

Joshua S Mylne

List of Publications by Year in descending order

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77
papers

4,860
citations

159525

30
h-index

98753

67
g-index

94
all docs

94
docs citations

94
times ranked

4606
citing authors

#	ARTICLE	IF	CITATIONS
1	Vernalization requires epigenetic silencing of FLC by histone methylation. <i>Nature</i> , 2004, 427, 164-167.	13.7	866
2	Multiple Pathways in the Decision to Flower: Enabling, Promoting, and Resetting. <i>Plant Cell</i> , 2004, 16, S18-S31.	3.1	571
3	Multiple Roles of Arabidopsis VRN1 in Vernalization and Flowering Time Control. <i>Science</i> , 2002, 297, 243-246.	6.0	418
4	LHP1, the Arabidopsis homologue of HETEROCHROMATIN PROTEIN1, is required for epigenetic silencing of FLC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5012-5017.	3.3	270
5	The PHD Finger Protein VRN5 Functions in the Epigenetic Silencing of Arabidopsis FLC. <i>Current Biology</i> , 2007, 17, 73-78.	1.8	251
6	ARABIDOPSIS TRITHORAX1 Dynamically Regulates <i>FLOWERING LOCUS C</i> Activation via Histone 3 Lysine 4 Trimethylation. <i>Plant Cell</i> , 2008, 20, 580-588.	3.1	236
7	Albumins and their processing machinery are hijacked for cyclic peptides in sunflower. <i>Nature Chemical Biology</i> , 2011, 7, 257-259.	3.9	141
8	The alpine violet, <i>Viola biflora</i> , is a rich source of cyclotides with potent cytotoxicity. <i>Phytochemistry</i> , 2008, 69, 939-952.	1.4	131
9	Cyclic Peptides Arising by Evolutionary Parallelism via Asparaginyl-Endopeptidase-Mediated Biosynthesis. <i>Plant Cell</i> , 2012, 24, 2765-2778.	3.1	129
10	Cyclotides Associate with Leaf Vasculature and Are the Products of a Novel Precursor in <i>Petunia</i> (Solanaceae). <i>Journal of Biological Chemistry</i> , 2012, 287, 27033-27046.	1.6	126
11	Cyclotides as a basis for drug design. <i>Expert Opinion on Drug Discovery</i> , 2012, 7, 179-194.	2.5	102
12	Protocol: A simple phenol-based method for 96-well extraction of high quality RNA from Arabidopsis. <i>Plant Methods</i> , 2011, 7, 7.	1.9	94
13	Peptide Macrocyclization by a Bifunctional Endoprotease. <i>Chemistry and Biology</i> , 2015, 22, 571-582.	6.2	86
14	Cyclotides: macrocyclic peptides with applications in drug design and agriculture. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 9-16.	2.4	75
15	Physical clustering of <i>FLC</i> alleles during Polycomb-mediated epigenetic silencing in vernalization. <i>Genes and Development</i> , 2013, 27, 1845-1850.	2.7	74
16	Discovery of Cyclotide-Like Protein Sequences in Graminaceous Crop Plants: Ancestral Precursors of Circular Proteins?. <i>Plant Cell</i> , 2006, 18, 2134-2144.	3.1	70
17	DNA Gyrase Is the Target for the Quinolone Drug Ciprofloxacin in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 3136-3144.	1.6	58
18	The macrocyclizing protease butelase 1 remains autocatalytic and reveals the structural basis for ligase activity. <i>Plant Journal</i> , 2019, 98, 988-999.	2.8	57

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19	Structural basis of ribosomal peptide macrocyclization in plants. <i>ELife</i> , 2018, 7, .	2.8	52
20	Evolutionary Origins of a Bioactive Peptide Buried within Preproalbumin Å. <i>Plant Cell</i> , 2014, 26, 981-995.	3.1	51
21	Cyclotides are a component of the innate defense of <i>Oldenlandia affinis</i> . <i>Biopolymers</i> , 2010, 94, 635-646.	1.2	45
22	An interactive database to explore herbicide physicochemical properties. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5586-5590.	1.5	45
23	Stepwise Evolution of a Buried Inhibitor Peptide over 45 My. <i>Molecular Biology and Evolution</i> , 2017, 34, 1505-1516.	3.5	45
24	Binary Vectors for Sense and Antisense Expression of Arabidopsis ESTs. <i>Plant Molecular Biology Reporter</i> , 1998, 16, 257-262.	1.0	41
25	Circular proteins from <i>Melicytus</i> (Violaceae) refine the conserved protein and gene architecture of cyclotides. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2378.	1.5	40
26	Herbicidal properties of antimalarial drugs. <i>Scientific Reports</i> , 2017, 7, 45871.	1.6	39
27	Cycloquest: Identification of Cyclopeptides via Database Search of Their Mass Spectra against Genome Databases. <i>Journal of Proteome Research</i> , 2011, 10, 4505-4512.	1.8	38
28	Seed storage albumins: biosynthesis, trafficking and structures. <i>Functional Plant Biology</i> , 2014, 41, 671.	1.1	37
29	Macrocyclization by asparaginyl endopeptidases. <i>New Phytologist</i> , 2018, 218, 923-928.	3.5	36
30	The Arabidopsis B3 Domain Protein VERNALIZATION1 (VRN1) Is Involved in Processes Essential for Development, with Structural and Mutational Studies Revealing Its DNA-binding Surface. <i>Journal of Biological Chemistry</i> , 2013, 288, 3198-3207.	1.6	32
31	A family of small, cyclic peptides buried in preproalbumin since the Eocene epoch. <i>Plant Direct</i> , 2018, 2, e00042.	0.8	32
32	Buried treasure: biosynthesis, structures and applications of cyclic peptides hidden in seed storage albumins. <i>Natural Product Reports</i> , 2018, 35, 137-146.	5.2	31
33	Identification of candidates for cyclotide biosynthesis and cyclisation by expressed sequence tag analysis of <i>Oldenlandia affinis</i> . <i>BMC Genomics</i> , 2010, 11, 111.	1.2	30
34	De Novo Peptide Sequencing Reveals Many Cyclopeptides in the Human Gut and Other Environments. <i>Cell Systems</i> , 2020, 10, 99-108.e5.	2.9	28
35	Cosuppression of Eukaryotic Release Factor 1-1 in Arabidopsis Affects Cell Elongation and Radial Cell Division. <i>Plant Physiology</i> , 2005, 139, 115-126.	2.3	26
36	A comparative study of extraction methods reveals preferred solvents for cystine knot peptide isolation from <i>Momordica cochinchinensis</i> seeds. <i>FA-toterap-Å-Åç</i> , 2014, 95, 22-33.	1.1	26

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37	The Evolution of <i>Momordica</i> Cyclic Peptides. <i>Molecular Biology and Evolution</i> , 2015, 32, 392-405.	3.5	26
38	Next generation sequencing and de novo transcriptomics to study gene evolution. <i>Plant Methods</i> , 2014, 10, 34.	1.9	23
39	Developing ciprofloxacin analogues against plant DNA gyrase: a novel herbicide mode of action. <i>Chemical Communications</i> , 2018, 54, 1869-1872.	2.2	20
40	Cyclotide Isolation and Characterization. <i>Methods in Enzymology</i> , 2012, 516, 37-62.	0.4	19
41	Orientation and Location of the Cyclotide Kalata B1 in Lipid Bilayers Revealed by Solid-State NMR. <i>Biophysical Journal</i> , 2017, 112, 630-642.	0.2	19
42	Epigenetic Regulation in the Control of Flowering. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2004, 69, 457-464.	2.0	18
43	Evidence for Ancient Origins of Bowman-Birk Inhibitors from <i>Selaginella moellendorffii</i> . <i>Plant Cell</i> , 2017, 29, 461-473.	3.1	18
44	An Ancient Peptide Family Buried within Vicilin Precursors. <i>ACS Chemical Biology</i> , 2019, 14, 979-993.	1.6	17
45	¹⁵ N cyclotides by whole plant labeling. <i>Biopolymers</i> , 2008, 90, 575-580.	1.2	16
46	Exploiting the Evolutionary Relationship between Malarial Parasites and Plants To Develop New Herbicides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9881-9885.	7.2	16
47	A tripartite approach identifies the major sunflower seed albumins. <i>Theoretical and Applied Genetics</i> , 2016, 129, 613-629.	1.8	14
48	Natural structural diversity within a conserved cyclic peptide scaffold. <i>Amino Acids</i> , 2017, 49, 103-116.	1.2	14
49	An Orbitide from <i>Ratibida columnifera</i> Seed Containing 16 Amino Acid Residues. <i>Journal of Natural Products</i> , 2019, 82, 2152-2158.	1.5	14
50	Mature forms of the major seed storage albumins in sunflower: A mass spectrometric approach. <i>Journal of Proteomics</i> , 2016, 147, 177-186.	1.2	13
51	Diverse cyclic seed peptides in the Mexican zinnia (<i>Zinnia haageana</i>). <i>Biopolymers</i> , 2016, 106, 806-817.	1.2	13
52	Targeting plant <i>DIHYDROFOLATE REDUCTASE</i> with antifolates and mechanisms for genetic resistance. <i>Plant Journal</i> , 2018, 95, 727-742.	2.8	13
53	Improved herbicide discovery using physico-chemical rules refined by antimalarial library screening. <i>RSC Advances</i> , 2021, 11, 8459-8467.	1.7	13
54	Two proteins for the price of one: Structural studies of the dual-destiny protein preproalbumin with sunflower trypsin inhibitor-1. <i>Journal of Biological Chemistry</i> , 2017, 292, 12398-12411.	1.6	12

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55	The genetic origin of evolidine, the first cyclopeptide discovered in plants, and related orbitides. <i>Journal of Biological Chemistry</i> , 2020, 295, 14510-14521.	1.6	11
56	A herbicide structure-activity analysis of the antimalarial lead compound MMV007978 against <i>Arabidopsis thaliana</i> . <i>Pest Management Science</i> , 2018, 74, 1558-1563.	1.7	10
57	Cyclic Peptides in Seed of <i>Annona muricata</i> Are Ribosomally Synthesized. <i>Journal of Natural Products</i> , 2020, 83, 1167-1173.	1.5	9
58	Antibiotic resistance lessons for the herbicide resistance crisis. <i>Pest Management Science</i> , 2021, 77, 3807-3814.	1.7	9
59	Plant asparaginyl endopeptidases and their structural determinants of function. <i>Biochemical Society Transactions</i> , 2021, 49, 965-976.	1.6	9
60	Structural and biochemical analyses of concanavalin A circular permutation by jack bean asparaginyl endopeptidase. <i>Plant Cell</i> , 2021, 33, 2794-2811.	3.1	9
61	A chameleonic macrocyclic peptide with drug delivery applications. <i>Chemical Science</i> , 2021, 12, 6670-6683.	3.7	9
62	Systematic, small-scale screening with <i>Arabidopsis</i> reveals herbicides synergies that extend to lettuce. <i>Pest Management Science</i> , 2021, 77, 4930-4941.	1.7	8
63	OUP accepted manuscript. <i>Briefings in Bioinformatics</i> , 2022, , .	3.2	8
64	NMR assignment and secondary structure of the C-terminal DNA binding domain of <i>Arabidopsis thaliana</i> VERNALIZATION1. <i>Biomolecular NMR Assignments</i> , 2012, 6, 5-8.	0.4	7
65	Total Synthesis of the Antimalarial Ascidian Natural Product Albopunctatone. <i>Organic Letters</i> , 2019, 21, 5519-5523.	2.4	7
66	Defining the Familial Fold of the Vicilin-Buried Peptide Family. <i>Journal of Natural Products</i> , 2020, 83, 3030-3040.	1.5	6
67	Sequencing Orbitides by Acid-Mediated Ring Cleavage Followed by Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2019, 18, 4065-4071.	1.8	5
68	Inhibition of chloroplast translation as a new target for herbicides. <i>RSC Chemical Biology</i> , 2022, 3, 37-43.	2.0	4
69	Florigen takes two to tango. <i>Nature Chemical Biology</i> , 2011, 7, 665-666.	3.9	3
70	Crystal structure of <i>Arabidopsis thaliana</i> HPPK/DHPS, a bifunctional enzyme and target of the herbicide asulam. <i>Plant Communications</i> , 2022, 3, 100322.	3.6	3
71	Expression, purification and preliminary X-ray diffraction studies of VERNALIZATION1 from <i>Arabidopsis thaliana</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 291-294.	0.7	2
72	Rapid isolation of high-quality RNA from symbiotic dinoflagellates. <i>Phycologia</i> , 1998, 37, 307-309.	0.6	1

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73	Exploiting the Evolutionary Relationship between Malarial Parasites and Plants To Develop New Herbicides. <i>Angewandte Chemie</i> , 2017, 129, 10013-10017.	1.6	1
74	Solution NMR and racemic crystallography provide insights into a novel structural class of cyclic plant peptides. <i>RSC Chemical Biology</i> , 2021, 2, 1682-1691.	2.0	1
75	Herbicidal activity of fluoroquinolone derivatives. <i>Plant Direct</i> , 2021, 5, e348.	0.8	1
76	An interstitial peptide is readily processed from within seed proteins. <i>Plant Science</i> , 2019, 285, 175-183.	1.7	0
77	Structural Characterization of the PawL-Derived Peptide Family, an Ancient Subfamily of Orbitides. <i>Journal of Natural Products</i> , 2021, 84, 2914-2922.	1.5	0