Matthew R Tucker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

2,379 28 47 g-index

80 3,119 6.3 5.16 ext. papers ext. citations avg, IF L-index

#	Paper Paper	IF	Citations
77	Systematic identification and expression profiles of the BAHD superfamily acyltransferases in barley (Hordeum vulgare) <i>Scientific Reports</i> , 2022 , 12, 5063	4.9	1
76	Manipulation of Barley Development and Flowering Time by Exogenous Application of Plant Growth Regulators <i>Frontiers in Plant Science</i> , 2021 , 12, 694424	6.2	4
75	APETALA2 functions as a temporal factor together with BLADE-ON-PETIOLE2 and MADS29 to control flower and grain development in barley. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	6
74	MADS1 maintains barley spike morphology at high ambient temperatures. <i>Nature Plants</i> , 2021 , 7, 1093-	-1/1 1/0 /3	7
73	Rab-dependent vesicular traffic affects female gametophyte development in Arabidopsis. <i>Journal of Experimental Botany</i> , 2021 , 72, 320-340	7	2
72	Three-dimensional imaging reveals that positions of cyst nematode feeding sites relative to xylem vessels differ between susceptible and resistant wheat. <i>Plant Cell Reports</i> , 2021 , 40, 393-403	5.1	2
71	The Rab Geranylgeranyl Transferase Beta Subunit Is Essential for Embryo and Seed Development in. International Journal of Molecular Sciences, 2021 , 22,	6.3	1
70	HvLEAFY controls the early stages of floral organ specification and inhibits the formation of multiple ovaries in barley. <i>Plant Journal</i> , 2021 , 108, 509-527	6.9	2
69	Establishing a regulatory blueprint for ovule number and function during plant development. <i>Current Opinion in Plant Biology</i> , 2021 , 63, 102095	9.9	0
68	Genome-wide association study reveals the genetic complexity of fructan accumulation patterns in barley grain. <i>Journal of Experimental Botany</i> , 2021 , 72, 2383-2402	7	5
67	The RNA-dependent DNA methylation pathway is required to restrict expression to specify a single female germ cell precursor in. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	13
66	Infection by cyst nematodes induces rapid remodelling of developing xylem vessels in wheat roots. <i>Scientific Reports</i> , 2020 , 10, 9025	4.9	2
65	Hybrid breeding in wheat: how shaping floral biology can offer new perspectives. <i>Functional Plant Biology</i> , 2020 , 47, 675-694	2.7	6
64	Misexpression of a transcriptional repressor candidate provides a molecular mechanism for the suppression of awns by Tipped 1 in wheat. <i>Journal of Experimental Botany</i> , 2020 , 71, 3428-3436	7	4
63	Deciphering aquaporin regulation and roles in seed biology. <i>Journal of Experimental Botany</i> , 2020 , 71, 1763-1773	7	9
62	Auxin treatment of grapevine (Vitis vinifera L.) berries delays ripening onset by inhibiting cell expansion. <i>Plant Molecular Biology</i> , 2020 , 103, 91-111	4.6	6
61	Refining the genetic architecture of flag leaf glaucousness in wheat. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 981-991	6	6

(2018-2020)

60	Targeted mutation of barley (1,3;1,4)-Eglucan synthases reveals complex relationships between the storage and cell wall polysaccharide content. <i>Plant Journal</i> , 2020 , 104, 1009-1022	6.9	11
59	Genetic Architecture of Cereal Leaf Beetle Resistance in Wheat. <i>Plants</i> , 2020 , 9,	4.5	1
58	Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. <i>Journal of Experimental Botany</i> , 2020 , 71, 138-153	7	10
57	Dose-Dependent AGO1-Mediated Inhibition of the miRNA165/166 Pathway Modulates Stem Cell Maintenance in Shoot Apical Meristem. <i>Plant Communications</i> , 2020 , 1, 100002	9	8
56	Establishing a framework for female germline initiation in the plant ovule. <i>Journal of Experimental Botany</i> , 2019 , 70, 2937-2949	7	16
55	Ostkpr1 functions in anther cuticle development and pollen wall formation in rice. <i>BMC Plant Biology</i> , 2019 , 19, 104	5.3	23
54	Revisiting the Female Germline and Its Expanding Toolbox. <i>Trends in Plant Science</i> , 2019 , 24, 455-467	13.1	22
53	Barley grain (1,3;1,4)-Eglucan content: effects of transcript and sequence variation in genes encoding the corresponding synthase and endohydrolase enzymes. <i>Scientific Reports</i> , 2019 , 9, 17250	4.9	8
52	Natural Variation in Ovule Morphology Is Influenced by Multiple Tissues and Impacts Downstream Grain Development in Barley (L.). <i>Frontiers in Plant Science</i> , 2019 , 10, 1374	6.2	6
51	Translating auxin responses into ovules, seeds and yield: Insight from Arabidopsis and the cereals. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 310-336	8.3	26
50	A three-component system incorporating Ppd-D1, copy number variation at Ppd-B1, and numerous small-effect quantitative trait loci facilitates adaptation of heading time in winter wheat cultivars of worldwide origin. <i>Plant, Cell and Environment</i> , 2018 , 41, 1407-1416	8.4	30
49	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea (Cicer arietinum L.) cotyledons. <i>Plant, Cell and Environment</i> , 2018 , 41, 2195-2208	8.4	18
48	Dissecting the role of MADS-box genes in monocot floral development and diversity. <i>Journal of Experimental Botany</i> , 2018 , 69, 2435-2459	7	56
47	The Central Role of the Ovule in Apomixis and Parthenocarpy 2018 , 234-270		1
46	Differences in hydrolytic enzyme activity accompany natural variation in mature aleurone morphology in barley (Hordeum vulgare L.). <i>Scientific Reports</i> , 2018 , 8, 11025	4.9	17
45	Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. <i>Plants</i> , 2018 , 7,	4.5	31
44	Asexual Female Gametogenesis Involves Contact with a Sexually-Fated Megaspore in Apomictic. <i>Plant Physiology</i> , 2018 , 177, 1027-1049	6.6	20
43	Phenotypic and genetic analysis of spike and kernel characteristics in wheat reveals long-term genetic trends of grain yield components. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 2071-2084	6	72

42	Exploring the Role of the Ovule in Cereal Grain Development and Reproductive Stress Tolerance 2018 , 181-216		6
41	Potential for Marker-Assisted Simultaneous Improvement of Grain and Biomass Yield in Triticale. <i>Bioenergy Research</i> , 2017 , 10, 449-455	3.1	11
40	A modern Green Revolution gene for reduced height in wheat. <i>Plant Journal</i> , 2017 , 92, 892-903	6.9	80
39	An optimised clearing protocol for the quantitative assessment of sub-epidermal ovule tissues within whole cereal pistils. <i>Plant Methods</i> , 2017 , 13, 67	5.8	13
38	A Genetic Screen for Impaired Systemic RNAi Highlights the Crucial Role of DICER-LIKE 2. <i>Plant Physiology</i> , 2017 , 175, 1424-1437	6.6	41
37	Isolation and structural elucidation by 2D NMR of planteose, a major oligosaccharide in the mucilage of chia (Salvia hispanica L.) seeds. <i>Carbohydrate Polymers</i> , 2017 , 175, 231-240	10.3	21
36	Copy number variations of CBF genes at the Fr-A2 locus are essential components of winter hardiness in wheat. <i>Plant Journal</i> , 2017 , 89, 764-773	6.9	44
35	The transition from somatic to germline identity shows conserved and specialized features during angiosperm evolution. <i>New Phytologist</i> , 2017 , 216, 495-509	9.8	30
34	Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Using Gamma Irradiation and Infrared Spectroscopy. <i>Frontiers in Plant Science</i> , 2017 , 8, 326	6.2	13
33	Multiple-line cross QTL mapping for grain yield and thousand kernel weight in triticale. <i>Plant Breeding</i> , 2016 , 135, 567-573	2.4	12
32	The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. <i>Plant Physiology</i> , 2016 , 170, 1549-65	6.6	23
31	The Plant Cell Wall: A Complex and Dynamic Structure As Revealed by the Responses of Genes under Stress Conditions. <i>Frontiers in Plant Science</i> , 2016 , 7, 984	6.2	175
30	Differences in glycosyltransferase family 61 accompany variation in seed coat mucilage composition in Plantago spp. <i>Journal of Experimental Botany</i> , 2016 , 67, 6481-6495	7	24
29	A Rice Ca2+ Binding Protein Is Required for Tapetum Function and Pollen Formation. <i>Plant Physiology</i> , 2016 , 172, 1772-1786	6.6	40
28	Ethylene inhibitors improve efficiency of microspore embryogenesis in hexaploid triticale. <i>Plant Cell, Tissue and Organ Culture</i> , 2015 , 122, 751-757	2.7	18
27	The dynamics of cereal cyst nematode infection differ between susceptible and resistant barley cultivars and lead to changes in (1,3;1,4)-Eglucan levels and HvCslF gene transcript abundance. New Phytologist, 2015, 207, 135-147	9.8	31
26	Stress treatments influence efficiency of microspore embryogenesis and green plant regeneration in hexaploid triticale (ITriticosecale Wittmack L.). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2014 , 50, 143-148	2.3	7
25	Mapping dynamic QTL for plant height in triticale. <i>BMC Genetics</i> , 2014 , 15, 59	2.6	47

(2008-2014)

24	Genetic architecture of winter hardiness and frost tolerance in triticale. PLoS ONE, 2014, 9, e99848	3.7	15
23	Adult plant development in triticale (Itriticosecale wittmack) is controlled by dynamic genetic patterns of regulation. <i>G3: Genes, Genomes, Genetics</i> , 2014 , 4, 1585-91	3.2	14
22	Traffic monitors at the cell periphery: the role of cell walls during early female reproductive cell differentiation in plants. <i>Current Opinion in Plant Biology</i> , 2014 , 17, 137-45	9.9	34
21	A protodermal miR394 signal defines a region of stem cell competence in the Arabidopsis shoot meristem. <i>Developmental Cell</i> , 2013 , 24, 125-32	10.2	167
20	Optimum design of family structure and allocation of resources in association mapping with lines from multiple crosses. <i>Heredity</i> , 2013 , 110, 71-9	3.6	32
19	Enlarging cells initiating apomixis in Hieracium praealtum transition to an embryo sac program prior to entering mitosis. <i>Plant Physiology</i> , 2013 , 163, 216-31	6.6	51
18	Accession-specific modifiers act with ZWILLE/ARGONAUTE10 to maintain shoot meristem stem cells during embryogenesis in Arabidopsis. <i>BMC Genomics</i> , 2013 , 14, 809	4.5	8
17	Grain development in Brachypodium and other grasses: possible interactions between cell expansion, starch deposition, and cell-wall synthesis. <i>Journal of Experimental Botany</i> , 2013 , 64, 5033-47	7	40
16	Somatic small RNA pathways promote the mitotic events of megagametogenesis during female reproductive development in Arabidopsis. <i>Development (Cambridge)</i> , 2012 , 139, 1399-404	6.6	112
15	Genome-wide evaluation of genetic diversity and linkage disequilibrium in winter and spring triticale (x Triticosecale Wittmack). <i>BMC Genomics</i> , 2012 , 13, 235	4.5	26
14	Improved efficiency of doubled haploid generation in hexaploid triticale by in vitro chromosome doubling. <i>BMC Plant Biology</i> , 2012 , 12, 109	5.3	39
13	Sporophytic ovule tissues modulate the initiation and progression of apomixis in Hieracium. <i>Journal of Experimental Botany</i> , 2012 , 63, 3229-41	7	34
12	Reduced expression of the SHORT-ROOT gene increases the rates of growth and development in hybrid poplar and Arabidopsis. <i>PLoS ONE</i> , 2011 , 6, e28878	3.7	20
11	Redundant and specific roles of the ARGONAUTE proteins AGO1 and ZLL in development and small RNA-directed gene silencing. <i>PLoS Genetics</i> , 2009 , 5, e1000646	6	95
10	Sexual and asexual (apomictic) seed development in flowering plants: molecular, morphological and evolutionary relationships. <i>Functional Plant Biology</i> , 2009 , 36, 490-504	2.7	50
9	Vascular signalling mediated by ZWILLE potentiates WUSCHEL function during shoot meristem stem cell development in the Arabidopsis embryo. <i>Development (Cambridge)</i> , 2008 , 135, 2839-43	6.6	100
8	Sexual and apomictic seed formation in Hieracium requires the plant polycomb-group gene FERTILIZATION INDEPENDENT ENDOSPERM. <i>Plant Cell</i> , 2008 , 20, 2372-86	11.6	50
7	Functional embryo sac formation in Arabidopsis without meiosis - one step towards asexual seed formation (apomixis) in crops?. <i>Journal of Biosciences</i> , 2008 , 33, 309-11	2.3	5

6	Connecting the paths in plant stem cell regulation. <i>Trends in Cell Biology</i> , 2007 , 17, 403-10	18.3	79
5	Sexual and apomictic reproduction in Hieracium subgenus pilosella are closely interrelated developmental pathways. <i>Plant Cell</i> , 2003 , 15, 1524-37	11.6	114
4	Advances in Apomixis Research: Can we Fix Heterosis? 2003 , 38-46		1
3	Dynamics of callose deposition and beta-1,3-glucanase expression during reproductive events in sexual and apomictic Hieracium. <i>Planta</i> , 2001 , 212, 487-98	4.7	53
2	Control of early seed development. Annual Review of Cell and Developmental Biology, 2001, 17, 677-99	12.6	151