

# Patrick G Murray

## List of Publications by Year in descending order

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43  
papers

1,493  
citations

331670

21  
h-index

315739

38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1996  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	9.3	169
2	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, 248-257.	1.3	146
3	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.	2.1	118
4	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, 4495-4506.	0.2	102
5	Effect of various stress-regulatory factors on biomass and lipid production in microalga <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2013, 128, 118-124.	9.6	97
6	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.	3.2	92
7	Kinetic parameters and mode of action of the cellobiohydrolases produced by <i>Talaromyces emersonii</i> . <i>BBA - Proteins and Proteomics</i> , 2002, 1596, 366-380.	2.1	74
8	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, 229-235.	2.3	64
9	Marine Microalgae for Potential Lutein Production. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6457.	2.5	46
10	Metabolic engineering for improved microbial pentose fermentation. <i>Bioengineered Bugs</i> , 2010, 1, 424-428.	1.7	45
11	Exploitation of Microalgae Species for Nutraceutical Purposes: Cultivation Aspects. <i>Fermentation</i> , 2018, 4, 46.	3.0	41
12	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.	9.6	40
13	Molecular cloning and expression analysis of two distinct $\beta$ -glucosidase genes, <i>bg1</i> and <i>aven1</i> , with very different biological roles from the thermophilic, saprophytic fungus <i>Talaromyces emersonii</i> . <i>Mycological Research</i> , 2007, 111, 840-849.	2.5	34
14	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, 8659-8668.	5.3	30
15	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> 153, 1077-1084.	0.784314	26
16	Purification and Characterisation of a $\beta$ -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, 1747-1762.	2.9	29
17	<i>Talaromyces emersonii</i> Thermostable Enzyme Systems and Their Applications in Wheat Baking Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 7415-7422.	5.2	26
18	Environmental evaluation of eicosapentaenoic acid production by <i>Phaeodactylum tricoratum</i> . <i>Science of the Total Environment</i> , 2014, 466-467, 991-1002.	8.0	26

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19	Inhibition of a Secreted Glutamic Peptidase Prevents Growth of the Fungus <i>Talaromyces emersonii</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 29186-29195.	3.4	25
20	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.	3.7	23
21	The Carotenogenic <i>Dunaliella salina</i> CCAP 19/20 Produces Enhanced Levels of Carotenoid under Specific Nutrients Limitation. <i>BioMed Research International</i> , 2018, 2018, 1-11.	1.9	21
22	Bioactive Lipids of Marine Microalga <i>Chlorococcum</i> sp. SABC 012504 with Anti-Inflammatory and Anti-Thrombotic Activities. <i>Marine Drugs</i> , 2021, 19, 28.	4.6	21
23	Simultaneous Determination of 23 Azo Dyes in Paprika by Gas Chromatography-Mass Spectrometry. <i>Food Analytical Methods</i> , 2017, 10, 876-884.	2.6	18
24	Characterisation of a <i>Talaromyces emersonii</i> thermostable enzyme cocktail with applications in wheat dough rheology. <i>Enzyme and Microbial Technology</i> , 2011, 49, 229-236.	3.2	16
25	Xylose reductase from the thermophilic fungus <i>Talaromyces emersonii</i> : cloning and heterologous expression of the native gene ( <i>Texr</i> ) and a double mutant ( <i>Texr</i> K271R + N273D) with altered coenzyme specificity. <i>Journal of Biosciences</i> , 2009, 34, 881-890.	1.1	14
26	$\beta$ -Glucans from Yeast as Immunomodulators from Novel Waste Resources. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5208.	2.5	14
27	Mitochondrial malate dehydrogenase from the thermophilic, filamentous fungus <i>Talaromyces emersonii</i> . <i>FEBS Journal</i> , 2004, 271, 3115-3126.	0.2	13
28	Effect of biomass pre-treatment on supercritical CO <sub>2</sub> extraction of lipids from marine diatom <i>Amphora</i> sp. and its biomass evaluation as bioethanol feedstock. <i>Heliyon</i> , 2021, 7, e05995.	3.2	12
29	Biological Synthesis of Low Cytotoxicity Silver Nanoparticles (AgNPs) by the Fungus <i>Chaetomium thermophilum</i> Sustainable Nanotechnology. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 605.	3.5	11
30	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.	2.8	10
31	Tagging of biomolecules with deuterated water (D <sub>2</sub> O) in commercially important microalgae. <i>Biotechnology Letters</i> , 2013, 35, 1067-1072.	2.2	10
32	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.	3.5	10
33	Anti-inflammatory and antithrombotic properties of polar lipid extracts, rich in unsaturated fatty acids, from the Irish marine cyanobacterium <i>Spirulina subsalsa</i> . <i>Journal of Functional Foods</i> , 2022, 94, 105124.	3.4	10
34	Economic Assessment of Energy Consumption in Wastewater Treatment Plants: Applicability of Alternative Nature-Based Technologies in Portugal. <i>Water (Switzerland)</i> , 2022, 14, 2042.	2.7	9
35	Cloning, Overexpression in <i>Escherichia coli</i> , and Characterization of a Thermostable Fungal Acetylglucan Esterase from <i>Talaromyces emersonii</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 3759-3762.	3.1	7
36	Marine cyanobacteria as potential alternative source for GABA production. <i>Bioresource Technology Reports</i> , 2019, 8, 100342.	2.7	7

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37	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, 1283-1284.	2.5	6
38	Mycofabrication of common plasmonic colloids, theoretical considerations, mechanism and potential applications. <i>Advances in Colloid and Interface Science</i> , 2015, 225, 37-52.	14.7	6
39	Molecular Characterization of Twenty-Five Marine Cyanobacteria Isolated from Coastal Regions of Ireland. <i>Biology</i> , 2019, 8, 59.	2.8	5
40	Cloning, Heterologous Expression, and Characterization of the Xylitol and l-Arabitol Dehydrogenase Genes, <i>Texdh</i> and <i>Telad</i> , from the Thermophilic Fungus <i>Talaromyces emersonii</i> . <i>Biochemical Genetics</i> , 2010, 48, 480-495.	1.7	3
41	Mutualism Within a Simulated Microgravity Environment - <i>Piriformospora indica</i> Promotes the Growth of <i>Medicago truncatula</i> . <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2014, 2, 21-33.	0.8	2
42	Thermophilic Filamentous Fungal Enzyme Systems: Applications in the "Agri-Food" Industries. <i>Natural Products Journal</i> , 2011, 1, 2-19.	0.3	0
43	Purification and characterization of a N-acetylglucosaminidase produced by <i>Talaromyces emersonii</i> during growth on algal fucoidan. , 2007, , 107-115.		0