

John K Mckay

List of Publications by Year in descending order

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74
papers

9,770
citations

87888

38
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85541

71
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79
times ranked

12719
citing authors

#	ARTICLE	IF	CITATIONS
1	Root Pulling Force Across Drought in Maize Reveals Genotype by Environment Interactions and Candidate Genes. <i>Frontiers in Plant Science</i> , 2022, 13, 883209.	3.6	2
2	Investigating genetic relationship of Brassica juncea with B. nigra via virtual allopolyploidy and hexaploidy strategy. <i>Molecular Breeding</i> , 2021, 41, 1.	2.1	2
3	The population genomics of adaptive loss of function. <i>Heredity</i> , 2021, 126, 383-395.	2.6	33
4	Quantitative trait loci controlling agronomic and biochemical traits in <i>Cannabis sativa</i> . <i>Genetics</i> , 2021, 219, .	2.9	14
5	An integrated framework reinstating the environmental dimension for GWAS and genomic selection in crops. <i>Molecular Plant</i> , 2021, 14, 874-887.	8.3	56
6	The importance of dominance and genotype-by-environment interactions on grain yield variation in a large-scale public cooperative maize experiment. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	52
7	Complementary Phenotyping of Maize Root System Architecture by Root Pulling Force and X-Ray Imaging. <i>Plant Phenomics</i> , 2021, 2021, 9859254.	5.9	13
8	Quantitative trait locus mapping for carbon isotope ratio and root pulling force in <i>Acanola</i> . , 2020, 3, e20095.		4
9	Genotype × Environment Interactions of Industrial Hemp Cultivars Highlight Diverse Responses to Environmental Factors. , 2019, 2, 1-11.		47
10	Drought regimens predict life history strategies in <i>Heliophila</i> . <i>New Phytologist</i> , 2019, 223, 2054-2062.	7.3	22
11	Deployment of Lidar from a Ground Platform: Customizing a Low-Cost, Information-Rich and User-Friendly Application for Field Phenomics Research. <i>Sensors</i> , 2019, 19, 5358.	3.8	5
12	Combining population genomics and fitness QTLs to identify the genetics of local adaptation in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5028-5033.	7.1	53
13	Genetic Costs of Domestication and Improvement. <i>Journal of Heredity</i> , 2018, 109, 103-116.	2.4	149
14	Within-species trade-offs in plants stimulate soil enzyme activity and growth, flowering, and seed size. <i>Ecology and Evolution</i> , 2018, 8, 11717-11724.	1.9	5
15	Drought adaptation in <i>Arabidopsis thaliana</i> by extensive genetic loss-of-function. <i>ELife</i> , 2018, 7, .	6.0	63
16	Field-based high throughput phenotyping rapidly identifies genomic regions controlling yield components in rice. <i>Scientific Reports</i> , 2017, 7, 42839.	3.3	74
17	Screening for Natural Variation in Water Use Efficiency Traits in a Diversity Set of Brassica napus L. Identifies Candidate Variants in Photosynthetic Assimilation. <i>Plant and Cell Physiology</i> , 2017, 58, 1700-1709.	3.1	10
18	Genetic lineages of the invasive <i>Aegilops triuncialis</i> differ in competitive response to neighboring grassland species. <i>Biological Invasions</i> , 2017, 19, 469-478.	2.4	6

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19	Mutation Accumulation in an Asexual Relative of Arabidopsis. <i>PLoS Genetics</i> , 2017, 13, e1006550.	3.5	54
20	TSPmap, a tool making use of traveling salesperson problem solvers in the efficient and accurate construction of high-density genetic linkage maps. <i>BioData Mining</i> , 2017, 10, 38.	4.0	16
21	Adaptation to warmer climates by parallel functional evolution of <i>CBF</i> genes in <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , 2016, 25, 3632-3644.	3.9	50
22	Identification of Polymorphisms Associated with Drought Adaptation QTL in <i>Brassica napus</i> by Resequencing. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 793-803.	1.8	39
23	Genetics of water use physiology in locally adapted <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2016, 251, 12-22.	3.6	26
24	Molecular and systems approaches towards drought-tolerant canola crops. <i>New Phytologist</i> , 2016, 210, 1169-1189.	7.3	70
25	Root traits contributing to drought tolerance of synthetic hexaploid wheat in a greenhouse study. <i>Euphytica</i> , 2016, 207, 213-224.	1.2	64
26	Ecological genetics of range size variation in <i>Boechera</i> spp. (Brassicaceae). <i>Ecology and Evolution</i> , 2015, 5, 4962-4975.	1.9	11
27	QTL analysis of root morphology, flowering time, and yield reveals trade-offs in response to drought in <i>Brassica napus</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 245-256.	4.8	115
28	Does Low Stomatal Conductance or Photosynthetic Capacity Enhance Growth at Elevated CO ₂ in <i>Arabidopsis</i> ?. <i>Plant Physiology</i> , 2015, 167, 793-799.	4.8	16
29	Cell Wall Composition and Bioenergy Potential of Rice Straw Tissues Are Influenced by Environment, Tissue Type, and Genotype. <i>Bioenergy Research</i> , 2015, 8, 1165-1182.	3.9	13
30	Exploiting Differential Gene Expression and Epistasis to Discover Candidate Genes for Drought-Associated QTLs in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2015, 27, 969-983.	6.6	52
31	Genomics and the challenging translation into conservation practice. <i>Trends in Ecology and Evolution</i> , 2015, 30, 78-87.	8.7	469
32	Combining quantitative trait loci analysis with physiological models to predict genotype-specific transpiration rates. <i>Plant, Cell and Environment</i> , 2015, 38, 710-717.	5.7	9
33	Direct and indirect selection on flowering time, water-use efficiency (<i>WUE</i>), <i>Tj</i> ETQq1 1 0.784314 rgBT /Overlock 10 Ecology and Evolution, 2014, 4, 4505-4521.	1.9	107
34	Variation in <i>MPK12</i> affects water use efficiency in <i>Arabidopsis</i> and reveals a pleiotropic link between guard cell size and ABA response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2836-2841.	7.1	91
35	The physiological basis for genetic variation in water use efficiency and carbon isotope composition in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2014, 119, 119-129.	2.9	74
36	Natural Variation in Abiotic Stress Responsive Gene Expression and Local Adaptation to Climate in <i>Arabidopsis thaliana</i> . <i>Molecular Biology and Evolution</i> , 2014, 31, 2283-2296.	8.9	125

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37	Mating system and environmental variation drive patterns of adaptation in <i>Staphylea trifolia</i> (Staphyleaceae). <i>Molecular Ecology</i> , 2014, 23, 4486-4497.	3.9	18
38	Genetic mapping of adaptation reveals fitness tradeoffs in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 21077-21082.	7.1	157
39	Development of a next-generation NIL library in <i>Arabidopsis thaliana</i> for dissecting complex traits. <i>BMC Genomics</i> , 2013, 14, 655.	2.8	22
40	Identification of genomic regions involved in resistance against <i>Sclerotinia sclerotiorum</i> from wild <i>Brassica oleracea</i> . <i>Theoretical and Applied Genetics</i> , 2013, 126, 549-556.	3.6	101
41	Phenotypic diversity of <i>Aegilops cylindrica</i> (jointed goatgrass) accessions from the western United States under irrigated and dryland conditions. <i>Agriculture, Ecosystems and Environment</i> , 2013, 164, 244-251.	5.3	7
42	Brassicaceae germplasm diversity for agronomic and seed quality traits under drought stress. <i>Industrial Crops and Products</i> , 2013, 47, 176-185.	5.2	74
43	Evolutionary ecology along invasion fronts of the annual grass <i>Aegilops triuncialis</i> . <i>Biological Invasions</i> , 2013, 15, 2531-2545.	2.4	19
44	Expression Quantitative Trait Locus Mapping across Water Availability Environments Reveals Contrasting Associations with Genomic Features in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3266-3279.	6.6	73
45	Pleiotropy of <i>FRIGIDA</i> enhances the potential for multivariate adaptation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131043.	2.6	125
46	Physiological Genomics of Response to Soil Drying in Diverse <i>Arabidopsis</i> Accessions. <i>Plant Cell</i> , 2012, 24, 893-914.	6.6	137
47	Harnessing genomics for delineating conservation units. <i>Trends in Ecology and Evolution</i> , 2012, 27, 489-496.	8.7	767
48	Characterizing genomic variation of <i>Arabidopsis thaliana</i> : the roles of geography and climate. <i>Molecular Ecology</i> , 2012, 21, 5512-5529.	3.9	215
49	2b-RAD: a simple and flexible method for genome-wide genotyping. <i>Nature Methods</i> , 2012, 9, 808-810.	19.0	607
50	Backcrossing Provides an Avenue for Gene Introgression from Wheat to Jointed Goatgrass (<i>Aegilops cylindrica</i>) in the U.S. Great Plains. <i>Weed Science</i> , 2011, 59, 188-194.	1.5	3
51	Genetic Variation in Biomass Traits among 20 Diverse Rice Varieties. <i>Plant Physiology</i> , 2011, 155, 157-168.	4.8	96
52	Linkage illuminates a complex genome. <i>Nature Biotechnology</i> , 2011, 29, 717-718.	17.5	4
53	SYNTHESIS: The role of adaptive transgenerational plasticity in biological invasions of plants. <i>Evolutionary Applications</i> , 2010, 3, 179-192.	3.1	107
54	Exploring genetic and expression differences between physiologically extreme ecotypes: comparative genomic hybridization and gene expression studies of Kası and Tsu accessions of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2010, 33, 1268-1284.	5.7	40

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55	Patterns of introduction and adaptation during the invasion of <i>Aegilops triuncialis</i> (Poaceae) into Californian serpentine soils. <i>Molecular Ecology</i> , 2010, 19, 5308-5319.	3.9	40
56	Taxonomic Confusion Permits the Unchecked Invasion of Vernal Pools in California by Low Mannagrass (<i>Glyceria declinata</i>). <i>Invasive Plant Science and Management</i> , 2009, 2, 92-97.	1.1	13
57	Multiple origins promote the ecological amplitude of allopolyploid <i>Aegilops</i> (Poaceae). <i>American Journal of Botany</i> , 2009, 96, 1262-1273.	1.7	81
58	GENETICS OF DROUGHT ADAPTATION IN ARABIDOPSIS THALIANA. QTL ANALYSIS OF A NEW MAPPING POPULATION, KAS-1 Å— TSU-1. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 3014-3026.	2.3	128
59	ECOLOGICAL GENOMICS OF MODEL EUKARYOTES ¹ . <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2953-2957.	2.3	12
60	Genetic variation in <i>Arabidopsis thaliana</i> for night-time leaf conductance. <i>Plant, Cell and Environment</i> , 2008, 31, 1170-1178.	5.7	61
61	HERBIVORES AND EDAPHIC FACTORS CONSTRAIN THE REALIZED NICHE OF A NATIVE PLANT. <i>Ecology</i> , 2008, 89, 754-762.	3.2	48
62	Adaptive versus non-adaptive phenotypic plasticity and the potential for contemporary adaptation in new environments. <i>Functional Ecology</i> , 2007, 21, 394-407.	3.6	2,356
63	EXPERIMENTAL VERIFICATION OF ECOLOGICAL NICHE MODELING IN A HETEROGENEOUS ENVIRONMENT. <i>Ecology</i> , 2006, 87, 2433-2439.	3.2	72
64	Natural genetic variation in whole-genome expression in <i>Arabidopsis thaliana</i> : the impact of physiological QTL introgression. <i>Molecular Ecology</i> , 2006, 15, 1351-1365.	3.9	37
65	Molecular evidence for adaptive radiation of <i>Micromeria Benth.</i> (Lamiaceae) on the Canary Islands as inferred from chloroplast and nuclear DNA sequences and ISSR fingerprint data. <i>Molecular Phylogenetics and Evolution</i> , 2006, 41, 566-578.	2.7	43
66	Molecular Evidence for an Extreme Genetic Bottleneck During Introduction of an Invading Grass to California. <i>Biological Invasions</i> , 2006, 8, 1355-1366.	2.4	64
67	"How Local Is Local?"-A Review of Practical and Conceptual Issues in the Genetics of Restoration. <i>Restoration Ecology</i> , 2005, 13, 432-440.	2.9	626
68	Identification and characterization of QTL underlying whole-plant physiology in <i>Arabidopsis thaliana</i> : delta13C, stomatal conductance and transpiration efficiency. <i>Plant, Cell and Environment</i> , 2005, 28, 697-708.	5.7	162
69	LATITUDINAL VARIATION IN GENETIC DIVERGENCE OF POPULATIONS AND THE POTENTIAL FOR FUTURE SPECIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 938.	2.3	14
70	Genetics of drought adaptation in <i>Arabidopsis thaliana</i> : I. Pleiotropy contributes to genetic correlations among ecological traits. <i>Molecular Ecology</i> , 2003, 12, 1137-1151.	3.9	357
71	PLASTICITY AND GENETIC DIVERSITY MAY ALLOW SALT CEDAR TO INVADE COLD CLIMATES IN NORTH AMERICA. , 2002, 12, 1652-1660.		233
72	Adaptive population divergence: markers, QTL and traits. <i>Trends in Ecology and Evolution</i> , 2002, 17, 285-291.	8.7	674

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73	Genetic population divergence: markers and traits. Trends in Ecology and Evolution, 2002, 17, 501-502.	8.7	23
74	Local adaptation across a climatic gradient despite small effective population size in the rare sapphire rockcress. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1715-1721.	2.6	137