Maurice Bosch

List of Publications by Year in descending order

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257450 197818 2,583 55 24 49 h-index citations g-index papers 57 57 57 3327 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Pectin Methylesterase, a Regulator of Pollen Tube Growth. Plant Physiology, 2005, 138, 1334-1346. | 4.8 | 324 |
| 2 | Pectin Methylesterases and Pectin Dynamics in Pollen Tubes. Plant Cell, 2005, 17, 3219-3226. | 6.6 | 309 |
| 3 | Exocytosis Precedes and Predicts the Increase in Growth in Oscillating Pollen Tubes. Plant Cell, 2009, 21, 3026-3040. | 6.6 | 137 |
| 4 | Reactive Oxygen Species and Nitric Oxide Mediate Actin Reorganization and Programmed Cell Death in the Self-Incompatibility Response of $\langle i \rangle$ Papaver $\langle i \rangle$ Â Â. Plant Physiology, 2011, 156, 404-416. | 4.8 | 127 |
| 5 | Identification of genes involved in cell wall biogenesis in grasses by differential gene expression profiling of elongating and non-elongating maize internodes. Journal of Experimental Botany, 2011, 62, 3545-3561. | 4.8 | 107 |
| 6 | Pistil Factors Controlling Pollination. Plant Cell, 2004, 16, S98-S106. | 6.6 | 99 |
| 7 | Temporal and spatial activation of caspase-like enzymes induced by self-incompatibility in <i>Papaver</i> pollen. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18327-18332. | 7.1 | 98 |
| 8 | Genomeâ€wide association studies and prediction of 17 traits related to phenology, biomass and cell wall composition in the energy grass <i>Miscanthus sinensis</i> . New Phytologist, 2014, 201, 1227-1239. | 7.3 | 96 |
| 9 | Evolution of self-compatibility by a mutant Sm-RNase in citrus. Nature Plants, 2020, 6, 131-142. | 9.3 | 85 |
| 10 | Physiological and growth responses to water deficit in the bioenergy crop Miscanthus x giganteus. Frontiers in Plant Science, 2013, 4, 468. | 3.6 | 82 |
| 11 | Silencing of the tobacco pollen pectin methylesterase NtPPME1 results in retarded in vivo pollen tube growth. Planta, 2006, 223, 736-745. | 3.2 | 75 |
| 12 | Self-incompatibility in <i>Papaver</i> : signalling to trigger PCD in incompatible pollen. Journal of Experimental Botany, 2008, 59, 481-490. | 4.8 | 64 |
| 13 | Pilot-scale production of xylo-oligosaccharides and fermentable sugars from Miscanthus using steam explosion pretreatment. Bioresource Technology, 2020, 296, 122285. | 9.6 | 64 |
| 14 | Self-Incompatibility-Induced Programmed Cell Death in Field Poppy Pollen Involves Dramatic Acidification of the Incompatible Pollen Tube Cytosol Â. Plant Physiology, 2015, 167, 766-779. | 4.8 | 63 |
| 15 | Genotype, development and tissue-derived variation of cell-wall properties in the lignocellulosic energy crop Miscanthus. Annals of Botany, 2014, 114, 1265-1277. | 2.9 | 56 |
| 16 | Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of Brachypodium distachyon. Frontiers in Plant Science, 2016, 7, 1751. | 3.6 | 53 |
| 17 | Genetic engineering of grass cell wall polysaccharides for biorefining. Plant Biotechnology Journal, 2017, 15, 1071-1092. | 8.3 | 52 |
| 18 | Progress towards elucidating the mechanisms of self-incompatibility in the grasses: further insights from studies in Lolium. Annals of Botany, 2011, 108, 677-685. | 2.9 | 49 |

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|----|---|-----|-----------|
| 19 | Production of oligosaccharides and biofuels from Miscanthus using combinatorial steam explosion and ionic liquid pretreatment. Bioresource Technology, 2021, 323, 124625. | 9.6 | 49 |
| 20 | A cell wall reference profile for <i>Miscanthus</i> bioenergy crops highlights compositional and structural variations associated withÂdevelopment and organ origin. New Phytologist, 2017, 213, 1710-1725. | 7.3 | 44 |
| 21 | Class III Pistil-Specific Extensin-Like Proteins from Tobacco Have Characteristics of Arabinogalactan Proteins. Plant Physiology, 2001, 125, 2180-2188. | 4.8 | 42 |
| 22 | Heterogeneity and Glycan Masking of Cell Wall Microstructures in the Stems of Miscanthus x giganteus, and Its Parents M. sinensis and M. sacchariflorus. PLoS ONE, 2013, 8, e82114. | 2.5 | 42 |
| 23 | Initiation of Programmed Cell Death in Self-Incompatibility: Role for Cytoskeleton Modifications and Several Caspase-Like Activities. Molecular Plant, 2008, 1, 879-887. | 8.3 | 34 |
| 24 | Desirable plant cell wall traits for higher-quality miscanthus lignocellulosic biomass. Biotechnology for Biofuels, 2019, 12, 85. | 6.2 | 29 |
| 25 | Characterization of a legumain/vacuolar processing enzyme and YVADase activity in Papaver pollen. Plant Molecular Biology, 2010, 74, 381-393. | 3.9 | 28 |
| 26 | Advances in the genetic dissection of plant cell walls: tools and resources available in Miscanthus. Frontiers in Plant Science, 2013, 4, 217. | 3.6 | 27 |
| 27 | Exploring design principles of biological and living building envelopes: what can we learn from plant cell walls?. Intelligent Buildings International, 2018, 10, 78-102. | 2.3 | 24 |
| 28 | Modified expression of ZmMYB167 in Brachypodium distachyon and Zea mays leads to increased cell wall lignin and phenolic content. Scientific Reports, 2019, 9, 8800. | 3.3 | 24 |
| 29 | Review: Improving the Impact of Plant Science on Urban Planning and Design. Buildings, 2016, 6, 48. | 3.1 | 22 |
| 30 | Lignocellulosic feedstocks: research progress and challenges in optimizing biomass quality and yield. Frontiers in Plant Science, 2013, 4, 474. | 3.6 | 21 |
| 31 | Transcriptional and Metabolomic Analyses Indicate that Cell Wall Properties are Associated with Drought Tolerance in Brachypodium distachyon. International Journal of Molecular Sciences, 2019, 20, 1758. | 4.1 | 21 |
| 32 | Mechanical stimulation in <scp><i>Brachypodium distachyon</i></scp> : Implications for fitness, productivity, and cell wall properties. Plant, Cell and Environment, 2020, 43, 1314-1330. | 5.7 | 20 |
| 33 | Proteins implicated in mediating self-incompatibility-induced alterations to the actin cytoskeleton of Papaver pollen. Annals of Botany, 2011, 108, 659-675. | 2.9 | 19 |
| 34 | Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. Annals of Botany, 2019, 124, 553-566. | 2.9 | 19 |
| 35 | Ectopic Expression of a Self-Incompatibility Module Triggers Growth Arrest and Cell Death in Vegetative Cells. Plant Physiology, 2020, 183, 1765-1779. | 4.8 | 18 |
| 36 | New opportunities and insights into Papaver self-incompatibility by imaging engineered Arabidopsis pollen. Journal of Experimental Botany, 2020, 71, 2451-2463. | 4.8 | 18 |

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|----|---|-----|-----------|
| 37 | Self-incompatibility inPapaverpollen: programmed cell death in an acidic environment. Journal of Experimental Botany, 2018, 70, 2113-2123. | 4.8 | 17 |
| 38 | Self-incompatibility in Papaver: identification of the pollen S-determinant PrpS. Biochemical Society Transactions, 2010, 38, 588-592. | 3.4 | 14 |
| 39 | Self-Incompatibility Triggers Irreversible Oxidative Modification of Proteins in Incompatible Pollen. Plant Physiology, 2020, 183, 1391-1404. | 4.8 | 13 |
| 40 | A functional study of stylar hydroxyproline-rich glycoproteins during pollen tube growth. Sexual Plant Reproduction, 2003, 16, 87-98. | 2.2 | 12 |
| 41 | Self-incompatibility requires GPI anchor remodeling by the poppy PGAP1 ortholog HLD1. Current Biology, 2022, 32, 1909-1923.e5. | 3.9 | 12 |
| 42 | Biorefining Potential of Wild-Grown Arundo donax, Cortaderia selloana and Phragmites australis and the Feasibility of White-Rot Fungi-Mediated Pretreatments. Frontiers in Plant Science, 2021, 12, 679966. | 3.6 | 11 |
| 43 | Genomic index selection provides a pragmatic framework for setting and refining multi-objective breeding targets in Miscanthus. Annals of Botany, 2019, 124, 521-529. | 2.9 | 10 |
| 44 | Villin Controls the Formation and Enlargement of Punctate Actin Foci in Pollen Tubes. Journal of Cell Science, 2020, 133, . | 2.0 | 10 |
| 45 | A Comparison of Differential Gene Expression in Response to the Onset of Water Stress Between Three Hybrid Brachiaria Genotypes. Frontiers in Plant Science, 2021, 12, 637956. | 3.6 | 9 |
| 46 | ATP depletion plays a pivotal role in selfâ€incompatibility, revealing a link between cellular energy status, cytosolic acidification and actin remodelling in pollen tubes. New Phytologist, 2022, 236, 1691-1707. | 7.3 | 7 |
| 47 | Pollen–stigma interactions in Brassicaceae: complex communication events regulating pollen hydration. Journal of Experimental Botany, 2020, 71, 2465-2468. | 4.8 | 6 |
| 48 | Transcriptional regulators of Arabidopsis secondary cell wall formation: tools to re-program and improve cell wall traits. Frontiers in Plant Science, 2014, 5, 192. | 3.6 | 5 |
| 49 | Plant biology: Stigmatic ROS decide whether pollen isÂaccepted or rejected. Current Biology, 2021, 31, R904-R906. | 3.9 | 4 |
| 50 | Cell Wall Biomass Preparation and Fourier Transform Mid-infrared (FTIR) Spectroscopy to Study Cell Wall Composition. Bio-protocol, 2015, 5, . | 0.4 | 4 |
| 51 | Mechanical stimulation in wheat triggers age- and dose-dependent alterations in growth, development and grain characteristics. Annals of Botany, 2021, 128, 589-603. | 2.9 | 3 |
| 52 | Oscillatory Pollen Tube Growth: Imaging the Underlying Structures and Physiological Processes. Microscopy and Microanalysis, 2005, 11 , . | 0.4 | 2 |
| 53 | Unveiling the compositional remodelling of Arbutus unedo L. fruits during ripening. Scientia Horticulturae, 2022, 303, 111248. | 3.6 | 2 |
| 54 | The stigma of death. Nature Plants, 2018, 4, 323-324. | 9.3 | 1 |

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|----|---|-----|-----------|
| 55 | Plant reproduction: does size matter?. New Phytologist, 2011, 190, 812-815. | 7.3 | 0 |