

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	Transcriptome and methylome profiling reveals relics of genome dominance in the mesopolyploid <i>Brassica oleracea</i> . <i>Genome Biology</i> , 2014, 15, R77.	9.6	456
2	The pangenome of an agronomically important crop plant <i>Brassica oleracea</i> . <i>Nature Communications</i> , 2016, 7, 13390.	12.8	375
3	The reference genetic linkage map for the multinational <i>Brassica rapa</i> genome sequencing project. <i>Theoretical and Applied Genetics</i> , 2007, 115, 777-792.	3.6	160
4	Structure and expression of a post-transcriptionally regulated malaria gene encoding a surface protein from the sexual stages of <i>Plasmodium berghei</i> . <i>Molecular and Biochemical Parasitology</i> , 1993, 59, 263-275.	1.1	158
5	Mathematical modelling and the control of lymphatic filariasis. <i>Lancet Infectious Diseases</i> , The, 2004, 4, 223-234.	9.1	144
6	Genetic regulation of glucoraphanin accumulation in BenefortÃ© [®] broccoli. <i>New Phytologist</i> , 2013, 198, 1085-1095.	7.3	111
7	Characterization of metabolite quantitative trait loci and metabolic networks that control glucosinolate concentration in the seeds and leaves of <i>Brassica napus</i> . <i>New Phytologist</i> , 2012, 193, 96-108.	7.3	93
8	A domestication history of dynamic adaptation and genomic deterioration in <i>Sorghum</i> . <i>Nature Plants</i> , 2019, 5, 369-379.	9.3	84
9	Novel Insights into Seed Fatty Acid Synthesis and Modification Pathways from Genetic Diversity and Quantitative Trait Loci Analysis of the <i>Brassica C</i> Genome. <i>Plant Physiology</i> , 2007, 144, 1827-1842.	4.8	78
10	The CACTA transposon <i>Bot1</i> played a major role in <i>Brassica</i> genome divergence and gene proliferation. <i>Plant Journal</i> , 2008, 56, 1030-1044.	5.7	75
11	Anti-Plasmodial Polyvalent Interactions in <i>Artemisia annua</i> L. Aqueous Extract â€œ Possible Synergistic and Resistance Mechanisms. <i>PLoS ONE</i> , 2013, 8, e80790.	2.5	70
12	Frequency Modulated Translocational Oscillations of Nrf2 Mediate the Antioxidant Response Element Cytoprotective Transcriptional Response. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 613-629.	5.4	63
13	Comparative Cytotoxicity of Artemisinin and Cisplatin and Their Interactions with Chlorogenic Acids in MCF7 Breast Cancer Cells. <i>ChemMedChem</i> , 2014, 9, 2791-2797.	3.2	58
14	Genome-Wide Linkage and Association Mapping of Halo Blight Resistance in Common Bean to Race 6 of the Globally Important Bacterial Pathogen. <i>Frontiers in Plant Science</i> , 2017, 8, 1170.	3.6	57
15	Cloning and expression of the thrombospondin related adhesive protein gene of <i>Plasmodium berghei</i> 1Note: GenBank submission number: U677631. <i>Molecular and Biochemical Parasitology</i> , 1997, 84, 1-12.	1.1	44
16	A rapid method for the determination of artemisinin and its biosynthetic precursors in <i>Artemisia annua</i> L. crude extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 84, 269-277.	2.8	43
17	<i>Turnip mosaic virus</i> (TuMV) Is Able to Use Alleles of Both <i>eIF4E</i> and <i>eIF(iso)4E</i> from Multiple Loci of the Diploid <i>Brassica rapa</i> . <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 1498-1505.	2.6	42
18	Global food security and the governance of modern biotechnologies. <i>EMBO Reports</i> , 2011, 12, 763-768.	4.5	39

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19	Multiple copies of eukaryotic translation initiation factors in <i>Brassica rapa</i> facilitate redundancy, enabling diversification through variation in splicing and broad-spectrum virus resistance. <i>Plant Journal</i> , 2014, 77, 261-268.	5.7	38
20	A design of experiments (DoE) approach to material properties optimization of electrospun nanofibers. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2251-2257.	2.6	35
21	The biosynthesis and post-translational modification of Pbs21 an ookinete-surface protein of <i>Plasmodium berghei</i> . <i>Molecular and Biochemical Parasitology</i> , 1999, 98, 163-173.	1.1	31
22	Trait to gene analysis reveals that allelic variation in three genes determines seed vigour. <i>New Phytologist</i> , 2016, 212, 964-976.	7.3	29
23	Reappraisal of putative glyoxalase 1-deficient mouse and dicarbonyl stress on embryonic stem cells <i>in vitro</i> . <i>Biochemical Journal</i> , 2016, 473, 4255-4270.	3.7	26
24	Oxidative discolouration in whole-head and cut lettuce: biochemical and environmental influences on a complex phenotype and potential breeding strategies to improve shelf-life. <i>Euphytica</i> , 2017, 213, 180.	1.2	25
25	Identification and QTL mapping of resistance to Turnip yellows virus (TuYV) in oilseed rape, <i>Brassica napus</i> . <i>Theoretical and Applied Genetics</i> , 2020, 133, 383-393.	3.6	19
26	Induction of anti-malarial transmission blocking immunity with a recombinant ookinete surface antigen of <i>Plasmodium berghei</i> produced in silkworm larvae using the baculovirus expression vector system. <i>Vaccine</i> , 1996, 14, 120-126.	3.8	18
27	Towards new sources of resistance to the currant-lettuce aphid (<i>Nasonovia ribisnigri</i>). <i>Molecular Breeding</i> , 2017, 37, 4.	2.1	17
28	Biotransformation of Tropical Lignocellulosic Feedstock Using the Brown rot Fungus <i>Serpula lacrymans</i> . <i>Waste and Biomass Valorization</i> , 2020, 11, 2689-2700.	3.4	16
29	Integrating medicinal plants extraction into a high-value biorefinery: An example of <i>Artemisia annua</i> L.. <i>Comptes Rendus Chimie</i> , 2014, 17, 232-241.	0.5	15
30	Investigation of ecdysteroid excretion by adult <i>Dirofilaria immitis</i> and <i>Brugia pahangi</i> . <i>Molecular and Biochemical Parasitology</i> , 1990, 38, 89-95.	1.1	14
31	The effect of O-methylated flavonoids and other co-metabolites on the crystallization and purification of artemisinin. <i>Journal of Biotechnology</i> , 2014, 171, 25-33.	3.8	14
32	Addressing the threat of climate change to agriculture requires improving crop resilience to short-term abiotic stress. <i>Outlook on Agriculture</i> , 2018, 47, 270-276.	3.4	14
33	Application of ligninolytic bacteria to the enhancement of lignocellulose breakdown and methane production from oil palm empty fruit bunches (OPEFB). <i>Bioresource Technology Reports</i> , 2022, 17, 100951.	2.7	14
34	Expression of the <i>Plasmodium berghei</i> ookinete protein Pbs21 in a baculovirus-insect cell system produces an efficient transmission blocking immunogen. <i>Parasite Immunology</i> , 1995, 17, 167-176.	1.5	13
35	Synthetic Mimicking of Plant Oils and Comparison with Naturally Grown Products in Polyurethane Synthesis. <i>Macromolecular Bioscience</i> , 2008, 8, 526-532.	4.1	13
36	Developing genetic resources for pre-breeding in <i>Brassica oleracea</i> L.: an overview of the UK perspective. <i>Journal of Plant Biotechnology</i> , 2012, 39, 62-68.	0.4	13

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37	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
38	A beta-tubulin gene from Trichuris trichiura1Nucleotide sequences reported in this paper have been submitted to the Genbank database with the accession numbers AF034219 and AF118385.1. Molecular and Biochemical Parasitology, 1999, 103, 111-116.	1.1	12
39	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
40	Extraction of Vanillin Following Bioconversion of Rice Straw and Its Optimization by Response Surface Methodology. Molecules, 2020, 25, 6031.	3.8	11
41	Biodegradation as natural fibre pre-treatment in composite manufacturing. Green Materials, 2016, 4, 8-17.	2.1	9
42	Fatty acid secretion by the white-rot fungus, <i>Trametes versicolor</i> . Journal of Industrial Microbiology and Biotechnology, 2022, 49, .	3.0	9
43	Quantitative Trait Locus Mapping of Resistance to Turnip Yellow 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
44	Biochemical characterization of <i>Serpula lacrymans</i> iron-reductase enzymes in lignocellulose breakdown. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 145-154.	3.0	8
45	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
46	Isolation and characterization of microsatellite loci from the human whipworm <i>Trichuris trichiura</i> . Molecular Ecology, 2000, 9, 1181-1183.	3.9	6
47	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
48	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
49	Development of efficient miniprep transformation methods for <i>Artemisia annua</i> using <i>Agrobacterium tumefaciens</i> and <i>Agrobacterium rhizogenes</i> . In Vitro Cellular and Developmental Biology - Plant, 2014, 50, 590-600.	2.1	4
50	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