobacterium longum probiotics for alleviating intestinal inflammation and microbiota dysbiosis.	0
15	Molecular co-assembly of multicomponent peptides for the generation of nanomaterials with improved peroxidase activities.	0

14	Application of iron oxide nanoparticles in the diagnosis and treatment of leukemia. 14,	0
13	Management of infectious disease and biotoxin elimination using nanomaterials. **2023**, 149-174	0
12	Rhodium-Based Nanozymes: Recent Advances and Challenges.	0
11	Approaches to Improving the Selectivity of Nanozymes.	0
10	Target response controlled enzyme activity switch for multimodal biosensing detection. **2023**, 21,	0
9	Tuning the enzyme-like activity of peptide–nanoparticle conjugates with amino acid sequences.	0
8	Prussian Blue Nanozyme Treatment of Ischemic Brain Injury via Reducing Oxidative Stress Inhibits Inflammation, Suppresses Apoptosis, and Promotes Neurological Recovery.	0
7	Porous-nanozyme-based colorimetric sensor for rapid detection of kanamycin in foods under neutral condition.	0
6	Papaya latex mediated synthesis of prism shaped proteolytic gold nanozymes. **2023**, 13,	0
5	Engineering Single-Atom Nanozymes for Catalytic Biomedical Applications.	0
4	Elaborate Design and Mechanism Insight of Monodispersed AuCuPt Alloy Nanozyme with Promoted Antitumor Activity.	0
3	Tumor microenvironment-responsive modular integrated nanocomposites for magnetically targeted and photothermal enhanced catalytic therapy.	0
2	Intelligent Pd1.7Bi@CeO2 Nanosystem with Dual-Enzyme-Mimetic Activities for Cancer Hypoxia Relief and Synergistic Photothermal/Photodynamic/Chemodynamic Therapy. **2023**, 15, 21804-21818	0
1	The Rational Design of Nanozymes for Imaging Monitored Cancer Therapy.	0