

Karl Rumbold

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,277
citations

471061

17
h-index

360668

35
g-index

41
all docs

41
docs citations

41
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial metabolomics: past, present and future methodologies. <i>Biotechnology Letters</i> , 2007, 29, 1-16.	1.1	302
2	Microbial utilization of crude glycerol for the production of value-added products. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 217-226.	1.4	158
3	High-Level Intracellular Expression of Hydroxynitrile Lyase from the Tropical Rubber Tree <i>Hevea brasiliensis</i> in Microbial Hosts. <i>Protein Expression and Purification</i> , 1997, 11, 61-71.	0.6	126
4	Directed evolution of the thermostable xylanase from <i>Thermomyces lanuginosus</i> . <i>Journal of Biotechnology</i> , 2007, 127, 348-354.	1.9	69
5	Purification and Properties of a Feruloyl Esterase Involved in Lignocellulose Degradation by <i>Aureobasidium pullulans</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 5622-5626.	1.4	61
6	Microbial production host selection for converting second-generation feedstocks into bioproducts. <i>Microbial Cell Factories</i> , 2009, 8, 64.	1.9	60
7	Bioflocculant production by a consortium of <i>Streptomyces</i> and <i>Cellulomonas</i> species and media optimization via surface response model. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 257-264.	2.5	54
8	The Bioethanol Industry in Sub-Saharan Africa: History, Challenges, and Prospects. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-11.	3.0	39
9	A novel screening assay for hydroxynitrile lyases suitable for high-throughput screening. <i>Journal of Biotechnology</i> , 2007, 129, 151-161.	1.9	31
10	Characterization and flocculation efficiency of a bioflocculant produced by a marine <i>Halobacillus</i> . <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2671-2679.	1.2	28
11	Characterization of an Exopolymeric Flocculant Produced by a <i>Brachybacterium</i> sp.. <i>Materials</i> , 2013, 6, 1237-1254.	1.3	27
12	Biodiesel's trash is a biorefineries' treasure: the use of "dirty" glycerol as an industrial fermentation substrate. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 2.	1.7	24
13	Microbial renewable feedstock utilization. <i>Bioengineered Bugs</i> , 2010, 1, 359-366.	2.0	21
14	The availability of second generation feedstocks for the treatment of acid mine drainage and to improve South Africa's bio-based economy. <i>Science of the Total Environment</i> , 2018, 637-638, 132-136.	3.9	21
15	Global Co-occurrence of Acid Mine Drainage and Organic Rich Industrial and Domestic Effluent: Biological sulfate reduction as a co-treatment-option. <i>Journal of Water Process Engineering</i> , 2020, 38, 101650.	2.6	21
16	Monitoring on-line desalted lignocellulosic hydrolysates by microdialysis sampling micro-high performance anion exchange chromatography with integrated pulsed electrochemical detection/mass spectrometry. <i>Biotechnology and Bioengineering</i> , 2002, 78, 822-828.	1.7	18
17	<i>Streptomyces albulus</i> yields μ -poly-L-lysine and other products from salt-contaminated glycerol waste. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 1083-1090.	1.4	18
18	HCN production and hydroxynitrile lyase: a natural activity in plants and a renewed biotechnological interest. <i>Biotechnology Letters</i> , 2014, 36, 223-228.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Identification and characterisation of a fluorinase from <i>Actinopolyspora mزابensis</i> . Protein Expression and Purification, 2020, 166, 105508.	0.6	17
20	The cellular response of <i>Saccharomyces cerevisiae</i> to multi-walled carbon nanotubes (MWCNTs). Journal of Saudi Chemical Society, 2015, 19, 147-154.	2.4	16
21	Tools for metabolic engineering in <i>Streptomyces</i> . Bioengineered, 2014, 5, 293-299.	1.4	14
22	Evaluation of Physicochemical Properties of South African Cashew Apple Juice as a Biofuel Feedstock. Scientifica, 2015, 2015, 1-9.	0.6	14
23	Adaptive Gene Content and Allele Distribution Variations in the Wild and Domesticated Populations of <i>Saccharomyces cerevisiae</i> . Frontiers in Microbiology, 2021, 12, 631250.	1.5	14
24	Bioethanolic yeasts from dung beetles: tapping the potential of extremophilic yeasts for improvement of lignocellulolytic feedstock fermentation. Biotechnology for Biofuels, 2021, 14, 86.	6.2	14
25	The Production of Bioethanol from Cashew Apple Juice by Batch Fermentation Using <i>Saccharomyces cerevisiae</i> Y2084 and Vin13. , 2013, 2013, 1-11.		13
26	Draft Genome Sequence of <i>Streptomyces albulus</i> Strain CCRC 11814, an $\hat{\mu}$ -Poly- <i>l</i> -Lysine-Producing Actinomycete. Genome Announcements, 2013, 1, .	0.8	10
27	A Systems Approach to Uncover the Effects of the PGPR <i>Pseudomonas koreensis</i> on the Level of Drought Stress Tolerance in <i>Helianthus Annuus</i> . Procedia Environmental Sciences, 2015, 29, 262-263.	1.3	10
28	Overexpression of <i>Aspergillus tubingensis</i> <i>faeA</i> in protease-deficient <i>Aspergillus niger</i> enables ferulic acid production from plant material. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 1027-1034.	1.4	8
29	Enrichment of maize and triticale bran with recombinant <i>Aspergillus tubingensis</i> ferulic acid esterase. Journal of Food Science and Technology, 2017, 54, 778-785.	1.4	8
30	Screening for hydroxynitrile lyase activity in non-commercialised plants. South African Journal of Botany, 2014, 93, 9-13.	1.2	7
31	Functional characterisation of the transcriptome from leaf tissue of the fluoroacetate-producing plant, <i>Dichapetalum cymosum</i> , in response to mechanical wounding. Scientific Reports, 2020, 10, 20539.	1.6	7
32	Synthesis and application of cationised cellulose for removal of Cr(VI) from acid mine-drainage contaminated water. AAS Open Research, 2021, 4, 4.	1.5	7
33	Characterization and immobilization of <i>Pycnoporus cinnabarinus</i> carboxylic acid reductase, PcCAR2. Journal of Biotechnology, 2022, 345, 47-54.	1.9	7
34	The response effect of pheochromocytoma (PC12) cell lines to oxidized multi-walled carbon nanotubes (<i>MWCNTs). African Health Sciences, 2014, 13, 947.	0.3	5
35	Bioremediation of acid mine drainage using Fischer-Tropsch waste water as a feedstock for dissimilatory sulfate reduction. Journal of Water Process Engineering, 2020, 35, 101229.	2.6	5
36	High-throughput in-field bioprospecting for cyanogenic plants and hydroxynitrile lyases. Biocatalysis and Biotransformation, 2020, 38, 234-240.	1.1	3

#	ARTICLE	IF	CITATIONS
37	Influence of Growth Substrate and Free Ferulic Acid on the Production of Feruloyl Esterase by <i>Aureobasidium pullulans</i> . ACS Symposium Series, 2003, , 246-254.	0.5	1
38	Microbial Feruloyl Esterases. ACS Symposium Series, 2004, , 255-270.	0.5	1
39	Cellulose degradation capabilities of dung beetle, <i>Euoniticellus intermedius</i> , larva gut consortia. African Journal of Biotechnology, 2016, 15, 315-319.	0.3	1
40	Transcriptome and proteome of the corm, leaf and flower of <i>Hypoxis hemerocallidea</i> (African potato). PLoS ONE, 2021, 16, e0253741.	1.1	0
41	The spread of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): South African resilience and survival strategies. Malawi Medical Journal, 2020, 32, 239-243.	0.2	0