

# Maurice Bosch

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,583  
citations

293460

24  
h-index

223390

49  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-incompatibility requires GPI anchor remodeling by the poppy PGAP1 ortholog HLD1. <i>Current Biology</i> , 2022, 32, 1909-1923.e5.	1.8	12
2	Unveiling the compositional remodelling of <i>Arbutus unedo</i> L. fruits during ripening. <i>Scientia Horticulturae</i> , 2022, 303, 111248.	1.7	2
3	ATP depletion plays a pivotal role in self-incompatibility, revealing a link between cellular energy status, cytosolic acidification and actin remodelling in pollen tubes. <i>New Phytologist</i> , 2022, 236, 1691-1707.	3.5	7
4	Production of oligosaccharides and biofuels from <i>Miscanthus</i> using combinatorial steam explosion and ionic liquid pretreatment. <i>Bioresource Technology</i> , 2021, 323, 124625.	4.8	49
5	A Comparison of Differential Gene Expression in Response to the Onset of Water Stress Between Three Hybrid <i>Brachiaria</i> Genotypes. <i>Frontiers in Plant Science</i> , 2021, 12, 637956.	1.7	9
6	Mechanical stimulation in wheat triggers age- and dose-dependent alterations in growth, development and grain characteristics. <i>Annals of Botany</i> , 2021, 128, 589-603.	1.4	3
7	Plant biology: Stigmatic ROS decide whether pollen is Accepted or rejected. <i>Current Biology</i> , 2021, 31, R904-R906.	1.8	4
8	Biorefining Potential of Wild-Grown <i>Arundo donax</i> , <i>Cortaderia selloana</i> and <i>Phragmites australis</i> and the Feasibility of White-Rot Fungi-Mediated Pretreatments. <i>Frontiers in Plant Science</i> , 2021, 12, 679966.	1.7	11
9	Pilot-scale production of xylo-oligosaccharides and fermentable sugars from <i>Miscanthus</i> using steam explosion pretreatment. <i>Bioresource Technology</i> , 2020, 296, 122285.	4.8	64
10	Self-Incompatibility Triggers Irreversible Oxidative Modification of Proteins in Incompatible Pollen. <i>Plant Physiology</i> , 2020, 183, 1391-1404.	2.3	13
11	Pollen-stigma interactions in Brassicaceae: complex communication events regulating pollen hydration. <i>Journal of Experimental Botany</i> , 2020, 71, 2465-2468.	2.4	6
12	Ectopic Expression of a Self-Incompatibility Module Triggers Growth Arrest and Cell Death in Vegetative Cells. <i>Plant Physiology</i> , 2020, 183, 1765-1779.	2.3	18
13	New opportunities and insights into <i>Papaver</i> self-incompatibility by imaging engineered <i>Arabidopsis</i> pollen. <i>Journal of Experimental Botany</i> , 2020, 71, 2451-2463.	2.4	18
14	Villin Controls the Formation and Enlargement of Punctate Actin Foci in Pollen Tubes. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	10
15	Evolution of self-compatibility by a mutant Sm-RNase in citrus. <i>Nature Plants</i> , 2020, 6, 131-142.	4.7	85
16	Mechanical stimulation in <i>Brachypodium distachyon</i> : Implications for fitness, productivity, and cell wall properties. <i>Plant, Cell and Environment</i> , 2020, 43, 1314-1330.	2.8	20
17	Nutrient and drought stress: implications for phenology and biomass quality in <i>miscanthus</i> . <i>Annals of Botany</i> , 2019, 124, 553-566.	1.4	19
18	Modified expression of ZmMYB167 in <i>Brachypodium distachyon</i> and <i>Zea mays</i> leads to increased cell wall lignin and phenolic content. <i>Scientific Reports</i> , 2019, 9, 8800.	1.6	24

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19	Desirable plant cell wall traits for higher-quality miscanthus lignocellulosic biomass. <i>Biotechnology for Biofuels</i> , 2019, 12, 85.	6.2	29
20	Transcriptional and Metabolomic Analyses Indicate that Cell Wall Properties are Associated with Drought Tolerance in <i>Brachypodium distachyon</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 1758.	1.8	21
21	Genomic index selection provides a pragmatic framework for setting and refining multi-objective breeding targets in <i>Miscanthus</i> . <i>Annals of Botany</i> , 2019, 124, 521-529.	1.4	10
22	Exploring design principles of biological and living building envelopes: what can we learn from plant cell walls?. <i>Intelligent Buildings International</i> , 2018, 10, 78-102.	1.3	24
23	Self-incompatibility in <i>Papaver</i> pollen: programmed cell death in an acidic environment. <i>Journal of Experimental Botany</i> , 2018, 70, 2113-2123.	2.4	17
24	The stigma of death. <i>Nature Plants</i> , 2018, 4, 323-324.	4.7	1
25	Genetic engineering of grass cell wall polysaccharides for biorefining. <i>Plant Biotechnology Journal</i> , 2017, 15, 1071-1092.	4.1	52
26	A cell wall reference profile for <i>Miscanthus</i> bioenergy crops highlights compositional and structural variations associated with development and organ origin. <i>New Phytologist</i> , 2017, 213, 1710-1725.	3.5	44
27	Review: Improving the Impact of Plant Science on Urban Planning and Design. <i>Buildings</i> , 2016, 6, 48.	1.4	22
28	Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of <i>Brachypodium distachyon</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1751.	1.7	53
29	Self-Incompatibility-Induced Programmed Cell Death in Field Poppy Pollen Involves Dramatic Acidification of the Incompatible Pollen Tube Cytosol. <i>Plant Physiology</i> , 2015, 167, 766-779.	2.3	63
30	Cell Wall Biomass Preparation and Fourier Transform Mid-infrared (FTIR) Spectroscopy to Study Cell Wall Composition. <i>Bio-protocol</i> , 2015, 5, .	0.2	4
31	Transcriptional regulators of <i>Arabidopsis</i> secondary cell wall formation: tools to re-program and improve cell wall traits. <i>Frontiers in Plant Science</i> , 2014, 5, 192.	1.7	5
32	Genotype, development and tissue-derived variation of cell-wall properties in the lignocellulosic energy crop <i>Miscanthus</i> . <i>Annals of Botany</i> , 2014, 114, 1265-1277.	1.4	56
33	Genome-wide association studies and prediction of 17 traits related to phenology, biomass and cell wall composition in the energy grass <i>Miscanthus sinensis</i> . <i>New Phytologist</i> , 2014, 201, 1227-1239.	3.5	96
34	Physiological and growth responses to water deficit in the bioenergy crop <i>Miscanthus x giganteus</i> . <i>Frontiers in Plant Science</i> , 2013, 4, 468.	1.7	82
35	Lignocellulosic feedstocks: research progress and challenges in optimizing biomass quality and yield. <i>Frontiers in Plant Science</i> , 2013, 4, 474.	1.7	21
36	Advances in the genetic dissection of plant cell walls: tools and resources available in <i>Miscanthus</i> . <i>Frontiers in Plant Science</i> , 2013, 4, 217.	1.7	27

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37	Heterogeneity and Glycan Masking of Cell Wall Microstructures in the Stems of <i>Miscanthus x giganteus</i> , and Its Parents <i>M. sinensis</i> and <i>M. sacchariflorus</i> . <i>PLoS ONE</i> , 2013, 8, e82114.	1.1	42
38	Progress towards elucidating the mechanisms of self-incompatibility in the grasses: further insights from studies in <i>Lolium</i> . <i>Annals of Botany</i> , 2011, 108, 677-685.	1.4	49
39	Reactive Oxygen Species and Nitric Oxide Mediate Actin Reorganization and Programmed Cell Death in the Self-Incompatibility Response of <i>Papaver</i> . <i>Plant Physiology</i> , 2011, 156, 404-416.	2.3	127
40	Plant reproduction: does size matter?. <i>New Phytologist</i> , 2011, 190, 812-815.	3.5	0
41	Identification of genes involved in cell wall biogenesis in grasses by differential gene expression profiling of elongating and non-elongating maize internodes. <i>Journal of Experimental Botany</i> , 2011, 62, 3545-3561.	2.4	107
42	Proteins implicated in mediating self-incompatibility-induced alterations to the actin cytoskeleton of <i>Papaver</i> pollen. <i>Annals of Botany</i> , 2011, 108, 659-675.	1.4	19
43	Self-incompatibility in <i>Papaver</i> : identification of the pollen S-determinant PrpS. <i>Biochemical Society Transactions</i> , 2010, 38, 588-592.	1.6	14
44	Characterization of a legumain/vacuolar processing enzyme and YVADase activity in <i>Papaver</i> pollen. <i>Plant Molecular Biology</i> , 2010, 74, 381-393.	2.0	28
45	Exocytosis Precedes and Predicts the Increase in Growth in Oscillating Pollen Tubes. <i>Plant Cell</i> , 2009, 21, 3026-3040.	3.1	137
46	Initiation of Programmed Cell Death in Self-Incompatibility: Role for Cytoskeleton Modifications and Several Caspase-Like Activities. <i>Molecular Plant</i> , 2008, 1, 879-887.	3.9	34
47	Self-incompatibility in <i>Papaver</i> : signalling to trigger PCD in incompatible pollen. <i>Journal of Experimental Botany</i> , 2008, 59, 481-490.	2.4	64
48	Temporal and spatial activation of caspase-like enzymes induced by self-incompatibility in <i>Papaver</i> pollen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18327-18332.	3.3	98
49	Silencing of the tobacco pollen pectin methylesterase NtPPME1 results in retarded in vivo pollen tube growth. <i>Planta</i> , 2006, 223, 736-745.	1.6	75
50	Oscillatory Pollen Tube Growth: Imaging the Underlying Structures and Physiological Processes. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	2
51	Pectin Methylesterases and Pectin Dynamics in Pollen Tubes. <i>Plant Cell</i> , 2005, 17, 3219-3226.	3.1	309
52	Pectin Methylesterase, a Regulator of Pollen Tube Growth. <i>Plant Physiology</i> , 2005, 138, 1334-1346.	2.3	324
53	Pistil Factors Controlling Pollination. <i>Plant Cell</i> , 2004, 16, S98-S106.	3.1	99
54	A functional study of stylar hydroxyproline-rich glycoproteins during pollen tube growth. <i>Sexual Plant Reproduction</i> , 2003, 16, 87-98.	2.2	12

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55	Class III Pistil-Specific Extensin-Like Proteins from Tobacco Have Characteristics of Arabinogalactan Proteins. <i>Plant Physiology</i> , 2001, 125, 2180-2188.	2.3	42