

Elena Rosini

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,893
citations

257450

24
h-index

276875

41
g-index

62
all docs

62
docs citations

62
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin-degrading enzymes. FEBS Journal, 2015, 282, 1190-1213.	4.7	347
2	Properties and applications of microbial D-amino acid oxidases: current state and perspectives. Applied Microbiology and Biotechnology, 2008, 78, 1-16.	3.6	131
3	D-Amino Acid Oxidase Inhibitors as a Novel Class of Drugs for Schizophrenia Therapy. Current Pharmaceutical Design, 2013, 19, 2499-2511.	1.9	84
4	D-amino acids in foods. Applied Microbiology and Biotechnology, 2020, 104, 555-574.	3.6	76
5	Glyphosate Resistance by Engineering the Flavoenzyme Glycine Oxidase. Journal of Biological Chemistry, 2009, 284, 36415-36423.	3.4	70
6	Evolution of an acylase active on cephalosporin C. Protein Science, 2005, 14, 3064-3076.	7.6	69
7	Enzymatic Conversion of Unnatural Amino Acids by Yeast D-Amino Acid Oxidase. Advanced Synthesis and Catalysis, 2006, 348, 2183-2190.	4.3	59
8	Comparison of different microbial laccases as tools for industrial uses. New Biotechnology, 2016, 33, 387-398.	4.4	55
9	O ₂ Reactivity of Flavoproteins. Journal of Biological Chemistry, 2010, 285, 24439-24446.	3.4	52
10	Cephalosporin C acylase: dream and/or reality. Applied Microbiology and Biotechnology, 2013, 97, 2341-2355.	3.6	50
11	A biosensor for all d-amino acids using evolved d-amino acid oxidase. Journal of Biotechnology, 2008, 135, 377-384.	3.8	45
12	Olanzapine, but not clozapine, increases glutamate release in the prefrontal cortex of freely moving mice by inhibiting D-aspartate oxidase activity. Scientific Reports, 2017, 7, 46288.	3.3	44
13	Enzymatic transformation of aflatoxin B1 by Rh_DypB peroxidase and characterization of the reaction products. Chemosphere, 2020, 250, 126296.	8.2	41
14	Modulating D-amino acid oxidase substrate specificity: production of an enzyme for analytical determination of all D-amino acids by directed evolution. Protein Engineering, Design and Selection, 2004, 17, 517-525.	2.1	34
15	Cascade enzymatic cleavage of the β-O-4 linkage in a lignin model compound. Catalysis Science and Technology, 2016, 6, 2195-2205.	4.1	34
16	Multistep enzyme catalysed deracemisation of 2-naphthyl alanine. Biocatalysis and Biotransformation, 2006, 24, 409-413.	2.0	33
17	Optimization of D-amino acid oxidase for low substrate concentrations towards a cancer enzyme therapy. FEBS Journal, 2009, 276, 4921-4932.	4.7	32
18	Characterization and use of a bacterial lignin peroxidase with an improved manganese-oxidative activity. Applied Microbiology and Biotechnology, 2018, 102, 10579-10588.	3.6	32

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19	A valuable peroxidase activity from the novel species <i>Nonomuraea gerenzanensis</i> growing on alkali lignin. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2017, 13, 49-57.	4.4	31
20	The levels of the NMDA receptor co-agonist D-serine are reduced in the substantia nigra of MPTP-lesioned macaques and in the cerebrospinal fluid of Parkinson's disease patients. <i>Scientific Reports</i> , 2019, 9, 8898.	3.3	31
21	Assays of D-Amino Acid Oxidase Activity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 102.	3.5	30
22	Advances in Enzymatic Synthesis of D-Amino Acids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3206.	4.1	28
23	Deracemization and Stereoconversion of α -Amino Acids by α -Amino Acid Deaminase. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3773-3781.	4.3	27
24	Structure of a class III engineered cephalosporin acylase: comparisons with class I acylase and implications for differences in substrate specificity and catalytic activity. <i>Biochemical Journal</i> , 2013, 451, 217-226.	3.7	26
25	Isolation and characterization of a heterologously expressed bacterial laccase from the anaerobe <i>Geobacter metallireducens</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2425-2439.	3.6	26
26	Biosensors for D-Amino Acids: Detection Methods and Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4574.	4.1	26
27	Intrinsic antimicrobial properties of silk spun by genetically modified silkworm strains. <i>Transgenic Research</i> , 2018, 27, 87-101.	2.4	24
28	Bacterial Nanocellulose and Its Surface Modification by Glycidyl Methacrylate and Ethylene Glycol Dimethacrylate. Incorporation of Vancomycin and Ciprofloxacin. <i>Nanomaterials</i> , 2019, 9, 1668.	4.1	22
29	Strategic manipulation of an industrial biocatalyst " evolution of a cephalosporin C acylase. <i>FEBS Journal</i> , 2014, 281, 2443-2455.	4.7	21
30	Binding Residence Time through Scaled Molecular Dynamics: A Prospective Application to hDAAO Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 2255-2265.	5.4	21
31	Demethylation of vanillic acid by recombinant LigM in a one-pot cofactor regeneration system. <i>Catalysis Science and Technology</i> , 2016, 6, 7729-7737.	4.1	17
32	On the reaction of α -amino acid oxidase with dioxygen: O_2 diffusion pathways and enhancement of reactivity. <i>FEBS Journal</i> , 2011, 278, 482-492.	4.7	16
33	Novel biosensors based on optimized glycine oxidase. <i>FEBS Journal</i> , 2014, 281, 3460-3472.	4.7	16
34	A novel, simple screening method for investigating the properties of lignin oxidative activity. <i>Enzyme and Microbial Technology</i> , 2017, 96, 143-150.	3.2	16
35	Antimicrobial Role of RNASET2 Protein During Innate Immune Response in the Medicinal Leech <i>Hirudo verbana</i> . <i>Frontiers in Immunology</i> , 2020, 11, 370.	4.8	16
36	An antibody-based enzymatic therapy for cancer treatment: The selective localization of D-amino acid oxidase to EDA fibronectin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 36, 102424.	3.3	16

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37	Different recombinant forms of polyphenol oxidase A, a laccase from <i>Marinomonas mediterranea</i> . <i>Protein Expression and Purification</i> , 2016, 123, 60-69.	1.3	15
38	Reactive oxygen species as a double-edged sword: The role of oxidative enzymes in antitumor therapy. <i>BioFactors</i> , 2022, 48, 384-399.	5.4	15
39	<i>In vitro</i> evolution of an <i>l</i> -amino acid deaminase active on <i>l</i> -1-naphthylalanine. <i>Catalysis Science and Technology</i> , 2018, 8, 5359-5367.	4.1	13
40	Biosensors for d-Amino Acid Detection. <i>Methods in Molecular Biology</i> , 2012, 794, 313-324.	0.9	11
41	On the substrate preference of glutaryl acylases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 76, 52-58.	1.8	11
42	Engineering methionine β -lyase from <i>Citrobacter freundii</i> for anticancer activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 1260-1270.	2.3	11
43	D-Amino Acid Oxidase-pLG72 Interaction and D-Serine Modulation. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 3.	3.5	11
44	PEG-DAAO conjugate: A promising tool for cancer therapy optimized by protein engineering. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102122.	3.3	11
45	Engineering substrate promiscuity in halophilic alcohol dehydrogenase (HvADH2) by <i>in silico</i> design. <i>PLoS ONE</i> , 2017, 12, e0187482.	2.5	11
46	Activity of yeast d-amino acid oxidase on aromatic unnatural amino acids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 50, 93-98.	1.8	10
47	Analyzing the d-amino acid content in biological samples by engineered enzymes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3235-3239.	2.3	10
48	Evolution of histamine oxidase activity for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 739-748.	3.6	10
49	Characterization and Investigation of Redox-Sensitive Liposomes for Gene Delivery. <i>Methods in Molecular Biology</i> , 2016, 1445, 217-233.	0.9	9
50	Glycine oxidase from <i>Bacillus subtilis</i> : Role of Histidine 244 and Methionine 261. <i>Biochimie</i> , 2007, 89, 1372-1380.	2.6	8
51	One-pot conversion of cephalosporin C by using an optimized two-enzyme process. <i>Catalysis Science and Technology</i> , 2015, 5, 1854-1863.	4.1	8
52	Antibacterial Properties of D-Amino Acid Oxidase: Impact on the Food Industry. <i>Frontiers in Microbiology</i> , 2019, 10, 2786.	3.5	7
53	Multi-Enzymatic Cascade Reactions for the Synthesis of <i>cis,cis</i> - μ -muconic Acid. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 114-123.	4.3	7
54	Expression of rat diamine oxidase in <i>Escherichia coli</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 82, 115-120.	1.8	5

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55	Immobilization of <i>l</i> -aspartate oxidase from <i>Sulfolobus tokodaii</i> as a biocatalyst for resolution of aspartate solutions. <i>Catalysis Science and Technology</i> , 2015, 5, 1106-1114.	4.1	5
56	Expression and purification of the human tumor suppressor protein RNASET2 in CHO-S cells. <i>Protein Expression and Purification</i> , 2020, 174, 105675.	1.3	2
57	Unveiling the Bio-corona Fingerprinting of Potential Anticancer Carbon Nanotubes Coupled with <i>d</i> -Amino Acid Oxidase. <i>Molecular Biotechnology</i> , 2022, 64, 1164-1176.	2.4	2
58	Unveiling the Atomic-Level Determinants of Acylase-Ligand Complexes: An Experimental and Computational Study. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2227-2241.	5.4	1
59	A comprehensive practical laboratory course on protein engineering: Evolution of a glycine oxidase variant active on the herbicide glyphosate. <i>Biochemistry and Molecular Biology Education</i> , 2019, 47, 689-699.	1.2	1
60	High-Throughput Strategy for Glycine Oxidase Biosensor Development Reveals Glycine Release from Cultured Cells. <i>Analytical Chemistry</i> , 2021, , .	6.5	1
61	CASCAT: The Power of The Combined Protein Engineering Approach: Evolution of A Glycine Oxidase for A Novel Mechanism of Glyphosate Tolerance†. <i>Journal of Biotechnology</i> , 2010, 150, 122-123.	3.8	0