

Mark D Harrison

List of Publications by Year in descending order

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43
papers

2,293
citations

304743

22
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Organosolv pretreatment of plant biomass for enhanced enzymatic saccharification. <i>Green Chemistry</i> , 2016, 18, 360-381.	9.0	299
2	Intracellular copper routing: the role of copper chaperones. <i>Trends in Biochemical Sciences</i> , 2000, 25, 29-32.	7.5	234
3	A metallothionein containing a zinc finger within a four-metal cluster protects a bacterium from zinc toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9593-9598.	7.1	172
4	Multiple bacteria encode metallothioneins and SmtA-like zinc fingers. <i>Molecular Microbiology</i> , 2002, 45, 1421-1432.	2.5	162
5	Copper chaperones: function, structure and copper-binding properties. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 145-153.	2.6	157
6	The <i>Enterococcus hirae</i> copper chaperone CopZ delivers copper(I) to the CopY repressor. <i>FEBS Letters</i> , 1999, 445, 27-30.	2.8	145
7	Rice bran oil based biodiesel production using calcium oxide catalyst derived from <i>Chicoreus brunneus</i> shell. <i>Energy</i> , 2018, 144, 10-19.	8.8	130
8	Biodiesel production by lipase-catalyzed transesterification of <i>Ocimum basilicum</i> L. (sweet basil) seed oil. <i>Energy Conversion and Management</i> , 2017, 132, 82-90.	9.2	98
9	Structural Characteristics of Bagasse Furfural Residue and Its Lignin Component. An NMR, Py-GC/MS, and FTIR Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4846-4855.	6.7	87
10	Accumulation of recombinant cellobiohydrolase and endoglucanase in the leaves of mature transgenic sugar cane. <i>Plant Biotechnology Journal</i> , 2011, 9, 884-896.	8.3	84
11	Surplus Zinc Is Handled by Zym1 Metallothionein and Zhf Endoplasmic Reticulum Transporter in <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 30394-30400.	3.4	63
12	Crystal Structures of Oxidized and Reduced Stellacyanin from Horseradish Roots. <i>Journal of the American Chemical Society</i> , 2005, 127, 158-166.	13.7	51
13	Stoichiometry of Complex Formation between Copper(I) and the N-Terminal Domain of the Menkes Protein. <i>Biochemistry</i> , 2000, 39, 6857-6863.	2.5	49
14	Isolation and functional characterisation of banana phytoene synthase genes as potential cisgenes. <i>Planta</i> , 2012, 236, 1585-1598.	3.2	47
15	Effects of glycerol on enzymatic hydrolysis and ethanol production using sugarcane bagasse pretreated by acidified glycerol solution. <i>Bioresource Technology</i> , 2015, 192, 367-373.	9.6	43
16	Effect of pretreatment on saccharification of sugarcane bagasse by complex and simple enzyme mixtures. <i>Bioresource Technology</i> , 2013, 148, 105-113.	9.6	41
17	Enzymatic acylation of cyanidin-3-glucoside with fatty acid methyl esters improves stability and antioxidant activity. <i>Food Chemistry</i> , 2021, 343, 128482.	8.2	40
18	Inert Site in a Protein Zinc Cluster: Isotope Exchange by High Resolution Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2003, 125, 3226-3227.	13.7	39

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19	The effect of pretreatment on methanesulfonic acid-catalyzed hydrolysis of bagasse to levulinic acid, formic acid, and furfural. <i>RSC Advances</i> , 2016, 6, 74525-74535.	3.6	31
20	The combination of plant-expressed cellobiohydrolase and low dosages of cellulases for the hydrolysis of sugar cane bagasse. <i>Biotechnology for Biofuels</i> , 2014, 7, 131.	6.2	29
21	Filamentous fungi for future functional food and feed. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102729.	6.6	28
22	The Active-Site Structure of Umecyanin, the Stellacyanin from Horseradish Roots. <i>Journal of the American Chemical Society</i> , 2004, 126, 2481-2489.	13.7	23
23	Alkaline transition of phytoeyanins: a comparison of stellacyanin and umecyanin. <i>Biochemical Journal</i> , 2003, 371, 377-383.	3.7	19
24	Recombinant Cellulase Accumulation in the Leaves of Mature, Vegetatively Propagated Transgenic Sugarcane. <i>Molecular Biotechnology</i> , 2014, 56, 795-802.	2.4	18
25	Efficient production of fructo-oligosaccharides from sucrose and molasses by a novel <i>Aureobasidium pullulan</i> strain. <i>Biochemical Engineering Journal</i> , 2020, 163, 107747.	3.6	18
26	Characterisation of copper-binding to the second sub-domain of the Menkes protein ATPase (MNKr2). <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1999, 1453, 254-260.	3.8	17
27	Oxygen Isotope Ratios of Juice Water in Australian Oranges and Concentrates. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 2606-2612.	5.2	17
28	An improved chemically inducible gene switch that functions in the monocotyledonous plant sugar cane. <i>Plant Molecular Biology</i> , 2014, 84, 443-454.	3.9	17
29	An Axial Met Ligand at a Type 1 Copper Site is Preferable for Fast Electron Transfer. <i>ChemBioChem</i> , 2004, 5, 1579-1581.	2.6	15
30	Optical Spectroscopic Investigation of the Alkaline Transition in Umecyanin from Horseradish Root. <i>Biochemistry</i> , 2005, 44, 16090-16097.	2.5	14
31	Investigating the Cause of the Alkaline Transition of Phytoeyanins. <i>Biochemistry</i> , 2005, 44, 3056-3064.	2.5	14
32	A snapshot of microbial diversity and function in an undisturbed sugarcane bagasse pile. <i>BMC Biotechnology</i> , 2020, 20, 12.	3.3	12
33	Characterization of <i>Arabidopsis thaliana</i> stellacyanin: A comparison with umecyanin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 426-435.	2.6	11
34	Expression of Potato virus Y cytoplasmic inclusion protein in tobacco results in disorganization of parenchyma cells, distortion of epidermal cells, and induces mitochondrial and chloroplast abnormalities, formation of membrane whorls and atypical lipid accumulation. <i>Micron</i> , 2009, 40, 730-736.	2.2	10
35	Understanding flocculation properties of soil impurities present in the factory sugarcane supply. <i>Journal of Food Engineering</i> , 2016, 189, 55-63.	5.2	10
36	Exogenous Probiotics Improve Fermentation Quality, Microflora Phenotypes, and Trophic Modes of Fermented Vegetable Waste for Animal Feed. <i>Microorganisms</i> , 2021, 9, 644.	3.6	10

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37	Valorization of sugarcane biorefinery residues using fungal biocatalysis. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 997-1011.	4.6	8
38	Highly efficient production of transfructosylating enzymes using low-cost sugarcane molasses by <i>A. pullulans</i> FRR 5284. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	8
39	Stability of endoglucanases from mesophilic fungus and thermophilic bacterium in acidified polyols. <i>Enzyme and Microbial Technology</i> , 2014, 61-62, 55-60.	3.2	6
40	<i>Pseudomonas aeruginosa</i> Trent and zinc homeostasis. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	4
41	Transformation of sugarcane molasses into fructooligosaccharides with enhanced prebiotic activity using whole-cell biocatalysts from <i>Aureobasidium pullulans</i> FRR 5284 and an invertase-deficient <i>Saccharomyces cerevisiae</i> 1403-7A. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	3
42	Production of human vitronectin in <i>Nicotiana benthamiana</i> using the INPACT hyperexpression platform. <i>Plant Biotechnology Journal</i> , 2018, 16, 394-403.	8.3	2
43	Development of simple, scalable protease production from <i>Botrytis cinerea</i> . <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2219-2233.	3.6	1