Guy Barker

List of Publications by Year
in descending order

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50 papers	2,623 citations	257450 24 h-index	197818 49 g-index
51 all docs	51 docs citations	51 times ranked	3836 citing authors

#	Article	IF	Citations
1	Fatty acid secretion by the white-rot fungus,Trametes versicolor. Journal of Industrial Microbiology and Biotechnology, 2022, 49, .	3.0	9
2	Elucidation of the biochemical pathways involved in two distinct cut-surface discolouration phenotypes of lettuce. Postharvest Biology and Technology, 2022, 183, 111753.	6.0	5
3	Application of ligninolytic bacteria to the enhancement of lignocellulose breakdown and methane production from oil palm empty fruit bunches (OPEFB). Bioresource Technology Reports, 2022, 17, 100951.	2.7	14
4	Characterization and Mapping of retr04, retr05 and retr06 Broad-Spectrum Resistances to Turnip Mosaic Virus in Brassica juncea, and the Development of Robust Methods for Utilizing Recalcitrant Genotyping Data. Frontiers in Plant Science, 2021, 12, 787354.	3.6	0
5	Quantitative Trait Locus Mapping of Resistance to Turnip Yellows Virus in Brassica rapa and Brassica oleracea and Introgression of These Resistances by Resynthesis Into Allotetraploid Plants for Deployment in Brassica napus. Frontiers in Plant Science, 2021, 12, 781385.	3.6	9
6	Biotransformation of Tropical Lignocellulosic Feedstock Using the Brown rot Fungus Serpula lacrymans. Waste and Biomass Valorization, 2020, 11, 2689-2700.	3.4	16
7	Identification and QTL mapping of resistance to Turnip yellows virus (TuYV) in oilseed rape, Brassica napus. Theoretical and Applied Genetics, 2020, 133, 383-393.	3.6	19
8	Biochemical characterization ofSerpula lacrymansiron-reductase enzymes in lignocellulose breakdown. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 145-154.	3.0	8
9	Extraction of Vanillin Following Bioconversion of Rice Straw and Its Optimization by Response Surface Methodology. Molecules, 2020, 25, 6031.	3.8	11
10	A domestication history of dynamic adaptation and genomic deterioration in Sorghum. Nature Plants, 2019, 5, 369-379.	9.3	84
11	A comparison of ergosterol and PLFA methods for monitoring the growth of ligninolytic fungi during wheat straw solid state cultivation. Journal of Microbiological Methods, 2018, 148, 49-54.	1.6	7
12	Addressing the threat of climate change to agriculture requires improving crop resilience to short-term abiotic stress. Outlook on Agriculture, 2018, 47, 270-276.	3.4	14
13	Towards new sources of resistance to the currant-lettuce aphid (Nasonovia ribisnigri). Molecular Breeding, 2017, 37, 4.	2.1	17
14	Phytoremediation-biorefinery tandem for effective clean-up of metal contaminated soil and biomass valorisation. International Journal of Phytoremediation, 2017, 19, 965-975.	3.1	5
15	Oxidative discolouration in whole-head and cut lettuce: biochemical and environmental influences on a complex phenotype and potential breeding strategies to improve shelf-life. Euphytica, 2017, 213, 180.	1.2	25
16	Genome-Wide Linkage and Association Mapping of Halo Blight Resistance in Common Bean to Race 6 of the Globally Important Bacterial Pathogen. Frontiers in Plant Science, 2017, 8, 1170.	3.6	57
17	Reappraisal of putative glyoxalase 1-deficient mouse and dicarbonyl stress on embryonic stem cellsin vitro. Biochemical Journal, 2016, 473, 4255-4270.	3.7	26
18	Biodegradation as natural fibre pre-treatment in composite manufacturing. Green Materials, 2016, 4, 8-17.	2.1	9

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19	Trait to gene analysis reveals that allelic variation in three genes determines seed vigour. New Phytologist, 2016, 212, 964-976.	7.3	29
20	The pangenome of an agronomically important crop plant Brassica oleracea. Nature Communications, 2016, 7, 13390.	12.8	375
21	Frequency Modulated Translocational Oscillations of Nrf2 Mediate the Antioxidant Response Element Cytoprotective Transcriptional Response. Antioxidants and Redox Signaling, 2015, 23, 613-629.	5.4	63
22	Comparative Cytotoxicity of Artemisinin and Cisplatin and Their Interactions with Chlorogenic Acids in MCF7 Breast Cancer Cells. ChemMedChem, 2014, 9, 2791-2797.	3.2	58
23	Integrating medicinal plants extraction into a high-value biorefinery: An example of Artemisia annua L.. Comptes Rendus Chimie, 2014, 17, 232-241.	0.5	15
24	Multiple copies of eukaryotic translation initiation factors in Brassica rapa facilitate redundancy, enabling diversification through variation in splicing and broadâ€spectrum virus resistance. Plant Journal, 2014, 77, 261-268.	5.7	38
25	Development of efficient miniprep transformation methods for Artemisia annua using Agrobacterium tumefaciens and Agrobacterium rhizogenes. In Vitro Cellular and Developmental Biology - Plant, 2014, 50, 590-600.	2.1	4
26	The effect of O-methylated flavonoids and other co-metabolites on the crystallization and purification of artemisinin. Journal of Biotechnology, 2014, 171, 25-33.	3.8	14
27	Transcriptome and methylome profiling reveals relics of genome dominance in the mesopolyploid Brassica oleracea. Genome Biology, 2014, 15, R77.	9.6	456
28	A rapid method for the determination of artemisinin and its biosynthetic precursors in Artemisia annua L. crude extracts. Journal of Pharmaceutical and Biomedical Analysis, 2013, 84, 269-277.	2.8	43
29	Genetic regulation of glucoraphanin accumulation in BenefortÃ©^{Â®} broccoli. New Phytologist, 2013, 198, 1085-1095.	7.3	111
30	Anti-Plasmodial Polyvalent Interactions in Artemisia annua L. Aqueous Extract â€“ Possible Synergistic and Resistance Mechanisms. PLoS ONE, 2013, 8, e80790.	2.5	70
31	Characterization of metabolite quantitative trait loci and metabolic networks that control glucosinolate concentration in the seeds and leaves of Brassica napus. New Phytologist, 2012, 193, 96-108.	7.3	93
32	Developing genetic resources for pre-breeding in Brassica oleracea L.: an overview of the UK perspective. Journal of Plant Biotechnology, 2012, 39, 62-68.	0.4	13
33	Global food security and the governance of modern biotechnologies. EMBO Reports, 2011, 12, 763-768.	4.5	39
34	Turnip mosaic virus (TuMV) Is Able to Use Alleles of Both eIF4E and eIF(iso)4E from Multiple Loci of the Diploid Brassica rapa. Molecular Plant-Microbe Interactions, 2010, 23, 1498-1505.	2.6	42
35	A design of experiments (DoE) approach to material properties optimization of electrospun nanofibers. Journal of Applied Polymer Science, 2010, 117, 2251-2257.	2.6	35
36	Synthetic Mimicking of Plant Oils and Comparison with Naturally Grown Products in Polyurethane Synthesis. Macromolecular Bioscience, 2008, 8, 526-532.	4.1	13

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37	The CACTA transposon Bot1 played a major role in Brassica genome divergence and gene proliferation. Plant Journal, 2008, 56, 1030-1044.	5.7	75
38	Novel Insights into Seed Fatty Acid Synthesis and Modification Pathways from Genetic Diversity and Quantitative Trait Loci Analysis of the Brassica C Genome. Plant Physiology, 2007, 144, 1827-1842.	4.8	78
39	The reference genetic linkage map for the multinational Brassica rapa genome sequencing project. Theoretical and Applied Genetics, 2007, 115, 777-792.	3.6	160
40	Mathematical modelling and the control of lymphatic filariasis. Lancet Infectious Diseases, The, 2004, 4, 223-234.	9.1	144
41	Isolation and characterization of microsatellite loci from the human whipwormTrichuris trichiura. Molecular Ecology, 2000, 9, 1181-1183.	3.9	6
42	The roles of the glycosylphosphatidylinositol anchor on the production and immunogenicity of recombinant ookinete surface antigen Pbs21 of Plasmodium berghei when prepared in a baculovirus expression system. Parasite Immunology, 2000, 22, 493-500.	1.5	12
43	The biosynthesis and post-translational modification of Pbs21 an ookinete-surface protein of Plasmodium berghei. Molecular and Biochemical Parasitology, 1999, 98, 163-173.	1.1	31
44	A beta-tubulin gene from Trichuris trichiura1Nucleotide sequences reported in this paper have been submitted to the Genbankâ„¢ database with the accession numbers AF034219 and AF118385.1. Molecular and Biochemical Parasitology, 1999, 103, 111-116.	1.1	12
45	Cloning and expression of the thrombospondin related adhesive protein gene of Plasmodium berghei1Note: GenBank submission number: U677631. Molecular and Biochemical Parasitology, 1997, 84, 1-12.	1.1	44
46	Induction of anti-malarial transmission blocking immunity with a recombinant ookinete surface antigen of Plasmodium berghei produced in silkworm larvae using the baculovirus expression vector system. Vaccine, 1996, 14, 120-126.	3.8	18
47	Expression of the Plasmodium berghei ookinete protein Pbs21 in a baculovirus-insect cell system produces an efficient transmission blocking immunogen. Parasite Immunology, 1995, 17, 167-176.	1.5	13
48	Studies on the immunogenicity of a recombinant ookinete surface antigen Pbs21 from Plasmodium berghei expressed in Escherichia coli. Parasite Immunology, 1994, 16, 27-34.	1.5	12
49	Structure and expression of a post-transcriptionally regulated malaria gene encoding a surface protein from the sexual stages of Plasmodium berghei. Molecular and Biochemical Parasitology, 1993, 59, 263-275.	1.1	158
50	Investigation of ecdysteroid excretion by adult Dirofilaria immitis and Brugia pahangi. Molecular and Biochemical Parasitology, 1990, 38, 89-95.	1.1	14