Steven Gg Maere

List of Publications by Year
in descending order

50 papers	14,275 citations	109137 35 h-index	223531 46 g-index
55 all docs	55 docs citations	55 times ranked	23436 citing authors

#	Article	IF	Citations
1	<i>ksrates</i>: positioning whole-genome duplications relative to speciation events in <i>K</i>S distributions. Bioinformatics, 2022, 38, 530-532.	1.8	19
2	Spatial Regression Models for Field Trials: A Comparative Study and New Ideas. Frontiers in Plant Science, 2022, 13, 858711.	1.7	5
3	Proximal Hyperspectral Imaging Detects Diurnal and Drought-Induced Changes in Maize Physiology. Frontiers in Plant Science, 2021, 12, 640914.	1.7	25
4	Drought affects the rate and duration of organ growth but not inter-organ growth coordination. Plant Physiology, 2021, 186, 1336-1353.	2.3	18
5	Vascular transcription factors guide plant epidermal responses to limiting phosphate conditions. Science, 2020, 370, .	6.0	173
6	Using singleâ€plantâ€omics in the field to link maize genes to functions and phenotypes. Molecular Systems Biology, 2020, 16, e9667.	3.2	22
7	Endoreplication as a potential driver of cell wall modifications. Current Opinion in Plant Biology, 2019, 51, 58-65.	3.5	34
8	Interspecific hybridization facilitates niche adaptation in beer yeast. Nature Ecology and Evolution, 2019, 3, 1562-1575.	3.4	83
9	The Apicomplexa-specific glucosamine-6-phosphate N-acetyltransferase gene family encodes a key enzyme for glycoconjugate synthesis with potential as therapeutic target. Scientific Reports, 2018, 8, 4005.	1.6	14
10	The reduction in maize leaf growth under mild drought affects the transition between cell division and cell expansion and cannot be restored by elevated gibberellic acid levels. Plant Biotechnology Journal, 2018, 16, 615-627.	4.1	73
11	Origins, evolution, domestication and diversity of Saccharomyces beer yeasts. Current Opinion in Biotechnology, 2018, 49, 148-155.	3.3	104
12	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. Nature Plants, 2018, 4, 460-472.	4.7	391
13	A Spatiotemporal DNA Endoploidy Map of the Arabidopsis Root Reveals Roles for the Endocycle in Root Development and Stress Adaptation. Plant Cell, 2018, 30, 2330-2351.	3.1	107
14	The Origin of Floral Organ Identity Quartets. Plant Cell, 2017, 29, 229-242.	3.1	44
15	Evolutionary Context Improves Regulatory Network Predictions. Cell Systems, 2017, 4, 478-479.	2.9	0
16	Reciprocally Retained Genes in the Angiosperm Lineage Show the Hallmarks of Dosage Balance Sensitivity. Plant Cell, 2017, 29, 2766-2785.	3.1	81
17	Domestication and Divergence of Saccharomyces cerevisiae Beer Yeasts. Cell, 2016, 166, 1397-1410.e16.	13.5	580
18	Leaf Growth Response to Mild Drought: Natural Variation in Arabidopsis Sheds Light on Trait Architecture. Plant Cell, 2016, 28, 2417-2434.	3.1	83

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19	Combined Large-Scale Phenotyping and Transcriptomics in Maize Reveals a Robust Growth Regulatory Network. Plant Physiology, 2016, 170, 1848-1867.	2.3	49
20	Gene Duplicability of Core Genes Is Highly Consistent across All Angiosperms. Plant Cell, 2016, 28, 326-344.	3.1	202
21	A coherent transcriptional feed-forward motif model for mediating auxin-sensitive PIN3 expression during lateral root development. Nature Communications, 2015, 6, 8821.	5.8	70
22	Correlation analysis of the transcriptome of growing leaves with mature leaf parameters in a maize RIL population. Genome Biology, 2015, 16, 168.	3.8	52
23	A conserved core of PCD indicator genes discriminates developmentally and environmentally induced programmed cell death in plants. Plant Physiology, 2015, 169, pp.00769.2015.	2.3	141
24	Tangled up in two: a burst of genome duplications at the end of the Cretaceous and the consequences for plant evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130353.	1.8	141
25	Interview with Steven Maere. Trends in Plant Science, 2014, 19, 276-277.	4.3	0
26	The TPLATE Adaptor Complex Drives Clathrin-Mediated Endocytosis in Plants. Cell, 2014, 156, 691-704.	13.5	238
27	Analysis of 41 plant genomes supports a wave of successful genome duplications in association with the Cretaceousâ€“Paleogene boundary. Genome Research, 2014, 24, 1334-1347.	2.4	381
28	Modeling the evolution of molecular systems from a mechanistic perspective. Trends in Plant Science, 2014, 19, 292-303.	4.3	13
29	Convergent gene loss following gene and genome duplications creates single-copy families in flowering plants. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2898-2903.	3.3	351
30	Significance and Biological Consequences of Polyploidization in Land Plant Evolution. , 2013, , 277-293.		34
31	Predicting Gene Function from Uncontrolled Expression Variation among Individual Wild-Type <i>Arabidopsis</i> Plants. Plant Cell, 2013, 25, 2865-2877.	3.1	50
32	Inference of Genome Duplications from Age Distributions Revisited. Molecular Biology and Evolution, 2013, 30, 177-190.	3.5	145
33	Reconstruction of Ancestral Metabolic Enzymes Reveals Molecular Mechanisms Underlying Evolutionary Innovation through Gene Duplication. PLoS Biology, 2012, 10, e1001446.	2.6	170
34	Expansive Evolution of the TREHALOSE-6-PHOSPHATE PHOSPHATASE Gene Family in Arabidopsis Â. Plant Physiology, 2012, 160, 884-896.	2.3	120
35	Gamma Paleohexaploidy in the Stem Lineage of Core Eudicots: Significance for MADS-Box Gene and Species Diversification. Molecular Biology and Evolution, 2012, 29, 3793-3806.	3.5	127
36	PiNGO: a Cytoscape plugin to find candidate genes in biological networks. Bioinformatics, 2011, 27, 1030-1031.	1.8	41

#	ARTICLE	IF	CITATIONS
37	2R or not 2R is not the question anymore. Nature Reviews Genetics, 2010, 11, 166-166.	7.7	53
38	Targeted interactomics reveals a complex core cell cycle machinery in <i>Arabidopsis thaliana</i>. Molecular Systems Biology, 2010, 6, 397.	3.2	315
39	Open-ended on-board Evolutionary Robotics for robot swarms. , 2009, , .		10
40	The evolutionary significance of ancient genome duplications. Nature Reviews Genetics, 2009, 10, 725-732.	7.7	919
41	Plants with double genomes might have had a better chance to survive the Cretaceousâ€“Tertiary extinction event. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5737-5742.	3.3	552
42	Extracting expression modules from perturbational gene expression compendia. BMC Systems Biology, 2008, 2, 33.	3.0	16
43	The Arabidopsis thaliana Homolog of Yeast BRE1 Has a Function in Cell Cycle Regulation during Early Leaf and Root Growth. Plant Cell, 2007, 19, 417-432.	3.1	168
44	Integration of biological networks and gene expression data using Cytoscape. Nature Protocols, 2007, 2, 2366-2382.	5.5	2,275
45	Validating module network learning algorithms using simulated data. BMC Bioinformatics, 2007, 8, S5.	1.2	34
46	The gain and loss of genes during 600 million years of vertebrate evolution. Genome Biology, 2006, 7, R43.	13.9	332
47	Nonrandom divergence of gene expression following gene and genome duplications in the flowering plant Arabidopsis thaliana. Genome Biology, 2006, 7, R13.	13.9	163
48	Modeling gene and genome duplications in eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5454-5459.	3.3	850
49	BiNGO: a Cytoscape plugin to assess overrepresentation of Gene Ontology categories in Biological Networks. Bioinformatics, 2005, 21, 3448-3449.	1.8	3,901
50	Genome duplication and the origin of angiosperms. Trends in Ecology and Evolution, 2005, 20, 591-597.	4.2	483