Alberto Di Donato

List of Publications by Year
in descending order

59	2,189	270111	263392
papers	citations	25 h-index	45 g-index

59	59	59	2454
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enzymes as a Reservoir of Host Defence Peptides. Current Topics in Medicinal Chemistry, 2020, 20, 1310-1323.	1.0	5
2	Novosphingobium sp. PP1Y as a novel source of outer membrane vesicles. Journal of Microbiology, 2019, 57, 498-508.	1.3	6
3	Structural and functional insights into RHA-P, a bacterial GH106 Î±-L-rhamnosidase from Novosphingobium sp. PP1Y. Archives of Biochemistry and Biophysics, 2018, 648, 1-11.	1.4	13
4	Novel bioactive peptides from PD-L1/2, a type 1 ribosome inactivating protein from Phytolacca dioica L. Evaluation of their antimicrobial properties and anti-biofilm activities. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1425-1435.	1.4	24
5	Identification of Novel Cryptic Multifunctional Antimicrobial Peptides from the Human Stomach Enabled by a Computationalâ€“Experimental Platform. ACS Synthetic Biology, 2018, 7, 2105-2115.	1.9	63
6	Antimicrobial potency of cationic antimicrobial peptides can be predicted from their amino acid composition: Application to the detection of â€œcrypticâ€•antimicrobial peptides. Journal of Theoretical Biology, 2017, 419, 254-265.	0.8	89
7	Antioxidant Supplementation in the Treatment of Aging-Associated Diseases. Frontiers in Pharmacology, 2016, 7, 24.	1.6	142
8	A new cryptic cationic antimicrobial peptide from human apolipoprotein E with antibacterial activity and immunomodulatory effects on human cells. FEBS Journal, 2016, 283, 2115-2131.	2.2	54
9	Rational Design of a Carrier Protein for the Production of Recombinant Toxic Peptides in Escherichia coli. PLoS ONE, 2016, 11, e0146552.	1.1	39
10	The Toluene o-Xylene Monooxygenase Enzymatic Activity for the Biosynthesis of Aromatic Antioxidants. PLoS ONE, 2015, 10, e0124427.	1.1	12
11	Complete sequencing of Novosphingobium sp. PP1Y reveals a biotechnologically meaningful metabolic pattern. BMC Genomics, 2014, 15, 384.	1.2	44
12	Î±-Rhamnosidase activity in the marine isolate Novosphingobium sp. PP1Y and its use in the bioconversion of flavonoids. Journal of Molecular Catalysis B: Enzymatic, 2014, 105, 95-103.	1.8	13
13	Deepening TOL and TOU catabolic pathways of Pseudomonas sp. OX1: Cloning, sequencing and characterization of the lower pathways. Biochimie, 2013, 95, 241-250.	1.3	4
14	Marine hydrocarbonoclastic bacteria. , 2013, , 373-402.		8
15	PHK from phenol hydroxylase of Pseudomonas sp. OX1. Insight into the role of an accessory protein in bacterial multicomponent monooxygenases. Archives of Biochemistry and Biophysics, 2011, 505, 48-59.	1.4	15
16	Unstable steady state operations of substrate inhibited cultures by dissolved oxygen control. Journal of Biotechnology, 2011, 156, 302-308.	1.9	5
17	The Marine Isolate Novosphingobium sp. PP1Y Shows Specific Adaptation to Use the Aromatic Fraction of Fuels as the Sole Carbon and Energy Source. Microbial Ecology, 2011, 61, 582-594.	1.4	57
18	Tuning the Specificity of the Recombinant Multicomponent Toluene o -Xylene Monooxygenase from Pseudomonas sp. Strain OX1 for the Biosynthesis of Tyrosol from 2-Phenylethanol. Applied and Environmental Microbiology, 2011, 77, 5428-5437.	1.4	26

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19	Molecular Determinants of the Regioselectivity of Toluene/ o -Xylene Monooxygenase from Pseudomonas sp. Strain OX1. Applied and Environmental Microbiology, 2009, 75, 823-836.	1.4	33
20	The structure of the O-specific polysaccharide from the lipopolysaccharide of Pseudomonas sp. OX1 cultivated in the presence of the azo dye Orange II. Carbohydrate Research, 2008, 343, 674-684.	1.1	10
21	Recombinant expression of Toluene o-Xylene Monooxygenase (ToMO) from Pseudomonas stutzeri OX1 in the marine Antarctic bacterium Pseudoalteromonas haloplanktis TAC125. Journal of Biotechnology, 2006, 126, 334-341.	1.9	19
22	The role of residue Thr249 in modulating the catalytic efficiency and substrate specificity of catechol-2,3-dioxygenase from Pseudomonas stutzeri OX1. FEBS Journal, 2006, 273, 2963-2976.	2.2	7
23	The role of electrostatic interactions in the antitumor activity of dimeric RNases. FEBS Journal, 2006, 273, 3687-3697.	2.2	35
24	The biofilm matrix of Pseudomonas sp. OX1 grown on phenol is mainly constituted by alginate oligosaccharides. Carbohydrate Research, 2006, 341, 2456-2461.	1.1	17
25	The structure of the O-polysaccharide from Pseudomonas stutzeri OX1 containing two different 4-acylamido-4,6-dideoxy-residues, tomosamine and perosamine. Carbohydrate Research, 2005, 340, 651-656.	1.1	13
26	The Importance of Dynamic Effects on the Enzyme Activity. Journal of Biological Chemistry, 2005, 280, 17953-17960.	1.6	49
27	Mutation of Glutamic Acid 103 of Toluene o -Xylene Monooxygenase as a Means To Control the Catabolic Efficiency of a Recombinant Upper Pathway for Degradation of Methylated Aromatic Compounds. Applied and Environmental Microbiology, 2005, 71, 4744-4750.	1.4	19
28	Regiospecificity of Two Multicomponent Monooxygenases from Pseudomonas stutzeri OX1: Molecular Basis for Catabolic Adaptation of This Microorganism to Methylated Aromatic Compounds. Applied and Environmental Microbiology, 2005, 71, 4736-4743.	1.4	39
29	The thermophilic archaeon Sulfolobus solfataricus is able to grow on phenol. Research in Microbiology, 2005, 156, 677-689.	1.0	34
30	Crystal Structure of the Toluene/o-Xylene Monooxygenase Hydroxylase from Pseudomonas stutzeri OX1. Journal of Biological Chemistry, 2004, 279, 30600-30610.	1.6	183
31	The Role of the Conserved Residues His-246, His-199, and Tyr-255 in the Catalysis of Catechol 2,3-Dioxygenase from Pseudomonas stutzeri OX1. Journal of Biological Chemistry, 2004, 279, 48630-48639.	1.6	51
32	A novel type of highly negatively charged lipooligosaccharide from Pseudomonas stutzeri OX1 possessing two 4,6-O-(1-carboxy)-ethylidene residues in the outer core region. FEBS Journal, 2004, 271, 2691-2704.	0.2	26
33	Structure of minor oligosaccharides from the lipopolysaccharide fraction from Pseudomonas stutzeri OX1. Carbohydrate Research, 2004, 339, 2657-2665.	1.1	7
34	Phenol Hydroxylase and Toluene/ o -Xylene Monooxygenase from Pseudomonas stutzeri OX1: Interplay between Two Enzymes. Applied and Environmental Microbiology, 2004, 70, 2211-2219.	1.4	113
35	Evolution of Bacterial and Archaeal Multicomponent Monooxygenases. Journal of Molecular Evolution, 2003, 56, 435-445.	0.8	118
36	Expression and purification of the recombinant subunits of toluene/o -xylene monooxygenase and reconstitution of the active complex. FEBS Journal, 2002, 269, 5689-5699.	0.2	67

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37	Solution structure of a sweet protein: NMR study of MNEI, a single chain monellin11Edited by R. Huber. Journal of Molecular Biology, 2001, 305, 505-514.	2.0	67
38	Contribution of Chain Termini to the Conformational Stability and Biological Activity of Onconase. Biochemistry, 2001, 40, 9097-9103.	1.2	41
39	Seminal Ribonuclease: Preparation of Natural and Recombinant Enzyme, Quaternary Isoforms, Isoenzymes, Monomeric Forms; Assay for Selective Cytotoxicity of the Enzyme. Methods in Enzymology, 2001, 341, 248-263.	0.4	12
40	Conformational analysis of putative regulatory subunit D of the toluene/o-xylene-monooxygenase complex from Pseudomonas stutzeri OX1. Protein Science, 2001, 10, 482-490.	3.1	12
41	Onconase:Â An Unusually Stable Proteinâ€. Biochemistry, 2000, 39, 8711-8718.	1.2	68
42	Effective expression and purification of recombinant onconase, an antitumor protein. FEBS Letters, 1999, 463, 211-215.	1.3	50
43	Protein engineering of ribonucleases. Biochimie, 1998, 80, 905-909.	1.3	3
44	Circular dichroism study of ribonuclease A mutants containing the minimal structural requirements for dimerization and swapping. International Journal of Biological Macromolecules, 1998, 23, 277-285.	3.6	9
45	New muteins of RNase A with enhanced antitumor action. FEBS Letters, 1998, 437, 149-152.	1.3	16
46	A recombinant ribosome-inactivating protein from the plantPhytolacca dioicaL. produced from a synthetic gene1. FEBS Letters, 1998, 437, 241-245.	1.3	15
47	Seminal Ribonuclease. , 1997, , 383-VII.		44
48	From Ribonuclease A toward Bovine Seminal Ribonuclease:Â A Step by Step Thermodynamic Analysisâ€. Biochemistry, 1997, 36, 14403-14408.	1.2	20
49	Hints on the evolutionary design of a dimeric RNase with special bioactions. Protein Science, 1995, 4, 1470-1477.	3.1	51
50	The antitumor action of seminal ribonuclease and its quaternary conformations. FEBS Letters, 1995, 359, 31-34.	1.3	71
51	Expression of native dimers of bovine seminal ribonuclease in a eukaryotic cell system. FEBS Letters, 1993, 318, 242-244.	1.3	6
52	Expression in mammalian cells, purification and characterization of recombinant human pancreatic ribonuclease. FEBS Letters, 1993, 333, 233-237.	1.3	18
53	Computer-aided gene design. Protein Engineering, Design and Selection, 1992, 5, 821-825.	1.0	5
54	Seminal RNase: a unique member of the ribonuclease superfamily. Trends in Biochemical Sciences, 1991, 16, 104-106.	3.7	148

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55	Dissociation and reconstitution of bovine seminal RNAase: Construction of a hyperactive hybrid dimer. The Protein Journal, 1989, 8, 719-731.	1.1	11
56	Comparative proton NMR studies of bovine semen and pancreas ribonucleases. BBA - Proteins and Proteomics, 1983, 742, 530-538.	2.1	8
57	Bovine seminal ribonuclease: Non-hyperbolic kinetics in the second reaction step. FEBS Letters, 1982, 140, 307-310.	1.3	17
58	Intrachain disulfide bridges of bovine seminal ribonuclease. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1979, 579, 303-313.	1.7	14
59	Degradation of DNA Â· RNA hybrids by aggregates of pancreatic ribonuclease. Nucleic Acids and Protein Synthesis, 1975, 407, 292-298.	1.7	24