Dean Brady

List of Publications by Year
in descending order

63 papers	3,372 citations	218677 26 h-index	144013 57 g-index
67 all docs	67 docs citations	67 times ranked	3851 citing authors

#	Article	IF	Citations
1	Advances in enzyme immobilisation. Biotechnology Letters, 2009, 31, 1639-1650.	2.2	712
2	Bioaccumulation of metal cations by Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 1994, 41, 149-154.	3.6	251
3	Broadening the Scope of Biocatalysis in Sustainable Organic Synthesis. ChemSusChem, 2019, 12, 2859-2881.	6.8	228
4	The limits to biocatalysis: pushing the envelope. Chemical Communications, 2018, 54, 6088-6104.	4.1	193
5	The Hitchhiker's guide to biocatalysis: recent advances in the use of enzymes in organic synthesis. Chemical Science, 2020, 11, 2587-2605.	7.4	188
6	New frontiers in enzyme immobilisation: robust biocatalysts for a circular bio-based economy. Chemical Society Reviews, 2021, 50, 5850-5862.	38.1	168
7	Biosorptton of heavy metal cations by nonâ€viable yeast biomass. Environmental Technology (United) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	131
8	Microbial nitrilases: versatile, spiral forming, industrial enzymes. Journal of Applied Microbiology, 2009, 106, 703-727.	3.1	131
9	Chemical and enzymatic extraction of heavy metal binding polymers from isolated cell walls ofSaccharomyces cerevisiae. Biotechnology and Bioengineering, 1994, 44, 297-302.	3.3	119
10	Characterisation of nitrilase and nitrile hydratase biocatalytic systems. Applied Microbiology and Biotechnology, 2004, 64, 76-85.	3.6	116
11	A novel family VIII carboxylesterase derived from a leachate metagenome library exhibits promiscuous Î²-lactamase activity on nitrocefin. Applied Microbiology and Biotechnology, 2009, 83, 491-500.	3.6	80
12	Binding of heavy metals by the cell walls of Saccharomyces cerevisiae. Enzyme and Microbial Technology, 1994, 16, 633-638.	3.2	69
13	Green Chemistry, Biocatalysis, and the Chemical Industry of the Future. ChemSusChem, 2022, 15, .	6.8	63
14	Streamlining Design, Engineering, and Applications of Enzymes for Sustainable Biocatalysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 8032-8052.	6.7	60
15	Characterisation of Two Bifunctional Cellulaseâ€"Xylanase Enzymes Isolated from a Bovine Rumen Metagenome Library. Current Microbiology, 2013, 66, 145-151.	2.2	44
16	Diamination by N-coupling using a commercial laccase. Bioorganic and Medicinal Chemistry, 2010, 18, 1406-1414.	3.0	38
17	Cation loss during accumulation of heavy metal cations by Saccharomyces cerevisiae. Biotechnology Letters, 1994, 16, 543-548.	2.2	36
18	Spherezymes: A novel structured self-immobilisation enzyme technology. BMC Biotechnology, 2008, 8, 8.	3.3	36

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19	The use of hollow fiber cross-flow microfiltration in bioaccumulation and continuous removal of heavy metals from solution by Saccharomyces cerevisiae. Biotechnology and Bioengineering, 1994, 44, 1362-1366.	3.3	35
20	Oneâ€Pot Laccaseâ€Catalysed Synthesis of 5,6â€Dihydroxylated Benzo[<i>b</i>]furans and Catechol Derivatives, and Their Anticancer Activity. Archiv Der Pharmazie, 2013, 346, 266-277.	4.1	34
21	Metagenomic mining of feruloyl esterases from termite enteric flora. Applied Microbiology and Biotechnology, 2014, 98, 727-737.	3.6	31
22	Screening of commercial enzymes for the enantioselective hydrolysis of R,S-naproxen ester. Enzyme and Microbial Technology, 2003, 32, 472-477.	3.2	30
23	A modern and practical laccase-catalysed route suitable for the synthesis of 2-arylbenzimidazoles and 2-arylbenzothiazoles. RSC Advances, 2018, 8, 39496-39510.	3.6	29
24	Copper tolerance in Saccharomyces cerevisiae. Letters in Applied Microbiology, 1994, 18, 245-250.	2.2	28
25	Optimisation of the enantioselective biocatalytic hydrolysis of naproxen ethyl ester using ChiroCLEC-CR. Enzyme and Microbial Technology, 2004, 34, 283-291.	3.2	28
26	Enantioselective hydrolysis of Î²-hydroxy nitriles using the whole cell biocatalyst Rhodococcus rhodochrous ATCC BAA-870. Journal of Molecular Catalysis B: Enzymatic, 2009, 59, 231-236.	1.8	27
27	Improved chemical and physical stability of laccase after spherezyme immobilisation. Enzyme and Microbial Technology, 2009, 45, 432-435.	3.2	26
28	Enantioselective biocatalytic hydrolysis of Î²-aminonitriles to Î²-amino-amides using Rhodococcus rhodochrous ATCC BAA-870. Journal of Molecular Catalysis B: Enzymatic, 2012, 76, 68-74.	1.8	25
29	Stabilization of Escherichia coli uridine phosphorylase by evolution and immobilization. Journal of Molecular Catalysis B: Enzymatic, 2011, 68, 279-285.	1.8	24
30	Biodieselâ€™s trash is a biorefineriesâ€™ treasure: the use of â€œdirtyâ€•glycerol as an industrial fermentation substrate. World Journal of Microbiology and Biotechnology, 2020, 36, 2.	3.6	24
31	Bioaccumulation of metal cations by Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 1994, 41, 149-154.	3.6	24
32	Biocatalytic enantiomeric resolution of l-menthol from an eight isomeric menthol mixture through transesterification. Journal of Molecular Catalysis B: Enzymatic, 2012, 75, 1-10.	1.8	23
33	A one-pot laccase-catalysed synthesis of coumestan derivatives and their anticancer activity. Bioorganic and Medicinal Chemistry, 2017, 25, 1172-1182.	3.0	23
34	Metagenomic mining of glycoside hydrolases from the hindgut bacterial symbionts of a termite (<i>Trinervitermes trinervoides</i>) and the characterization of a multimodular Î²â€1,4â€xylanase (GH11). Biotechnology and Applied Biochemistry, 2017, 64, 174-186.	3.1	22
35	Optimisation of stabilised Carboxylesterase NP for enantioselective hydrolysis of naproxen methyl ester. Process Biochemistry, 2008, 43, 1419-1426.	3.7	19
36	Cloning, purification and characterisation of a recombinant purine nucleoside phosphorylase from Bacillus halodurans Alk36. Extremophiles, 2010, 14, 185-192.	2.3	19

#	ARTICLE	IF	CITATIONS
37	<i>Streptomyces albulus</i> yields Îµ-poly-<scp>l</scp>-lysine and other products from salt-contaminated glycerol waste. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 1083-1090.	3.0	18
38	Identification and characterisation of a fluorinase from Actinopolyspora mzabensis. Protein Expression and Purification, 2020, 166, 105508.	1.3	17
39	Scale-Up of a Chemo-Biocatalytic Route to (2<i>R</i>,4<i>R</i>)- and (2<i>S</i>,4<i>S</i>)-Monatin. Organic Process Research and Development, 2011, 15, 249-257.	2.7	16
40	Dimethylformamide is a novel nitrilase inducer in Rhodococcus rhodochrous. Applied Microbiology and Biotechnology, 2018, 102, 10055-10065.	3.6	15
41	Discovery of a novel carboxylesterase through functional screening of a pre-enriched environmental library. Journal of Applied Microbiology, 2009, 106, 1532-1539.	3.1	14
42	Defining a process operating window for the synthesis of 5-methyluridine by transglycosylation of guanosine and thymine. Journal of Biotechnology, 2011, 151, 108-113.	3.8	14
43	Tools for metabolic engineering in<i>Streptomyces</i>. Bioengineered, 2014, 5, 293-299.	3.2	14
44	Bacterial nitrilases and their regulation. Applied Microbiology and Biotechnology, 2019, 103, 4679-4692.	3.6	14
45	Substrate Profiling of the Cobalt Nitrile Hydratase from Rhodococcus rhodochrous ATCC BAA 870. Molecules, 2020, 25, 238.	3.8	13
46	High-yielding cascade enzymatic synthesis of 5-methyluridine using a novel combination of nucleoside phosphorylases. Biocatalysis and Biotransformation, 2010, 28, 245-253.	2.0	10
47	A feruloyl esterase derived from a leachate metagenome library. BMB Reports, 2012, 45, 14-19.	2.4	10
48	Hydrolysis of nitriles by soil bacteria: variation with soil origin. Journal of Applied Microbiology, 2017, 122, 686-697.	3.1	8
49	Production of self-immobilised enzyme microspheres using microfluidics. Process Biochemistry, 2018, 69, 75-81.	3.7	8
50	The complete genome sequence of the nitrile biocatalyst Rhodococcus rhodochrous ATCC BAA-870. BMC Genomics, 2020, 21, 3.	2.8	7
51	An Integrated Chemo-enzymatic Route for Preparation of Î²-Thymidine, a Key Intermediate in the Preparation of Antiretrovirals. Organic Process Research and Development, 2011, 15, 258-265.	2.7	6
52	Accessing Carboxylesterase Diversity from Termite Hindgut Symbionts through Metagenomics. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 277-286.	1.0	6
53	PADAM reactions of Î±-aminoaldehydes: Identity of major and minor diastereomers from the Passerini reaction. Tetrahedron, 2018, 74, 2925-2941.	1.9	6
54	Efficient one-pot synthesis of functionalised imidazo[1,2-<i>a</i>]pyridines and unexpected synthesis of novel tetracyclic derivatives by nucleophilic aromatic substitution. RSC Advances, 2020, 10, 8104-8114.	3.6	6

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55	Modification of Alcalase SphereZymeâ„¢ by entrapment in LentiKats^{Â®}to impart improved particle stability. Biocatalysis and Biotransformation, 2013, 31, 71-78.	2.0	5
56	Enzymatic kinetic resolution of Morita-Baylis-Hillman acetates. Tetrahedron: Asymmetry, 2017, 28, 1169-1174.	1.8	5
57	The Application of Biocatalysis in the Preparation and Resolution of Moritaâ€Baylisâ€Hillman Adducts and Their Derivatives. ChemBioChem, 2022, 23, .	2.6	5
58	Biocatalytic conversion of aloeresin A to aloesin. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1091-1097.	3.0	3
59	Functional Expression and Characterization of a Panel of Cobalt and Iron-Dependent Nitrile Hydratases. Molecules, 2020, 25, 2521.	3.8	3
60	A dual phase fermentation protocol for the production of hydantoinase and carbamoylase by the wild type Pseudomonas putida RU-KM3. Enzyme and Microbial Technology, 2007, 41, 539-545.	3.2	2
61	Development of fructose-1,6-bisphosphate aldolase enzyme peptide mimics as biocatalysts in direct asymmetric aldol reactions. RSC Advances, 2021, 11, 36670-36681.	3.6	2
62	Application of stereoselective biocatalysts for the enantiomeric resolution of beta-hydroxynitriles. Journal of Biotechnology, 2008, 136, S392.	3.8	1
63	A green, economical synthesis of Î²-ketonitriles and trifunctionalized building blocks from esters and lactones. Beilstein Journal of Organic Chemistry, 2019, 15, 2930-2935.	2.2	1