

Robert E Speight

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,086
citations

304743

22
h-index

254184

43
g-index

69
all docs

69
docs citations

69
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold atmospheric plasma activated water as a prospective disinfectant: the crucial role of peroxyntirite. <i>Green Chemistry</i> , 2018, 20, 5276-5284.	9.0	302
2	Clay-supported nanoscale zero-valent iron composite materials for the remediation of contaminated aqueous solutions: A review. <i>Chemical Engineering Journal</i> , 2017, 312, 336-350.	12.7	267
3	Low carbon fuels and commodity chemicals from waste gases – systematic approach to understand energy metabolism in a model acetogen. <i>Green Chemistry</i> , 2016, 18, 3020-3028.	9.0	143
4	A Survey of the 2010 Quartz Crystal Microbalance Literature. <i>Journal of Molecular Recognition</i> , 2012, 25, 451-473.	2.1	124
5	Technoeconomic analysis of renewable aviation fuel from microalgae, <i>Pongamia pinnata</i> , and sugarcane. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 416-428.	3.7	112
6	Closing the textile loop: Enzymatic fibre separation and recycling of wool/polyester fabric blends. <i>Waste Management</i> , 2020, 102, 149-160.	7.4	83
7	Direct and Quantitative Detection of Bacteriophage by “Hearing” Surface Detachment Using a Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 2001, 73, 3935-3939.	6.5	67
8	The salt dependence of DNA recognition by NF-kappaB p50: a detailed kinetic analysis of the effects on affinity and specificity. <i>Nucleic Acids Research</i> , 1999, 27, 1063-1069.	14.5	61
9	Understanding the dynamics of keratin weakening and hydrolysis by proteases. <i>PLoS ONE</i> , 2018, 13, e0202608.	2.5	56
10	Effect of Plasmid Design and Type of Integration Event on Recombinant Protein Expression in <i>Pichia pastoris</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	54
11	Stepwise engineering of a <i>Pichia pastoris</i> D-amino acid oxidase whole cell catalyst. <i>Microbial Cell Factories</i> , 2010, 9, 24.	4.0	47
12	Challenges and Opportunities in Identifying and Characterising Keratinases for Value-Added Peptide Production. <i>Catalysts</i> , 2020, 10, 184.	3.5	39
13	Identification of broad specificity P450CAM variants by primary screening against indole as substrate. <i>Chemical Communications</i> , 2005, , 3652.	4.1	36
14	Two Gut-Associated Yeasts in a Tephritid Fruit Fly have Contrasting Effects on Adult Attraction and Larval Survival. <i>Journal of Chemical Ecology</i> , 2017, 43, 891-901.	1.8	36
15	Preparative deracemization of unnatural amino acids. <i>Biochemical Society Transactions</i> , 2006, 34, 287.	3.4	35
16	High-Performance Plasma-Enabled Biorefining of Microalgae to Value-Added Products. <i>ChemSusChem</i> , 2019, 12, 4976-4985.	6.8	32
17	Disulfide bond engineering of AppA phytase for increased thermostability requires co-expression of protein disulfide isomerase in <i>Pichia pastoris</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 80.	6.2	30
18	Probiotic <i>Bacillus amyloliquefaciens</i> H57 ameliorates subclinical necrotic enteritis in broiler chicks by maintaining intestinal mucosal integrity and improving feed efficiency. <i>Poultry Science</i> , 2020, 99, 4278-4293.	3.4	28

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19	Filamentous fungi for future functional food and feed. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102729.	6.6	28
20	A new plasmid display technology for the in vitro selection of functional phenotype–genotype linked proteins. <i>Chemistry and Biology</i> , 2001, 8, 951-965.	6.0	27
21	Enantioselective epoxidation of linolenic acid catalysed by cytochrome P450BM3 from <i>Bacillus megaterium</i> . <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2688.	2.8	27
22	Engineering Enzyme Properties for Improved Biocatalytic Processes in Batch and Continuous Flow. <i>Organic Process Research and Development</i> , 2022, 26, 1914-1924.	2.7	24
23	Improved fermentation efficiency of <i>S. cerevisiae</i> by changing glycolytic metabolic pathways with plasma agitation. <i>Scientific Reports</i> , 2018, 8, 8252.	3.3	23
24	Analysis of the NF- κ B p50 dimer interface by diversity screening 1 Edited by J. Wells. <i>Journal of Molecular Biology</i> , 2001, 310, 563-575.	4.2	22
25	Prussian blue analogue nanoenzymes mitigate oxidative stress and boost bio-fermentation. <i>Nanoscale</i> , 2019, 11, 19497-19505.	5.6	22
26	Wastes to profit: a circular economy approach to value-addition in livestock industries. <i>Animal Production Science</i> , 2021, 61, 541.	1.3	22
27	Insights into amoxicillin degradation in water by non-thermal plasmas. <i>Chemosphere</i> , 2022, 291, 132757.	8.2	21
28	Bactericidal Silver Nanoparticles by Atmospheric Pressure Solution Plasma Processing. <i>Nanomaterials</i> , 2020, 10, 874.	4.1	20
29	Co-utilization of acidified glycerol pretreated sugarcane bagasse for microbial oil production by a novel <i>Rhodospiridium</i> strain. <i>Engineering in Life Sciences</i> , 2019, 19, 217-228.	3.6	19
30	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
31	Integral Membrane Fatty Acid Desaturases: A Review of Biochemical, Structural, and Biotechnological Advances. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 2000181.	1.5	15
32	Towards commercial levels of astaxanthin production in <i>Phaffia rhodozyma</i> . <i>Journal of Biotechnology</i> , 2022, 350, 42-54.	3.8	14
33	Rapid identification of cytochrome P450cam variants by in vivo screening of active site libraries. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2829-2831.	1.8	13
34	An improved and general streamlined phylogenetic protocol applied to the fatty acid desaturase family. <i>Molecular Phylogenetics and Evolution</i> , 2017, 115, 50-57.	2.7	13
35	High-level expression of <i>Rhodotorula gracilis</i> d-amino acid oxidase in <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2011, 33, 557-563.	2.2	12
36	Cloning, expression, characterisation and mutational analysis of l-aspartate oxidase from <i>Pseudomonas putida</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 85-86, 17-22.	1.8	12

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37	A snapshot of microbial diversity and function in an undisturbed sugarcane bagasse pile. <i>BMC Biotechnology</i> , 2020, 20, 12.	3.3	12
38	Biorefining within food loss and waste frameworks: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111781.	16.4	12
39	Genomic organisation, activity and distribution analysis of the microbial putrescine oxidase degradation pathway. <i>Systematic and Applied Microbiology</i> , 2013, 36, 457-466.	2.8	11
40	Synergistic optimisation of expression, folding, and secretion improves <i>E. coli</i> AppA phytase production in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2021, 20, 8.	4.0	11
41	Effects of dissolved oxygen availability and culture biomass at induction upon the intracellular expression of monoamine oxidase by recombinant <i>E. coli</i> in fed batch bioprocesses. <i>Process Biochemistry</i> , 2011, 46, 721-729.	3.7	10
42	Yeasts Influence Host Selection and Larval Fitness in Two Frugivorous <i>Carpophilus</i> Beetle Species. <i>Journal of Chemical Ecology</i> , 2020, 46, 675-687.	1.8	10
43	Identification, functional expression and kinetic analysis of two primary amine oxidases from <i>Rhodococcus opacus</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 74, 73-82.	1.8	8
44	The repertoire of nitrogen assimilation in <i>Rhodococcus</i> : catalysis, pathways and relevance in biotechnology and bioremediation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 787-802.	3.2	8
45	Valorization of sugarcane biorefinery residues using fungal biocatalysis. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 997-1011.	4.6	8
46	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
47	High-Efficiency Biocatalytic Conversion of Thebaine to Codeine. <i>ACS Omega</i> , 2020, 5, 9339-9347.	3.5	7
48	Comparison of spray-drying and freeze-drying for inoculum production of the probiotic <i>Bacillus amyloliquefaciens</i> strain H57. <i>Food and Bioproducts Processing</i> , 2021, 130, 121-131.	3.6	7
49	Future fashion, biotechnology and the living world: microbial cell factories and forming new <i>â€˜oddkinsâ€™</i> . <i>Continuum</i> , 2021, 35, 897-913.	0.9	7
50	Valorisation of keratin waste: Controlled pretreatment enhances enzymatic production of antioxidant peptides. <i>Journal of Environmental Management</i> , 2022, 301, 113945.	7.8	7
51	Distamycin A affects the stability of NF- κ B p50-DNA complexes in a sequence-dependent manner. <i>Journal of Molecular Recognition</i> , 2002, 15, 19-26.	2.1	6
52	Cell-free pipeline for discovery of thermotolerant xylanases and endo -1,4- β -glucanases. <i>Journal of Biotechnology</i> , 2017, 259, 191-198.	3.8	6
53	Effect of multi-modal environmental stress on dose-dependent cytotoxicity of nanodiamonds in <i>Saccharomyces cerevisiae</i> cells. <i>Sustainable Materials and Technologies</i> , 2019, 22, e00123.	3.3	6
54	Antimicrobial adhesive films by plasma-enabled polymerisation of m-cresol. <i>Scientific Reports</i> , 2022, 12, 7560.	3.3	6

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55	Role of amine oxidase expression to maintain putrescine homeostasis in <i>Rhodococcus opacus</i> . <i>Enzyme and Microbial Technology</i> , 2013, 52, 286-295.	3.2	5
56	Platforms to accelerate biomanufacturing of enzyme and probiotic animal feed supplements: discovery considerations and manufacturing implications. <i>Animal Production Science</i> , 2022, 62, 1113-1128.	1.3	5
57	Biogas, Bioreactors and Bacterial Methane Oxidation. , 2018, , 213-235.		4
58	Enzyme systems for effective dag removal from cattle hides. <i>Animal Production Science</i> , 2019, 59, 1387.	1.3	4
59	Enzymatic removal of dags from livestock: an agricultural application of enzyme technology. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5739-5748.	3.6	3
60	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
61	Matching the biomass to the bioproduct. <i>ChemistrySelect</i> , 2016, 1, .	1.5	2
62	1. Matching the biomass to the bioproduct. , 2016, , 1-44.		2
63	Novel Biocatalyst Technology for the Preparation of Chiral Amines. <i>ChemInform</i> , 2005, 36, no.	0.0	1
64	Chemo-Radiative Stress of Plasma as a Modulator of Charge-Dependent Nanodiamond Cytotoxicity. <i>ACS Applied Bio Materials</i> , 2020, 3, 7202-7210.	4.6	1