Eric ChabriÃ¨re

List of Publications by Year
in descending order

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47 papers	2,437 citations	201674 27 h-index	206112 48 g-index
49 all docs	49 docs citations	49 times ranked	2300 citing authors

#	Article	IF	Citations
1	Interference in Bacterial Quorum Sensing: A Biopharmaceutical Perspective. Frontiers in Pharmacology, 2018, 9, 203.	3.5	230
2	The molecular basis of phosphate discrimination in arsenate-rich environments. Nature, 2012, 491, 134-137.	27.8	209
3	Structural Basis for Natural Lactonase and Promiscuous Phosphotriesterase Activities. Journal of Molecular Biology, 2008, 379, 1017-1028.	4.2	159
4	Biotechnological applications of quorum quenching enzymes. Chemico-Biological Interactions, 2017, 267, 104-115.	4.0	138
5	Human paraoxonase: A promising approach for pre-treatment and therapy of organophosphorus poisoning. Toxicology, 2007, 233, 47-59.	4.2	137
6	Effect of Quorum Quenching Lactonase in Clinical Isolates of Pseudomonas aeruginosa and Comparison with Quorum Sensing Inhibitors. Frontiers in Microbiology, 2017, 08, 227.	3.5	120
7	Inhaled Lactonase Reduces Pseudomonas aeruginosa Quorum Sensing and Mortality in Rat Pneumonia. PLoS ONE, 2014, 9, e107125.	2.5	97
8	Tandem purification of two HDL-associated partner proteins in human plasma, paraoxonase (PON1) and phosphate binding protein (HPBP) using hydroxyapatite chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 836, 15-21.	2.3	93
9	Differential Active Site Loop Conformations Mediate Promiscuous Activities in the Lactonase SsoPox. PLoS ONE, 2013, 8, e75272.	2.5	89
10	Characterisation of the organophosphate hydrolase catalytic activity of SsoPox. Scientific Reports, 2012, 2, 779.	3.3	82
11	Serendipitous Discovery and X-Ray Structure of a Human Phosphate Binding Apolipoprotein. Structure, 2006, 14, 601-609.	3.3	79
12	Current and emerging strategies for organophosphate decontamination: special focus on hyperstable enzymes. Environmental Science and Pollution Research, 2016, 23, 8200-8218.	5.3	72
13	Structural and Enzymatic characterization of the lactonase SisLac from Sulfolobus islandicus. PLoS ONE, 2012, 7, e47028.	2.5	70
14	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon Sulfolobus solfataricus. Extremophiles, 2009, 13, 461-470.	2.3	60
15	Elucidation of the Phosphate Binding Mode of DING Proteins Revealed by Subangstrom X-ray Crystallography. Journal of the American Chemical Society, 2009, 131, 7879-7886.	13.7	50
16	Structural and Enzymatic Characterization of the Phosphotriesterase OPHC2 from Pseudomonas pseudoalcaligenes. PLoS ONE, 2013, 8, e77995.	2.5	50
17	Crystal structure of VmoLac, a tentative quorum quenching lactonase from the extremophilic crenarchaeon Vulcanisaeta moutnovskia. Scientific Reports, 2015, 5, 8372.	3.3	44
18	Engineering acyl-homoserine lactone-interfering enzymes toward bacterial control. Journal of Biological Chemistry, 2020, 295, 12993-13007.	3.4	42

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19	Quorum Quenching Lactonase Strengthens Bacteriophage and Antibiotic Arsenal Against Pseudomonas aeruginosa Clinical Isolates. Frontiers in Microbiology, 2019, 10, 2049.	3.5	41
20	Rational engineering of a native hyperthermostable lactonase into a broad spectrum phosphotriesterase. Scientific Reports, 2017, 7, 16745.	3.3	39
21	Harnessing hyperthermostable lactonase from Sulfolobus solfataricus for biotechnological applications. Scientific Reports, 2016, 6, 37780.	3.3	38
22	Structural and Biochemical Characterization of AaL, a Quorum Quenching Lactonase with Unusual Kinetic Properties. Scientific Reports, 2018, 8, 11262.	3.3	38
23	Tandem use of Xâ€ray crystallography and mass spectrometry to obtain ab initio the complete and exact amino acids sequence of HPBP, a human 38â€kDa apolipoprotein. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1708-1720.	2.6	36
24	Lactonase Specificity Is Key to Quorum Quenching in Pseudomonas aeruginosa. Frontiers in Microbiology, 2020, 11, 762.	3.5	35
25	Enzymatic degradation of organophosphorus insecticides decreases toxicity in planarians and enhances survival. Scientific Reports, 2017, 7, 15194.	3.3	34
26	The DING family of proteins: ubiquitous in eukaryotes, but where are the genes?. BioEssays, 2009, 31, 570-580.	2.5	31
27	Disrupting quorum sensing alters social interactions in Chromobacterium violaceum. Npj Biofilms and Microbiomes, 2021, 7, 40.	6.4	30
28	Structure-function relationships in a bacterial DING protein. FEBS Letters, 2007, 581, 3455-3460.	2.8	29
29	Sac Pox from the thermoacidophilic crenarchaeon Sulfolobus acidocaldarius is a proficient lactonase. BMC Research Notes, 2014, 7, 333.	1.4	25
30	New Approaches to Prevent Healthcare-Associated Infection. Clinical Infectious Diseases, 2017, 65, S50-S54.	5.8	25
31	Enzymatic Decontamination of G-Type, V-Type and Novichok Nerve Agents. International Journal of Molecular Sciences, 2021, 22, 8152.	4.1	20
32	Crystallization and preliminary X-ray diffraction analysis of the hyperthermophilicSulfolobus solfataricusphosphotriesterase. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 553-555.	0.7	19
33	Human-Phosphate-Binding-Protein inhibits HIV-1 gene transcription and replication. Virology Journal, 2011, 8, 352.	3.4	18
34	Crystallization, diffraction data collection and preliminary crystallographic analysis of DING protein fromPseudomonas fluorescens. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 590-592.	0.7	17
35	Organophosphorus poisoning in animals and enzymatic antidotes. Environmental Science and Pollution Research, 2021, 28, 25081-25106.	5.3	17
36	Lactonase SsoPox modulates CRISPR-Cas expression in gram-negative proteobacteria using AHL-based quorum sensing systems. Research in Microbiology, 2019, 170, 296-299.	2.1	16

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37	Crystallization and preliminary X-ray diffraction analysis of the lactonaseVmoLac fromVulcanisaeta moutnovskia. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1235-1238.	0.7	15
38	Crystallization and preliminary X-ray diffraction analysis of the organophosphorus hydrolase OPHC2 fromPseudomonas pseudoalcaligenes. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 73-76.	0.7	13
39	Ancestral mutations as a tool for solubilizing proteins: The case of a hydrophobic phosphateâ€binding protein. FEBS Open Bio, 2014, 4, 121-127.	2.3	13
40	DING Proteins from Phylogenetically Different Species Share High Degrees of Sequence and Structure Homology and Block Transcription of HIV-1 LTR Promoter. PLoS ONE, 2013, 8, e69623.	2.5	10
41	Evaluation of a robust engineered enzyme towards organophosphorus insecticide bioremediation using planarians as biosensors. Chemico-Biological Interactions, 2019, 306, 96-103.	4.0	9
42	Enzyme Nanoreactor for In Vivo Detoxification of Organophosphates. ACS Applied Materials & Interfaces, 2022, , .	8.0	9
43	Steady-State Kinetics of Enzyme-Catalyzed Hydrolysis of Echothiophate, a Pâ€“S Bonded Organophosphorus as Monitored by Spectrofluorimetry. Molecules, 2020, 25, 1371.	3.8	7
44	Surface plasmon resonance imaging of pathogens: the Yersinia pestis paradigm. BMC Research Notes, 2015, 8, 259.	1.4	6
45	Applying molecular and phenotypic screening assays to identify efficient quorum quenching lactonases. Enzyme and Microbial Technology, 2022, 160, 110092.	3.2	5
46	Malaria: Massive open online courses MOOC. Travel Medicine and Infectious Disease, 2016, 14, 636.	3.0	4
47	Enzymatic decontamination of paraoxon-ethyl limits long-term effects in planarians. Scientific Reports, 2020, 10, 3843.	3.3	3