

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	Multi-Enzymatic Cascade Reactions for the Synthesis of <i>cis,cis</i> -Muconic Acid. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 114-123.	4.3	7
2	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
3	Unveiling the Bio-corona Fingerprinting of Potential Anticancer Carbon Nanotubes Coupled with d-Amino Acid Oxidase. <i>Molecular Biotechnology</i> , 2022, 64, 1164-1176.	2.4	2
4	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
5	High-Throughput Strategy for Glycine Oxidase Biosensor Development Reveals Glycine Release from Cultured Cells. <i>Analytical Chemistry</i> , 2021, , .	6.5	1
6	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
7	D-amino acids in foods. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 555-574.	3.6	76
8	Advances in Enzymatic Synthesis of D-Amino Acids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3206.	4.1	28
9	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
10	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
11	Biosensors for D-Amino Acids: Detection Methods and Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4574.	4.1	26
12	Enzymatic transformation of aflatoxin B1 by Rh_DypB peroxidase and characterization of the reaction products. <i>Chemosphere</i> , 2020, 250, 126296.	8.2	41
13	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
14	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
15	Antibacterial Properties of D-Amino Acid Oxidase: Impact on the Food Industry. <i>Frontiers in Microbiology</i> , 2019, 10, 2786.	3.5	7
16	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
17	Intrinsic antimicrobial properties of silk spun by genetically modified silkworm strains. <i>Transgenic Research</i> , 2018, 27, 87-101.	2.4	24
18	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

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19	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
20	<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
21	Characterization and use of a bacterial lignin peroxidase with an improved manganese-oxidative activity. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10579-10588.	3.6	32
22	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
23	D-Amino Acid Oxidase-pLG72 Interaction and D-Serine Modulation. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 3.	3.5	11
24	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
25	Olanzapine, but not clozapine, increases glutamate release in the prefrontal cortex of freely moving mice by inhibiting D-aspartate oxidase activity. <i>Scientific Reports</i> , 2017, 7, 46288.	3.3	44
26	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
27	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
28	Assays of D-Amino Acid Oxidase Activity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 102.	3.5	30
29	Engineering substrate promiscuity in halophilic alcohol dehydrogenase (HvADH2) by in silico design. <i>PLoS ONE</i> , 2017, 12, e0187482.	2.5	11
30	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
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	Characterization and Investigation of Redox-Sensitive Liposomes for Gene Delivery. <i>Methods in Molecular Biology</i> , 2016, 1445, 217-233.	0.9	9
33	Cascade enzymatic cleavage of the β -O-4 linkage in a lignin model compound. <i>Catalysis Science and Technology</i> , 2016, 6, 2195-2205.	4.1	34
34	Comparison of different microbial laccases as tools for industrial uses. <i>New Biotechnology</i> , 2016, 33, 387-398.	4.4	55
35	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
36	Lignin-degrading enzymes. <i>FEBS Journal</i> , 2015, 282, 1190-1213.	4.7	347

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37	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
38	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
39	Novel biosensors based on optimized glycine oxidase. <i>FEBS Journal</i> , 2014, 281, 3460-3472.	4.7	16
40	Strategic manipulation of an industrial biocatalyst – evolution of a cephalosporin C acylase. <i>FEBS Journal</i> , 2014, 281, 2443-2455.	4.7	21
41	Evolution of histamine oxidase activity for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 739-748.	3.6	10
42	Cephalosporin C acylase: dream and/or reality. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2341-2355.	3.6	50
43	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
44	D-Amino Acid Oxidase Inhibitors as a Novel Class of Drugs for Schizophrenia Therapy. <i>Current Pharmaceutical Design</i> , 2013, 19, 2499-2511.	1.9	84
45	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
46	Biosensors for d-Amino Acid Detection. <i>Methods in Molecular Biology</i> , 2012, 794, 313-324.	0.9	11
47	On the substrate preference of glutaryl acylases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 76, 52-58.	1.8	11
48	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
49	On the reaction of <i>d</i> -amino acid oxidase with dioxygen: O_2 diffusion pathways and enhancement of reactivity. <i>FEBS Journal</i> , 2011, 278, 482-492.	4.7	16
50	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
51	O_2 Reactivity of Flavoproteins. <i>Journal of Biological Chemistry</i> , 2010, 285, 24439-24446.	3.4	52
52	Glyphosate Resistance by Engineering the Flavoenzyme Glycine Oxidase. <i>Journal of Biological Chemistry</i> , 2009, 284, 36415-36423.	3.4	70
53	Optimization of <i>d</i> -amino acid oxidase for low substrate concentrations – towards a cancer enzyme therapy. <i>FEBS Journal</i> , 2009, 276, 4921-4932.	4.7	32
54	Properties and applications of microbial D-amino acid oxidases: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 1-16.	3.6	131

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55	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
56	A biosensor for all d-amino acids using evolved d-amino acid oxidase. <i>Journal of Biotechnology</i> , 2008, 135, 377-384.	3.8	45
57	Glycine oxidase from <i>Bacillus subtilis</i> : Role of Histidine 244 and Methionine 261. <i>Biochimie</i> , 2007, 89, 1372-1380.	2.6	8
58	Multistep enzyme catalysed deracemisation of 2-naphthyl alanine. <i>Biocatalysis and Biotransformation</i> , 2006, 24, 409-413.	2.0	33
59	Enzymatic Conversion of Unnatural Amino Acids by Yeast D-Amino Acid Oxidase. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2183-2190.	4.3	59
60	Evolution of an acylase active on cephalosporin C. <i>Protein Science</i> , 2005, 14, 3064-3076.	7.6	69
61	Modulating D-amino acid oxidase substrate specificity: production of an enzyme for analytical determination of all D-amino acids by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 517-525.	2.1	34