

Patrick G Murray

List of Publications by Citations

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42
papers

1,174
citations

18
h-index

34
g-index

45
ext. papers

1,296
ext. citations

4.6
avg, IF

4.26
L-index

#	Paper	IF	Citations
42	Expression in <i>Trichoderma reesei</i> and characterisation of a thermostable family 3 beta-glucosidase from the moderately thermophilic fungus <i>Talaromyces emersonii</i> . <i>Protein Expression and Purification</i> , 2004 , 38, 248-57	2	134
41	Life cycle assessment of the production of the red antioxidant carotenoid astaxanthin by microalgae: from lab to pilot scale. <i>Journal of Cleaner Production</i> , 2014 , 64, 332-344	10.3	123
40	Expression of <i>Talaromyces emersonii</i> cellobiohydrolase Cel7A in <i>Saccharomyces cerevisiae</i> and rational mutagenesis to improve its thermostability and activity. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 69-79	1.9	108
39	Three-dimensional structure of a thermostable native cellobiohydrolase, CBH IB, and molecular characterization of the cel7 gene from the filamentous fungus, <i>Talaromyces emersonii</i> . <i>FEBS Journal</i> , 2004 , 271, 4495-506		92
38	Isolation and characterization of a thermostable endo-beta-glucanase active on 1,3-1,4-beta-D-glucans from the aerobic fungus <i>talaromyces emersonii</i> CBS 814.70. <i>Enzyme and Microbial Technology</i> , 2001 , 29, 90-98	3.8	86
37	Effect of various stress-regulatory factors on biomass and lipid production in microalga <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2013 , 128, 118-24	11	81
36	Kinetic parameters and mode of action of the cellobiohydrolases produced by <i>Talaromyces emersonii</i> . <i>BBA - Proteins and Proteomics</i> , 2002 , 1596, 366-80		66
35	Improved method for rapid detection of phthalates in bottled water by gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 997, 229-35	3.2	50
34	Metabolic engineering for improved microbial pentose fermentation. <i>Bioengineered Bugs</i> , 2010 , 1, 424-8		38
33	Effect of macro- and micro-nutrient limitation on superoxide dismutase activities and carotenoid levels in microalga <i>Dunaliella salina</i> CCAP 19/18. <i>Bioresource Technology</i> , 2013 , 147, 23-28	11	32
32	Molecular cloning and expression analysis of two distinct beta-glucosidase genes, bg1 and aven1, with very different biological roles from the thermophilic, saprophytic fungus <i>Talaromyces emersonii</i> . <i>Mycological Research</i> , 2007 , 111, 840-9		29
31	Enhanced textile dye decolorization by marine-derived basidiomycete <i>Peniophora</i> sp. CBMAI 1063 using integrated statistical design. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 8659-68	5.1	26
30	Exploitation of Microalgae Species for Nutraceutical Purposes: Cultivation Aspects. <i>Fermentation</i> , 2018 , 4, 46	4.7	26
29	Characterization of a multimeric, eukaryotic prolyl aminopeptidase: an inducible and highly specific intracellular peptidase from the non-pathogenic fungus <i>Talaromyces emersonii</i> . <i>Microbiology (United Kingdom)</i> , 2009 , 155, 3673-3682	2.9	26
28	Purification and characterisation of a β 1,4-xylanase from <i>Remersonia thermophila</i> CBS 540.69 and its application in bread making. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 1747-62	3.2	23
27	<i>Talaromyces emersonii</i> thermostable enzyme systems and their applications in wheat baking systems. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 7415-22	5.7	21
26	Inhibition of a secreted glutamic peptidase prevents growth of the fungus <i>Talaromyces emersonii</i> . <i>Journal of Biological Chemistry</i> , 2008 , 283, 29186-95	5.4	21

25	Identification of optimum fatty acid extraction methods for two different microalgae <i>Phaeodactylum tricornutum</i> and <i>Haematococcus pluvialis</i> for food and biodiesel applications. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4659-4667	4.4	19
24	Environmental evaluation of eicosapentaenoic acid production by <i>Phaeodactylum tricornutum</i> . <i>Science of the Total Environment</i> , 2014 , 466-467, 991-1002	10.2	17
23	The Carotenogenic CCAP 19/20 Produces Enhanced Levels of Carotenoid under Specific Nutrients Limitation. <i>BioMed Research International</i> , 2018 , 2018, 7532897	3	16
22	Simultaneous Determination of 23 Azo Dyes in Paprika by Gas Chromatography-Mass Spectrometry. <i>Food Analytical Methods</i> , 2017 , 10, 876-884	3.4	15
21	Xylose reductase from the thermophilic fungus <i>Talaromyces emersonii</i> : cloning and heterologous expression of the native gene (Texr) and a double mutant (TexrK271R + N273D) with altered coenzyme specificity. <i>Journal of Biosciences</i> , 2009 , 34, 881-90	2.3	14
20	Marine Microalgae for Potential Lutein Production. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6457	2.6	14
19	Characterisation of a <i>Talaromyces emersonii</i> thermostable enzyme cocktail with applications in wheat dough rheology. <i>Enzyme and Microbial Technology</i> , 2011 , 49, 229-36	3.8	13
18	Mitochondrial malate dehydrogenase from the thermophilic, filamentous fungus <i>Talaromyces emersonii</i> . <i>FEBS Journal</i> , 2004 , 271, 3115-26		12
17	Purification and characterization of a N-acetylglucosaminidase produced by <i>Talaromyces emersonii</i> during growth on algal fucoidan. <i>Journal of Applied Phycology</i> , 2008 , 20, 557-565	3.2	10
16	Bioactive Lipids of Marine Microalga sp. SABC 012504 with Anti-Inflammatory and Anti-Thrombotic Activities. <i>Marine Drugs</i> , 2021 , 19,	6	10
15	Tagging of biomolecules with deuterated water (D2O) in commercially important microalgae. <i>Biotechnology Letters</i> , 2013 , 35, 1067-72	3	9
14	Microalgae as a source of nutraceuticals 2015 , 255-291		7
13	Cloning, overexpression in <i>Escherichia coli</i> , and characterization of a thermostable fungal acetylxylin esterase from <i>Talaromyces emersonii</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 3759-62	4.8	7
12	Mycofabrication of common plasmonic colloids, theoretical considerations, mechanism and potential applications. <i>Advances in Colloid and Interface Science</i> , 2015 , 225, 37-52	14.3	6
11	Crystallization and preliminary crystallographic analysis of the catalytic domain cellobiohydrolase I from <i>Talaromyces emersonii</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1283-4		6
10	Effect of biomass pre-treatment on supercritical CO extraction of lipids from marine diatom sp. and its biomass evaluation as bioethanol feedstock. <i>Heliyon</i> , 2021 , 7, e05995	3.6	5
9	Marine cyanobacteria as potential alternative source for GABA production. <i>Bioresource Technology Reports</i> , 2019 , 8, 100342	4.1	3
8	Cloning, heterologous expression, and characterization of the xylitol and L-arabitol dehydrogenase genes, Texdh and Telad, from the thermophilic fungus <i>Talaromyces emersonii</i> . <i>Biochemical Genetics</i> , 2010 , 48, 480-95	2.4	3

7	Mutualism Within a Simulated Microgravity Environment - Piriformospora indica Promotes the Growth of Medicago truncatula. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2014 , 2, 21-33	0.4	2
6	β-Glucans from Yeast Immunomodulators from Novel Waste Resources. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5208	2.6	2
5	Polyketides as a source of chemical diversity 381-405		1
4	Biological Synthesis of Monodisperse Uniform-Size Silver Nanoparticles (AgNPs) by Fungal Cell-Free Extracts at Elevated Temperature and pH. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022 , 8, 439	5.6	0
3	Anti-inflammatory and antithrombotic properties of polar lipid extracts, rich in unsaturated fatty acids, from the Irish marine cyanobacterium Spirulina subsalsa. <i>Journal of Functional Foods</i> , 2022 , 94, 105124	5.1	0
2	Thermophilic Filamentous Fungal Enzyme Systems: Applications in the Agri-Food Industries. <i>Natural Products Journal</i> , 2011 , 1, 2-19	0.6	
1	Purification and characterization of a N-acetylglucosaminidase produced by Talaromyces emersonii during growth on algal fucoidan 2007 , 107-115		