Marco Moracci

List of Publications by Year in descending order

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| | | 117625 | 144013 |
|----------|----------------|--------------|----------------|
| 106 | 3,801 | 34 | 57 |
| papers | citations | h-index | g-index |
| | | | |
| 113 | 113 | 113 | 3803 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Carnitine is a pharmacological allosteric chaperone of the human lysosomal α-glucosidase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 2068-2079. | 5.2 | 3 |
| 2 | Prebiotic properties of Bacillus coagulans MA-13: production of galactoside hydrolyzing enzymes and characterization of the transglycosylation properties of a GH42 ¹² -galactosidase. Microbial Cell Factories, 2021, 20, 71. | 4.0 | 18 |
| 3 | Transcript Regulation of the Recoded Archaeal $\hat{i}\pm$ -l-Fucosidase In Vivo. Molecules, 2021, 26, 1861. | 3.8 | 3 |
| 4 | Xyloglucan Oligosaccharides Hydrolysis by Exo-Acting Glycoside Hydrolases from Hyperthermophilic Microorganism Saccharolobus solfataricus. International Journal of Molecular Sciences, 2021, 22, 3325. | 4.1 | 8 |
| 5 | Programmed Deviations of Ribosomes From Standard Decoding in Archaea. Frontiers in Microbiology, 2021, 12, 688061. | 3.5 | 1 |
| 6 | Correction of oxidative stress enhances enzyme replacement therapy in Pompe disease. EMBO Molecular Medicine, 2021, 13, e14434. | 6.9 | 13 |
| 7 | A novel Streptomyces strain isolated by functional bioprospecting for laccases. Process Biochemistry, 2021, 111, 315-324. | 3.7 | 2 |
| 8 | Discovery of hyperstable carbohydrateâ€active enzymes through metagenomics of extreme environments. FEBS Journal, 2020, 287, 1116-1137. | 4.7 | 32 |
| 9 | Spatial Metagenomics of Three Geothermal Sites in Pisciarelli Hot Spring Focusing on the Biochemical Resources of the Microbial Consortia. Molecules, 2020, 25, 4023. | 3.8 | 11 |
| 10 | The Italian National Project of Astrobiology—Life in Space—Origin, Presence, Persistence of Life in Space, from Molecules to Extremophiles. Astrobiology, 2020, 20, 580-582. | 3.0 | 10 |
| 11 | Astrochemistry and Astrobiology: Materials Sciencein Wonderland?. International Journal of Molecular Sciences, 2019, 20, 4079. | 4.1 | 29 |
| 12 | Draft Genome Sequence of Bacillus coagulans MA-13, a Thermophilic Lactic Acid Producer from Lignocellulose. Microbiology Resource Announcements, 2019, 8, . | 0.6 | 10 |
| 13 | Probing the role of an invariant active site His in family GH1 β-glycosidases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 973-980. | 5.2 | 2 |
| 14 | Effects of Random Mutagenesis and In Vivo Selection on the Specificity and Stability of a Thermozyme. Catalysts, 2019, 9, 440. | 3.5 | 4 |
| 15 | Identification of a novel esterase from the thermophilic bacterium Geobacillus thermodenitrificans NG80-2. Extremophiles, 2019, 23, 407-419. | 2.3 | 14 |
| 16 | GlcNAc De- <i>N</i> -Acetylase from the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> . Applied and Environmental Microbiology, 2019, 85, . | 3.1 | 7 |
| 17 | Structural and functional insights into RHA-P, a bacterial GH106 α-L-rhamnosidase from Novosphingobium sp. PP1Y. Archives of Biochemistry and Biophysics, 2018, 648, 1-11. | 3.0 | 13 |
| 18 | Formamide-based prebiotic chemistry in the Phlegrean Fields. Advances in Space Research, 2018, 62, 2372-2379. | 2.6 | 23 |

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|----|--|------|-----------|
| 19 | The αâ€Thioglycoligase Derived from a GH89 αâ€≺i>Nâ€Acetylglucosaminidase Synthesises αâ€ <i>N</i> ã€Acetylglucosamineâ€Based Glycosides of Biomedical Interest. Advanced Synthesis and Catalysis, 2017, 359, 663-676. | 4.3 | 15 |
| 20 | Diversity of bacteria and archaea from two shallow marine hydrothermal vents from Vulcano Island. Extremophiles, 2017, 21, 733-742. | 2.3 | 48 |
| 21 | Metagenomics of microbial and viral life in terrestrial geothermal environments. Reviews in Environmental Science and Biotechnology, 2017, 16, 425-454. | 8.1 | 29 |
| 22 | Metagenomics of Hyperthermophilic Environments: Biodiversity and Biotechnology. , 2017, , 103-135. | | 7 |
| 23 | Structure of human lysosomal acid α-glucosidase–a guide for the treatment of Pompe disease. Nature Communications, 2017, 8, 1111. | 12.8 | 169 |
| 24 | <i>N</i> -Butyl- <scp>l</scp> -deoxynojirimycin (<scp>l</scp> -NBDNJ): Synthesis of an Allosteric Enhancer of α-Glucosidase Activity for the Treatment of Pompe Disease. Journal of Medicinal Chemistry, 2017, 60, 9462-9469. | 6.4 | 31 |
| 25 | Introducing transgalactosylation activity into a family 42 β-galactosidase. Glycobiology, 2017, 27, 425-437. | 2.5 | 14 |
| 26 | Conversion of xylan by recyclable spores of Bacillus subtilis displaying thermophilic enzymes. Microbial Cell Factories, 2017, 16, 218. | 4.0 | 8 |
| 27 | Human <i>α-L-fucosidase-1</i> attenuates the invasive properties of thyroid cancer. Oncotarget, 2017, 8, 27075-27092. | 1.8 | 24 |
| 28 | High-level expression of thermostable cellulolytic enzymes in tobacco transplastomic plants and their use in hydrolysis of an industrially pretreated Arundo donax L. biomass. Biotechnology for Biofuels, 2016, 9, 154. | 6.2 | 43 |
| 29 | Structural basis of laminin binding to the LARGE glycans on dystroglycan. Nature Chemical Biology, 2016, 12, 810-814. | 8.0 | 88 |
| 30 | Comparative Metagenomics of Eight Geographically Remote Terrestrial Hot Springs. Microbial Ecology, 2015, 70, 411-424. | 2.8 | 118 |
| 31 | A novel, efficient and sustainable strategy for the synthesis of α-glycoconjugates by combination of a α-galactosynthase and a green solvent. RSC Advances, 2015, 5, 55313-55320. | 3.6 | 5 |
| 32 | Novel thermophilic hemicellulases for the conversion of lignocellulose for second generation biorefineries. Enzyme and Microbial Technology, 2015, 78, 63-73. | 3.2 | 25 |
| 33 | The identification and molecular characterization of the first archaeal bifunctional exo-β-glucosidase/N-acetyl-β-glucosaminidase demonstrate that family GH116 is made of three functionally distinct subfamilies. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 367-377. | 2.4 | 33 |
| 34 | Pharmacological chaperone therapy for lysosomal storage diseases. Future Medicinal Chemistry, 2014, 6, 1031-1045. | 2.3 | 53 |
| 35 | RNA editing and modifications of RNAs might have favoured the evolution of the triplet genetic code from an ennuplet code. Journal of Theoretical Biology, 2014, 359, 1-5. | 1.7 | 9 |
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Extremophilic (Hemi)cellulolytic Microorganisms and Enzymes. , 2013, , 111-130.

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|----|---|------|-----------|
| 37 | Exploitation of \hat{I}^2 -glycosyl azides for the preparation of \hat{I}_\pm -glycosynthases. Biocatalysis and Biotransformation, 2012, 30, 288-295. | 2.0 | 3 |
| 38 | Pharmacological Enhancement of $\hat{l}\pm$ -Glucosidase by the Allosteric Chaperone N-acetylcysteine. Molecular Therapy, 2012, 20, 2201-2211. | 8.2 | 90 |
| 39 | Thermophilic Glycosynthases for Oligosaccharides Synthesis. Methods in Enzymology, 2012, 510, 273-300. | 1.0 | 11 |
| 40 | Adsorption of β-galactosidase of Alicyclobacillus acidocaldarius on wild type and mutants spores of Bacillus subtilis. Microbial Cell Factories, 2012, 11, 100. | 4.0 | 45 |
| 41 | Translational recoding in archaea. Extremophiles, 2012, 16, 793-803. | 2.3 | 29 |
| 42 | Glycosynthases as tools for the production of glycan analogs of natural products. Natural Product Reports, 2012, 29, 697. | 10.3 | 48 |
| 43 | Carbohydrate-Active Enzymes from Hyperthermophiles: Biochemistry and Applications. , 2011, , 427-441. | | 1 |
| 44 | Glycosynthases in Biocatalysis. Advanced Synthesis and Catalysis, 2011, 353, 2284-2300. | 4.3 | 63 |
| 45 | A novel α-d-galactosynthase from Thermotoga maritima converts β-d-galactopyranosyl azide to α-galacto-oligosaccharides. Clycobiology, 2011, 21, 448-456. | 2.5 | 34 |
| 46 | Engineering the stability and the activity of a glycoside hydrolase. Protein Engineering, Design and Selection, 2011, 24, 21-26. | 2.1 | 13 |
| 47 | A New Archaeal β-Glycosidase from Sulfolobus solfataricus. Journal of Biological Chemistry, 2010, 285, 20691-20703. | 3.4 | 45 |
| 48 | Ischia (Naples) hosted the Eighth Carbohydrate Bioengineering Meeting on May 10–13, 2009. Biocatalysis and Biotransformation, 2010, 28, 1-2. | 2.0 | 0 |
| 49 | Functional Characterization and High-Throughput Proteomic Analysis of Interrupted Genes in the ArchaeonSulfolobus solfataricus. Journal of Proteome Research, 2010, 9, 2496-2507. | 3.7 | 18 |
| 50 | The molecular characterization of a novel GH38 α-mannosidase from the crenarchaeon Sulfolobus solfataricus revealed its ability in de-mannosylating glycoproteins. Biochimie, 2010, 92, 1895-1907. | 2.6 | 25 |
| 51 | β-Glycosyl Azides as Substrates for α-Glycosynthases: Preparation of Efficient α-L-Fucosynthases. Chemistry and Biology, 2009, 16, 1097-1108. | 6.0 | 65 |
| 52 | The α-l-fucosidase from Sulfolobus solfataricus. Extremophiles, 2008, 12, 61-68. | 2.3 | 15 |
| 53 | Evidence that the xylanase activity from Sulfolobus solfataricus Oα is encoded by the endoglucanase precursor gene (sso1354) and characterization of the associated cellulase activity. Extremophiles, 2008, 12, 689-700. | 2.3 | 37 |
| 54 | Isolation and characterization of a new family 42 β-galactosidase from the thermoacidophilic bacterium Alicyclobacillus acidocaldarius: Identification of the active site residues. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 292-301. | 2.3 | 44 |

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|----|--|------|-----------|
| 55 | Design of new reaction conditions for characterization of a mutant thermophilic <i>$\hat{I} \pm \langle i \rangle$-<scp> l</scp>-fucosidase. Biocatalysis and Biotransformation, 2008, 26, 18-24.</i> | 2.0 | 6 |
| 56 | A comparative infrared spectroscopic study of glycoside hydrolases from extremophilic archaea revealed different molecular mechanisms of adaptation to high temperatures. Proteins: Structure, Function and Bioinformatics, 2007, 67, 991-1001. | 2.6 | 19 |
| 57 | Interrupted Genes in Extremophilic Archaea: Mechanisms of Gene Expression in Early Organisms. Origins of Life and Evolution of Biospheres, 2007, 36, 487-492. | 1.9 | 3 |
| 58 | Preparation of a glycosynthase from the β-glycosidase of the ArchaeonPyrococcus horikoshii. Biocatalysis and Biotransformation, 2006, 24, 23-29. | 2.0 | 8 |
| 59 | Structural, Kinetic, and Thermodynamic Analysis of Glucoimidazole-Derived Glycosidase Inhibitorsâ€,‡. Biochemistry, 2006, 45, 11879-11884. | 2.5 | 47 |
| 60 | Structural basis ofÂtheÂdestabilization produced byÂanÂamino-terminal tag inÂtheÂβ-glycosidase from theÂhyperthermophilic archeon SulfolobusÂsolfataricus. Biochimie, 2006, 88, 807-817. | 2.6 | 16 |
| 61 | Characterization of a β-glycosidase from the thermoacidophilic bacterium Alicyclobacillus acidocaldarius. Extremophiles, 2006, 10, 301-310. | 2.3 | 33 |
| 62 | The gene of an archaeal α-l-fucosidase is expressed by translational frameshifting. Nucleic Acids Research, 2006, 34, 4258-4268. | 14.5 | 22 |
| 63 | A novel fatty acid binding protein produced by teratocytes of the aphid parasitoid Aphidius ervi. Insect Molecular Biology, 2005, 14, 195-205. | 2.0 | 46 |
| 64 | Recent Advances in the Oligosaccharide Synthesis Promoted by Catalytically Engineered Glycosidases. Advanced Synthesis and Catalysis, 2005, 347, 941-950. | 4.3 | 53 |
| 65 | Highly Productive Autocondensation and Transglycosylation Reactions with Sulfolobus solfataricus Glycosynthase. ChemBioChem, 2005, 6, 1431-1437. | 2.6 | 19 |
| 66 | Probing the Catalytically Essential Residues of the α-l-Fucosidase from the Hyperthermophilic Archaeon Sulfolobus solfataricus. Biochemistry, 2005, 44, 6331-6342. | 2.5 | 34 |
| 67 | Recent Developments in the Synthesis of Oligosaccharides by Hyperthermophilic Glycosidases. , 2005, , 587-612. | | 1 |
| 68 | Two-dimensional IR correlation spectroscopy of mutants of the Î ² -glycosidase from the hyperthermophilic archaeon Sulfolobus solfataricus identifies the mechanism of quaternary structure stabilization and unravels the sequence of thermal unfolding events. Biochemical Journal, 2004, 384, 69-78. | 3.7 | 24 |
| 69 | Recoding in Archaea. Molecular Microbiology, 2004, 55, 339-348. | 2.5 | 39 |
| 70 | Oligosaccharide synthesis by glycosynthases. Trends in Biotechnology, 2004, 22, 31-37. | 9.3 | 197 |
| 71 | Structural Studies of the β-Glycosidase fromSulfolobus solfataricusin Complex with Covalently and Noncovalently Bound Inhibitorsâ€. Biochemistry, 2004, 43, 6101-6109. | 2.5 | 62 |
| 72 | Structural characterization of the nonameric assembly of an Archaeal α-l-fucosidase by synchrotron small angle X-ray scattering. Biochemical and Biophysical Research Communications, 2004, 320, 176-182. | 2.1 | 21 |

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|----|---|-----|-----------|
| 73 | Glycosynthase-Catalysed syntheses at pH below neutrality. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 4039-4042. | 2.2 | 20 |
| 74 | Activity of Hyperthermophilic Glycosynthases Is Significantly Enhanced at Acidic pHâ€. Biochemistry, 2003, 42, 8484-8493. | 2.5 | 40 |
| 75 | Identification of an Archaeal \hat{I}_{\pm} -l-Fucosidase Encoded by an Interrupted Gene. Journal of Biological Chemistry, 2003, 278, 14622-14631. | 3.4 | 44 |
| 76 | Identification of the Catalytic Nucleophile of the Family 29 α-l-Fucosidase fromSulfolobus solfataricusvia Chemical Rescue of an Inactive Mutantâ€. Biochemistry, 2003, 42, 9525-9531. | 2.5 | 47 |
| 77 | Enzymatic Synthesis of 2-Deoxyglycosides Using the ß-Glycosidase of the ArchaeonSulfolobus solfataricus. Biocatalysis and Biotransformation, 2003, 21, 17-24. | 2.0 | 5 |
| 78 | Applications in Biocatalysis of Glycosyl Hydrolases from the Hyperthermophilic ArchaeonSulfolobus solfataricus. Biocatalysis and Biotransformation, 2003, 21, 215-221. | 2.0 | 4 |
| 79 | Ionic network at the C-terminus of the ?-glycosidase from the hyperthermophilic archaeonSulfolobus solfataricus: Functional role in the quaternary structure thermal stabilization. Proteins: Structure, Function and Bioinformatics, 2002, 48, 98-106. | 2.6 | 19 |
| 80 | β-Glycosidase from Sulfolobus solfataricus. Methods in Enzymology, 2001, 330, 201-215. | 1.0 | 21 |
| 81 | Enzymatic synthesis of oligosaccharides by two glycosyl hydrolases of Sulfolobus solfataricus. Extremophiles, 2001, 5, 145-152. | 2.3 | 20 |
| 82 | Enzymatic synthesis and hydrolysis of xylogluco-oligosaccharides using the first archaeal α-xylosidase from Sulfolobus solfataricus. Extremophiles, 2001, 5, 277-282. | 2.3 | 13 |
| 83 | Enzymatic synthesis of 2-deoxy-β-glucosides and stereochemistry of β-glycosidase from Sulfolobus solfataricus on glucal. Tetrahedron: Asymmetry, 2001, 12, 2783-2787. | 1.8 | 12 |
| 84 | Properties of the recombinant α-glucosidase from Sulfolobus solfataricus in relation to starch processing. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 787-794. | 1.8 | 13 |
| 85 | Glycosynthases: new enzymes for oligosaccharide synthesis. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 155-163. | 1.8 | 30 |
| 86 | A novel thermophilic Glycosynthase that effects branching glycosylation. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 365-368. | 2.2 | 77 |
| 87 | Activity and stability of hyperthermophilic enzymes: a comparative study on two archaeal β-glycosidases. Extremophiles, 2000, 4, 157-164. | 2.3 | 32 |
| 88 | Identification and Molecular Characterization of the First α-Xylosidase from an Archaeon. Journal of Biological Chemistry, 2000, 275, 22082-22089. | 3.4 | 68 |
| 89 | The Chromosomal Protein Sso7d of the CrenarchaeonSulfolobus solfataricus Rescues Aggregated Proteins in an ATP Hydrolysis-dependent Manner. Journal of Biological Chemistry, 2000, 275, 31813-31818. | 3.4 | 23 |
| 90 | Structure-function studies on β-glycosidase from Sulfolobus solfataricus. Molecular bases of thermostability. Biochimie, 1998, 80, 949-957. | 2.6 | 36 |

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| 91 | Molecular biology of hyperthermophilic Archaea. Advances in Biochemical Engineering/Biotechnology, 1998, 61, 87-115. | 1.1 | 11 |
| 92 | Restoration of the Activity of Active-Site Mutants of the Hyperthermophilic β-Glycosidase fromSulfolobus solfataricus: Dependence of the Mechanism on the Action of External Nucleophilesâ€. Biochemistry, 1998, 37, 17262-17270. | 2.5 | 110 |
| 93 | Structure and Reaction Mechanism of the \hat{l}^2 -Glycosidase from the Archaeon Sulfolobus Solfataricus. , 1998, , 209-212. | | Ο |
| 94 | Crystal structure of the β-glycosidase from the hyperthermophilic archeon Sulfolobus solfataricus: resilience as a key factor in thermostability. Journal of Molecular Biology, 1997, 271, 789-802. | 4.2 | 235 |
| 95 | Glycosyl hydrolases from hyperthermophiles. Extremophiles, 1997, 1, 2-13. | 2.3 | 142 |
| 96 | Identification of two glutamic acid residues essential for catalysis in the β-glycosidase from the thermoacidophilic archaeon Sulfolobus solfataricus. Protein Engineering, Design and Selection, 1996, 9, 1191-1195. | 2.1 | 50 |
| 97 | Industrial-Scale Production of Thermostable Enzymes: The Model-System of the β-Glycosidase from Sulfolobus Solfataricus. , 1996, , 89-99. | | 0 |
| 98 | Properties and production of the β-glycosidase from the thermophilic Archaeon Sulfolobus solfataricus expressed in mesophilic hosts. Progress in Biotechnology, 1995, 10, 77-84. | 0.2 | 0 |
| 99 | Molecular biology of extremophiles. World Journal of Microbiology and Biotechnology, 1995, 11, 71-84. | 3.6 | 32 |
| 100 | Expression and extensive characterization of a β-glycosidase from the extreme thermoacidophilic archaeon Sulfolobus solfataricus in Escherichia coli: Authenticity of the recombinant enzyme. Enzyme and Microbial Technology, 1995, 17, 992-997. | 3.2 | 75 |
| 101 | A gene encoding a putative membrane protein homologous to the major facilitator superfamily of transporters maps upstream of the beta-glycosidase gene in the archaeon Sulfolobus solfataricus. Journal of Bacteriology, 1995, 177, 1614-1619. | 2.2 | 24 |
| 102 | Thermostable β-Glycosidase fromSulfolobus Solfataricus. Biocatalysis, 1994, 11, 89-103. | 0.9 | 34 |
| 103 | Effect of cavity-creating mutations in the hydrophobic core of chymotrypsin inhibitor 2. Biochemistry, 1993, 32, 11259-11269. | 2.5 | 294 |
| 104 | Exoâ€glucosidase activity and substrate specificity of the betaâ€glycosidase isolated from the extreme thermophile Sulfolobus solfataricus. Biotechnology and Applied Biochemistry, 1993, 17, 239-250. | 3.1 | 11 |
| 105 | Expression of the thermostable beta-galactosidase gene from the archaebacterium Sulfolobus solfataricus in Saccharomyces cerevisiae and characterization of a new inducible promoter for heterologous expression. Journal of Bacteriology, 1992, 174, 873-882. | 2.2 | 63 |
| 106 | Oxalacetate decarâ ylase and pyruvate carâ ylase activities, and effect of sulfhydryl reagents in malic enzyme from Sulfolubus solfataricus. BBA - Proteins and Proteomics, 1988, 957, 301-311. | 2.1 | 8 |