

Stephanie G Burton

List of Publications by Year in descending order

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78
papers

3,388
citations

156536

32
h-index

162838

57
g-index

81
all docs

81
docs citations

81
times ranked

4402
citing authors

#	ARTICLE	IF	CITATIONS
1	Production and characterisation of a novel actinobacterial DyP-type peroxidase and its application in coupling of phenolic monomers. <i>Enzyme and Microbial Technology</i> , 2020, 141, 109654.	1.6	14
2	Modelling of immobilised enzyme biocatalytic membrane reactor performance. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 119, 48-53.	1.8	10
3	Partial purification and characterisation of two actinomycete tyrosinases and their application in cross-linking reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 353-364.	1.8	12
4	The effect of mutations near the T1 copper site on the biochemical characteristics of the small laccase from <i>Streptomyces coelicolor</i> A3(2). <i>Enzyme and Microbial Technology</i> , 2015, 68, 23-32.	1.6	40
5	Selection of <i>Clostridium</i> spp. in biological sand filters neutralizing synthetic acid mine drainage. <i>FEMS Microbiology Ecology</i> , 2014, 87, 678-690.	1.3	8
6	Increasing the scale of peroxidase production by <i>Streptomyces</i> sp. strain BSII#1. <i>Journal of Applied Microbiology</i> , 2014, 116, 554-562.	1.4	12
7	Minor differences in sand physicochemistry lead to major differences in bacterial community structure and function after exposure to synthetic acid mine drainage. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 211-220.	1.4	8
8	Selection of Diazotrophic Bacterial Communities in Biological Sand Filter Mesocosms Used for the Treatment of Phenolic-Laden Wastewater. <i>Microbial Ecology</i> , 2013, 66, 563-570.	1.4	7
9	Assessment of temporal and spatial evolution of bacterial communities in a biological sand filter mesocosm treating winery wastewater. <i>Journal of Applied Microbiology</i> , 2013, 115, 91-101.	1.4	24
10	Balancing redox cofactor generation and ATP synthesis: Key microaerobic responses in thermophilic fermentations. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1057-1065.	1.7	13
11	Novel, Biocatalytically Produced Hydroxytyrosol Dimer Protects against Ultraviolet-Induced Cell Death in Human Immortalized Keratinocytes. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 11509-11517.	2.4	24
12	Enzymatic Production of Enantiopure Amino Acids from Mono-substituted Hydantoin Substrates. <i>Methods in Molecular Biology</i> , 2012, 794, 37-54.	0.4	2
13	Enzymatic modification of 2,6-dimethoxyphenol for the synthesis of dimers with high antioxidant capacity. <i>Process Biochemistry</i> , 2012, 47, 1926-1932.	1.8	43
14	Microbial community structure stability, a key parameter in monitoring the development of constructed wetland mesocosms during start-up. <i>Research in Microbiology</i> , 2012, 163, 28-35.	1.0	41
15	Treatment of high ethanol concentration wastewater by biological sand filters: Enhanced COD removal and bacterial community dynamics. <i>Journal of Environmental Management</i> , 2012, 109, 54-60.	3.8	24
16	Phenolic removal processes in biological sand filters, sand columns and microcosms. <i>Bioresource Technology</i> , 2012, 119, 262-269.	4.8	27
17	Laccase-catalyzed dimerization of ferulic acid amplifies antioxidant activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 74, 29-35.	1.8	68
18	Mechanisms and Applications of Microbial Solvent Tolerance. <i>Microbiology Monographs</i> , 2012, , 177-208.	0.3	3

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19	Actinobacteria isolated from termite guts as a source of novel oxidative enzymes. <i>Antonie Van Leeuwenhoek</i> , 2011, 100, 589-605.	0.7	45
20	Actinobacterial Peroxidases: an Unexplored Resource for Biocatalysis. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 681-713.	1.4	56
21	Ethanol degradation and the benefits of incremental priming in pilot-scale constructed wetlands. <i>Ecological Engineering</i> , 2011, 37, 1453-1459.	1.6	21
22	Potential applications of laccase-mediated coupling and grafting reactions: A review. <i>Enzyme and Microbial Technology</i> , 2011, 48, 195-208.	1.6	270
23	Immobilization of <i>Geobacillus pallidus</i> RAPc8 nitrile hydratase (NHase) reduces substrate inhibition and enhances thermostability. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 109-115.	1.8	23
24	Laccase-mediated oxidation of phenolic derivatives. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 52-57.	1.8	40
25	Developments in nitrile and amide biotransformation processes. <i>Trends in Biotechnology</i> , 2010, 28, 561-569.	4.9	45
26	Improving the production of a thermostable amidase through optimising IPTG induction in a highly dense culture of recombinant <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2010, 52, 19-24.	1.8	26
27	Lipase-catalysed synthesis of esters of ferulic acid with natural compounds and evaluation of their antioxidant properties. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 56, 277-282.	1.8	59
28	Phenoxazinone synthase: what's in a name?. <i>Trends in Biotechnology</i> , 2009, 27, 248-258.	4.9	73
29	Thermophilic ethanologeneses: future prospects for second-generation bioethanol production. <i>Trends in Biotechnology</i> , 2009, 27, 398-405.	4.9	229
30	Phylogenetic analysis of actinobacterial populations associated with Antarctic Dry Valley mineral soils. <i>Environmental Microbiology</i> , 2009, 11, 566-576.	1.8	154
31	Enhanced hydantoin-hydrolyzing enzyme activity in an <i>Agrobacterium tumefaciens</i> strain with two distinct N-carbamoylases. <i>Enzyme and Microbial Technology</i> , 2009, 44, 203-209.	1.6	6
32	<i>Streptomyces hypolithicus</i> sp. nov., isolated from an Antarctic hypolith community. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 2032-2035.	0.8	23
33	The effect of the particulate phase on coal biosolubilisation mediated by <i>Trichoderma atroviride</i> in a slurry bioreactor. <i>Fuel Processing Technology</i> , 2008, 89, 123-130.	3.7	32
34	Microbial responses to solvent and alcohol stress. <i>Biotechnology Journal</i> , 2008, 3, 1388-1397.	1.8	20
35	Fungal Bioremediation of Phenolic Wastewaters in an Airlift Reactor. <i>Biotechnology Progress</i> , 2008, 21, 1068-1074.	1.3	57
36	Genes responsible for hydantoin degradation of a halophilic <i>Ochrobactrum</i> sp. G21 and <i>Delftia</i> sp. I24 – New insight into relation of d-hydantoinases and dihydropyrimidinases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 52-53, 2-12.	1.8	6

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37	Molecular Characterization of a Novel Family VIII Esterase from <i>Burkholderia multivorans</i> UWC10. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2007, 13, 181-188.	1.0	12
38	Laccase-Mediated Oxidation of Totarol. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1507-1513.	2.1	49
39	Enhanced operational parameters for amino acid production using hydantoin-hydrolysing enzymes of <i>Pseudomonas putida</i> strain RUKM3s immobilised in Eupergit® C. <i>Enzyme and Microbial Technology</i> , 2007, 40, 533-539.	1.6	7
40	Improving the bioremediation of phenolic wastewaters by <i>Trametes versicolor</i> . <i>Bioresource Technology</i> , 2007, 98, 579-587.	4.8	55
41	A dual phase fermentation protocol for the production of hydantoinase and carbamoylase by the wild type <i>Pseudomonas putida</i> RU-KM3. <i>Enzyme and Microbial Technology</i> , 2007, 41, 539-545.	1.6	2
42	A novel recombinant ethyl ferulate esterase from <i>Burkholderia multivorans</i> . <i>Journal of Applied Microbiology</i> , 2007, 103, 1610-1620.	1.4	17
43	Oxidation of 8-hydroxyquinoline catalyzed by laccase from <i>Trametes pubescens</i> yields an antioxidant aromatic polymer. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 44, 66-71.	1.8	27
44	Subtractive hybridization magnetic bead capture: A new technique for the recovery of full-length ORFs from the metagenome. <i>Biotechnology Journal</i> , 2007, 2, 36-40.	1.8	33
45	A novel thermostable nitrilase superfamily amidase from <i>Geobacillus pallidus</i> showing acyl transfer activity. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 801-811.	1.7	61
46	Degradation of low rank coal by <i>Trichoderma atroviride</i> ES11. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 625-631.	1.4	46
47	Degradation of low rank coal by <i>Trichoderma atroviride</i> ES11. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 633-633.	1.4	2
48	Distribution of hydantoinase activity in bacterial isolates from geographically distinct environmental sources. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 39, 160-165.	1.8	10
49	Bacterial diversity in the rhizosphere of Proteaceae species. <i>Environmental Microbiology</i> , 2005, 7, 1755-1768.	1.8	45
50	Hydantoin-Hydrolysing Enzymes for the Enantioselective Production of Amino Acids: New Insights and Applications. <i>ChemInform</i> , 2005, 36, no.	0.1	1
51	Mutational analysis of the hydantoin hydrolysis pathway in <i>Pseudomonas putida</i> RU-KM3S. <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 391-400.	1.7	11
52	Hydantoin-hydrolysing enzymes for the enantioselective production of amino acids: new insights and applications. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2737-2741.	1.8	98
53	Metagenomics, gene discovery and the ideal biocatalyst. <i>Biochemical Society Transactions</i> , 2004, 32, 298-302.	1.6	31
54	Enhanced hydantoinase and N-carbamoylase activity on immobilisation of <i>Agrobacterium tumefaciens</i> . <i>Biotechnology Letters</i> , 2003, 25, 67-72.	1.1	12

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55	Oxidizing enzymes as biocatalysts. Trends in Biotechnology, 2003, 21, 543-549.	4.9	173
56	Optimization of catechol production by membrane-immobilized polyphenol oxidase: A modeling approach. Biotechnology and Bioengineering, 2003, 83, 1-7.	1.7	11
57	Laccases and Phenol Oxidases in Organic Synthesis - a Review. Current Organic Chemistry, 2003, 7, 1317-1331.	0.9	178
58	Worksite-Based Diabetes Disease Management Program. Disease Management: DM, 2002, 5, 1-8.	1.0	7
59	The search for the ideal biocatalyst. Nature Biotechnology, 2002, 20, 37-45.	9.4	275
60	Development of Biotechnology in South Africa. Electronic Journal of Biotechnology, 2002, 5, .	1.2	0
61	Over-production of hydantoinase and N -carbamoylamino acid amidohydrolase enzymes by regulatory mutants of Agrobacterium tumefaciens. Applied Microbiology and Biotechnology, 2001, 57, 43-49.	1.7	12
62	A novel application for Neurospora crassa: Progress from batch culture to a membrane bioreactor for the bioremediation of phenols. Enzyme and Microbial Technology, 2001, 29, 348-356.	1.6	73
63	A novel Pseudomonas putida strain with high levels of hydantoin-converting activity, producing l-amino acids. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 397-406.	1.8	16
64	Development of bioreactors for application of biocatalysts in biotransformations and bioremediation. Pure and Applied Chemistry, 2001, 73, 77-83.	0.9	36
65	Designer Ligands. Part 5.1 Synthesis of Polydentate Biphenyl Ligands. Synthetic Communications, 2000, 30, 511-522.	1.1	6
66	A capillary membrane bioreactor using immobilized polyphenol oxidase for the removal of phenols from industrial effluents. Enzyme and Microbial Technology, 1999, 24, 209-217.	1.6	85
67	Immobilization of polyphenol oxidase on chitosan-coated polysulphone capillary membranes for improved phenolic effluent bioremediation. Enzyme and Microbial Technology, 1999, 25, 769-773.	1.6	63
68	Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water. Analytica Chimica Acta, 1999, 389, 161-170.	2.6	60
69	Immobilisation of polyphenol oxidase on nylon and polyethersulphone membranes: Effect on product formation. Desalination, 1998, 115, 307-312.	4.0	15
70	Title is missing!. Biotechnology Letters, 1998, 20, 707-711.	1.1	22
71	Suitability of a modified capillary membrane for growth of fungal biofilms. Desalination, 1998, 115, 303-306.	4.0	5
72	Biotransformation of phenols using immobilised polyphenol oxidase. Journal of Molecular Catalysis B: Enzymatic, 1998, 5, 411-416.	1.8	38

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73	Production of enantiomerically pure amino acids: characterisation of South African hydantoinases and hydantoinase-producing bacteria. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 5, 301-305.	1.8	15
74	Activation of mushroom polyphenol oxidase in organic medium by the detergent SDS. <i>Biotechnology Letters</i> , 1995, 17, 627-630.	1.1	13
75	Analysis of enzyme kinetic measurements for an organic-medium biocatalyst. <i>Biotechnology Letters</i> , 1995, 9, 7-12.	0.5	1
76	Biocatalysis with polyphenol oxidase: a review. <i>Catalysis Today</i> , 1994, 22, 459-487.	2.2	135
77	Activity of mushroom polyphenol oxidase in organic medium. <i>Biotechnology and Bioengineering</i> , 1993, 42, 938-944.	1.7	48
78	Isolation and Characterisation of Sulphur Compounds from <i>Tulbaghia violacea</i> . <i>Planta Medica</i> , 1992, 58, 295-296.	0.7	14