

Giuseppe Manco

List of Publications by Year in descending order

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105
papers

3,307
citations

147801

31
h-index

168389

53
g-index

108
all docs

108
docs citations

108
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry of Post-Translational Modifications in a Human Enzyme. <i>Symmetry</i> , 2022, 14, 212.	2.2	0
2	A 3D printable adapter for solid-state fluorescence measurements: the case of an immobilized enzymatic bioreceptor for organophosphate pesticides detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1999-2008.	3.7	6
3	A FRET Approach to Detect Paraoxon among Organophosphate Pesticides Using a Fluorescent Biosensor. <i>Sensors</i> , 2022, 22, 561.	3.8	4
4	ADP-Ribosylation Post-Translational Modification: An Overview with a Focus on RNA Biology and New Pharmacological Perspectives. <i>Biomolecules</i> , 2022, 12, 443.	4.0	8
5	Human Paraoxonase-2 (PON2): Protein Functions and Modulation. <i>Antioxidants</i> , 2021, 10, 256.	5.1	37
6	DING Proteins Extend to the Extremophilic World. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2035.	4.1	2
7	Selymatra: A web application for proteinâ€œprofiling analysis of mass spectra. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	3.1	2
8	Effect of Mutations on mRNA and Globin Stability: The Cases of Hb Bernalda/Groene Hart and Hb Southern Italy. <i>Genes</i> , 2020, 11, 870.	2.4	4
9	WTAP and BIRC3 are involved in the posttranscriptional mechanisms that impact on the expression and activity of the human lactonase PON2. <i>Cell Death and Disease</i> , 2020, 11, 324.	6.3	12
10	Structural and Functional Characterization of New SsoPox Variant Points to the Dimer Interface as a Driver for the Increase in Promiscuous Paraoxonase Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1683.	4.1	12
11	Highly Sensitive Detection of Chemically Modified Thio-Organophosphates by an Enzymatic Biosensing Device: An Automated Robotic Approach. <i>Sensors</i> , 2020, 20, 1365.	3.8	10
12	Determination of Picomolar Concentrations of Paraoxon in Human Urine by Fluorescence-Based Enzymatic Assay. <i>Sensors</i> , 2019, 19, 4852.	3.8	12
13	Biocatalytic membrane reactor development for organophosphates degradation. <i>Journal of Hazardous Materials</i> , 2019, 365, 789-795.	12.4	36
14	Enzymatic detoxification: a sustainable means of degrading toxic organophosphate pesticides and chemical warfare nerve agents. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2064-2082.	3.2	53
15	Comparison of the DING protein from the archaeon <i>Sulfolobus solfataricus</i> with human phosphate-binding protein and <i>Pseudomonas</i> fluorescence DING counterparts. <i>Extremophiles</i> , 2018, 22, 177-188.	2.3	6
16	Pyruvate dehydrogenase complex and lactate dehydrogenase are targets for therapy of acute liver failure. <i>Journal of Hepatology</i> , 2018, 69, 325-335.	3.7	65
17	Direct detection of organophosphate compounds in water by a fluorescence-based biosensing device. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3257-3266.	7.8	21
18	Innovative Biocatalysts as Tools to Detect and Inactivate Nerve Agents. <i>Scientific Reports</i> , 2018, 8, 13773.	3.3	13

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19	Phosphotriesterase-Magnetic Nanoparticle Bioconjugates with Improved Enzyme Activity in a Biocatalytic Membrane Reactor. <i>Bioconjugate Chemistry</i> , 2018, 29, 2001-2008.	3.6	16
20	High yield production and purification of two recombinant thermostable phosphotriesterase-like lactonases from <i>Sulfolobus acidocaldarius</i> and <i>Sulfolobus solfataricus</i> useful as bioremediation tools and bioscavengers. <i>BMC Biotechnology</i> , 2018, 18, 18.	3.3	22
21	Boosted large-scale production and purification of a thermostable archaeal phosphotriesterase-like lactonase for organophosphate decontamination. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 363-375.	3.0	8
22	New Insight in Human Lactonase PON2. <i>Biomedical Journal of Scientific & Technical Research</i> , 2017, 1, .	0.1	1
23	Glycation in Demetalated Superoxide Dismutase 1 Prevents Amyloid Aggregation and Produces Cytotoxic Ages Adducts. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 55.	3.5	16
24	Polymeric biocatalytic membranes with immobilized thermostable phosphotriesterase. <i>Journal of Membrane Science</i> , 2016, 516, 144-151.	8.2	27
25	An efficient thermostable organophosphate hydrolase and its application in pesticide decontamination. <i>Biotechnology and Bioengineering</i> , 2016, 113, 724-734.	3.3	39
26	Engineering of Extremophilic Phosphotriesterase-Like Lactonases for Biotechnological Applications. <i>Grand Challenges in Biology and Biotechnology</i> , 2016, , 471-503.	2.4	3
27	Fluorescence Spectroscopy Approaches for the Development of a Real-Time Organophosphate Detection System Using an Enzymatic Sensor. <i>Sensors</i> , 2015, 15, 3932-3951.	3.8	43
28	Differential inhibition of PDKs by phenylbutyrate and enhancement of pyruvate dehydrogenase complex activity by combination with dichloroacetate. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 895-904.	3.6	45
29	Enlarging the substrate portfolio of the thermophilic esterase EST2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Extremophiles</i> , 2015, 19, 1001-1011.	2.3	2
30	Active Site Loop Conformation Regulates Promiscuous Activity in a Lactonase from <i>Geobacillus kaustophilus</i> HTA426. <i>PLoS ONE</i> , 2015, 10, e0115130.	2.5	13
31	An Engineered Version of Human PON2 Opens the Way to Understand the Role of Its Post-Translational Modifications in Modulating Catalytic Activity. <i>PLoS ONE</i> , 2015, 10, e0144579.	2.5	16
32	Cell surface display of organophosphorus hydrolase for sensitive spectrophotometric detection of p-nitrophenol substituted organophosphates. <i>Enzyme and Microbial Technology</i> , 2014, 55, 107-112.	3.2	62
33	Mn ²⁺ modulates the kinetic properties of an archaeal member of the PLL family. <i>Chemico-Biological Interactions</i> , 2013, 203, 251-256.	4.0	13
34	Phenylbutyrate Therapy for Pyruvate Dehydrogenase Complex Deficiency and Lactic Acidosis. <i>Science Translational Medicine</i> , 2013, 5, 175ra31.	12.4	59
35	Comprehensive analysis of surface charged residues involved in thermal stability in <i>Alicyclobacillus acidocaldarius</i> esterase 2. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 47-58.	2.1	18
36	A Further Biochemical Characterization of DrPLL the Thermophilic Lactonase from <i>Deinococcus radiodurans</i> . <i>Protein and Peptide Letters</i> , 2013, 20, 36-44.	0.9	6

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37	A further biochemical characterization of DrPLL the thermophilic lactonase from <i>Deinococcus radiodurans</i> . <i>Protein and Peptide Letters</i> , 2013, 20, 36-44.	0.9	1
38	Enzyme Promiscuity in the Hormone-sensitive Lipase Family of Proteins. <i>Protein and Peptide Letters</i> , 2012, 19, 144-154.	0.9	11
39	Effect of low organic solvents concentration on the stability and catalytic activity of HSL-like carboxylesterases: Analysis from psychrophiles to (hyper)thermophiles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 82, 46-52.	1.8	10
40	A Further Biochemical Characterization of DrPLL the Thermophilic Lactonase from <i>Deinococcus radiodurans</i> . <i>Protein and Peptide Letters</i> , 2012, 20, 36-44.	0.9	1
41	Thermostable Esterase 2 from <i>Alicyclobacillus acidocaldarius</i> as Biosensor for the Detection of Organophosphate Pesticides. <i>Analytical Chemistry</i> , 2011, 83, 1530-1536.	6.5	40
42	Five-Substrate Cocktail as a Sensor Array for Measuring Enzyme Activity Fingerprints of Lipases and Esterases. <i>Analytical Chemistry</i> , 2011, 83, 1437-1442.	6.5	9
43	EBP1 and DRBP76/NF90 binding proteins are included in the major histocompatibility complex class II RNA operon. <i>Nucleic Acids Research</i> , 2011, 39, 7263-7275.	14.5	15
44	Improving the promiscuous nerve agent hydrolase activity of a thermostable archaeal lactonase. <i>Bioresource Technology</i> , 2010, 101, 9204-9212.	9.6	42
45	Hyperthermophilic phosphotriesterases/lactonases for the environment and human health. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 1115-1127.	2.2	17
46	Non-lipolytic and lipolytic sequence-related carboxylesterases: A comparative study of the structure-function relationships of rabbit liver esterase 1 and bovine pancreatic bile-salt-activated lipase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 1195-1204.	2.4	11
47	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Extremophiles</i> , 2009, 13, 461-470.	2.3	60
48	Evolution in the Amidohydrolase Superfamily: Substrate-Assisted Gain of Function in the E183K Mutant of a Phosphotriesterase-like Metal-Carboxylesterase. <i>Biochemistry</i> , 2009, 48, 5602-5612.	2.5	17
49	Editorial [Hot Topic: Carboxylesterases: A World with Still Words to Say (Guest Editor: Giuseppe) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	0
50	Structural and Kinetic Overview of the Carboxylesterase EST2 from <i>Alicyclobacillus acidocaldarius</i> : A Comparison with the Other Members of the HSL Family. <i>Protein and Peptide Letters</i> , 2009, 16, 1189-1200.	0.9	11
51	Use of Esterase Activities for the Detection of Chemical Neurotoxic Agents. <i>Protein and Peptide Letters</i> , 2009, 16, 1225-1234.	0.9	24
52	Functional and structural features of the oxyanion hole in a thermophilic esterase from <i>Alicyclobacillus acidocaldarius</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1721-1731.	2.6	31
53	Irreversible inhibition of the thermophilic esterase EST2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Extremophiles</i> , 2008, 12, 719-728.	2.3	18
54	The conserved N-terminal helix of acylpeptide hydrolase from archaeon <i>Aeropyrum pernix</i> K1 is important for its hyperthermophilic activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1176-1183.	2.3	27

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55	Structural Basis for Natural Lactonase and Promiscuous Phosphotriesterase Activities. <i>Journal of Molecular Biology</i> , 2008, 379, 1017-1028.	4.2	159
56	Enzymes with Phosphotriesterase and Lactonase Activities in Archaea. <i>Current Chemical Biology</i> , 2008, 2, 237-248.	0.5	8
57	A Proteomic Approach to Study <i>Escherichia coli</i> . Acetyl Esterase Interactors Unveil a Sequence Motif Involved in Protein-Protein Interaction. <i>Protein and Peptide Letters</i> , 2008, 15, 333-340.	0.9	1
58	Enzymes with Phosphotriesterase and Lactonase Activities in Archaea. <i>Current Chemical Biology</i> , 2008, 2, 237-248.	0.5	7
59	Biochemical and Thermostability Features of Acetyl Esterase Aes from <i>Escherichia coli</i> . <i>Protein and Peptide Letters</i> , 2007, 14, 165-169.	0.9	5
60	A new phosphotriesterase from <i>Sulfolobus acidocaldarius</i> and its comparison with the homologue from <i>Sulfolobus solfataricus</i> . <i>Biochimie</i> , 2007, 89, 625-636.	2.6	65
61	Redox stress proteins are involved in adaptation response of the hyperthermoacidophilic archaeon <i>Sulfolobus solfataricus</i> to nickel challenge. <i>Microbial Cell Factories</i> , 2007, 6, 25.	4.0	11
62	Crystallization and preliminary X-ray diffraction analysis of the hyperthermophilic <i>Sulfolobus solfataricus</i> phosphotriesterase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 553-555.	0.7	19
63	Role of the N-terminal region for the conformational stability of esterase 2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Biophysical Chemistry</i> , 2007, 127, 113-122.	2.8	16
64	Use of an Inhibitor To Identify Members of the Hormone-Sensitive Lipase Family. <i>Biochemistry</i> , 2006, 45, 14183-14191.	2.5	45
65	The Latent Promiscuity of Newly Identified Microbial Lactonases Is Linked to a Recently Diverged Phosphotriesterase. <i>Biochemistry</i> , 2006, 45, 13677-13686.	2.5	258
66	<i>Sso</i> and <i>Sso</i> long: two thermostable esterases from the same ORF in the archaeon <i>Sulfolobus solfataricus</i> ?. <i>Archaea</i> , 2006, 2, 109-115.	2.3	6
67	Temperature-induced denaturation of Aes acetyl-esterase from <i>Escherichia coli</i> . <i>Thermochimica Acta</i> , 2006, 441, 144-149.	2.7	4
68	<i>Alicyclobacillus acidocaldarius</i> Thermophilic Esterase EST2's Activity in Milk and Cheese Models. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3191-3197.	3.1	30
69	A thermostable phosphotriesterase from the archaeon <i>Sulfolobus solfataricus</i> : cloning, overexpression and properties. <i>Extremophiles</i> , 2005, 9, 297-305.	2.3	146
70	Role of the N Terminus in Enzyme Activity, Stability and Specificity in Thermophilic Esterases Belonging to the HSL Family. <i>Journal of Molecular Biology</i> , 2005, 345, 501-512.	4.2	73
71	Substrate specificity and kinetic properties of enzymes belonging to the hormone-sensitive lipase family: Comparison with non-lipolytic and lipolytic carboxylesterases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1738, 29-36.	2.4	46
72	A Substrate-induced Switch in the Reaction Mechanism of a Thermophilic Esterase. <i>Journal of Biological Chemistry</i> , 2004, 279, 6815-6823.	3.4	45

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73	Denaturant-Induced Unfolding of the Acetyl-Esterase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 14637-14643.	2.5	9
74	Analysis of Thermal Adaptation in the HSL Enzyme Family. <i>Journal of Molecular Biology</i> , 2004, 335, 357-369.	4.2	41
75	The Crystal Structure of an EST2 Mutant Unveils Structural Insights on the H Group of the Carboxylesterase/Lipase Family. <i>Journal of Molecular Biology</i> , 2004, 343, 137-146.	4.2	26
76	Mutational analysis of GstI protein, a glutamine synthetase translational inhibitor of <i>Rhizobium leguminosarum</i> . <i>FEBS Letters</i> , 2004, 558, 45-51.	2.8	6
77	Modular organization of a Cdc6-like protein from the crenarchaeon <i>Sulfolobus solfataricus</i> . <i>Biochemical Journal</i> , 2004, 381, 645-653.	3.7	17
78	Effect of trifluoroethanol on the conformational stability of a hyperthermophilic esterase: a CD study. <i>Biophysical Chemistry</i> , 2003, 104, 407-415.	2.8	10
79	Crystallization and preliminary X-ray diffraction studies of Aes acetyl-esterase from <i>Escherichia coli</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1846-1848.	2.5	2
80	The Aes Protein and the Monomeric β -Galactosidase from <i>Escherichia coli</i> Form a Non-covalent Complex. <i>Journal of Biological Chemistry</i> , 2002, 277, 48241-48247.	3.4	14
81	Denaturing action of urea and guanidine hydrochloride towards two thermophilic esterases. <i>Biochemical Journal</i> , 2002, 367, 857-863.	3.7	61
82	Temperature- and Denaturant-Induced Unfolding of Two Thermophilic Esterases. <i>Biochemistry</i> , 2002, 41, 1364-1371.	2.5	34
83	Modification of the enantioselectivity of two homologous thermophilic carboxylesterases from <i>Alicyclobacillus acidocaldarius</i> and <i>Archaeoglobus fulgidus</i> by random mutagenesis and screening. <i>Extremophiles</i> , 2002, 6, 325-331.	2.3	23
84	The crystal structure of a hyper-thermophilic carboxylesterase from the archaeon <i>Archaeoglobus fulgidus</i> 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 314, 507-518.	4.2	148
85	Residues at the Active Site of the Esterase 2 from <i>Alicyclobacillus acidocaldarius</i> Involved in Substrate Specificity and Catalytic Activity at High Temperature. <i>Journal of Biological Chemistry</i> , 2001, 276, 37482-37490.	3.4	38
86	Structure-function analysis of the EGF-CFC family member Cripto identifies residues essential for nodal signalling. <i>Development (Cambridge)</i> , 2001, 128, 4501-4510.	2.5	63
87	The thermophilic esterase from <i>Archaeoglobus fulgidus</i> : Structure and conformational dynamics at high temperature. , 2000, 38, 351-360.		19
88	The esterase from the thermophilic eubacterium <i>Bacillus acidocaldarius</i> : Structural-functional relationship and comparison with the esterase from the hyperthermophilic archaeon <i>Archaeoglobus fulgidus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 40, 473-481.	2.6	26
89	Inhibition of glutamine synthetase II expression by the product of the <i>gstI</i> gene. <i>Molecular Microbiology</i> , 2000, 37, 443-452.	2.5	15
90	A Novel Aspartyl Proteinase from Apocrine Epithelia and Breast Tumors. <i>Journal of Biological Chemistry</i> , 2000, 275, 7935-7941.	3.4	69

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91	Cloning, Overexpression, and Properties of a New Thermophilic and Thermostable Esterase with Sequence Similarity to Hormone-Sensitive Lipase Subfamily from the Archaeon <i>Archaeoglobus fulgidus</i> . <i>Archives of Biochemistry and Biophysics</i> , 2000, 373, 182-192.	3.0	131
92	A snapshot of a transition state analogue of a novel thermophilic esterase belonging to the subfamily of mammalian hormone-sensitive lipase 1. Edited by D. Rees. <i>Journal of Molecular Biology</i> , 2000, 303, 761-771.	4.2	128
93	Crystallization and preliminary X-ray diffraction studies of the carboxylesterase EST2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1348-1349.	2.5	14
94	Homology modeling and active site residues probing of the thermophilic <i>Alicyclobacillus acidocaldarius</i> esterase 2. <i>Protein Science</i> , 1999, 8, 1789-1796.	7.6	31
95	Domain organization and biochemical features of <i>Sulfolobus solfataricus</i> DNA polymerase. <i>Extremophiles</i> , 1998, 2, 171-177.	2.3	14
96	Thermophilic esterases and the amino acid "traffic rule" in the hormone sensitive lipase subfamily. <i>Progress in Biotechnology</i> , 1998, 15, 325-330.	0.2	4
97	Overexpression and properties of a new thermophilic and thermostable esterase from <i>Bacillus acidocaldarius</i> with sequence similarity to hormone-sensitive lipase subfamily. <i>Biochemical Journal</i> , 1998, 332, 203-212.	3.7	138
98	Domain Organization and DNA-Induced Conformational Changes of an Archaeal Family B DNA Polymerase. <i>Biochemistry</i> , 1996, 35, 9158-9166.	2.5	18
99	Regulation of nitrogen metabolism is altered in a <i>glnB</i> mutant strain of <i>Rhizobium leguminosarum</i> . <i>Molecular Microbiology</i> , 1994, 11, 685-693.	2.5	35
100	Purification and characterization of a thermostable carboxylesterase from the thermoacidophilic eubacterium <i>Bacillus acidocaldarius</i> . <i>FEBS Journal</i> , 1994, 221, 965-972.	0.2	32
101	Uridylation of the PII protein in <i>Rhizobium leguminosarum</i> . <i>FEBS Letters</i> , 1993, 330, 95-98.	2.8	27
102	Activation of the <i>Rhizobium leguminosarum glnII</i> gene by NtrC is dependent on upstream DNA sequences. <i>Molecular Genetics and Genomics</i> , 1992, 234, 337-345.	2.4	33
103	Stability and activity of a thermostable malic enzyme in denaturants and water-miscible organic solvents. <i>FEBS Journal</i> , 1989, 183, 25-30.	0.2	49
104	Oxalacetate decarboxylase and pyruvate carboxylase activities, and effect of sulfhydryl reagents in malic enzyme from <i>Sulfolobus solfataricus</i> . <i>BBA - Proteins and Proteomics</i> , 1988, 957, 301-311.	2.1	8
105	A major secretory protein from rat seminal vesicle binds ejaculated spermatozoa. <i>Gamete Research</i> , 1988, 21, 71-84.	1.7	21