

Edward Gilding

List of Publications by Year in descending order

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43
papers

1,965
citations

304743

22
h-index

254184

43
g-index

46
all docs

46
docs citations

46
times ranked

2713
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-genome sequencing reveals untapped genetic potential in Africa's indigenous cereal crop sorghum. <i>Nature Communications</i> , 2013, 4, 2320.	12.8	405
2	Efficient backbone cyclization of linear peptides by a recombinant asparaginyl endopeptidase. <i>Nature Communications</i> , 2015, 6, 10199.	12.8	186
3	Transcriptome Analysis of Arabidopsis Wild-Type and <i>gl3</i> Trichomes Identifies Four Additional Genes Required for Trichome Development. <i>Molecular Plant</i> , 2009, 2, 803-822.	8.3	146
4	Molecular basis for the production of cyclic peptides by plant asparaginyl endopeptidases. <i>Nature Communications</i> , 2018, 9, 2411.	12.8	99
5	Butterfly Pea (<i>Clitoria ternatea</i>), a Cyclotide-Bearing Plant With Applications in Agriculture and Medicine. <i>Frontiers in Plant Science</i> , 2019, 10, 645.	3.6	88
6	A new method for isolating large quantities of Arabidopsis trichomes for transcriptome, cell wall and other types of analyses. <i>Plant Journal</i> , 2008, 56, 483-492.	5.7	72
7	Overexpression of the maize <i>Teosinte Branched1</i> gene in wheat suppresses tiller development. <i>Plant Cell Reports</i> , 2008, 27, 1217-1225.	5.6	61
8	A bifunctional asparaginyl endopeptidase efficiently catalyzes both cleavage and cyclization of cyclic trypsin inhibitors. <i>Nature Communications</i> , 2020, 11, 1575.	12.8	61
9	Gene coevolution and regulation lock cyclic plant defence peptides to their targets. <i>New Phytologist</i> , 2016, 210, 717-730.	7.3	58
10	Analysis of purified <i>glabra3</i> -shapeshifter trichomes reveals a role for NOECK in regulating early trichome morphogenic events. <i>Plant Journal</i> , 2010, 64, 304-317.	5.7	56
11	Co-expression of a cyclizing asparaginyl endopeptidase enables efficient production of cyclic peptides in planta. <i>Journal of Experimental Botany</i> , 2018, 69, 633-641.	4.8	53
12	The plasticity of NBS resistance genes in sorghum is driven by multiple evolutionary processes. <i>BMC Plant Biology</i> , 2014, 14, 253.	3.6	49
13	A suite of kinetically superior AEP ligases can cyclise an intrinsically disordered protein. <i>Scientific Reports</i> , 2019, 9, 10820.	3.3	47
14	Proposed Systematic Nomenclature for Orbitides. <i>Journal of Natural Products</i> , 2015, 78, 645-652.	3.0	44
15	Papain-like cysteine proteases prepare plant cyclic peptide precursors for cyclization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7831-7836.	7.1	44
16	Allelic variation at a single gene increases food value in a drought-tolerant staple cereal. <i>Nature Communications</i> , 2013, 4, 1483.	12.8	41
17	Grain Sorghum Proteomics: Integrated Approach toward Characterization of Endosperm Storage Proteins in Kafirin Allelic Variants. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9819-9831.	5.2	40
18	Domestication and the storage starch biosynthesis pathway: signatures of selection from a whole sorghum genome sequencing strategy. <i>Plant Biotechnology Journal</i> , 2016, 14, 2240-2253.	8.3	38

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19	Total transcriptome, proteome, and allergome of Johnson grass pollen, which is important for allergic rhinitis in subtropical regions. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 133-142.	2.9	36
20	A robust tissue culture system for sorghum [<i>Sorghum bicolor</i> (L.) Moench]. <i>South African Journal of Botany</i> , 2015, 98, 157-160.	2.5	32
21	Assembly and annotation of a non-model gastropod (<i>Nerita melanotragus</i>) transcriptome: a comparison of De novo assemblers. <i>BMC Research Notes</i> , 2014, 7, 488.	1.4	27
22	Impacts of Kafirin Allelic Diversity, Starch Content, and Protein Digestibility on Ethanol Conversion Efficiency in Grain Sorghum. <i>Cereal Chemistry</i> , 2014, 91, 218-227.	2.2	24
23	Rapid and Scalable Plant-Based Production of a Potent Plasmin Inhibitor Peptide. <i>Frontiers in Plant Science</i> , 2019, 10, 602.	3.6	24
24	Tracking seasonal changes in diversity of pollen allergen exposure: Targeted metabarcoding of a subtropical aerobiome. <i>Science of the Total Environment</i> , 2020, 747, 141189.	8.0	23
25	Discovery and mechanistic studies of cytotoxic cyclotides from the medicinal herb <i>Hybanthus enneaspermus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 10911-10925.	3.4	22
26	Increasing protein content and digestibility in sorghum grain with a synthetic biology approach. <i>Journal of Cereal Science</i> , 2019, 85, 27-34.	3.7	19
27	Make it or break it: Plant AEPs on stage in biotechnology. <i>Biotechnology Advances</i> , 2020, 45, 107651.	11.7	19
28	Lack of Low Frequency Variants Masks Patterns of Non-Neutral Evolution following Domestication. <i>PLoS ONE</i> , 2011, 6, e23041.	2.5	17
29	Neurotoxic peptides from the venom of the giant Australian stinging tree. <i>Science Advances</i> , 2020, 6, .	10.3	16
30	Insecticidal diversity of butterfly pea (<i>Clitoria ternatea</i>) accessions. <i>Industrial Crops and Products</i> , 2020, 147, 112214.	5.2	15
31	Bioactive Cyclization Optimizes the Affinity of a Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Peptide Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2523-2533.	6.4	14
32	Genetic interaction between <i>glabra3</i> shapeshifter and <i>siamese</i> in <i>Arabidopsis thaliana</i> converts trichome precursors into cells with meristematic activity. <i>Plant Journal</i> , 2007, 52, 352-361.	5.7	13
33	The Rapid Regenerative Response of a Model Sea Anemone Species <i>Exaiptasia pallida</i> Is Characterised by Tissue Plasticity and Highly Coordinated Cell Communication. <i>Marine Biotechnology</i> , 2020, 22, 285-307.	2.4	12
34	Additive effects of three auxins and copper on sorghum in vitro root induction. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 191-197.	2.1	9
35	The Role of Pullulanase in Starch Biosynthesis, Structure, and Thermal Properties by Studying Sorghum with Increased Pullulanase Activity. <i>Starch/Staerke</i> , 2019, 71, 1900072.	2.1	9
36	Circular Permutation of the Native Enzyme-Mediated Cyclization Position in Cyclotides. <i>ACS Chemical Biology</i> , 2020, 15, 962-969.	3.4	7

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37	In Planta Discovery and Chemical Synthesis of Bracelet Cystine Knot Peptides from <i>Rinorea bengalensis</i> . <i>Journal of Natural Products</i> , 2021, 84, 395-407.	3.0	7
38	The functionality of $\hat{\pm}$ -kafirin promoter and $\hat{\pm}$ -kafirin signal peptide. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 133-143.	2.3	6
39	Production of a structurally validated cyclotide in rice suspension cells is enabled by a supporting biosynthetic enzyme. <i>Planta</i> , 2020, 252, 97.	3.2	6
40	Rational domestication of a plant-based recombinant expression system expands its biosynthetic range. <i>Journal of Experimental Botany</i> , 2022, 73, 6103-6114.	4.8	5
41	Neurotoxic and cytotoxic peptides underlie the painful stings of the tree nettle <i>Urtica ferox</i> . <i>Journal of Biological Chemistry</i> , 2022, 298, 102218.	3.4	5
42	Cyclotides in a Biotechnological Context. <i>Advances in Botanical Research</i> , 2015, , 305-333.	1.1	4
43	Comparative analysis of cyclotide-producing plant cell suspensions presents opportunities for cyclotide plant molecular farming. <i>Phytochemistry</i> , 2022, 195, 113053.	2.9	4