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Horseradish peroxidase: a modern view of a classic enzyme

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998	Stereospecificity of horseradish peroxidase. 2004 , 385, 1177-84		9
997	Structural determinants of plant peroxidase function. 2004 , 3, 3-18		66
996	Nitric oxide and nitric oxide synthase activity in plants. <i>Phytochemistry</i> , 2004 , 65, 783-92	4	286
995	Performing the paradoxical: how plant peroxidases modify the cell wall. 2004 , 9, 534-40		584
994	Stereochemical determination and bioactivity assessment of (S)-(+)-curcuphenol dimers isolated from the marine sponge <i>Didiscus aceratus</i> and synthesized through laccase biocatalysis. 2005 , 13, 5600-12		63
993	Phosphorescence of individual horseradish peroxidases proteins having a modified heme group. 2005 , 401, 30-34		3
992	Phytoremediation of textile effluents containing azo dye by using <i>Phragmites australis</i> in a vertical flow intermittent feeding constructed wetland. 2005 , 25, 594-605		131
991	Applications of oxidoreductases: Recent progress. 2005 , 1, 38-50		191
990	Spectroscopic and kinetic properties of the horseradish peroxidase mutant T171S. Evidence for selective effects on the reduced state of the enzyme. 2005 , 272, 5514-21		11
989	Oligosaccharide analyses of glycopeptides of horseradish peroxidase by thermal-assisted partial acid hydrolysis and mass spectrometry. 2005 , 340, 1859-65		12
988	Optimalization of the peroxidase production by tissue cultures of horseradish in vitro. 2005 , 49, 487-492		8
987	Characterization of oligosaccharide moieties of glycopeptides by microwave-assisted partial acid hydrolysis and mass spectrometry. 2005 , 19, 1545-50		22
986	Cloning and molecular characterization of the basic peroxidase isoenzyme from <i>Zinnia elegans</i> , an enzyme involved in lignin biosynthesis. 2005 , 139, 1138-54		71
985	Interpretation of the reactivity of peroxidase compound II with phenols and anilines using the Marcus equation. 2005 , 386, 351-60		11
984	Characterization of the oxidase activity in mammalian catalase. 2005 , 280, 35372-81		104
983	Peroxidase activity of the hemeoctapeptide N-acetylmicroperoxidase-8. 2005 , 44, 6146-8		6

982	Preparing catalytic surfaces for sensing applications by immobilizing enzymes via hydrophobin layers. <i>Analytical Chemistry</i> , 2005 , 77, 1622-30	7.8	62
981	Reversible thermal inactivation and conformational states in denaturant guanidinium of a calcium-dependent peroxidase from <i>Euphorbia characias</i> . 2005 , 37, 205-11		11
980	Stepwise binding of nickel to horseradish peroxidase and inhibition of the enzymatic activity. 2005 , 1722, 312-23		11
979	New features of site-specific horseradish peroxidase (HRP) glycosylation uncovered by nano-LC-MS with repeated ion-isolation/fragmentation cycles. 2005 , 1723, 229-39		37
978	Role of Calcium on Phenolic Compounds and Enzymes Related to Lignification in Soybean (<i>Glycine max</i> L.) Root Growth. 2006 , 49, 69-76		12
977	Encapsulation of single enzyme in nanogel with enhanced biocatalytic activity and stability. 2006 , 128, 11008-9		265
976	Comparison of the binding and reactivity of plant and mammalian peroxidases to indole derivatives by computational docking. 2006 , 45, 2940-50		28
975	Dynamics of nitric oxide rebinding and escape in horseradish peroxidase. 2006 , 128, 1444-5		31
974	Antioxidant metabolism of coffee cell suspension cultures in response to cadmium. <i>Chemosphere</i> , 2006 , 65, 1330-7	8.4	147
973	Oxidation of acetylacetone catalyzed by horseradish peroxidase in the absence of hydrogen peroxide. 2006 , 1760, 1755-61		12
972	Conformational changes and activity alterations induced by nickel ion in horseradish peroxidase. 2006 , 88, 1183-97		17
971	Application of crude extract of kohlrabi (<i>Brassica oleracea gongylodes</i>) as a rich source of peroxidase in the spectrofluorometric determination of hydrogen peroxide in honey samples. 2006 , 22, 1201-6		19
970	Horseradish peroxidase thermostabilization: The combinatorial effects of the surface modification and the polyols. 2006 , 38, 118-125		44
969	Inactivation and structural change of horseradish peroxidase treated with supercritical carbon dioxide. <i>Food Chemistry</i> , 2006 , 97, 480-489	8.5	54
968	Resonance Raman spectroscopy of oxoiron(IV) porphyrin pi-cation radical and oxoiron(IV) hemes in peroxidase intermediates. 2006 , 100, 480-501		66
967	Enthalpy change and mechanism of oxidation of o-phenylenediamine by hydrogen peroxide catalyzed by horseradish peroxidase. 2006 , 443, 173-178		19
966	Isolation and characterization of the first putative peroxidase gene from oilseed rape (<i>Brassica napus</i>) which is highly homologous to HRPC. 2006 , 26, 263-80		4
965	Inactivation and reactivation of horseradish peroxidase treated with supercritical carbon dioxide. 2006 , 222, 105-111		21

964	Horseradish and soybean peroxidases: comparable tools for alternative niches?. 2006 , 24, 355-63		119
963	Effects of substituted metal-free porphyrins in apo-horseradish peroxidase. 2007 , 11, 836-845		
962	The prospects for peroxidase-based biorefining of petroleum fuels. 2007 , 25, 114-129		28
961	Substrate binding and protein conformational dynamics measured by 2D-IR vibrational echo spectroscopy. 2007 , 104, 2637-42		77
960	Determination of dopamine in injections and urine by an enzyme-catalyzed fluorescence quenching method. 2007 , 23, 1297-300		19
959	<i>Arthromyces ramosus</i> peroxidase produces two chlorinating species. 2007 , 355, 581-6		7
958	Adsorption behavior and activity of horseradish peroxidase onto polysaccharide-decorated particles. 2007 , 41, 404-9		17
957	ORIGINAL RESEARCH: An avidin-biotin immobilization approach for horseradish peroxidase and glucose oxidase on layered silicates with high catalytic activity retention and improved thermal behavior. 2007 , 3, 82-88		5
956	<i>Phragmites australis</i> peroxidases role in the degradation of an azo dye. 2007 , 56, 263-9		31
955	Immobilized horseradish peroxidase as a reusable catalyst for emulsion polymerization. 2007 , 23, 1981-7		24
954	Probing dynamics of complex molecular systems with ultrafast 2D IR vibrational echo spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1533-49	3.6	87
953	Protein and lipid oxidation during frozen storage of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 8118-25	5.7	107
952	Structural stabilization and functional improvement of horseradish peroxidase upon modification of accessible lysines: experiments and simulation. 2007 , 92, 1192-203		64
951	Isoflavonoids of the leguminosae. 2007 , 24, 417-64		148
950	. 2007 ,		9
949	Converting cytochrome C into a peroxidase-like metalloenzyme by molecular design. <i>ChemBioChem</i> , 2007 , 8, 607-9	3.8	32
948	Purification and characterization of an intracellular peroxidase from genetically transformed roots of red beet (<i>Beta vulgaris</i> L.). <i>Food Chemistry</i> , 2007 , 105, 1312-1320	8.5	35
947	Selection of horseradish peroxidase variants with enhanced enantioselectivity by yeast surface display. 2007 , 14, 1176-85		81

946	Direct electron transfer of horseradish peroxidase on Nafion-cysteine modified gold electrode. 2007 , 52, 6261-6267		60
945	Purification and characterization of olive (<i>Olea europaea</i> L.) peroxidase [Evidence for the occurrence of a pectin binding peroxidase. <i>Food Chemistry</i> , 2007 , 101, 1571-1579	8.5	44
944	Horseradish peroxidase cDNA as a marker for electron microscopy in neurons. 2007 , 165, 210-5		29
943	Peroxidase activity of de novo heme proteins immobilized on electrodes. 2007 , 101, 1820-6		49
942	Light-driven horseradish peroxidase cycle by using photo-activated methylene blue as the reducing agent. 2007 , 83, 1254-62		11
941	Structural motifs of syringyl peroxidases predate not only the gymnosperm-angiosperm divergence but also the radiation of tracheophytes. 2007 , 173, 63-78		40
940	Horseradish peroxidase in ionic liquids: Reactions with water insoluble phenolic substrates. 2007 , 44, 144-148		65
939	Enzymatic oxidation of aqueous pentachlorophenol. 2007 , 19, 1032-6		17
938	Enzymatic hydroxylation of aromatic compounds. 2007 , 64, 271-93		251
937	Post-translational modifications of the basic peroxidase isoenzyme from <i>Zinnia elegans</i> . 2007 , 65, 43-61		20
936	Barley peroxidase isozymes. 2007 , 268, 244-253		33
935	Spring cabbage peroxidases--potential tool in biocatalysis and bioelectrocatalysis. <i>Phytochemistry</i> , 2008 , 69, 627-36	4	19
934	One of the possible mechanisms for the inhibition effect of Tb(III) on peroxidase activity in horseradish (<i>Armoracia rusticana</i>) treated with Tb(III). 2008 , 13, 587-97		25
933	Azide ion as a quinone methide scavenger in the horseradish peroxidase catalyzed polymerization of sinapyl alcohol. 2008 , 54, 87-89		8
932	Engineering of <i>Thermus thermophilus</i> cytochrome c552: thermally tolerant artificial peroxidase. <i>ChemBioChem</i> , 2008 , 9, 2954-7	3.8	13
931	Regio- and stereoselective biomimetic synthesis of oligostilbenoid dimers from resveratrol analogues: influence of the solvent, oxidant, and substitution. 2008 , 14, 11376-84		65
930	Magnetically enhanced dielectrophoretic assembly of horseradish peroxidase molecules: chaining and molecular monolayers. 2008 , 9, 1847-50		10
929	Inhibition mechanism of Tb(III) on horseradish peroxidase activity. 2008 , 5, 2050-9		4

928	Spectroscopic studies of interactions involving horseradish peroxidase and Tb ³⁺ . 2008 , 70, 818-23		12
927	A third-generation hydrogen peroxide biosensor based on Horseradish Peroxidase (HRP) enzyme immobilized in a Nafion [®] Sonogel [®] Carbon composite. 2008 , 53, 7131-7137		81
926	Interaction of horseradish peroxidase with Langmuir monolayers of phospholipids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 321, 206-210	5.1	29
925	Are <i>Phragmites australis</i> enzymes involved in the degradation of the textile azo dye acid orange 7?. 2008 , 99, 243-51		45
924	A novel application of horseradish peroxidase: Oxidation of alcohol ethoxylate to alkylether carboxylic acid. 2008 , 19, 1411-1414		5
923	Biosensors based on bean sprout homogenate immobilized in chitosan microspheres and silica for determination of chlorogenic acid. 2008 , 43, 381-387		26
922	Can amino acids protect horseradish peroxidase against its suicide-peroxide substrate?. 2008 , 43, 329-335		14
921	Potential Applications of Oxidoreductases for the Re-oxidation of Leuco Vat or Sulfur Dyes in Textile Dyeing. 2008 , 8, 331-337		6
920	In vitro stimulatory effect of anti-apoptotic seminal vesicle protein 4 on purified peroxidase enzymes. 2008 , 275, 3870-83		3
919	Metabolomic and proteomic changes in the xylem sap of maize under drought. 2008 , 31, 325-40		255
918	Thermostability, solvent tolerance, catalytic activity and conformation of cofactor modified horseradish peroxidase. 2008 , 90, 1337-46		19
917	Consensus mutagenesis reveals that non-helical regions influence thermal stability of horseradish peroxidase. 2008 , 90, 1389-96		9
916	Subcellular location of horseradish peroxidase in horseradish leaves treated with La(III), Ce(III) and Tb(III). 2008 , 71, 677-84		17
915	Enhanced activity of horseradish peroxidase in Langmuir-Blodgett films of phospholipids. 2008 , 1778, 2291-7		72
914	Effects of rare earth elements on the distribution of mineral elements and heavy metals in horseradish. <i>Chemosphere</i> , 2008 , 73, 314-9	8.4	58
913	Specificity of afferent synapses onto plane-polarized hair cells in the posterior lateral line of the zebrafish. 2008 , 28, 8442-53		77
912	Activation and inactivation of horseradish peroxidase by cobalt ions. 2008 , 26, 83-92		7
911	Highly L and D enantioselective variants of horseradish peroxidase discovered by an ultrahigh-throughput selection method. 2008 , 105, 17694-9		42

910	Coherence spectroscopy investigations of the low-frequency vibrations of heme: effects of protein-specific perturbations. 2008 , 130, 5231-44	32
909	. 2009 ,	9
908	. 2009 ,	18
907	Specific functions of individual class III peroxidase genes. 2009 , 60, 391-408	275
906	Substrate oxidation sites in versatile peroxidase and other basidiomycete peroxidases. 2009 , 60, 441-52	206
905	Purification and characterization of black gram (<i>Vigna mungo</i>) husk peroxidase. 2009 , 60, 36-44	46
904	Horseradish peroxidase microcapsules based on layer-by-layer polyelectrolyte deposition. 2009 , 21 Suppl 1, S135-8	4
903	In-situ-Abbildung einzelner Enzym-Moleküle unter elektrochemischen Bedingungen. 2009 , 121, 5650-5652	1
902	Imaging single enzyme molecules under in situ conditions. 2009 , 48, 5542-4	18
901	Tissue printing to visualize polyphenol oxidase and peroxidase in vegetables, fruits, and mushrooms. 2009 , 37, 92-8	2
900	Revealing the anti-HRP epitope in <i>Drosophila</i> and <i>Caenorhabditis</i> . 2009 , 26, 385-95	60
899	Nitric Oxide Signalling In Plants. 2009 , 75, 203-229	74
898	DyP-type peroxidases comprise a novel heme peroxidase family. 2009 , 66, 1387-403	196
897	Photothermal control of the activity of HRP-functionalized gold nanoparticles. 2009 , 5, 2549-53	30
896	Labeling of biotin antibodies with horseradish peroxidase using cyanuric chloride. 2009 , 4, 452-60	13
895	Crystalline particles from self-assembled divinyl oligomers. 2009 , 29, 564-570	2
894	Enzyme activity of horseradish peroxidase immobilized in chitosan matrices in alternated layers. 2009 , 29, 1889-1892	17
893	A novel hydrogen peroxide biosensor based on horseradish peroxidase immobilized on gold nanoparticles/milk fibroin modified glassy carbon electrode and direct electrochemistry of horseradish peroxidase. 2009 , 137, 747-753	121

892	Effects of compressed fluids on the activity and structure of horseradish peroxidase. 2009 , 50, 162-168	28
891	Study of fluorescence quenching mechanism between quercetin and tyrosine-H ₂ O ₂ -enzyme catalyzed product. 2009 , 72, 572-6	19
890	Determination of berberine and the study of fluorescence quenching mechanism between berberine and enzyme-catalyzed product. 2009 , 73, 682-6	11
889	Biosensing at disk microelectrode arrays. Inter-electrode functionalisation allows formatting into miniaturised sensing platforms of enhanced sensitivity. 2009 , 25, 920-6	33
888	Biological functionality of active enzyme structures immobilized on various solid surfaces. 2009 , 9, 1454-1458	7
887	Mechanistic aspects of horseradish peroxidase elucidated through single-molecule studies. 2009 , 131, 6277-82	113
886	Stabilization of horseradish peroxidase by covalent conjugation with dextran aldehyde against temperature and pH changes. 2009 , 7, 423-428	18
885	How a single-point mutation in horseradish peroxidase markedly enhances enantioselectivity. 2009 , 131, 11155-60	7
884	Photosynthetic responses to heavy metal terbium stress in horseradish leaves. <i>Chemosphere</i> , 2009 , 77, 1019-25	8.4 26
883	Dietary antioxidants interfere with Amplex Red-coupled-fluorescence assays. 2009 , 388, 443-9	26
882	Fingerprinting antioxidative activities in plants. 2009 , 5, 2	23
881	A Phototransistor-Based High-Sensitivity Biosensing System Using 650-nm Light. 2009 , 9, 673-677	9
880	Advances in Applied Bioremediation. 2009 ,	36
879	Enzymatic and Nonenzymatic Degradation of Polyphenols. 101-129	4
878	Development and evaluation of kinetic spectrophotometric assays for horseradish peroxidase by catalytic coupling of paraphenylenediamine and mequinol. 2009 , 25, 1243-8	6
877	Nitric Oxide: Chemistry, Biosynthesis, and Physiological Role. 1-16	7
876	Development and characterization of rat monoclonal antibodies for N-acylated homoserine lactones. 2010 , 398, 2655-67	20
875	A robust and extracellular heme-containing peroxidase from <i>Thermobifida fusca</i> as prototype of a bacterial peroxidase superfamily. 2010 , 86, 1419-30	150

874	Thermal stability of bioactive enzymatic papers. 2010 , 75, 239-46		38
873	Analysis of peroxidase activity of rice (<i>Oryza sativa</i>) recombinant hemoglobin 1: implications for in vivo function of hexacoordinate non-symbiotic hemoglobins in plants. <i>Phytochemistry</i> , 2010 , 71, 21-6	4	15
872	Molecular and cellular mechanism of the effect of La(III) on horseradish peroxidase. 2010 , 15, 1063-9		15
871	Reactivity of syringyl quinone methide intermediates in dehydrogenative polymerization I: high-yield production of synthetic lignins (DHPs) in horseradish peroxidase-catalyzed polymerization of sinapyl alcohol in the presence of nucleophilic reagents. 2010 , 56, 233-241		11
870	Nitric oxide affecting root growth, lignification and related enzymes in soybean seedlings. 2010 , 32, 1039-1046	26	
869	Enzymatic polymerization of hydroxy-functionalized carbazole monomer. 2010 , 64, 89-95		35
868	Kinetic Study of Peroxidase-Catalyzed Coupling of Benzene-1,4-diamine and N-(2-Aminoethyl)naphthalen-1-amine: Development of Micromolar Hydrogen Peroxide Reaction System. 2010 , 93, 1227-1237		2
867	Horseradish peroxidase production from <i>Spodoptera frugiperda</i> larvae: A simple and inexpensive method. 2010 , 45, 835-840		11
866	Inhibition mechanism of lanthanum ion on the activity of horseradish peroxidase in vitro. 2010 , 75, 936-40		10
865	Identification and properties of insect resistance-associated maize anionic peroxidases. <i>Phytochemistry</i> , 2010 , 71, 1289-97	4	17
864	Compressed propane as a new and fast method of pre-purification of radish (<i>Raphanus sativus</i> L.) peroxidase. 2010 , 54, 153-158		4
863	Biosurface engineering through ink jet printing. 2010 , 75, 441-7		72
862	Direct electrochemistry of horseradish peroxidase on Nafion/[bmim]PF(6)/agarose composite film modified glassy carbon electrode. 2010 , 76, 44-9		19
861	Direct electrochemistry and bioelectrocatalysis of horseradish peroxidase based on gold nano-seeds dotted TiO ₂ nanocomposite. 2010 , 25, 2442-6		97
860	Luminol oxidation by hydrogen peroxide with chemiluminescent signal formation catalyzed by peroxxygenase from the fungus <i>Agrocybe aegerita</i> V.Brigh. 2010 , 46, 65-68		9
859	Total low-molecular-weight antioxidants as a summary parameter, quantified in biological samples by a chemiluminescence inhibition assay. 2010 , 5, 1627-34		23
858	Membrane targeted horseradish peroxidase as a marker for correlative fluorescence and electron microscopy studies. 2010 , 4, 6		46
857	Naringenin inhibits the growth and stimulates the lignification of soybean root. 2010 , 53, 533-542		18

856	Purification and Characterization of Olive (<i>Olea europaea</i> L.) Peroxidases. 2010 , 325-332		1
855	Ultrahigh-throughput screening in drop-based microfluidics for directed evolution. 2010 , 107, 4004-9		817
854	Euphorbia latex biochemistry: Complex interactions in a complex environment. 2010 , 144, 381-391		18
853	Polyphenol oxidase activity in the roots of seedlings of <i>Bromus</i> (Poaceae) and other grass genera. 2010 , 97, 1195-9		6
852	Phytic Acid-Based Layer-by-Layer Assembly for Fabrication of Mesoporous Gold Film and Its Biosensor Application. 2010 , 157, K5		14
851	Improvement of enzyme stability via non-covalent complex formation with dextran against temperature and storage lifetime. 2010 , 12, 12-16		19
850	Chemical processes responsible for quality deterioration in fish. 2010 , 439-465		5
849	Enzymatic polymer functionalisation: advances in laccase and peroxidase derived lignocellulose functional polymers. 2011 , 125, 47-68		12
848	Rational engineering of <i>Thermus thermophilus</i> cytochrome c552 to a thermally tolerant artificial peroxidase. 2010 , 39, 3105-14		9
847	Directing the oligomer size distribution of peroxidase-mediated cross-linked bovine alpha-lactalbumin. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5692-7	5-7	29
846	In situ forming hydrogels based on tyramine conjugated 4-Arm-PPO-PEO via enzymatic oxidative reaction. 2010 , 11, 706-12		139
845	Green, Enzymatic Syntheses of Divanillin and Diapocynin for the Organic, Biochemistry, or Advanced General Chemistry Laboratory. 2010 , 87, 526-527		37
844	Purification of peroxidase from Horseradish (<i>Armoracia rusticana</i>) roots. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 8471-6	5-7	81
843	Interaction between lanthanum ion and horseradish peroxidase in vitro. 2010 , 92, 41-50		21
842	Effects of heavy metal terbium on contents of cytosolic nutrient elements in horseradish cell. 2010 , 73, 1012-7		8
841	Detection of endogenous and immuno-bound peroxidase--the status quo in histochemistry. 2010 , 45, 81-139		19
840	Determination of thiodicarb using a biosensor based on alfalfa sprout peroxidase immobilized in self-assembled monolayers. 2010 , 82, 164-70		29
839	Prostaglandin H synthase: resolved and unresolved mechanistic issues. 2010 , 493, 103-24		73

838	Evolution and expression of class III peroxidases. 2010 , 500, 58-65	55
837	Toxic effect of heavy metal terbium ion on cell membrane in horseradish. <i>Chemosphere</i> , 2010 , 80, 28-34 8.4	21
836	Crosslinking food proteins for improved functionality. 2010 , 1, 113-38	155
835	Stability and Catalytic Kinetics of Horseradish Peroxidase Confined in Nanoporous SBA-15. 2010 , 114, 16174-16180	58
834	Bias-dependent photocurrent response in protein nanolayer-embedded solid state planar diode devices. 2010 , 2, 694-6	4
833	Introduction and Use of Horseradish (<i>Armoracia rusticana</i>) as Food and Medicine from Antiquity to the Present: Emphasis on the Nordic Countries. 2011 , 17, 197-213	20
832	Fluorescence decrease of conjugated polymers by the catalytic activity of horseradish peroxidase and its application in phenolic compounds detection. 2011 , 12, 1332-8	9
831	Effect of low molecular weight additives on immobilization strength, activity, and conformation of protein immobilized on PVC and UHMWPE. 2011 , 27, 6138-48	25
830	Identification of Microorganisms Using the Ribosomal RNA Approach and Fluorescence In Situ Hybridization. 2011 , 171-189	15
829	Poly(2-hydroxyethyl methacrylate) for enzyme immobilization: impact on activity and stability of horseradish peroxidase. 2011 , 12, 1822-30	51
828	Mode of bindings of zinc oxide nanoparticles to myoglobin and horseradish peroxidase: A spectroscopic investigations. 2011 , 110, 024701	12
827	Using Plants to Remove Foreign Compounds from Contaminated Water and Soil. 2011 , 149-189	7
826	New Trends in Fungal Biooxidation. 2011 , 425-449	4
825	Expressed sequence tags from heat-shocked seagrass <i>Zostera noltii</i> (Hornemann) from its southern distribution range. 2011 , 4, 181-8	20
824	Viability of plant spore exine capsules for microencapsulation. 2011 , 21, 975-981	65
823	Industrial Applications. 2011 ,	5
822	Fluorescence-tagged monolignols: synthesis, and application to studying in vitro lignification. 2011 , 12, 1752-61	32
821	Phosphate buffer effects on thermal stability and H ₂ O ₂ -resistance of horseradish peroxidase. 2011 , 48, 566-70	31

820	Preparation and characterization of bismuth oxide nanoparticles-multiwalled carbon nanotube composite for the development of horseradish peroxidase based H ₂ O ₂ biosensor. 2011 , 87, 15-23	55
819	Differential gene expression analysis of self-incompatible lines in tea by cDNA-AFLP. 2011 , 10, 10906-10913	7
818	Heat stable peroxidases from Vigna species (V). 2011 , 10, 3168-3175	2
817	Heterobifunctional Cross-Linkers. 2011 , 209-256	1
816	ROLE OF PEROXIDASE AND H ₂ O ₂ IN CROSS-LINKING OF GLUTEN PROTEINS. 2011 , 35, 1695-1702	15
815	Structural-functional features of plant isoperoxidases. 2011 , 76, 609-21	7
814	Horseradish peroxidase: modulation of properties by chemical modification of protein and heme. 2011 , 76, 1391-401	15
813	Isolation and partial characterization of phenol oxidases from Mangifera indica L. sap (latex). 2011 , 68, 30-36	17
812	Recombinant expression of Drosophila melanogaster β-L-fucosidase in Trichoplusia ni cells. 2011 , 57, 1205-11	1
811	Effect of substrate (ZnO) morphology on enzyme immobilization and its catalytic activity. 2011 , 6, 450	34
810	Bioelectrocatalytic and biosensing properties of horseradish peroxidase covalently immobilized on (3-aminopropyl)trimethoxysilane-modified titanate nanotubes. 2011 , 56, 9953-9960	18
809	A novel glass support for the immobilization and UV-activation of horseradish peroxidase for treatment of halogenated phenols. 2011 , 172, 792-792	10
808	Determination of L-tyrosine based on luminescence quenching of Mn-doped ZnSe quantum dots in enzyme catalysis system. 2011 , 21, 125-31	15
807	Rachiplusia nu larva as a biofactory to achieve high level expression of horseradish peroxidase. 2011 , 33, 947-56	10
806	Molecular Design of Heme Proteins for Future Application. 2011 , 15, 134-143	1
805	The formation of a new horseradish peroxidase binding rare earth. 2011 , 9, 191-196	2
804	Purification, biochemical characterization and cloning of a new cationic peroxidase isoenzyme from artichoke. 2011 , 49, 395-403	21
803	Investigating the structural and functional effects of mutating Asn glycosylation sites of horseradish peroxidase to Asp. 2011 , 164, 454-63	16

802	Enzymatic treatment and detoxification of acid orange 7 from textile wastewater. 2011 , 165, 1274-84	69
801	Toxic effect of terbium ion on horseradish cell. 2011 , 143, 1722-8	7
800	Predicting the functionally distinct residues in the heme, cation, and substrate-binding sites of peroxidase from stress-tolerant mangrove specie, <i>Avicennia marina</i> . 2011 , 16, 585-605	
799	Oxidation and removal of industrial textile dyes by a novel peroxidase extracted from post-harvest lentil (<i>Lens culinaris</i> L.) stubble. 2011 , 16, 821-829	13
798	Identification of cDNAs for jasmonic acid-responsive genes in <i>Polygonum minus</i> roots by suppression subtractive hybridization. 2011 , 33, 283-294	13
797	A dynamic method based on the specific substrate uptake rate to set up a feeding strategy for <i>Pichia pastoris</i> . 2011 , 10, 14	69
796	Horseradish peroxidase as a catalyst for atom transfer radical polymerization. 2011 , 32, 1710-5	110
795	Anionic peroxidase production by <i>Arnebia euchroma</i> callus. 2011 , 58, 456-63	7
794	Characterization of G-quadruplex/hemin peroxidase: substrate specificity and inactivation kinetics. 2011 , 17, 14475-84	79
793	Characterisation of an anionic peroxidase from horseradish cv. Balady. <i>Food Chemistry</i> , 2011 , 128, 725-730	32
792	A novel and efficient oxidative functionalization of lignin by layer-by-layer immobilised Horseradish peroxidase. 2011 , 19, 440-7	24
791	Novel multienzyme oxidative biocatalyst for lignin bioprocessing. 2011 , 19, 5071-8	39
790	Development of two highly sensitive immunoassays for detection of copper ions and a suite of relevant immunochemicals. 2011 , 702, 102-8	15
789	Wiring horseradish peroxidase on gold nanoparticles-based nanostructured polymeric network for the construction of mediatorless hydrogen peroxide biosensor. 2011 , 56, 4672-4677	50
788	Antibody-targeted horseradish peroxidase associated with indole-3-acetic acid induces apoptosis in vitro in hematological malignancies. 2011 , 35, 657-62	15
787	Biolabeling with nanoparticles based on Y2O3: Nd3+ and luminescence detection in the near-infrared. 2011 , 131, 727-731	20
786	Enzyme-catalyzed chemical structure-controlling template polymerization. 2011 , 7, 316-331	53
785	Identification of phenolic compounds in isolated vacuoles of the medicinal plant <i>Catharanthus roseus</i> and their interaction with vacuolar class III peroxidase: an H ₂ O ₂ affair?. 2011 , 62, 2841-54	121

784	Immobilization of horseradish peroxidase on silane-modified ceramics and their properties: potential for oily wastewater treatment. 2011 , 63, 1621-8	14
783	Mechanisms for covalent immobilization of horseradish peroxidase on ion-beam-treated polyethylene. 2012 , 2012, 126170	17
782	Obtention of plant peroxidase and its potential for the decolorization of the reactive dye Remazol Turquoise G 133%. 2012 , 65, 669-75	9
781	Study on the Photoelectric Properties of CdSe/MS Composite Film and its Potential Application in Biosensor Field. 2012 , 560-561, 688-693	
780	Calcium promotes activity and confers heat stability on plant peroxidases. 2012 , 7, 650-60	20
779	Biosensors for drug testing and discovery. 2012 , 233-262	3
778	Computational studies on a new cationic peroxidase isoenzyme from artichoke leaves. 2012 , 3, 60-6	
777	Extremely slow photocurrent response from hemoprotein films in planar diode geometry. 2012 , 101, 223701	5
776	De novo design, synthesis and characterisation of MP3, a new catalytic four-helix bundle hemeprotein. 2012 , 18, 15960-71	28
775	Horseradish peroxidase immobilized on the silane-modified ceramics for the catalytic oxidation of simulated oily water. 2012 , 89, 206-211	19
774	Purification of a recombinant plant peroxidase produced in <i>Pichia pastoris</i> by a simple 2-step strategy. 2012 , 86, 89-97	31
773	Live diatom silica immobilization of multimeric and redox-active enzymes. 2012 , 78, 211-8	47
772	Ultrasensitive detection of phenolic compounds based on a spin-labeled luminescent lanthanide complex. 2012 , 137, 710-5	4
771	Novel porous silica encapsulated Au nanoreactors as peroxidase mimic for one-pot glucose detection. <i>New Journal of Chemistry</i> , 2012 , 36, 2625	3.6 14
770	Enzymatic colouration with laccase and peroxidases: Recent progress. 2012 , 30, 125-140	26
769	Screening of postharvest agricultural wastes as alternative sources of peroxidases: characterization and kinetics of a novel peroxidase from lentil (<i>Lens culinaris</i> L.) stubble. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4765-72	5.7 8
768	Evaluation of seven cosubstrates in the quantification of horseradish peroxidase enzyme by square wave voltammetry. 2012 , 88, 468-76	26
767	Biotin determination in food supplements by an electrochemical magneto biosensor. 2012 , 97, 484-90	35

766	Biosensor based on atemoya peroxidase immobilised on modified nanoclay for glyphosate biomonitoring. 2012 , 98, 130-6	51
765	Glass carbon electrode modified with horseradish peroxidase immobilized on partially reduced graphene oxide for detecting phenolic compounds. 2012 , 681, 49-55	55
764	Redox active molecules cytochrome c and vitamin C enhance heme-enzyme peroxidations by serving as non-specific agents for redox relay. 2012 , 419, 211-4	19
763	A natural vanishing act: the enzyme-catalyzed degradation of carbon nanomaterials. 2012 , 45, 1770-81	130
762	Radical localization in a series of symmetric Ni(II) complexes with oxidized salen ligands. 2012 , 18, 14117-27	67
761	DNA-directed immobilization of horseradish peroxidase onto porous SiO ₂ optical transducers. 2012 , 7, 443	25
760	Highly sensitive hydrogen peroxide biosensors based on TiO ₂ nanodots/ITO electrodes. 2012 , 22, 9019	32
759	Quality assurance in immunoassay performance-temperature effects. 2012 , 4, 901	17
758	Cyanide binding to human plasma heme-hemopexin: a comparative study. 2012 , 428, 239-44	2
757	Reducing odorous VOC emissions from swine manure using soybean peroxidase and peroxides. 2012 , 124, 95-104	15
756	Biocatalytic oxidation of phenolic compounds by bovine methemoglobin in the presence of H ₂ O ₂ : quantitative structure-activity relationships. 2012 , 241-242, 207-15	13
755	Reactions Involving Oxidases and Peroxidases. 2012 , 303-432	
754	Living target of Ce(III) action on horseradish cells: proteins on/in cell membrane. 2012 , 150, 396-402	6
753	Picking faces out of a crowd: genetic labels for identification of proteins in correlated light and electron microscopy imaging. 2012 , 111, 139-55	52
752	Red Beet Biotechnology. 2012 ,	16
751	Low concentration of silver nanoparticles not only enhances the activity of horseradish peroxidase but alter the structure also. 2012 , 7, e41422	26
750	DyP-type Peroxidases: A Promising and Versatile Class of Enzymes. 2012 , 01,	5
749	A proteomics approach to the cell-surface interactome using the enzyme-mediated activation of radical sources reaction. 2012 , 12, 54-62	52

748	Assembly of graphene oxide-enzyme conjugates through hydrophobic interaction. 2012 , 8, 154-9	213
747	Reactive oxygen species and their role in plant defence and cell wall metabolism. 2012 , 236, 765-79	337
746	Self-Assembled Complexes of Horseradish Peroxidase with Magnetic Nanoparticles Showing Enhanced Peroxidase Activity. 2012 , 22, 1940-1951	28
745	Correlating DFT-calculated energy barriers to experiments in nonheme octahedral Fe(IV)O species. 2012 , 18, 10444-53	20
744	The effect of chemical modification with pyromellitic anhydride on structure, function, and thermal stability of horseradish peroxidase. 2012 , 167, 489-97	8
743	Enhanced enzyme activity through electron transfer between single-walled carbon nanotubes and horseradish peroxidase. 2012 , 50, 1303-1310	19
742	Nano reengineering of horseradish peroxidase with dendritic macromolecules for stability enhancement. 2012 , 50, 10-6	12
741	Enzyme-catalyzed crosslinkable hydrogels: emerging strategies for tissue engineering. 2012 , 33, 1281-90	373
740	Reactive metabolites of desipramine and clomipramine: The kinetics of formation and reactivity with DNA. 2012 , 20, 340-5	4
739	Facile synthesis of new periodic mesoporous organosilica and its performance of immobilizing horseradish peroxidase. 2012 , 155, 24-33	22
738	Experimental design and MM2BM6 molecular modelling of hematin as a peroxidase-like catalyst in Alizarin Red S degradation. 2012 , 355, 44-60	12
737	Purification and characterization of a novel thermal stable peroxidase from <i>Jatropha curcas</i> leaves. 2012 , 77, 59-66	24
736	Chemical modification of Horseradish peroxidase with carboxylic anhydrides: Effect of negative charge and hydrophilicity of the modifiers on thermal stability. 2012 , 80, 15-19	13
735	Enzyme microcapsules with substrate selective permeability constructed via layer-by-layer polyelectrolyte self-assembly. 2012 , 32, 569-573	9
734	Physical features of ultrasound assisted enzymatic degradation of recalcitrant organic pollutants. 2012 , 19, 104-18	49
733	Functionalization of oxidases with peroxidase activity creates oxiperoxidases: a new breed of hybrid enzyme capable of cascade chemistry. <i>ChemBioChem</i> , 2012 , 13, 252-8	3.8 3
732	Oxidation activity of horseradish peroxidase hosted in molecular sieves: spectroscopic investigations show hindering of the enzyme activity. 2012 , 105, 195-205	2
731	<i>Hevea brasiliensis</i> cell suspension peroxidase: purification, characterization and application for dye decolorization. 2013 , 3, 14	28

730	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1921-32	18.5	136
729	Degradation of multiwall carbon nanotubes by bacteria. 2013 , 181, 335-9		89
728	Enzymatic assay for Cu(II) with horseradish peroxidase and its application in colorimetric logic gate. <i>Analytical Chemistry</i> , 2013 , 85, 7029-32	7.8	55
727	Enzymatic decolorization of anthraquinone and diazo dyes using horseradish peroxidase enzyme immobilized onto various polysulfone supports. 2013 , 171, 716-30		29
726	Recent History of Heme-Containing Proteins: Advances in Structure, Functions, and Reaction Intermediate Determination. 2013 , 65-102		2
725	Fe(III)-Heme Complexes with the Amyloid Beta Peptide of Alzheimer's Disease: QM/MM Investigations of Binding and Redox Properties of Heme Bound to the His Residues of A β (1-42). 2013 , 9, 4233-42		7
724	Preparation of aqueous polyaniline-vesicle suspensions with class III peroxidases. Comparison between horseradish peroxidase isoenzyme C and soybean peroxidase. 2013 , 67,		21
723	Purification and characterization of peroxidases from liquid endosperm of <i>Cocos nucifera</i> (L.): Biotransformation. 2013 , 90, 33-42		10
722	Surface-initiated dehydrogenative polymerization of monolignols: a quartz crystal microbalance with dissipation monitoring and atomic force microscopy study. 2013 , 14, 3964-72		16
721	Subpicogram per milliliter detection of interleukins using silicon photonic microring resonators and an enzymatic signal enhancement strategy. <i>Analytical Chemistry</i> , 2013 , 85, 10653-7	7.8	44
720	The nonheme iron in photosystem II. 2013 , 116, 295-314		31
719	A novel ultrasensitive bioluminescent receptor-binding assay of INSL3 through chemical conjugation with nanoluciferase. 2013 , 95, 2454-9		21
718	Improved activity of immobilized horseradish peroxidase on gold nanoparticles in the presence of bovine serum albumin. 2013 , 15, 1		13
717	7-Hydroxycoumarin modulates the oxidative metabolism, degranulation and microbial killing of human neutrophils. 2013 , 206, 63-75		13
716	Enzyme responsive materials: design strategies and future developments. 2013 , 1, 11-39		233
715	Amperometric biosensor based on reductive H ₂ O ₂ detection using pentacyanoferrate-bound polymer for creatinine determination. 2013 , 767, 128-33		32
714	Enzyme-catalyzed protein crosslinking. 2013 , 97, 461-75		195
713	A novel membrane-based process to isolate peroxidase from horseradish roots: optimization of operating parameters. 2013 , 36, 251-7		1

712	Impacts of Dissolved Organic Matter on the Removal of 17 β -Estradiol Using Horseradish Peroxidase. 2013 , 224, 1		8
711	Application of horseradish peroxidase modified nanostructured Au thin films for the amperometric detection of 4-chlorophenol. 2013 , 103, 129-35		25
710	Enzymatic oxidation of rutin by horseradish peroxidase: kinetic mechanism and identification of a dimeric product by LC-Orbitrap mass spectrometry. <i>Food Chemistry</i> , 2013 , 141, 4194-9	8.5	20
709	HRG1 is essential for heme transport from the phagolysosome of macrophages during erythrophagocytosis. 2013 , 17, 261-70		135
708	Physiological Role of Nitric Oxide in Plants Grown Under Adverse Environmental Conditions. 2013 , 269-322		42
707	Temperature-responsive mixed-shell polymeric micelles for the refolding of thermally denatured proteins. 2013 , 19, 7437-42		45
706	Photoreaction of a hydroxyalkylphenone with the membrane of polymersomes: a versatile method to generate semipermeable nanoreactors. 2013 , 135, 9204-12		96
705	Electrostatic and steric interaction between redox polymers and some flavoenzymes in mediated bioelectrocatalysis. 2013 , 689, 26-30		8
704	Importance of nitric oxide in cadmium stress tolerance in crop plants. 2013 , 63, 254-61		162
703	Highly sensitive conductometric biosensors for total lactate, d- and l-lactate determination in dairy products. 2013 , 179, 232-239		16
702	Organic/inorganic hybrid mesoporous silica membrane rapidly synthesized by a microwave-assisted method and its application in enzyme adsorption and electrocatalysis. 2013 , 1, 3267-3276		13
701	Immobilization of water-soluble HRP within poly-N-isopropylacrylamide microgel particles for use in organic media. 2013 , 29, 16002-9		29
700	Peroxidase immobilized on phospholipid bilayers supported on Au (111) by DTT self-assembled monolayers: application to dopamine determination. 2013 , 110, 374-82		20
699	Immobilization of Enzymes and Redox Proteins and Their Electrochemical Biosensor Applications. 2013 , 50, 35-41		10
698	Production and purification of the multifunctional enzyme horseradish peroxidase. 2013 , 1, 283-295		32
697	The interaction of diamines and polyamines with the peroxidase-catalyzed metabolism of aromatic amines: a potential mechanism for the modulation of aniline toxicity. 2013 , 91, 228-35		6
696	Co-Immobilization of Peroxidase and Tyrosinase onto Hybrid Membranes Obtained by the Sol-Gel Method for the Construction of an Optical Biosensor. 2013 , 27, 3885-3889		6
695	Knockout of an endogenous mannosyltransferase increases the homogeneity of glycoproteins produced in <i>Pichia pastoris</i> . 2013 , 3, 3279		51

694	Improvement of pro-oxidant capacity of protocatechuic acid by esterification. 2014 , 9, e110277	28
693	Cytochrome c: A Multifunctional Protein Combining Conformational Rigidity with Flexibility. 2014 , 2014, 1-28	18
692	Activation volumes of enzymes adsorbed on silica particles. 2014 , 30, 15496-503	11
691	Fabrication of enzyme-degradable and size-controlled protein nanowires using single particle nano-fabrication technique. <i>Nature Communications</i> , 2014 , 5, 3718	17.4 34
690	Influences of Mg Doping on the Electrochemical Performance of TiO ₂ Nanodots Based Biosensor Electrodes. 2014 , 2014, 1-8	2
689	Effect of polymer support functionalization on enzyme immobilization and catalytic activity. 2014 , 86, 1793-1803	1
688	Electrochemically Reduced Graphene Oxide on Electrochemically Roughened Gold as a Support for Horseradish Peroxidase. 2014 , 118, 29731-29738	15
687	Hierarchical hybrid peroxidase catalysts for remediation of phenol wastewater. 2014 , 15, 974-80	8
686	Mechanical Strategies to Increase Nutritional and Sensory Quality of Virgin Olive Oil by Modulating the Endogenous Enzyme Activities. 2014 , 13, 135-154	101
685	Glyco-variant library of the versatile enzyme horseradish peroxidase. 2014 , 24, 852-63	16
684	Nanomaterials for biosensing applications: a review. 2014 , 2, 63	587
683	Roles of horseradish peroxidase in response to terbium stress. 2014 , 161, 130-5	4
682	A new conductometric biosensor based on horseradish peroxidase immobilized on chitosan and chitosan/gold nanoparticle films. 2014 , 34, 633-638	9
681	Effect of architecture on the activity of glucose oxidase/horseradish peroxidase/carbon nanoparticle conjugates. 2014 , 414, 73-81	27
680	Studies on the meso-sized selectivity of a novel organic/inorganic hybrid mesoporous silica membrane. 2014 , 457, 9-18	16
679	Modification of lysine residues of horseradish peroxidase and its effect on stability and structure of the enzyme. 2014 , 172, 3558-69	14
678	Protein Based Electrochemical Biosensors for H ₂ O ₂ Detection Towards Clinical Diagnostics. 2014 , 26, 1259-1276	26
677	Stabilization of food dispersions by enzymes. 2014 , 5, 198-213	51

676	Chitosan-g-hematin: enzyme-mimicking polymeric catalyst for adhesive hydrogels. 2014 , 10, 224-33		53
675	DyP-type peroxidases: a promising and versatile class of enzymes. 2014 , 41, 1-7		124
674	Enzymatic degradation of azo dyes using three macrophyte species: <i>Arundo donax</i> , <i>Typha angustifolia</i> and <i>Phragmites australis</i> . 2014 , 1-10		3
673	Post-translational modification and extended glycosylation pattern of a plant latex peroxidase of native source characterized by X-ray crystallography. 2014 , 281, 4319-33		9
672	Enzymatically cross-linked hyperbranched polyglycerol hydrogels as scaffolds for living cells. 2014 , 15, 3881-90		29
671	Citrate-capped platinum nanoparticle as a smart probe for ultrasensitive mercury sensing. <i>Analytical Chemistry</i> , 2014 , 86, 10955-60	7.8	203
670	Electrocatalytic O ₂ reduction by a monolayer of hemin: the role of pK(a) of distal and proximal oxygen of a Fe(III)-OOH species in determining reactivity. <i>Chemical Communications</i> , 2014 , 50, 12304-7	5.8	26
669	Enzymatic Degradation of Oxidized and Reduced Graphene Nanoribbons by Lignin Peroxidase. 2014 , 2, 6354-6362		73
668	Interactions of macromolecular crowding agents and cosolutes with small-molecule substrates: effect on horseradish peroxidase activity with two different substrates. 2014 , 118, 10624-32		53
667	Development of HRP-mediated enzymatic polymerization under heterogeneous conditions for the preparation of functional particles. 2014 , 46, 373-380		11
666	Synthesis and Characterization of Dextran ^{yl} pyramine-Based H ₂ O ₂ -Sensitive Microgels. 2014 , 47, 6067-6076		9
665	Highly tunable elastomeric silk biomaterials. 2014 , 24, 4615-4624		265
664	Guaiacol peroxidase zymography for the undergraduate laboratory. 2014 , 42, 420-6		7
663	Single-molecule enzymatic conformational dynamics: spilling out the product molecules. 2014 , 118, 9128-40		17
662	Poly(N-vinylpyrrolidone)-poly(dimethylsiloxane)-based polymersome nanoreactors for laccase-catalyzed biotransformations. 2014 , 15, 1469-75		46
661	Horseradish peroxidase (HRP) as a tool in green chemistry. <i>RSC Advances</i> , 2014 , 4, 37244-37265	3.7	71
660	Fe(III) bipyrrrolidine phenoxide complexes and their oxidized analogues. 2014 , 53, 5810-9		12
659	Insights into the impact of deep eutectic solvents on horseradish peroxidase: Activity, stability and structure. 2014 , 101, 101-107		100

658	Enzymatic etching of gold nanorods by horseradish peroxidase and application to blood glucose detection. 2014 , 6, 7405-9	102
657	Oxidation of polycyclic aromatic hydrocarbons by horseradish peroxidase in water containing an organic cosolvent. 2014 , 21, 10696-705	13
656	Purification and characterization of novel cationic peroxidases from <i>Asparagus acutifolius</i> L. with biotechnological applications. 2014 , 56, 738-46	8
655	Peroxidase gene discovery from the horseradish transcriptome. 2014 , 15, 227	21
654	A novel biomimetic catalyst templated by montmorillonite clay for degradation of 2,4,6-trichlorophenol. 2014 , 254, 276-282	12
653	Heterologous production of horseradish peroxidase C1a by the basidiomycete yeast <i>Cryptococcus</i> sp. S-2 using codon and signal optimizations. 2014 , 98, 7893-900	7
652	Enzyme-polysaccharide interaction: a method for improved stability of horseradish peroxidase. 2014 , 69, 329-35	20
651	Cross reactivity between ascorbate peroxidase and phenol (guaiacol) peroxidase. 2014 , 95, 64-69	31
650	Extract from <i>Armoracia rusticana</i> and its flavonoid components protect human lymphocytes against oxidative damage induced by hydrogen peroxide. 2014 , 19, 3160-72	14
649	Immobilization as a strategy for improving enzyme properties-application to oxidoreductases. 2014 , 19, 8995-9018	326
648	Influence of bioactive linker molecules on protein adsorption. 2014 , 46, 193-197	11
647	Bio-based Wrinkled Surfaces Harnessed from Biological Design Principles of Wood and Peroxidase Activity. 2015 , 8, 3892-6	14
646	Faradic Peaks Enhanced by Carbon Nanotubes in Microsomal Cytochrome P450 Electrodes. 2015 , 27, 1507-1515	2
645	Covalent Incorporation of Trehalose within Hydrogels for Enhanced Long-Term Functional Stability and Controlled Release of Biomacromolecules. 2015 , 4, 1802-12	16
644	Restriction site free cloning (RSFC) plasmid family for seamless, sequence independent cloning in <i>Pichia pastoris</i> . 2015 , 14, 103	24
643	Bioepoxidation of isosafrol catalyzed by radish and turnip peroxidases. 2015 , 14, 1074-1080	2
642	Graphene-Based Nanomaterials as Efficient Peroxidase Mimetic Catalysts for Biosensing Applications: An Overview. 2015 , 20, 14155-90	97
641	Purpose-Oriented Antibody Libraries Incorporating Tailored CDR3 Sequences. 2015 , 4, 103-122	2

640	Evaluating strategies to improve glucosinolate concentration and root yield of field-grown horseradish in a Mediterranean environment: preliminary results. 2015 , 10, 65	3
639	Synthesis of copper ion incorporated horseradish peroxidase-based hybrid nanoflowers for enhanced catalytic activity and stability. 2015 , 44, 13845-52	113
638	Biological Toxins and Bioterrorism. 2015 ,	1
637	A VDEbrdered mesoporous carbon composite with novel peroxidase-like activity towards the glucose colorimetric assay. 2015 , 7, 11678-85	86
636	Characterization of Plant Peroxidases and Their Potential for Degradation of Dyes: a Review. 2015 , 176, 1529-50	40
635	Enzymatic modification of dairy product texture. 2015 , 71-97	5
634	Enhancement of Direct Electrocatalytic Activity of Horseradish Peroxidase on Polyaniline Nanotubes. 2015 , 119, 12514-12522	9
633	Ultrafast 2D-IR spectroscopy of haemoproteins. 2015 , 34, 361-383	15
632	Alternate hot and cold electrodes. 2015 , 61, 129-133	5
631	Optimization of enzyme immobilization on magnetic microparticles using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC) as a crosslinking agent. 2015 , 7, 10291-10298	30
630	Plants, Pollutants and Remediation. 2015 ,	16
629	Plants for Remediation: Uptake, Translocation and Transformation of Organic Pollutants. 2015 , 241-308	9
628	Chemoenzymatic polycondensation of para-benzylamino phenol. 2015 ,	3
627	Molecular-level insights into intrinsic peroxidase-like activity of nanocarbon oxides. 2015 , 21, 960-4	47
626	Simultaneous detection of hydrogen peroxide and glucose in human serum with upconversion luminescence. 2015 , 68, 204-209	90
625	Examining the freezing process of an intermediate bulk containing an industrially relevant protein. 2015 , 71, 13-9	11
624	Purification and Biochemical Characterization of Peroxidase Isolated from White Cabbage (<i>Brassica Oleracea</i> var. <i>capitata</i> f. <i>alba</i>). 2015 , 18, 2099-2109	15
623	Crystal structure analysis of peroxidase from the palm tree <i>Chamaerops excelsa</i> . 2015 , 111, 58-69	14

622	Molecular characterization of fruit-specific class III peroxidase genes in tomato (<i>Solanum lycopersicum</i>). 2015 , 177, 83-92	3
621	Tough biohydrogels with interpenetrating network structure by bienzymatic crosslinking approach. 2015 , 72, 717-725	15
620	Modeling of enhanced catalysis in multienzyme nanostructures: effect of molecular scaffolds, spatial organization, and concentration. 2015 , 11, 286-92	31
619	Mimicking peroxidase activity by a polymer-supported oxidovanadium(IV) Schiff base complex derived from salicylaldehyde and 1,3-diamino-2-hydroxypropane. 2015 , 147, 181-92	19
618	Size-dependent tuning of horseradish peroxidase bioreactivity by gold nanoparticles. 2015 , 7, 4505-13	22
617	Techno-economic analysis of horseradish peroxidase production using a transient expression system in <i>Nicotiana benthamiana</i> . 2015 , 175, 841-54	41
616	Photonic lab-on-chip (PhLOC) for enzyme-catalyzed reactions in continuous flow. 2015 , 18, 1277-1286	11
615	Qualitative and quantitative detection of T7 bacteriophages using paper based sandwich ELISA. 2015 , 132, 264-70	30
614	Heme precursor injection is effective for <i>Arthromyces ramosus</i> peroxidase fusion protein production by a silkworm expression system. 2015 , 120, 384-6	4
613	Designing Hydrophobically Modified Polysaccharide Derivatives for Highly Efficient Enzyme Immobilization. 2015 , 16, 2403-11	34
612	Metalloisoporphyrins: from synthesis to applications. 2015 , 44, 15742-56	16
611	Highly Active Biocatalytic Coatings from Protein-Polymer Diblock Copolymers. 2015 , 7, 14660-9	34
610	Nickel(ii) radical complexes of thiosemicarbazone ligands appended by salicylidene, aminophenol and aminothiophenol moieties. 2015 , 44, 12743-56	23
609	ELISA. 2015 ,	15
608	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
607	Evaluation of enzymatically crosslinked injectable glycol chitosan hydrogel. 2015 , 3, 5511-5522	33
606	Applications of HRP-immobilized catalytic beads to the removal of 2,4-dichlorophenol from wastewater. <i>RSC Advances</i> , 2015 , 5, 57286-57292	3.7 27
605	Exploring the process-structure-function relationship of horseradish peroxidase through investigation of pH- and heat induced conformational changes. 2015 , 147, 43-50	16

604	An artificial heme-enzyme with enhanced catalytic activity: evolution, functional screening and structural characterization. 2015 , 13, 4859-68		31
603	Effects of terbium (III) on signaling molecules in horseradish. 2015 , 164, 122-9		3
602	Biomimetic Total Syntheses of (+)-Dihydrolyfoline and (-)-5-epi-Dihydrolyfoline. 2015 , 17, 2230-3		17
601	Thermal stability and degradation kinetics of polyphenols and polyphenylenediamines enzymatically synthesized by horseradish peroxidase. 2015 , 32, 1847-1852		5
600	Novel Nanobiosensing Using a Focused Laser Beam. 2015 , 167-178		
599	Nanobiosensors and Nanobioanalyses. 2015 ,		7
598	A new generation of flowerlike horseradish peroxidases as a nanobiocatalyst for superior enzymatic activity. 2015 , 75-76, 25-9		74
597	Effective Synergistic Effect of Dipeptide-Polyoxometalate-Graphene Oxide Ternary Hybrid Materials on Peroxidase-like Mimics with Enhanced Performance. 2015 , 7, 22036-45		77
596	Biocatalytic etching of semiconductor cadmium sulfide nanoparticles as a new platform for the optical detection of analytes. <i>Chemical Communications</i> , 2015 , 51, 17152-5	5.8	10
595	Nitric Oxide and High Temperature Stress: A Physiological Perspective. 2015 , 77-93		7
594	Enzyme-Initiated Reversible Addition-Fragmentation Chain Transfer Polymerization. 2015 , 48, 7792-7802		113
593	Electrochemical Biosensors for Drug Analysis. 2015 , 141-186		1
592	Hippo pathway elements Co-localize with Occludin: A possible sensor system in pancreatic epithelial cells. 2015 , 3, e1037948		8
591	Synergistic effect of sandwich polyoxometalates and copperimidazole complexes for enhancing the peroxidase-like activity. <i>RSC Advances</i> , 2015 , 5, 78771-78779	3.7	31
590	Investigating the effect of gallium curcumin and gallium diacetylcurcumin complexes on the structure, function and oxidative stability of the peroxidase enzyme and their anticancer and antibacterial activities. 2015 , 20, 1135-46		8
589	Temperature-Invariant Aqueous Microgels as Hosts for Biomacromolecules. 2015 , 16, 3134-44		8
588	Bioconjugation of Antibodies to Horseradish Peroxidase (HRP). 2015 , 1318, 43-50		6
587	Peroxidase-like oxidative activity of a manganese-coordinated histidyl bolaamphiphile self-assembly. 2015 , 7, 17063-70		29

586	Prussian blue modified metal-organic framework MIL-101(Fe) with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. <i>RSC Advances</i> , 2015 , 5, 98215-98221	3-7	58
585	Stability and structural changes of horseradish peroxidase: microwave versus conventional heating treatment. 2015 , 69, 10-8		38
584	Colorimetric detection of <i>Shewanella oneidensis</i> based on immunomagnetic capture and bacterial intrinsic peroxidase activity. 2014 , 4, 5191		27
583	Peroxidase-mediated conjugation of corn fiber gum and bovine serum albumin to improve emulsifying properties. 2015 , 118, 70-8		45
582	Exploitation of neglected horseradish peroxidase isoenzymes for dye decolorization. 2015 , 97, 124-127		7
581	Horseradish peroxidase-catalysed in situ-forming hydrogels for tissue-engineering applications. 2015 , 9, 1225-32		78
580	Protein adsorption onto nanomaterials for the development of biosensors and analytical devices: a review. 2015 , 872, 7-25		166
579	Poly(methyl methacrylate) particles for local drug delivery using shock wave lithotripsy: In vitro proof of concept experiment. 2015 , 103, 1228-37		8
578	Direct and mediated electrochemistry of peroxidase and its electrocatalysis on a variety of screen-printed carbon electrodes: amperometric hydrogen peroxide and phenols biosensor. 2015 , 407, 439-46		34
577	Toxic effects of heavy metal terbium ion on the composition and functions of cell membrane in horseradish roots. 2015 , 111, 48-58		26
576	Amperometric inhibition biosensors based on horseradish peroxidase and gold sononanoparticles immobilized onto different electrodes for cyanide measurements. 2015 , 101, 84-91		46
575	Peroxidase-like activity of apoferritin paired gold clusters for glucose detection. 2015 , 64, 165-70		154
574	Enzymatic decolourisation of Methyl Orange and Bismarck Brown using crude peroxidase from <i>Azadirachta indica</i> . 2015 , 5, 397-406		3
573	Efficiency of Carbohydrate Additives on the Stability of Horseradish Peroxidase (HRP): HRP-Catalyzed Removal of Phenol and Malachite Green Decolorization from Wastewater. 2015 , 43, 846-856		11
572	Native and Synthetic G-quartet-based DNAzyme Systems [Artificial Enzymes for Biotechnological Applications. 2016 ,		1
571	6. Bacterial dye-decolorizing peroxidases. 2016 , 107-130		
570	ELF-EMF exposure decreases the peroxidase catalytic efficiency in vitro. 2016 , 11, 71-77		4
569	Bacterial dye-decolorizing peroxidases: Biochemical properties and biotechnological opportunities. 2016 , 1,		7

568	Radical-Mediated Enzymatic Polymerizations. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	44
567	Carbon Nanodots as Peroxidase Nanozymes for Biosensing. 2016 , 21,		86
566	Role of Silicon Counteracting Cadmium Toxicity in Alfalfa (<i>Medicago sativa</i> L.). 2016 , 7, 1117		48
565	An Important Milk Enzyme: Lactoperoxidase. 2016 ,		8
564	Refolding of horseradish peroxidase is enhanced in presence of metal cofactors and ionic liquids. 2016 , 11, 464-72		11
563	Directed Evolution of Enzymes for Industrial Biocatalysis. <i>ChemBioChem</i> , 2016 , 17, 197-203	3.8	135
562	ROS Homeostasis Regulates Somatic Embryogenesis via the Regulation of Auxin Signaling in Cotton. 2016 , 15, 2108-24		36
561	Probing conformational dynamics of an enzymatic active site by an in situ single fluorogenic probe under piconewton force manipulation. 2016 , 113, 15006-15011		14
560	Transformation and Products of Organic Micropollutant in Water during Electro-Enzymatic Catalysis. 2016 , 147-161		
559	Production strategies for active heme-containing peroxidases from inclusion bodies - a review. 2016 , 10, 75-83		22
558	Heme-coordinated histidine residues form non-specific functional "ferritin-heme" peroxidase system: Possible and partial mechanistic relevance to oxidative stress-mediated pathology in neurodegenerative diseases. 2016 , 91, 368-80		6
557	Nanogel containing electrospun nanofibers as a platform for stable loading of proteins. <i>RSC Advances</i> , 2016 , 6, 40811-40817	3.7	7
556	Methods to Detect Nitric Oxide in Plants: Are DAFs Really Measuring NO?. 2016 , 1424, 57-68		9
555	Optical Biosensors Based on Nitrogen-Doped Graphene Functionalized with Magnetic Nanoparticles. 2016 , 3, 1600590		31
554	Low potential detection of indole-3-acetic acid based on the peroxidase-like activity of hemin/reduced graphene oxide nanocomposite. 2016 , 86, 871-878		26
553	Co-assembly of polyoxometalates and peptides towards biological applications. 2016 , 12, 8464-8479		29
552	Electrospun polyvinyl alcohol/bovine serum albumin biocomposite membranes for horseradish peroxidase immobilization. 2016 , 93-94, 1-10		21
551	Snapshots of encapsulated porphyrins and heme enzymes in metal-organic materials: A prevailing paradigm of heme mimicry. 2016 , 326, 135-163		18

550	Evaluation of peroxidase assay and effect of thermal blanching on sapota and fig fruits. 2016 , 3-4, 46-57	1
549	Regulation of intracellular heme trafficking revealed by subcellular reporters. 2016 , 113, E5144-52	67
548	Dual Enzyme-Triggered In Situ Crosslinkable Gelatin Hydrogels for Artificial Cellular Microenvironments. 2016 , 16, 1570-1576	20
547	Nitric oxide. 2016 , 628-648	4
546	Fully Biobased Oligophenolic Nanoparticle Prepared by Horseradish Peroxidase-catalyzed Polymerization. 2016 , 45, 631-633	7
545	A New Strategy for the Enzymatic Degradation of Sudan Dyes in Non-alkaline Conditions. 2016 , 227, 1	2
544	Economical and environmentally-friendly approaches for usage of onion (<i>Allium cepa</i> L.) waste. 2016 , 7, 3354-69	53
543	Dityrosine Cross-Linking in Designing Biomaterials. 2016 , 2, 2108-2121	74
542	Identification of Surface-Exposed Protein Radicals and A Substrate Oxidation Site in A-Class Dye-Decolorizing Peroxidase from. 2016 , 6, 8036-8047	32
541	Cytochrome P450-Like Biomimetic Oxidation Catalysts Based on Mn Porphyrins as Redox Modulators. 2016 , 213-243	2
540	Chemoenzymatic polymerization of hydrazone functionalized phenol. 2016 , 58, 411-420	6
539	Injectable Hydrogels by Enzymatic Crosslinking. 2016 , 201-238	2
538	Creation of a Thermally Tolerant Peroxidase. 2016 , 580, 455-70	4
537	Smooth deuterated cellulose films for the visualisation of adsorbed bio-macromolecules. 2016 , 6, 36119	18
536	Metals content of <i>Glossoscolex paulistus</i> extracellular hemoglobin: Its peroxidase activity and the importance of these ions in the protein stability. 2016 , 161, 63-72	4
535	Single step peroxidase extraction and oxidation of highly concentrated ethanol and phenol aqueous solutions using supercritical carbon dioxide. 2016 , 116, 209-214	10
534	Dual enzyme mimicry exhibited by ITO nanocubes and their application in spectrophotometric and electrochemical sensing. 2016 , 141, 4024-8	8
533	Alterations in cytosol free calcium in horseradish roots simultaneously exposed to lanthanum(III) and acid rain. 2016 , 126, 62-70	15

532	Oligonucleotide-based biosensors for in vitro diagnostics and environmental hazard detection. 2016 , 408, 2383-406		13
531	Effect of interfacial properties on the activation volume of adsorbed enzymes. 2016 , 140, 497-504		8
530	Polystyrene@Au@prussian blue nanocomposites with enzyme-like activity and their application in glucose detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 490, 291-299	5.1	19
529	The biological effects of vanadyl curcumin and vanadyl diacetylcurcumin complexes: the effect on structure, function and oxidative stability of the peroxidase enzyme, antibacterial activity and cytotoxic effect. 2016 , 31, 1124-31		10
528	Ultrasensitive caspase-3 activity detection using an electrochemical biosensor engineered by gold nanoparticle functionalized MCM-41: Its application during stem cell differentiation. 2016 , 231, 561-575		40
527	Biofuel cell based on horseradish peroxidase immobilized on copper sulfide as anode for decolorization of anthraquinone AV109 dye. 2016 , 25, 403-408		2
526	Chemoenzymatic modification of silk fibroin with poly(2,6-dimethyl-1,5-phenylene ether) using horseradish peroxidase. <i>RSC Advances</i> , 2016 , 6, 28737-28744	3.7	12
525	Protein cross-linking tools for the construction of nanomaterials. 2016 , 39, 61-67		22
524	Nanocaged enzymes with enhanced catalytic activity and increased stability against protease digestion. <i>Nature Communications</i> , 2016 , 7, 10619	17.4	271
523	Injectable Hydrogel Composite Based Gelatin-PEG and Biphasic Calcium Phosphate Nanoparticles for Bone Regeneration. 2016 , 45, 2415-2422		26
522	Origin of the Enhanced Reactivity of π -Nitrido-Bridged Diiron(IV)-Oxo Porphyrinoid Complexes over Cytochrome P450 Compound I. 2016 , 6, 2230-2243		75
521	Synthesis, characterization, thermal stability and electrochemical properties of ortho-imine-functionalized oligophenol via enzymatic oxidative polycondensation. 2016 , 23, 1		18
520	A novel bi-enzyme electrochemical biosensor for selective and sensitive determination of methyl salicylate. 2016 , 81, 39-45		33
519	Coil-like Enzymatic Biohybrid Structures Fabricated by Rational Design: Controlling Size and Enzyme Activity over Sequential Nanoparticle Bioconjugation and Filtration Steps. 2016 , 8, 6261-8		7
518	Injectable hydrogel systems crosslinked by horseradish peroxidase. 2015 , 11, 014101		59
517	Oxidase-like mimic of Ag@Ag ₃ PO ₄ microcubes as a smart probe for ultrasensitive and selective Hg(2+) detection. 2016 , 45, 3048-54		34
516	Getting ready for host invasion: elevated expression and action of xyloglucan endotransglucosylases/hydrolases in developing haustoria of the holoparasitic angiosperm <i>Cuscuta</i> . 2016 , 67, 695-708		23
515	Horseradish peroxidase (HRP): a tool for catalyzing the formation of novel bicoumarins. 2016 , 6, 3585-3593		17

514	Facile hydrothermal growth graphene/ZnO nanocomposite for development of enhanced biosensor. 2016 , 903, 131-41		57
513	3-mercaptopropionic acid surface modification of Cu-doped ZnO nanoparticles: Their properties and peroxidase conjugation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 489, 351-359	5.1	20
512	Rapid and direct spectrophotometric method for kinetics studies and routine assay of peroxidase based on aniline diazo substrates. 2016 , 31, 1162-9		7
511	A new approach for the construction of dual character in nanosystems. 2016 , 222, 1012-1017		3
510	Transformation, products, and pathways of chlorophenols via electro-enzymatic catalysis: How to control toxic intermediate products. <i>Chemosphere</i> , 2016 , 144, 1674-81	8.4	13
509	Synthesis and characterization of imine-functionalized polyphenol via enzymatic oxidative polycondensation of a bisphenol derivative. 2016 , 73, 163-177		10
508	A comparison between the oxidation with laccase and horseradish peroxidase for triclosan conversion. 2016 , 37, 335-43		20
507	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
506	Isolation and Characterization of Coal Solubilizing Aerobic Microorganisms from Salt Range Coal Mines, Pakistan. 2017 , 34, 109-118		6
505	Protein Complexation and pH Dependent Release Using Boronic Acid Containing PEG-Polypeptide Copolymers. 2017 , 17, 1600136		14
504	A bienzymatic biocatalyst constituted by glucose oxidase and Horseradish peroxidase immobilized on ordered mesoporous silica. 2017 , 241, 145-154		46
503	Use of partially purified peroxidase of agricultural by-product rice bran in deoxynivalenol reduction. 2017 , 92, 1998-2008		10
502	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. 2017 , 161, 127-137		9
501	A comparative investigation of Bombyx mori silk fibroin hydrogels generated by chemical and enzymatic cross-linking. 2017 , 64, 771-781		31
500	Structural analyses combined with small-angle X-ray scattering reveals that the retention of heme is critical for maintaining the structure of horseradish peroxidase under denaturing conditions. 2017 , 49, 715-723		3
499	Crystal structure and biochemical features of dye-decolorizing peroxidase YfeX from Escherichia coli O157 Asp and Arg play divergent roles toward different substrates. 2017 , 484, 40-44		11
498	Transdermal cellular membrane penetration of proteins with gold nanoparticles: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7537-7545	3.6	33
497	A novel efficient medium for chromogenic catalysis of tetramethylbenzidine with horseradish peroxidase. 2017 , 28, 1453-1459		13

496	Mass spectrometry based in vitro assay investigations on the transformation of pharmaceutical compounds by oxidative enzymes. <i>Chemosphere</i> , 2017 , 174, 466-477	8.4	13
495	Boronate-functionalized hydrogel as a novel biosensing interface for the glycated hemoglobin A1c (HbA) based on the competitive binding with signaling glycoprotein. 2017 , 77, 1160-1169		4
494	Designing metal-contained enzyme mimics for prodrug activation. <i>Advanced Drug Delivery Reviews</i> , 2017 , 118, 78-93	18.5	26
493	Magnetic Graphene Nanocomposites for Multifunctional Applications. 2017 , 317-357		2
492	Spectrophotometric Quantification of Peroxidase with p-Phenylene-diamine for Analyzing Peroxidase-Encapsulating Lipid Vesicles. <i>Analytical Chemistry</i> , 2017 , 89, 5484-5493	7.8	18
491	Phage capsid protein-directed MnO nanosheets with peroxidase-like activity for spectrometric biosensing and evaluation of antioxidant behaviour. <i>Chemical Communications</i> , 2017 , 53, 5216-5219	5.8	79
490	Designing Peptide and Protein Modified Hydrogels: Selecting the Optimal Conjugation Strategy. 2017 , 139, 7416-7427		78
489	Modeling Fungal Melanin Buildup: Biomimetic Polymerization of 1,8-Dihydroxynaphthalene Mapped by Mass Spectrometry. 2017 , 23, 8092-8098		17
488	Enhancing Mechanical Properties of Silk Fibroin Hydrogel through Restricting the Growth of Sheet Domains. 2017 , 9, 17489-17498		127
487	Optimization of FeO nanozyme activity via single amino acid modification mimicking an enzyme active site. <i>Chemical Communications</i> , 2016 , 53, 424-427	5.8	225
486	Effect of the polymerization bath on structure and electrochemical properties of polyaniline-poly(styrene sulfonate) hydrogels. 2017 , 784, 115-123		8
485	Redox Interfaces for Electrochemically Controlled Protein Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis. 2017 , 29, 5702-5712		31
484	Novel biotemplated MnO ₂ 1D nanozyme with controllable peroxidase-like activity and unique catalytic mechanism and its application for glucose sensing. 2017 , 252, 919-926		81
483	Single-Enzyme Biofuel Cells. 2017 , 56, 9762-9766		18
482	Strongly coupled CeO/CoO/poly(3,4-ethylenedioxythiophene) nanofibers with enhanced nanozyme activity for highly sensitive colorimetric detection. 2017 , 28, 295704		21
481	N-(4-Hydroxyphenyl)acetamide against diiodine towards polyiodide dianion. <i>New Journal of Chemistry</i> , 2017 , 41, 5555-5564	3.6	
480	Influence of Surface Charge of the Nanostructures on the Biocatalytic Activity. 2017 , 33, 6611-6619		11
479	Complex Magnetic Nanostructures. 2017 ,		5

478	A Novel Role of Vesicles as Templates for the Oxidation and Oligomerization of p-Aminodiphenylamine by Cytochrome c. 2017 , 100, e1700027		
477	Decolorization of Color Index Acid Orange 20 buffer solution using horseradish peroxidase immobilized on modified PAN-beads. <i>RSC Advances</i> , 2017 , 7, 18976-18986	3-7	14
476	A comparative approach to recombinantly produce the plant enzyme horseradish peroxidase in <i>Escherichia coli</i> . 2017 , 248, 15-24		30
475	Biocompatibility of ionic liquids towards protein stability: A comprehensive overview on the current understanding and their implications. 2017 , 96, 611-651		63
474	Enzymatic oligomerization and polymerization of arylamines: state of the art and perspectives. 2017 , 71, 199-242		36
473	On the state of Mn in Mn _x Zn _{1-x} O nanoparticles and their surface modification with isonipecotic acid. 2017 , 247, 43-52		5
472	Design of Block Copolymer Micellar Aggregates for Co-Delivery of Enzyme and Anticancer Prodrug. 2017 , 12, 176-180		4
471	Co 3 O 4 mirobelts: Preparation with the electrospinning technique and its investigation in peroxidase-like activity. 2017 , 399, 298-304		18
470	Enzymatic degradation of polyacrylamide in aqueous solution with peroxidase and H ₂ O ₂ . 2017 , 134,		13
469	Heterologous Expression, Purification and Characterization of a Peroxidase Isolated from <i>Lepidium draba</i> . 2017 , 36, 461-471		8
468	Redox-active nanomaterials for nanomedicine applications. 2017 , 9, 15226-15251		65
467	Effect of size and curvature on the enzyme activity of bionanoconjugates. 2017 , 9, 15666-15672		19
466	Graphene Oxide: Structural Updates and Enzyme Mimetic Properties for Biomedical Applications. 2017 , 15-34		
465	Cytochrome c as a Peroxidase: Activation of the Precatalytic Native State by HO-Induced Covalent Modifications. 2017 , 139, 15701-15709		39
464	Horseradish Peroxidase Catalyzed Hydrogelation for Biomedical, Biopharmaceutical, and Biofabrication Applications. 2017 , 12, 3098-3109		33
463	Generation of reactive cobalt oxo oxamate radical species for biomimetic oxidation of contaminants. <i>RSC Advances</i> , 2017 , 7, 42875-42883	3-7	3
462	Preparation of biobased wrinkled surfaces via lignification-mimetic reactions and drying: a new approach for developing surface wrinkling. 2017 , 49, 759-765		11
461	Bionanocomposite Materials for Biocatalytic Applications. 2017 , 257-298		

460	Use of protic ionic liquids as adjuvants in PEG-based ATPS for the purification of radish peroxidase. 2017 , 452, 1-8	24
459	Abnormal pinocytosis and valence-variable behaviors of cerium suggested a cellular mechanism for plant yield reduction induced by environmental cerium. 2017 , 230, 902-910	15
458	Immobilization effects on the photocatalytic activity of CdS quantum Dots-Horseradish peroxidase hybrid nanomaterials. 2017 , 506, 36-45	10
457	In silico locating the immune-reactive segments of <i>Lepidium draba</i> peroxidase and designing a less immune-reactive enzyme derivative. 2017 , 70, 21-30	6
456	Single-Enzyme Biofuel Cells. 2017 , 129, 9894-9898	3
455	Advanced Nanomaterials in Biomedical, Sensor and Energy Applications. 2017 ,	4
454	Chaperonin-Nanocaged Hemin as an Artificial Metalloenzyme for Oxidation Catalysis. 2017 , 9, 25387-25396	25
453	Self-Assembled DNA/Peptide-Based Nanoparticle Exhibiting Synergistic Enzymatic Activity. 2017 , 11, 7251-7258	42
452	Extraction of peroxidase from bitter gourd (<i>Momordica charantia</i>) by three phase partitioning with dimethyl carbonate (DMC) as organic phase. 2017 , 61, 195-201	23
451	GaN Quantum Wells as Optochemical Transducers for Chemical Sensors and Biosensors. 2017 , 23, 15-23	12
450	Improved biodegradation of synthetic azo dye by horseradish peroxidase cross-linked on nano-composite support. 2017 , 95, 1049-1055	62
449	Time-resolved fluorescence observation of di-tyrosine formation in horseradish peroxidase upon ultrasound treatment leading to enzyme inactivation. 2017 , 173, 324-327	5
448	Synaptic vesicle pool-specific modification of neurotransmitter release by intravesicular free radical generation. 2017 , 595, 1223-1238	11
447	<i>Caralluma umbellata</i> Peroxidase: Biochemical Characterization and Its Detoxification Potentials in Comparison with Horseradish Peroxidase. 2017 , 181, 801-812	2
446	Characterization of Class III Peroxidases from Switchgrass. 2017 , 173, 417-433	27
445	The Role of Polyphenoloxidase, Peroxidase, and β -Glucosidase in Phenolics Accumulation in L. Fruits under Different Water Regimes. 2017 , 8, 717	27
444	Climate Clever Clovers: New Paradigm to Reduce the Environmental Footprint of Ruminants by Breeding Low Methanogenic Forages Utilizing Haplotype Variation. 2017 , 8, 1463	7
443	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetic for Biomedical Applications. 2017 , 7, 3207-3227	309

442	A Simple Assay for Ultrasensitive Colorimetric Detection of Ag ⁺ at Picomolar Levels Using Platinum Nanoparticles. 2017 , 17,	16
441	Hemoglobins Likely Function as Peroxidase in Blood Clam Hemocytes. 2017 , 2017, 7125084	8
440	Inhibition of Horseradish Peroxidase Activity by Boroxine Derivative, Dipotassium-trioxohydroxytetrafluorotriborate K ₂ [B ₃ O ₃ F ₄ OH]. 2017 , 2017, 1-7	8
439	Evaluation of an Aqueous Extract from Horseradish Root (Radix) against Lipopolysaccharide-Induced Cellular Inflammation Reaction. 2017 , 2017, 1950692	8
438	Advantages of an Electrochemical Method Compared to the Spectrophotometric Kinetic Study of Peroxidase Inhibition by Boroxine Derivative. 2017 , 22,	25
437	A Comprehensive Review on Function and Application of Plant Peroxidases. 2017 , 06,	105
436	Carbon-Based Oxamate Cobalt(III) Complexes as Bioenzyme Mimics for Contaminant Elimination in High Backgrounds of Complicated Constituents. 2017 , 10,	4
435	Role of Peroxidase in Clinical Assays: A Short Review. 2017 , 03,	6
434	Concanavalin A photocross-linked affinity cryogels for the purification of horseradish peroxidase. 2018 , 36, 1199-1212	5
433	Physical Properties of Biomolecules at the Nanomaterial Interface. 2018 , 122, 2827-2840	38
432	Facile enzymatic preparation of fluorescent conjugated polymers of phenols and their application in sensing. 2018 , 135, 46496	5
431	Enhancing the peroxidase-like activity of ficin via heme binding and colorimetric detection for uric acid. 2018 , 185, 433-438	25
430	Inhibitory effects of selected pesticides on peroxidases purified by affinity chromatography. 2018 , 21, 385-394	12
429	An ideal enzyme immobilization carrier: a hierarchically porous cellulose monolith fabricated by phase separation method. 2018 , 90, 1055-1062	4
428	Bioinspired Design of Fe -Doped Mesoporous Carbon Nanospheres for Enhanced Nanozyme Activity. 2018 , 24, 7259-7263	45
427	Cell Membrane-Based Nanoreactor To Mimic the Bio-Compartmentalization Strategy of a Cell. 2018 , 4, 1471-1478	9
426	Oxidoreductases for the remediation of organic pollutants in water - a critical review. 2018 , 38, 971-988	50
425	Biochemical properties of peroxidase from white and red cultivars of kolanut (Cola nitida). <i>Biocatalysis and Agricultural Biotechnology</i> , 2018 , 14, 1-9	4.2 5

424	Inner Filter Effect-Based Sensor for Horseradish Peroxidase and Its Application to Fluorescence Immunoassay. 2018 , 3, 183-190	43
423	Crosslinking of food proteins mediated by oxidative enzymes [A review]. 2018 , 72, 134-143	55
422	A novel biomimetic catalyst constructed by axial coordination of hemin with PAN fiber for efficient degradation of organic dyes. 2018 , 53, 4118-4131	10
421	The designing strategies of graphene-based peroxidase mimetic materials. 2018 , 61, 266-275	9
420	Metal-Organic Framework Encapsulation for the Preservation and Photothermal Enhancement of Enzyme Activity. 2018 , 14, 1702382	55
419	Application of biomolecular recognition via magnetic nanoparticle in nanobiotechnology. 2018 , 20, 1	6
418	Soluble expression of horseradish peroxidase in Escherichia coli and its facile activation. 2018 , 126, 431-435	6
417	Coordination of GMP ligand with Cu to enhance the multiple enzymes stability and substrate specificity by co-immobilization process. 2018 , 136, 102-108	20
416	Antioxidants and Antioxidant Enzymes in Higher Plants. 2018 ,	26
415	Class III Peroxidases: Functions, Localization and Redox Regulation of Isoenzymes. 2018 , 269-300	20
414	Conformation and activity alteration of horseradish peroxidase induced by the interaction with gene carrier polyethyleneimines. 2018 , 188, 90-98	18
413	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
412	Spatially controlled rhBMP-2 mediated calvarial bone formation in a transgenic mouse model. 2018 , 106, 1159-1165	10
411	Experimental and computational evaluation of area selectively immobilized horseradish peroxidase in a microfluidic device. 2018 , 332, 16-23	13
410	Peroxidase inactivation kinetics is affected by the addition of calcium chloride in fruit beverages. 2018 , 89, 610-616	7
409	Peroxidase characterization isolated from germinated peanut embryos (GPE) and application of the freeze-dried GPE powder as enzyme source for biomimetic production of Eviniferin. 2018 , 66, 97-105	0
408	Enhanced tissue adhesiveness of injectable gelatin hydrogels through dual catalytic activity of horseradish peroxidase. 2018 , 109, e23077	15
407	Monitoring enzymatic degradation of emerging contaminants using a chip-based robotic nano-ESI-MS tool. 2018 , 410, 27-32	13

406	Immobilization of horseradish peroxidase on electrospun poly(vinyl alcohol)/polyacrylamide blend nanofiber membrane and its use in the conversion of phenol. 2018 , 75, 1843-1865	35
405	Evaluation of oxidative enzymes for efficient oxidation of aniline and phenolic pollutants. 2018 , 15, 1679-1686	7
404	Determination Hypoiodous Acid (HIO) By Peroxidase System Using Peroxidase Enzyme. 2018 , 116, 012043	0
403	Vascular Cell Differentiation. 2018 , 40-68	
402	Single-Molecule Studies of Allosteric Inhibition of Individual Enzyme on a DNA Origami Reactor. 2018 , 9, 6786-6794	10
401	The Peroxidative Cleavage of Kaempferol Contributes to the Biosynthesis of the Benzenoid Moiety of Ubiquinone in Plants. 2018 , 30, 2910-2921	29
400	Oscillating Piconewton Force Manipulation on Single-Molecule Enzymatic Conformational and Reaction Dynamics. 2018 , 122, 12312-12321	1
399	Assessment of a non-destructive method to estimate the leaf area of <i>Armoracia rusticana</i> . 2018 , 40, 1	3
398	Synthesis and peroxidase-like mimic study in H ₂ O ₂ detection of a stable polyoxometalate-pillared coordination polymer. 2018 , 71, 3127-3138	2
397	Biotechnological Methods of Sulfoxidation: Yesterday, Today, Tomorrow. 2018 , 8, 624	18
396	Current technological trends in biosensors, nanoparticle devices and biolabels: Hi-tech network sensing applications. 2018 , 1, e10011	8
395	Hybrid Hydrogels Based on insitu Interpenetrating Networks Graphene Oxide (GO) and Au Nanoparticles, and Its Application as Peroxidase Mimetics for Glucose Detection. 2018 , 3, 10259-10264	5
394	Molecular docking and two-dimensional quantitative structure-activity relationship studies of synthetic flavonoids on horseradish peroxidase compounds (I, II, and III). 2018 , 32, e22222	1
393	Droplet-Assisted Microfluidic Fabrication and Characterization of Multifunctional Polysaccharide Microgels Formed by Multicomponent Reactions. 2018 , 10,	23
392	Graphene Oxide-Based Biosensors. 2018 ,	3
391	Multienzyme immobilized polymeric membrane reactor for transformation of lignin model compound. 2018 , 10,	13
390	Particles and Nanoparticles in Pharmaceutical Products. 2018 ,	2
389	An unprecedented molybdenum oxide based helical MOF with peroxidase-like activity synthesized by surfactant-thermal method. 2018 , 97, 93-97	5

388	Interlocking Enzymes in Graphene-Coated Cellulose Paper for Increased Enzymatic Efficiency. 2018 , 609, 1-22		1
387	Development of horseradish peroxidase/layered double hydroxide hybrid catalysis for phenol degradation. 2018 , 44, 7731-7752		6
386	Bio-nano: Theranostic at Cellular Level. 2018 , 85-170		1
385	Transient Expression and Purification of Horseradish Peroxidase C in <i>Nicotiana benthamiana</i> . <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	2
384	Highly sensitive biosensing of phenol based on the adsorption of the phenol enzymatic oxidation product on the surface of an electrochemically reduced graphene oxide-modified electrode. 2018 , 10, 2731-2739		11
383	Waterborne carbon nanotube ink for the preparation of electrodes with applications in electrocatalysis and enzymatic biosensing. 2018 , 106, 137-143		13
382	Free Radical Copolymerization of Acrylamide and N-Vinylpyrrolidone Catalyzed by Iron(III)porphyrins in the Presence of Ionic Liquids. 2018 , 50, 359-371		4
381	Synthesis, structure and effective peroxidase-like activity of a stable polyoxometalate-pillared metal-organic framework with multinuclear cycles. 2018 , 151, 206-212		11
380	Dispersion polymerization in environmentally benign solvents via reversible deactivation radical polymerization. 2018 , 83, 1-27		86
379	Optimization of in vitro refolding conditions of recombinant <i>Lepidium draba</i> peroxidase using design of experiments. 2018 , 118, 1369-1376		10
378	Designed Self-Assembly of Peptides with G-Quadruplex/Hemin DNAzyme into Nanofibrils Possessing Enzyme-Mimicking Active Sites and Catalytic Functions. 2018 , 8, 7016-7024		15
377	Keggin polyoxometalates based hybrid compounds containing helix/nanocages for colorimetric biosensing. 2018 , 265, 372-380		13
376	Biosensing based on pencil graphite electrodes. 2018 , 190, 235-247		63
375	Avidin Adsorption to Silk Fibroin Films as a Facile Method for Functionalization. 2018 , 19, 3705-3713		14
374	Smartphone Assisted Naked Eye Detection of Mercury (II) Ion using Horseradish Peroxidase Inhibitive Assays. 2018 , 25, 90-95		2
373	Polyacrylamide Hydrogels Produce Hydrogen Peroxide from Osmotic Swelling in Aqueous Media. 2018 , 19, 3421-3426		7
372	Ultrasensitive Amperometric Biosensing of Polyphenols Using Horseradish Peroxidase Immobilized in a Laponite/Au/DNA-Bioinspired Polycation Nanocomposite. 2018 , 165, B452-B457		6
371	Developments in support materials for immobilization of oxidoreductases: A comprehensive review. 2018 , 258, 1-20		143

370	"Smart" chemistry and its application in peroxidase immobilization using different support materials. 2018 , 119, 278-290	111
369	Fabrication of Circular Obelisk-Type Multilayer Microneedles Using Micro-Milling and Spray Deposition. 2018 , 6, 54	24
368	Inactivation Kinetics of Pectin Methylesterase, Polyphenol Oxidase, and Peroxidase in Cloudy Apple Juice under Microwave and Conventional Heating to Evaluate Non-Thermal Microwave Effects. 2018 , 11, 1359-1369	27
367	Nanoparticle-supported polymer brushes for temperature-regulated glycoprotein separation: investigation of structure-function relationship. 2018 , 6, 3770-3781	19
366	Unveiling the structure of a novel artificial heme-enzyme with peroxidase-like activity: A theoretical investigation. 2018 , 109, e23225	11
365	Radical-Type Reactivity and Catalysis by Single-Electron Transfer to or from Redox-Active Ligands. 2019 , 25, 2651-2662	101
364	Sensitivity and binding kinetics of an ultra-sensitive chemiluminescent enzyme-linked immunosorbent assay at arrays of antibodies. 2019 , 474, 112643	11
363	Variability of Bioactive Glucosinolates, Isothiocyanates and Enzyme Patterns in Horseradish Hairy Root Cultures Initiated from Different Organs. 2019 , 24,	4
362	Enzyme Mimic Based on a Self-Assembled Chitosan/DNA Hybrid Exhibits Superior Activity and Tolerance. 2019 , 25, 12576-12582	6
361	Enzyme biotechnology for medical textiles. 2019 , 133-158	
360	Enhancing the peroxidase-like activity of ficin by rational blocking thiol groups for colorimetric detection of biothiols. 2019 , 204, 833-839	6
359	Nanocomposite Biezymatic Sensor for Monitoring Xanthine in Wound Diagnostics. 2019 , 166, B3295-B3301	3
358	Silk fibroin/carboxymethyl chitosan hydrogel with tunable biomechanical properties has application potential as cartilage scaffold. 2019 , 137, 382-391	34
357	Potential and challenges of enzyme incorporated nanotechnology in dye wastewater treatment: A review. 2019 , 7, 103261	53
356	Full Issue PDF. 2019 , 44, 333-C4	
355	RAFT to Modification of Lignin by the Combination of Enzyme-Initiated Reversible Addition Fragmentation Chain Transfer and Grafting. 2019 , 7, 12973-12980	5
354	Exploring the physiological and agronomic response of <i>Armoracia rusticana</i> grown in rainfed Mediterranean conditions. 2019 , 14, 133-141	
353	Polymerization of micropollutants in natural aquatic environments: A review. 2019 , 693, 133751	16

- 352 Inhibitory Action of Hypoiodous Acid (HIO) against Browning on Apple through the Analysis of Lightness Appearance. **2019**, 309, 012010
- 351 Organic polymer dot-based fluorometric determination of the activity of horseradish peroxidase and of the concentrations of glucose and the insecticidal protein toxin Cry1Ab/Ac. **2019**, 186, 731 4
- 350 Catalase-Like Antioxidant Activity is Unaltered in Hypochlorous Acid Oxidized Horse Heart Myoglobin. **2019**, 8, 3
- 349 Plate-like WO₃ inserting into I-deficient BiO_{1.2}O₆ microsphere for highly efficient photocatalytic degradation of VOCs. **2019**, 105, 96-103 2
- 348 Highly active G-quadruplex/hemin DNAzyme for sensitive colorimetric determination of lead(II). **2019**, 186, 786 22
- 347 Silver Nanoparticle-Enzyme Composite Films for Hydrogen Peroxide Detection. *ACS Applied Nano Materials*, **2019**, 2, 5910-5921 5.6 19
- 346 HemeG-Quadruplex DNAzymes: Conditions for Maximizing Their Peroxidase Activity. **2019**, 2035, 357-368 3
- 345 Biocatalysis. **2019**, 5
- 344 Biocatalytic oxidation of flavone analogues mediated by general biocatalysts: horseradish peroxidase and laccase.. *RSC Advances*, **2019**, 9, 13325-13331 3.7 5
- 343 Immobilized Enzymes from the Class of Oxidoreductases in Technological Processes: A Review. **2019**, 11, 251-263 6
- 342 Lysine carbonylation is a previously unrecognized contributor to peroxidase activation of cytochrome by chloramine-T. **2019**, 10, 2349-2359 8
- 341 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
- 340 Towards Detection of Glycoproteins Using Molecularly Imprinted Nanoparticles and Boronic Acid-Modified Fluorescent Probe. **2019**, 11, 15
- 339 Effects of Enzymatic Activation of Bleaching Gels on Hydrogen Peroxide Degradation Rates, Bleaching Effectiveness, and Cytotoxicity. **2019**, 44, 414-423 6
- 338 Nanoporous Phyllosilicate Assemblies for Enzyme Immobilization.. **2019**, 2, 777-786 13
- 337 A simple, real-time assay of horseradish peroxidase using biolayer interferometry. **2019**, 83, 1822-1828 1
- 336 Enzyme-initiated reversible addition-fragmentation chain transfer (RAFT) polymerization: Precision polymer synthesis via enzymatic catalysis. **2019**, 627, 291-319 3
- 335 Optimization of Horseradish Peroxidase Catalytic Degradation for 2-Methyl-6-Ethylaniline Removal Using Response Surface Methodology. **2019**, 11, 1093 3

334 Toxicity and Immune Response. **2019**, 339-357

333 Engineered horseradish peroxidase-catalyzed hydrogels with high tissue adhesiveness for biomedical applications. **2019**, 78, 34-52 24

332 Solar Photocatalytic Phenol Polymerization and Hydrogen Generation for Flocculation of Wastewater Impurities. **2019**, 1, 1451-1457 1

331 In situ oxidation of canola meal sinapic acid by horseradish peroxidase (type II) and tyrosinase. **2019**, 43, e12884 0

330 Recent Advances on Electrochemical Sensors for the Detection of Organic Disinfection Byproducts in Water. **2019**, 4, 1138-1150 16

329 Investigation on Secondary Structure Alterations of Protein Drugs as an Indicator of Their Biological Activity Upon Thermal Exposure. **2019**, 38, 551-564 5

328 Development and Application of an Efficient Medium for Chromogenic Catalysis of Tetramethylbenzidine with Horseradish Peroxidase. *ACS Omega*, **2019**, 4, 5459-5470 3.9 3

327 Improving the Performance of Horseradish Peroxidase by Site-Directed Mutagenesis. *International Journal of Molecular Sciences*, **2019**, 20, 6.3 20

326 N- and B-Codoped Graphene: A Strong Candidate To Replace Natural Peroxidase in Sensitive and Selective Bioassays. **2019**, 13, 4312-4321 103

325 Enhancing the colorimetric detection of HO and ascorbic acid on polypyrrole coated fluconazole-functionalized POMOFs. **2019**, 144, 3347-3356 27

324 Reduction of hydrogen peroxide in gram-negative bacteria - bacterial peroxidases. **2019**, 74, 415-464 6

323 Self-Rolling Refillable Tubular Enzyme Containers Made of Recombinant Spider Silk and Chitosan. **2019**, 11, 15290-15297 7

322 Fe(III) porphyrin metal-organic framework as an artificial enzyme mimics and its application in biosensing of glucose and H₂O₂. **2019**, 26, 1507-1521 21

321 Spin Switching with Triazolate-Strapped Ferrous Porphyrins. **2019**, 58, 5265-5272 12

320 Design and Characterization of a Novel Artificial Peroxidase. **2019**, 9, 168 1

319 Noble-Metal Nanostructures as Highly Efficient Peroxidase Mimics. **2019**, 5, 860-868 7

318 Oral self-emulsifying delivery systems for systemic administration of therapeutic proteins: science fiction?. **2019**, 27, 1017-1024 18

317 Enzyme mimetic activities of spinel substituted nanoferrites (MFeO): A review of synthesis, mechanism and potential applications. **2019**, 99, 1424-1447 42

316	Induction of Enzyme-like Peroxidase Activity in an Iron Porphyrin Complex Using Second Sphere Interactions. 2019 , 58, 2954-2964		19
315	Identification and characterization of two peroxidases from <i>Lichtheimia corymbifera</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 18, 100995	4.2	2
314	Effect of surface charge on peroxidase mimetic activity of gold nanorods (GNRs). 2019 , 227, 242-249		3
313	Postsynthetic treatment of carbon nano-onions: Surface modification by heteroatoms to enhance their capacitive and electrocatalytic properties. 2019 , 147, 90-104		11
312	New Insights into the Effects of Surface Functionalization on the Peroxidase Activity of Cytochrome c Adsorbed on Silica Nanoparticles. 2019 , 123, 2567-2575		9
311	Peroxide-Induced Liberation of Iron from Heme Switches Catalysis during Luminol Reaction and Causes Loss of Light and Heterodyning of Luminescence Kinetics. <i>ACS Omega</i> , 2019 , 4, 3268-3279	3.9	3
310	Enzymatic treatment and subsequent toxicity of organic micropollutants using oxidoreductases - A review. 2019 , 221, 306-322		49
309	Development of an Ethanol Biosensor Based on Silver Nanoparticles/Polyaniline/Graphite/Epoxy Composite for Friendly Analytical Application. 2019 ,		
308	Improving the thermostability of horseradish peroxidase by incorporating into water-immiscible coacervates. 2019 , 35, 27		
307	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. 2019 , 11, 102		59
306	Purification and characterization of peroxidase from date palm cv. Agwa fruits. 2019 , 22, 1910-1919		2
305	Determination of kinetic parameters of the enzymatic reaction between soybean peroxidase and natural antioxidants using chemometric tools. <i>Food Chemistry</i> , 2019 , 275, 161-168	8.5	5
304	Alleviated Inhibition of Single Enzyme in Confined and Crowded Environment. 2019 , 10, 82-89		6
303	Healthy Roots and Leaves: Comparative Genome Structure of Horseradish and Watercress. 2019 , 179, 66-73		5
302	A facile one-pot method to prepare peroxidase-like nanogel artificial enzymes for highly efficient and controllable catalysis. 2019 , 174, 352-359		9
301	Revisiting the insights and applications of protein engineered hydrogels. 2019 , 95, 312-327		10
300	Flavonoid composition, cellular antioxidant activity and (myelo)peroxidase inhibition of a <i>Bryonia alba</i> L. (Cucurbitaceae) leaves extract. 2019 , 71, 230-239		11
299	Formulation and Structural Study of a Biocompatible Water-in-Oil Microemulsion as an Appropriate Enzyme Carrier: The Model Case of Horseradish Peroxidase. 2019 , 35, 150-160		16

298	High-activity FeO nanozyme as signal amplifier: A simple, low-cost but efficient strategy for ultrasensitive photoelectrochemical immunoassay. 2019 , 127, 64-71		57
297	The glucosinolate regulation in plant: A new view on lanthanum stimulating the growth of plant. 2019 , 37, 555-564		3
296	Effects of formulation development methods on the stability of model protein pharmaceuticals embedded in solid lipid matrices. 2019 , 24, 649-662		0
295	Recent development in the application of immobilized oxidative enzymes for bioremediation of hazardous micropollutants - A review. <i>Chemosphere</i> , 2020 , 239, 124716	8.4	71
294	The horseradish smile: Demonstrating characteristic reactions of peroxidase in a visually appealing way. 2020 , 48, 38-43		2
293	Heme Cofactor-Resembling Fe ^{II} Single Site Embedded Graphene as Nanozymes to Selectively Detect H ₂ O ₂ with High Sensitivity. 2020 , 30, 1905410		99
292	Temperature controllable electrochemical sensors based on horseradish peroxidase as electrocatalyst at heated Au disk electrode and its preliminary application for HO detection. 2020 , 1096, 44-52		24
291	Fe-Loaded MOF-545(Fe): Peroxidase-Like Activity for Dye Degradation Dyes and High Adsorption for the Removal of Dyes from Wastewater. 2019 , 25,		19
290	Supra-blot: an accurate and reliable assay for detecting target proteins with a synthetic host molecule-enzyme hybrid. <i>Chemical Communications</i> , 2020 , 56, 1549-1552	5.8	5
289	FeOOH as Support for Immobilization Peroxidase: Optimization via a Chemometric Approach. 2020 , 25,		14
288	Dinuclear FePheno and FeHydroxo Bridged Copper Complexes Exhibiting Oxidation of Phenols and Isolelectronic Compounds: Cytotoxicity and Evidences for Cellular Apoptosis. 2020 , 5, 463-475		1
287	Supramolecular Construction of Biohybrid Nanozymes Based on the Molecular Chaperone GroEL as a Promiscuous Scaffold. 2020 , 6, 833-841		3
286	Heme-Fe Superoxide, Peroxide and Hydroperoxide Thermodynamic Relationships: Fe-O Complex H-Atom Abstraction Reactivity. 2020 , 142, 3104-3116		18
285	3D-printed graphene direct electron transfer enzyme biosensors. 2020 , 151, 111980		73
284	Bactrian camel serum albumins-based nanocomposite as versatile biocargo for drug delivery, biocatalysis and detection of hydrogen peroxide. 2020 , 109, 110627		2
283	Influence of low-temperature ball milling time on physicochemical properties, flavor, bioactive compounds contents and antioxidant activity of horseradish powder. 2020 , 31, 914-921		7
282	Degradation of acetaminophen in photo-enzyme coupling system with natural organic matters from different sources. 2020 , 704, 135246		9
281	Delineating Heme-Mediated versus Direct Protein Oxidation in Peroxidase-Activated Cytochrome by Top-Down Mass Spectrometry. 2020 , 59, 4108-4117		0


280	Antimicrobials offered from nature: Peroxidase-catalyzed systems and their mimics. 2020 , 182, 114281	4
279	A chiral covalent organic framework (COF) nanozyme with ultrahigh enzymatic activity. 2020 , 7, 3291-3297	21
278	Peptide-functionalized metal-organic framework nanocomposite for ultrasensitive detection of secreted protein acidic and rich in cysteine with practical application. 2020 , 169, 112613	9
277	(\oplus)-trans-2-phenyl-2,3-dihydrobenzofurans as leishmanicidal agents: Synthesis, in vitro evaluation and SAR analysis. 2020 , 205, 112493	4
276	A metal-free nanozyme-activated prodrug strategy for targeted tumor catalytic therapy. 2020 , 35, 100935	60
275	Design of an Automated Electrochemical Biosensor Modified with Phenylboronic Acid to Study Glycoprotein Immobilization. 2020 , 5, 11866-11873	
274	Peroxidase from waste cabbage (<i>Brassica oleracea capitata</i> L.) exhibits the potential to biodegrade phenol and synthetic dyes from wastewater. 2020 , 10, e00608	2
273	Nanocrystals of platinum-group metals as peroxidase mimics for diagnostics. <i>Chemical Communications</i> , 2020 , 56, 14962-14975	5.8 5
272	Osmium nanozyme as peroxidase mimic with high performance and negligible interference of O ₂ . 2020 , 8, 25226-25234	19
271	Bioinspired Supramolecular Catalysts from Designed Self-Assembly of DNA or Peptides. 2020 , 10, 14937-14958	6
270	The mechanisms of HSA@PDA/Fe nanocomposites with enhanced nanozyme activity and their application in intracellular HO detection. 2020 , 12, 24206-24213	3
269	Recombinant Horseradish Peroxidase C1A Immobilized on Hydrogel Matrix for Dye Decolorization and Its Mechanism on Acid Blue 129 Decolorization. 2020 , 192, 861-880	4
268	Poly-L-Glutamic Acid/Chitosan Hydrogel Nanoparticles Entrapping Glucose Oxidase and Magnetic Nanoparticles for Glucose Biosensing. 2020 , 20, 5333-5337	8
267	Investigation of the Influence of Liquid Motion in a Flow-based System on an Enzyme Aggregation State with an Atomic Force Microscopy Sensor: The Effect of Water Flow. 2020 , 10, 4560	7
266	Synthesis and characterization of a novel metal-organic framework called nanosized electroactive quasi-coral-340 (NEQC-340) and its application for constructing a reusable nanozyme-based sensor for selective and sensitive glutathione quantification. 2020 , 158, 105328	8
265	Investigation of the Influence of Liquid Motion in a Flow-Based System on an Enzyme Aggregation State with an Atomic Force Microscopy Sensor: The Effect of Glycerol Flow. 2020 , 10, 4825	4
264	Assembled peptides for biomimetic catalysis. 2020 , 383-413	1
263	Density Functional Theory-Based Method to Predict the Activities of Nanomaterials as Peroxidase Mimics. 2020 , 10, 12657-12665	33

262	In vivo self-degradable graphene nanomedicine operated by DNAzyme and photo-switch for controlled anticancer therapy. 2020 , 263, 120402	12
261	Encapsulation of Phosphomolybdate Within Metal-Organic Frameworks with Dual Enzyme-like Activities for Colorimetric Detection of H ₂ O ₂ and Ascorbic acid. 2020 , 32, 1175	2
260	Polymer-Coated Cerium Oxide Nanoparticles as Oxidoreductase-like Catalysts. 2020 , 12, 42056-42066	27
259	Influence of gelatin and collagen incorporation on peroxidase-mediated injectable pectin-based hydrogel and bioactivity of fibroblasts. 2021 , 36, 179-190	3
258	Looking Back at the Early Stages of Redox Biology. 2020 , 9,	14
257	EPR of Compound I: An Illustrated Revision of the Theoretical Model. 2020 , 51, 1559-1589	2
256	Study of the Interaction of a Novel Semi-Synthetic Peptide with Model Lipid Membranes. 2020 , 10,	1
255	Biocompatible in situ-forming glycopolypeptide hydrogels. 2020 , 63, 992-1004	4
254	Effect of axial ligand on the performance of hemin based catalysts and their use for fuel cells. 2020 , 88, 366-372	7
253	Unique Enzyme Activity of Peroxidase on a Clay Nanosheet. 2020 , 36, 8384-8388	1
252	Body-Integrated, Enzyme-Triggered Degradable, Silk-Based Mechanical Sensors for Customized Health/Fitness Monitoring and In Situ Treatment. 2020 , 7, 1903802	32
251	ATP induced alteration in the peroxidase-like properties of hollow Prussian blue nanocubes: a platform for alkaline phosphatase detection. 2020 , 145, 5032-5040	3
250	Exogenous Nitric Oxide- and Hydrogen Sulfide-induced Abiotic Stress Tolerance in Plants. 2020 , 174-213	7
249	Co-immobilization of an Enzyme System on a Metal-Organic Framework to Produce a More Effective Biocatalyst. 2020 , 10, 499	11
248	Thin hydrogel coatings formation catalyzed by immobilized enzyme horseradish peroxidase. 2020 , 5, 773-783	
247	Poly(ethylene glycol)-based biofunctional hydrogels mediated by peroxidase-catalyzed cross-linking reactions. 2020 , 52, 899-911	4
246	Cobalt tuned copper sulfide on montmorillonite: Peroxidase-like activity, catalytic mechanism and colorimetric sensing of hydrogen peroxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 602, 125063	5.1 10
245	Tuning the conformation and mechanical properties of silk fibroin hydrogels. 2020 , 134, 109842	35

244	Peroxidase activities of gold nanowires synthesized by TMV as template and their application in detection of cancer cells. 2020 , 104, 3947-3957		9
243	Enzyme-assisted in vivo polymerisation of conjugated oligomer based conductors. 2020 , 8, 4221-4227		15
242	Nanobiohybrid Material-Based Bioelectronic Devices. 2020 , 15, e1900347		6
241	Hierarchical 0D-2D bio-composite film based on enzyme-loaded polymeric nanoparticles decorating graphene nanosheets as a high-performance bio-sensing platform. 2020 , 156, 112134		18
240	Developing a new colorimetric bioassay for iodide determination based on gold supported iridium peroxidase catalysts. <i>New Journal of Chemistry</i> , 2020 , 44, 5588-5597	3.6	2
239	Enzymes in a golden cage. 2020 , 11, 3965-3977		12
238	New Technologies to Image Tumors. 2020 , 180, 51-94		1
237	Entrapment of enzyme in the presence of proline: effective approach to enhance activity and stability of horseradish peroxidase. 2020 , 10, 155		4
236	Applications of oxidases in modification of food molecules and colloidal systems: Laccase, peroxidase and tyrosinase. 2020 , 103, 78-93		27
235	Modulating Alginate Hydrogels for Improved Biological Performance as Cellular 3D Microenvironments. 2020 , 8, 665		34
234	Scalable High-Performance Production of Recombinant Horseradish Peroxidase from Inclusion Bodies. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
233	Estimation of immobilized horseradish peroxidase in a low salt concentration for an irreversible electrochemical system. 2020 , 2, 100055		0
232	Electrochemical Biosensors Employing Natural and Artificial Heme Peroxidases on Semiconductors. 2020 , 20,		6
231	Rational Redesign of Monoamine Oxidase A into a Dehydrogenase to Probe ROS in Cardiac Aging. 2020 , 15, 1795-1800		7
230	Experimental and theoretical affinity and catalysis studies between halogenated phenols and peroxidases: Understanding the bioremediation potential. 2020 , 202, 110895		5
229	Plasma-Driven in Situ Production of Hydrogen Peroxide for Biocatalysis. 2020 , 13, 2072-2079		17
228	Mimicking peroxidase active site microenvironment by functionalized graphene quantum dots. 2020 , 13, 1427-1433		21
227	Lamellar shape lead tungstate (PbWO ₄) nanostructures as synergistic catalyst for peroxidase mimetic activity. 2020 , 7, 015520		2

226	Obtaining soybean peroxidase from soybean hulls and its application for detoxification of 2,4-dichlorophenol contaminated water. 2020 , 8, 103786		9
225	Detection mechanism and classification of design principles of peroxidase mimic based colorimetric sensors: A brief overview. 2020 , 28, 1492-1503		8
224	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. 2020 , 132, 15748-15755		12
223	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. 2020 , 59, 15618-15625		56
222	Activity adaptability of a DhHP-6 peroxidase-mimic in wide pH and temperature ranges and solvent media. 2020 , 10, 1848-1857		1
221	Advances in functional nucleic acid based paper sensors. 2020 , 8, 3213-3230		24
220	Nanozymes: created by learning from nature. 2020 , 63, 1183-1200		58
219	Single enzyme nanoparticle, an effective tool for enzyme replacement therapy. 2020 , 43, 1-21		9
218	Dual enzyme-like properties of silver nanoparticles decorated AgWO nanorods and its application for HO and glucose sensing. 2020 , 189, 110840		20
217	Laccases and peroxidases: The smart, greener and futuristic biocatalytic tools to mitigate recalcitrant emerging pollutants. 2020 , 714, 136572		105
216	Development of an in situ injectable hydrogel containing hyaluronic acid for neural regeneration. 2020 , 15, 055005		10
215	Proximity Dependent Biotinylation: Key Enzymes and Adaptation to Proteomics Approaches. 2020 , 19, 757-773		63
214	Magnetically responsive horseradish peroxidase@ZIF-8 for biocatalysis. <i>Chemical Communications</i> , 2020 , 56, 5775-5778	5.8	18
213	Boosting the biocatalytic precipitation with enzyme-loaded liposomes: Toward a general platform for amplified photoelectrochemical immunoassay. 2020 , 1115, 1-6		2
212	Iron-Based Nanozymes in Disease Diagnosis and Treatment. <i>ChemBioChem</i> , 2020 , 21, 2722-2732	3.8	8
211	Role of in situ electrogenerated reactive oxygen species towards degradation of organic dye in aqueous solution. 2020 , 344, 136146		8
210	Influence of ohmic heating on commercial peroxidase and sugarcane juice peroxidase inactivation. 2020 , 284, 110066		6
209	Peroxidase zymograms obtained by agarose native gel electrophoresis have unmet resolution and completeness. 2020 , 156, 869-873		2

208	Probing the Effects of Heterogeneous Oxidative Modifications on the Stability of Cytochrome in Solution and in the Gas Phase. 2021 , 32, 73-83	2
207	Enzymatic technologies as green and sustainable techniques for remediation of oil-contaminated environment: state of the art. 2021 , 18, 1299-1322	1
206	Bio-based and cost effective method for phenolic compounds removal using cross-linked enzyme aggregates. 2021 , 403, 124021	13
205	Peroxidase-catalysed coloration of wool fabrics. 2021 , 137, 93-107	0
204	Review of Chemical Reactivity of Singlet Oxygen with Organic Fuels and Contaminants. 2021 , 21, 315-342	11
203	Multiple effects of sodium dodecyl sulfate on chromogenic catalysis of tetramethylbenzidine with horseradish peroxidase. 2021 , 42, 526-536	1
202	Role of Enzymes From Microbes in the Treatment of Recalcitrant From Industries. 2021 , 878-903	
201	Enzyme Biocatalysis and Sustainability. 2021 , 383-413	2
200	Enzymatic Protein Cross-Linking in Dairy Science and Technology. 2021 , 417-445	1
199	An optimised MALDI-TOF assay for phosphatidylcholine-specific phospholipase C. 2021 , 13, 491-496	1
198	Atomic force microscopy in food preservation research: New insights to overcome spoilage issues. 2021 , 140, 110043	1
197	AFM Study of the Influence of Glycerol Flow on Horseradish Peroxidase near the in/out Linear Sections of a Coil. 2021 , 11, 1723	1
196	Design of an LCST-UCST-Like Thermoresponsive Zwitterionic Copolymer. 2021 , 37, 3261-3269	4
195	Immobilization of <i>Lepidium draba</i> peroxidase on a novel Zn-MOF nanostructure. 2021 , 173, 366-378	7
194	Polymerization of Hydroquinone Using Horseradish Peroxidase Nanobiocatalyst. 384-392	
193	Comparison of three palm tree peroxidases expressed by <i>Escherichia coli</i> : Uniqueness of African oil palm peroxidase. 2021 , 179, 105806	2
192	Biomimetic Nanozymes Based on Coassembly of Amino Acid and Hemin for Catalytic Oxidation and Sensing of Biomolecules. 2021 , 17, e2008114	40
191	Virus-Derived Peptides for Hepatic Enzyme Delivery. 2021 , 18, 2004-2014	1

190	A Versatile DNA Origami-Based Plasmonic Nanoantenna for Label-Free Single-Molecule Surface-Enhanced Raman Spectroscopy. 2021 , 15, 7065-7077		20
189	Hemoglobins from <i>Scapharca subcrenata</i> (Bivalvia: Arcidae) likely play an bactericidal role through their peroxidase activity. 2021 , 253, 110545		1
188	Nanozyme-Powered Giant Unilamellar Vesicles for Mimicry and Modulation of Intracellular Oxidative Stress. 2021 , 13, 21087-21096		1
187	Adsorption of Horseradish Peroxidase on Metallic Nanoparticles: Effects on Reactive Oxygen Species Detection Using 2',7'-Dichlorofluorescein Diacetate. 2021 , 34, 1481-1495		2
186	Oxidoreductases as a versatile biocatalytic tool to tackle pollutants for clean environment  review. 2021 ,		4
185	Crystal Structure Analysis of Cationic Peroxidase from Proso Millet and Identification of Its Phosphatase Active Sites. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 6251-6259	5-7	0
184	Mechanism of action, sources, and application of peroxidases. 2021 , 143, 110266		16
183	Effect of Spherical Elements of Biosensors and Bioreactors on the Physicochemical Properties of a Peroxidase Protein. 2021 , 13,		1
182	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. 2021 , 4, 407-417		134
181	The modulation of structural stability of horseradish peroxidase as a consequence of macromolecular crowding. 2021 , 34, e2902		
180	Immobilization as a powerful bioremediation tool for abatement of dye pollution: a review. 2021 , 29, 277-299		3
179	Recent Advances in Enzymes for the Bioremediation of Pollutants. 2021 , 2021, 5599204		15
178	Tunable and high tissue adhesive properties of injectable chitosan based hydrogels through polymer architecture modulation. 2021 , 261, 117810		9
177	Horseradish peroxidase-calcium peroxide core-shell microcapsules as a novel permeable reactive barrier for bioremediation of phenol-contaminated waters. 1		1
176	Recent advancements in enzyme-mediated crosslinkable hydrogels: -mimicking strategies. 2021 , 5, 021502		9
175	Nucleic Acid Tests for Clinical Translation. <i>Chemical Reviews</i> , 2021 , 121, 10469-10558	68.1	23
174	Prediction of Viscoelastic Properties of Enzymatically Crosslinkable Tyramine-Modified Hyaluronic Acid Solutions Using a Dynamic Monte Carlo Kinetic Approach. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
173	Polymeric biomaterials maintained the esthetic efficacy and reduced the cytotoxicity of in-office dental bleaching. 2021 , 33, 1139-1149		4

172	Carbon Nano-Onion Peroxidase Composite Biosensor for Electrochemical Detection of 2,4-D and 2,4,5-T. 2021 , 11, 6889	2
171	Carbon Nanotube (CNTs): Structure, Synthesis, Purification, Functionalisation, Pharmacology, Toxicology, Biodegradation and Application as Nanomedicine and Biosensor. 2021 , 001,	0
170	Designing biopolymer-based artificial peroxidase for oxidative removal of dibenzothiophene from a model diesel fuel. 2021 , 183, 1784-1793	2
169	Dye Decoloring Peroxidase Structure, Catalytic Properties and Applications: Current Advancement and Futurity. 2021 , 11, 955	3
168	Magnetic nanomaterials with unique nanozymes-like characteristics for colorimetric sensors: A review. 2021 , 230, 122299	21
167	Mg and Ni nano-hydroxalates modified with gold nanoparticles as platform of enzymatic electrochemical sensors for H ₂ O ₂ detection. 2021 , 33, 100446	
166	Rapid and highly sensitive colorimetric biosensor for the detection of glucose and hydrogen peroxide based on nanoporphyrin combined with bromine as a peroxidase-like catalyst. 2021 , 343, 130104	3
165	Mn(II)-Mn(III)-Mn(IV) redox cycling inhibits the removal of methylparaben and acetaminophen mediated by horseradish peroxidase: New insights into the mechanism. 2021 , 788, 147788	5
164	A general approach to protein folding using thermostable exoshells. <i>Nature Communications</i> , 2021 , 12, 5720	17.4 0
163	Biosynthesis and Regulation of Antioxidant Flavonolignans in Milk Thistle.	
162	Development of a horseradish peroxidase-Fenton-like system for the degradation of sulfamethazine under weak acid condition. 2021 , 1	2
161	Potential of unglycosylated horseradish peroxidase variants for enzyme prodrug cancer therapy. 2021 , 142, 112037	0
160	Challenges in the design of electrochemical sensor for glyphosate-based on new materials and biological recognition. 2021 , 793, 148496	7
159	Cu-Fe Prussian blue analog nanocube with intrinsic oxidase mimetic behaviour for the non-invasive colorimetric detection of Isoniazid in human urine. 2021 , 171, 106854	1
158	Nanozymes: Activity origin, catalytic mechanism, and biological application. 2021 , 448, 214170	26
157	Highly effective enzymes immobilization on ceramics: Requirements for supports and enzymes. 2021 , 801, 149647	8
156	Co-degradation of coexisting pollutants methylparaben (mediators) and amlodipine in enzyme-mediator systems: Insight into the mediating mechanism. 2022 , 423, 127112	3
155	Enzymes, Aptamers, and Their Use in Sensors. 2021 ,	1

154	Chemical binding of horseradish peroxidase enzyme with poly beta-cyclodextrin and its application as molecularly imprinted polymer for the monitoring of H ₂ O ₂ in human plasma samples. 2021 , 34, e2884	7
153	Nanozyme: a New Strategy Combating Bacterial. 2021 , 36, 257	0
152	Proximity labeling approaches to study protein complexes during virus infection. 2021 , 109, 63-104	1
151	Enzymes in Quality and Processing of Tropical and Subtropical Fruits. 35-51	4
150	Peroxidases and Other Enzymes from Red Beet Hairy Roots. 2013 , 283-333	1
149	Toxicity, Immunogenicity, Uptake, and Kinetics Methods for CPPs. 2015 , 1324, 133-48	17
148	Oxidoreductases: Overview and Practical Applications. 2019 , 39-55	6
147	Immobilized Peroxidase Catalyzed Decolorization and Degradation of Industrially Important Dyes from Polluted Water. 2019 , 139-166	2
146	Fungal Peroxygenases: A Phylogenetically Old Superfamily of Heme Enzymes with Promiscuity for Oxygen Transfer Reactions. 2020 , 369-403	32
145	Soil Bioremediation Strategies Based on the Use of Fungal Enzymes. 2009 , 123-149	16
144	Molecular Phylogeny of Heme Peroxidases. 2010 , 7-35	28
143	Kinetics and Mechanisms for Nanozymes. 2020 , 17-39	5
142	Iron Oxide Nanozyme: A Multifunctional Enzyme Mimetics for Biomedical Application. 2020 , 105-140	22
141	Microbial Peroxidases and Their Unique Catalytic Potentialities to Degrade Environmentally Related Pollutants. 2020 , 1-24	3
140	Monitoring the kinetics of biocatalytic removal of the endocrine disrupting compound 17 β -ethinylestradiol from differently polluted wastewater bodies. 2017 , 5, 1920-1926	19
139	Development of Environmentally-Friendly Preparation and Surface-Modification of Polymer Particles by Enzymatic Polymerization. 2013 , 70, 386-397	2
138	How modification of accessible lysines to phenylalanine modulates the structural and functional properties of horseradish peroxidase: a simulation study. 2014 , 9, e109062	3
137	Ultra-high-throughput screening of an in vitro-synthesized horseradish peroxidase displayed on microbeads using cell sorter. 2015 , 10, e0127479	19

136	Analyzing pepsin degradation assay conditions used for allergenicity assessments to ensure that pepsin susceptible and pepsin resistant dietary proteins are distinguishable. 2017 , 12, e0171926	12
135	Activity of polyphenoloxidase and peroxidase in non-dormant potato tubers treated with sprout suppressors. 2020 , 40, 222-227	3
134	Reverse Genetic Approach to Exploring Genes Responsible for Cell-Wall Dynamics in Supporting Tissues of <i>Arabidopsis thaliana</i> under Microgravity Conditions. 2007 , 21, 48-55	5
133	Partial purification and biochemical characterization of peroxidase from rosemary (<i>Rosmarinus officinalis</i> L.) leaves. 2015 , 4, 159	9
132	Calcium Salts Enhance Activity and Azo Dye Decolourisation Capacity of Crude Peroxidase from <i>Armoracia rusticana</i> . 2014 , 05, 212-218	4
131	The Use of Crude Extract of Kohlrabi (<i>Brassica oleracea gongylodes</i>) as a Source of Peroxidase in the Spectrofluorimetric Determination of Thiamine. 2007 , 28, 246-250	3
130	Production of Recombinant Horseradish Peroxidase in an Engineered Cell-free Protein Synthesis System. 2021 , 9, 778496	0
129	Anthocyanin stability and degradation in plants. 2021 , 1987767	4
128	Enzyme prodrug therapy: cytotoxic potential of paracetamol turnover with recombinant horseradish peroxidase. 2021 , 152, 1389-1397	0
127	Bioorthogonal Functionalization of Material Surfaces with Bioactive Molecules.	
126	Structure and Redox Transformations of Iron(III) Complexes with Some Biologically Important Indole-3-Alkanoic Acids in Aqueous Solutions. 2007 , 2, 88-92	
125	Processing of Biosensing Materials and Biosensors. 2008 , 401-453	
124	Enzymatic Removal of Aqueous Pentachlorophenol. 2008 , 273-290	
123	Immunosensors: Using Antibodies to Develop Biosensors for Detecting Pathogens and Their Toxins. 2013 , 1-19	
122	BIOKATALIZINI AROMATINI HIDROKSI DARINI OKSIDACIJA. 2013 ,	
121	THERMOSENSITIVE NANOCAPSULES FOR EFFECTIVE IMMOBILIZATION AND RECYCLING OF HORSE RADISH PEROXIDASE. 2013 , 013, 542-548	
120	Comparison of different solvents for isolation of antioxidant compounds of horseradish. 2014 , 8, 12-17	1
119	Bio-compatible Nanomaterials. 2015 , 27-39	

118	Immunosensors: Using Antibodies to Develop Biosensors for Detecting Pathogens and Their Toxins. 2015 , 273-294		
117	Development of a Peroxidase-Fused Protein Reagent by <i>Brevibacillus choshinensis</i> Heterologous Expression System. 2015 , 41, 157-161		
116	Practical Considerations Regarding the Choice of the Best High-Throughput Assay. 2018 , 1685, 189-208		1
115	Role of Enzymes From Microbes in the Treatment of Recalcitrant From Industries. 2018 , 395-420		0
114	Immobilized Enzymes of the Class of Oxidoreductases in Technological Processes: Review. 2019 , 19, 59-72		1
113	Modification of Periodate Oxidation Method to Produce HRP-IgG Conjugate and Test its Stability Overtime. 2019 , 09, 52-63		
112	Enzymatic synthesis, characterization and properties of the protein-polysaccharide conjugate: A review. <i>Food Chemistry</i> , 2022 , 372, 131332	8.5	6
111	A simple magnetic nanoparticle-poly-enzyme nanobead sandwich assay for direct, ultrasensitive DNA detection. 2020 , 630, 453-480		0
110	Study on the Relationship between the Purity of Horseradish Peroxidase and Efficacy on the Degradation of Benzaldehyde. 2020 , 08, 14-20		
109	Bioremediation of synthetic dyes: Dye decolorizing peroxidases (DyPs). 2020 , 453-486		1
108	Analysis of the Partitioning Behavior of Horseradish Peroxidase to Phospholipid and Surfactant Membranes. 2020 , 27, 113-123		
107	Breakthroughs in the discovery and use of different peroxidase isoforms of microbial origin. 2020 , 6, 330-349		5
106	CHAPTER 13:POCT for Nucleic Acids by Using Colorimetric Nanoprobes. 2020 , 279-302		
105	Carthamin Synthase Provides New Insight into Traditional 'Beni' Red Pigment Production from Safflowers. 2021 , 62, 1506-1508		0
104	Detoxification of sunset yellow and brilliant blue dyes using soybean peroxidases. 2021 , 100215		0
103	Conformational changes of a chemically modified HRP: formation of a molten globule like structure at pH 5. 2014 , 13, 611-22		2
102	Structural insights into the effects of charge-reversal substitutions at the surface of horseradish peroxidase. 2016 , 5, 175-192		
101	Tyrosinase-mediated hydrogel crosslinking for tissue engineering. 51887		5

100	Enzyme-mimicking capacities of carbon-dots nanozymes: Properties, catalytic mechanism, and applications - A review. 2021 ,		11
99	Von der Wurzel ins Labor: Meerrettichperoxidase produziert in E. coli. <i>BioSpektrum</i> , 2021 , 27, 773-775	0.1	
98	Metal-supported self-assembled bilayer lipid membrane incorporated with peroxidase for the detection of peroxide. <i>Results in Engineering</i> , 2021 , 12, 100312	3.3	
97	Immobilisation and stabilisation of glycosylated enzymes on boronic acid-functionalised silica nanoparticles. <i>Chemical Communications</i> , 2021 , 57, 11960-11963	5.8	2
96	Central composite design, Pareto analysis, and artificial neural network for modeling of microwave processing parameters for tender coconut water. <i>Measurement Food</i> , 2022 , 5, 100015		4
95	Green remediation potential of immobilized oxidoreductases to treat halo-organic pollutants persist in wastewater and soil matrices - A way forward.. <i>Chemosphere</i> , 2021 , 290, 133305	8.4	1
94	Facile Synthesis of Iron Oxide Nanozymes for Synergistically Colorimetric and Magnetic Resonance Detection Strategy.. <i>Journal of Biomedical Nanotechnology</i> , 2021 , 17, 582-594	4	1
93	Insights into nucleic acid-based self-assembling nanocarriers for targeted drug delivery and controlled drug release.. <i>Journal of Controlled Release</i> , 2021 , 341, 869-869	11.7	1
92	Yacon (<i>Smallanthus sonchifolius</i>) peel as a promising peroxidase source for the treatment of phenolic wastewater. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022 , 39, 102254	4.2	0
91	Horseradish Peroxidase-Functionalized Gold Nanoconjugates for Breast Cancer Treatment Based on Enzyme Prodrug Therapy.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 409-422	7.3	0
90	Nitric oxide and hydrogen sulfide interactions in plants under adverse environmental conditions. 2022 , 215-244		0
89	Recombinant Peroxidase Has Similar Substrate Specificity Profiles as, but a Catalytic Efficiency up to 11-Fold Higher than, Horseradish Peroxidase.. <i>Journal of Agricultural and Food Chemistry</i> , 2022 ,	5.7	0
88	Fish oil Nano-emulsion Kills Macrophage: Ferroptosis and Autophagy Triggered by Catalase-catalysed Superoxide Eruption.		
87	Identification of Fe(III)OH species as a catalytic intermediate in plant peroxidases at high H ₂ O ₂ concentration. <i>New Journal of Chemistry</i> , 2022 , 46, 4579-4586	3.6	0
86	Aldehyde , -dimethylhydrazone-based fluorescent substrate for peroxidase-mediated assays.. <i>RSC Advances</i> , 2022 , 12, 8668-8673	3.7	1
85	A Recyclable UcsT-Type Biocatalyst for Catalytic Degradation of Phenol/H ₂ O ₂ . <i>SSRN Electronic Journal</i> ,	1	
84	Heme peroxidases are responsible for the dehydrogenation and oxidation metabolism of harmaline into harmine.. <i>Chinese Journal of Natural Medicines</i> , 2022 , 20, 194-201	2.8	
83	Biomimic Nanozymes with Tunable Peroxidase-like Activity Based on the Confinement Effect of Metal-Organic Frameworks (MOFs) for Biosensing.. <i>Analytical Chemistry</i> , 2022 ,	7.8	9

82	Essential Protective Role of Catalytically Active Antibodies (Abzymes) with Redox Antioxidant Functions in Animals and Humans.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	4
81	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 114269	18.5	2
80	Thermosonication inactivation of horseradish peroxidase with different frequency modes: Effect on activity, structure, morphology and mechanisms.. <i>Food Chemistry</i> , 2022 , 384, 132537	8.5	1
79	Enzymatic Crosslinked Hydrogels for Biomedical Application. <i>Polymer Science - Series A</i> , 2021 , 63, S1-S22	1.2	1
78	Phenolic Compounds and Oxidative Enzymes Involved in Female Fertility in Banana Plants of the Cavendish Subgroup.. <i>Plants</i> , 2021 , 10,	4.5	0
77	Hollow Pt Nanocage@Mesoporous SiO ₂ Nanoreactors as a Nanozyme for Colorimetric Immunoassays of Viral Diagnosis. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1553-1561	5.6	0
76	Recent developments in the synthesis of bio-inspired iron porphyrins for small molecule activation.. <i>Chemical Communications</i> , 2022 ,	5.8	1
75	Engineering single-atom catalysts toward biomedical applications.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	6
74	Current understanding on insights towards protein stabilization and activation in deep eutectic solvents as a sustainable solvent media. <i>Physical Chemistry Chemical Physics</i> ,	3.6	2
73	Second Sphere Effects on Oxygen Reduction and Peroxide Activation by Mononuclear Iron Porphyrins and Related Systems.. <i>Chemical Reviews</i> , 2022 ,	68.1	4
72	Advances on removal of organophosphorus pesticides with electrochemical technology.. <i>Critical Reviews in Food Science and Nutrition</i> , 2022 , 1-18	11.5	0
71	Data_Sheet_1.docx. 2018 ,		
70	Sustained-release nanocapsule based on a 3D COF for long-term enzyme prodrug therapy of cancer.. <i>Chemical Communications</i> , 2022 ,	5.8	1
69	Morphoanatomy and Histochemistry of Septal Nectaries Related to Female Fertility in Banana Plants of the 'Cavendish' Subgroup.. <i>Plants</i> , 2022 , 11,	4.5	0
68	Insertion of Hemin into Metal-Organic Frameworks: Mimicking Natural Peroxidase Microenvironment for the Rapid Ultrasensitive Detection of Uranium.. <i>Analytical Chemistry</i> , 2022 ,	7.8	2
67	Enhanced Catalytic Activity of a New Nanobiocatalytic System Formed by the Adsorption of Cytochrome c on Pluronic Triblock Copolymer Stabilized MoS ₂ Nanosheets. <i>ACS Omega</i> ,	3.9	
66	Inactivation Kinetics of G-Quadruplex/Hemin Complex and Optimization for More Reliable Catalysis.. <i>ChemPlusChem</i> , 2022 , e202200090	2.8	0
65	Self-assembly of fibril-forming histidine-rich peptides for cofactor-free oxidase-mimetic catalysis. 2022 , 1, 100012		4

64	Highly stable and tunable peptoid/hemin enzymatic mimetics with natural peroxidase-like activities. <i>Nature Communications</i> , 2022 , 13,	17.4	5
63	Effect of N-glycosylation on horseradish peroxidase structural and dynamical properties. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 3096-3105	6.8	0
62	The Divergent Ph Dependence of Substrate Turnover in Dehaloperoxidases a and B. <i>SSRN Electronic Journal</i> ,	1	
61	Novel Unspecific Peroxygenase from <i>Truncatella angustata</i> Catalyzes the Synthesis of Bioactive Lipid Mediators. <i>Microorganisms</i> , 2022 , 10, 1267	4.9	
60	Effects of peroxidase and superoxide dismutase on physicochemical stability of fish oil-in-water emulsion. <i>Npj Science of Food</i> , 2022 , 6,	6.3	0
59	Peroxidase-triggered formation of fluorescent peptide-based nanoarchitectonics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 648, 129406	5.1	0
58	Catalysis and Electron Transfer in De Novo Designed Metalloproteins. <i>Chemical Reviews</i> ,	68.1	3
57	Peroxidase Activity of Myoglobin Variants Reconstituted with Artificial Cofactors. <i>ChemBioChem</i> ,	3.8	0
56	What are inorganic nanozymes? Artificial or inorganic enzymes. 2022 , 46, 15273-15291		0
55	Enzyme-Mimicking Materials from Designed Self-Assembly of Lysine-Rich Peptides and G-Quadruplex DNA/Hemin DNAzyme: Charge Effect of the Key Residues on the Catalytic Functions. 2022 , 23, 3469-3476		0
54	Activity of AC electrokinetically immobilized horseradish peroxidase.		0
53	Catalytic Reactivity Supported by Redox-Active Ligands Framing: A Mini Review.		
52	Current Perspectives in Graphene Oxide-Based Electrochemical Biosensors for Cancer Diagnostics. 2022 , 12, 607		0
51	Applications of protein crosslinking in food products. 2022 , 29, 723-739		
50	Nanomaterial-based electrochemical enzymatic biosensors for recognizing phenolic compounds in aqueous effluents. 2022 , 214, 113858		1
49	Switchable Enzyme-mimicking catalysts Self-Assembled from de novo designed peptides and DNA G-quadruplex/hemin complex. 2022 , 628, 1004-1011		1
48	Biological Activity and Optical Sensor Properties of Green Synthesis Polymer. 2022 , 7,		0
47	Protein sustained release from isobutyramide-grafted stellate mesoporous silica nanoparticles. 2022 , 4, 100130		0

- 46 Role of Neighbouring Amino Acid Residue in Horseradish Peroxidase-Catalyzed O,O'-Dityrosine Crosslink in Tyrosyl Dipeptides. ○
- 45 A Recyclable UCST-Type Biocatalyst to Catalyze H₂O₂ Degradation of Phenol. ○
- 44 An Atom-Economic Enzymatic Cascade Catalysis for High-Throughput RAFT Synthesis of Ultrahigh Molecular Weight Polymers. 1
- 43 Enzyme-Triggered Crosslinked Hybrid Hydrogels for Bone Tissue Engineering. **2022**, 15, 6383 ○
- 42 Copper Nanoparticle/N-Doped Ti₃C₂T_x MXene Hybrids with Enhanced Peroxidase-like Activity for Colorimetric Glucose Sensing. ○
- 41 An Atom-Economic Enzymatic Cascade Catalysis for High-Throughput RAFT Synthesis of Ultrahigh Molecular Weight Polymers. ○
- 40 Assessing the Influence of Betaine-Based Natural Deep Eutectic Systems on Horseradish Peroxidase. **2022**, 10, 12873-12881 ○
- 39 N-linked glycosylation increases horse radish peroxidase rigidity leading to enhanced activity and stability. ○
- 38 Luminescence nanomaterials for biosensing applications. ○
- 37 Spectrophotometric determination of glucose in human serum samples using para-phenylenediamine and alpha-naphthol as a chromogenic reagent. ○
- 36 Regulating the Coordination Environment of Mesopore-Confined Single Atoms from Metalloprotein-MOFs for Highly Efficient Biocatalysis. 2205674 ○
- 35 Engineering Single-Atom Iron Nanozymes with Radiation-Enhanced Self-Cascade Catalysis and Self-Supplied H₂O₂ for Radio-enzymatic Therapy. 1
- 34 Thermosensitive Polymer Conjugated Prodrug-Activating Enzyme with Enhanced Tumor Retention and Antitumor Efficacy. ○
- 33 Cupric Oxide Nanozymes for Biomedical Applications. 117-133 ○
- 32 The divergent pH dependence of substrate turnover in dehaloperoxidases A and B. **2022**, 112029 ○
- 31 Covalent immobilizing horseradish peroxidase on electrochemically-functionalized biochar for phenol removal. **2023**, 312, 137218 ○
- 30 Effects of hemicelluloses on dehydrogenative polymerization of monolignols with cationic cell wall-bound peroxidase. **2023**, 301, 120305 1
- 29 Nanobody@Biomimetic mineralized MOF as a sensing immunoprobe in detection of aflatoxin B1. **2023**, 220, 114906 ○

- 28 MOF Catalysis Meets Biochemistry: Molecular Insights from the Hydrolytic Activity of MOFs Towards Biomolecules. 1
- 27 Composite silk fibroin hydrogel scaffolds for cartilage tissue regeneration. **2023**, 79, 104018 0
- 26 A recyclable UCST-type biocatalyst to catalyze H₂O₂ degradation of phenol. **2023**, 11, 109072 0
- 25 In silico analysis of peroxidase from *Luffa acutangula*. **2023**, 13, 0
- 24 Supramolecular Enzyme-mimicking Catalysts Self-assembled from Peptides. **2022**, 105831 0
- 23 Mathematical Modeling of Enzymatically Cross-linked Polymer-Phenol Conjugates Using Deterministic and Stochastic Methods. 0
- 22 Self-assembly of the De novo Designed Peptides to Produce Supramolecular Catalysts with Built-in Enzyme-like Active Sites: A Review of Structure-Activity Relationship. **2023**, 100302 0
- 21 Polyaniline Entrapped Water-Dispersible 3MPA-ZnSe Quantum Dots and Their Application for the Development of an Enzymatic Electrochemical Nanobiosensor for the Detection of 17 β -Estradiol, an Endocrine-Disrupting Compound. 0
- 20 Zn^{II} dual atomic site catalyst featuring metal-metal interactions as a nanozyme with peroxidase-like activity. 0
- 19 Ferric heme b in aqueous micellar and vesicular systems. State of the art and challenges. 1-147 0
- 18 Bioorthogonal Functionalization of Material Surfaces with Bioactive Molecules. 0
- 17 Carbon Electrode-Based Biosensing Enabled by Biocompatible Surface Modification with DNA and Proteins. 0
- 16 Prospecting bio-enzymes for a greener environment. **2023**, 451-470 0
- 15 Biocatalysis for biorefineries: The case of dye-decolorizing peroxidases. **2023**, 65, 108153 0
- 14 H₂O₂ activation over Cu-Schiff bases nanozyme for the removal of amlodipine: Kinetics, mechanism and toxicity evaluation. **2023**, 311, 123329 0
- 13 Controlling Radical Polymerization with Biocatalysts. **2023**, 56, 751-761 0
- 12 Recent Advances on Peptide-Based Biosensors and Electronic Noses for Foodborne Pathogen Detection. **2023**, 13, 258 0
- 11 Chimeric Biocatalyst Combining Peptidic and Nucleic Acid Components Overcomes the Performance and Limitations of the Native Horseradish Peroxidase. **2023**, 145, 4517-4526 0

- 10 Development of Novel Electrochemical Biosensors Based on Horseradish Peroxidase for the Detection of Caffeic Acid. **2023**, 13, 2526
- 9 Effect of high-pressure processing on enzyme activity in roots, cereals, nuts, and their products. **2023**, 299-329
- 8 Polyelectrolyte assembly with nanoparticle-immobilized enzymes. **2023**, 61-87
- 7 Research Progress in Enzymatically Cross-Linked Hydrogels as Injectable Systems for Bioprinting and Tissue Engineering. **2023**, 9, 230
- 6 Iron oxide and enzyme interface. **2023**, 257-286
- 5 Molecular co-assembly of multicomponent peptides for the generation of nanomaterials with improved peroxidase activities.
- 4 Glycosylation increases active site rigidity leading to improved enzyme stability and turnover.
- 3 Improving the activity of horseradish peroxidase in betaine-based natural deep eutectic systems.
- 2 Carbon nanostructures for energy generation and storage. **2023**, 57-94
- 1 A Highly Stable Graphene-Based Metal Oxide Nano Enzyme with the Peroxidase-Mimetic Activity for Equipment-Free Diagnosis of Diabetic Patients. **2023**, 8,