# Julin N Maloof

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 84 papers | 8,488 citations | 47006 47 h-index | 54911 84 g-index |
| 188 all docs | 188 docs citations | 188 times ranked | 9724 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Global transcriptome analysis reveals circadian regulation of key pathways in plant growth and development. Genome Biology, 2008, 9, R130. | 9.6 | 677 |
| 2 | Rhythmic growth explained by coincidence between internal and external cues. Nature, 2007, 448, 358-361. | 27.8 | 599 |
| 3 | The extent of linkage disequilibrium in Arabidopsis thaliana. Nature Genetics, 2002, 30, 190-193. | 21.4 | 425 |
| 4 | The genome of the stress-tolerant wild tomato species Solanum pennellii. Nature Genetics, 2014, 46, 1034-1038. | 21.4 | 391 |
| 5 | Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2655-62. | 7.1 | 325 |
| 6 | Natural variation in light sensitivity of Arabidopsis. Nature Genetics, 2001, 29, 441-446. | 21.4 | 261 |
| 7 | Three Redundant Brassinosteroid Early Response Genes Encode Putative bHLH Transcription Factors Required for Normal Growth. Genetics, 2002, 162, 1445-1456. | 2.9 | 259 |
| 8 | A Modern Ampelography: A Genetic Basis for Leaf Shape and Venation Patterning in Grape. Plant Physiology, 2014, 164, 259-272. | 4.8 | 233 |
| 9 | GLO-Roots: an imaging platform enabling multidimensional characterization of soil-grown root systems. ELife, 2015, 4, . | 6.0 | 212 |
| 10 | A Quantitative Genetic Basis for Leaf Morphology in a Set of Precisely Defined Tomato Introgression Lines. Plant Cell, 2013, 25, 2465-2481. | 6.6 | 209 |
| 11 | The PHYTOCHROME C photoreceptor gene mediates natural variation in flowering and growth responses of Arabidopsis thaliana. Nature Genetics, 2006, 38, 711-715. | 21.4 | 191 |
| 12 | Evolutionary developmental transcriptomics reveals a gene network module regulating interspecific diversity in plant leaf shape. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2616-21. | 7.1 | 178 |
| 13 | Domestication selected for deceleration of the circadian clock in cultivated tomato. Nature Genetics, 2016, 48, 89-93. | 21.4 | 165 |
| 14 | An Internal Motor Kinesin Is Associated with the Golgi Apparatus and Plays a Role in Trichome Morphogenesis in Arabidopsis. Molecular Biology of the Cell, 2005, 16, 811-823. | 2.1 | 147 |
| 15 | A High-Throughput Method for Illumina RNA-Seq Library Preparation. Frontiers in Plant Science, 2012, 3, 202. | 3.6 | 145 |
| 16 | BBX32, an Arabidopsis B-Box Protein, Functions in Light Signaling by Suppressing HY5-Regulated Gene Expression and Interacting with STH2/BBX21 Â. Plant Physiology, 2011, 156, 2109-2123. | 4.8 | 140 |
| 17 | Network Quantitative Trait Loci Mapping of Circadian Clock Outputs Identifies Metabolic Pathway-to-Clock Linkages in <i>Arabidopsis</i> Â Â. Plant Cell, 2011, 23, 471-485. | 6.6 | 139 |
| 18 | Genomic Analysis of Circadian Clock-, Light-, and Growth-Correlated Genes Reveals PHYTOCHROME-INTERACTING FACTOR5 as a Modulator of Auxin Signaling in Arabidopsis Â Â Â. Plant Physiology, 2011, 156, 357-372. | 4.8 | 136 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Circadian oscillation of gibberellin signaling in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9292-9297. | 7.1 | 131 |
| 20 | Structured Light-Based 3D Reconstruction System for Plants. Sensors, 2015, 15, 18587-18612. | 3.8 | 129 |
| 21 | Neighbor Detection Induces Organ-Specific Transcriptomes, Revealing Patterns Underlying Hypocotyl-Specific Growth. Plant Cell, 2016, 28, 2889-2904. | 6.6 | 128 |
| 22 | Quantitative Trait Loci Controlling Light and Hormone Response in Two Accessions of <i>Arabidopsis thaliana</i>. Genetics, 2002, 160, 683-696. | 2.9 | 127 |
| 23 | Network Analysis Identifies ELF3 as a QTL for the Shade Avoidance Response in Arabidopsis. PLoS Genetics, 2010, 6, e1001100. | 3.5 | 120 |
| 24 | Cis-regulatory Changes at FLOWERING LOCUS T Mediate Natural Variation in Flowering Responses of Arabidopsis thaliana. Genetics, 2009, 183, 723-732. | 2.9 | 109 |
| 25 | Diurnal regulation of plant growth*. Plant, Cell and Environment, 2006, 29, 396-408. | 5.7 | 107 |
| 26 | Genomic Analysis of QTLs and Genes Altering Natural Variation in Stochastic Noise. PLoS Genetics, 2011, 7, e1002295. | 3.5 | 107 |
| 27 | COP1-Mediated Degradation of BBX22/LZF1 Optimizes Seedling Development in Arabidopsis Â Â. Plant Physiology, 2011, 156, 228-239. | 4.8 | 102 |
| 28 | Amino acid polymorphisms in <i>Arabidopsis</i> phytochrome B cause differential responses to light. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3157-3162. | 7.1 | 97 |
| 29 | Molecular control of crop shade avoidance. Current Opinion in Plant Biology, 2016, 30, 151-158. | 7.1 | 96 |
| 30 | A Genome-Wide Association Study Identifies Variants Underlying the Arabidopsis thaliana Shade Avoidance Response. PLoS Genetics, 2012, 8, e1002589. | 3.5 | 95 |
| 31 | PIF Genes Mediate the Effect of Sucrose on Seedling Growth Dynamics. PLoS ONE, 2011, 6, e19894. | 2.5 | 92 |
| 32 | QTL Mapping in New Arabidopsis thaliana Advanced Intercross-Recombinant Inbred Lines. PLoS ONE, 2009, 4, e4318. | 2.5 | 92 |
| 33 | Phytochromes inhibit hypocotyl negative gravitropism by regulating the development of endodermal amyloplasts through phytochrome-interacting factors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1729-1734. | 7.1 | 88 |
| 34 | eQTL Regulating Transcript Levels Associated with Diverse Biological Processes in Tomato. Plant Physiology, 2016, 172, 328-340. | 4.8 | 87 |
| 35 | The Developmental Trajectory of Leaflet Morphology in Wild Tomato Species Â Â. Plant Physiology, 2012, 158, 1230-1240. | 4.8 | 85 |
| 36 | Light-Response Quantitative Trait Loci Identified with Composite Interval and eXtreme Array Mapping in Arabidopsis thalianaSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY394847 and AY466496.. Genetics, 2004, 167, 907-917. | 2.9 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The Quantitative Basis of the Arabidopsis Innate Immune System to Endemic Pathogens Depends on Pathogen Genetics. PLoS Genetics, 2016, 12, e1005789. | 3.5 | 83 |
| 38 | Shade Avoidance Components and Pathways in Adult Plants Revealed by Phenotypic Profiling. PLoS Genetics, 2015, 11, e1004953. | 3.5 | 76 |
| 39 | Resolving Distinct Genetic Regulators of Tomato Leaf Shape within a Heteroblastic and Ontogenetic Context. Plant Cell, 2014, 26, 3616-3629. | 6.6 | 75 |
| 40 | Rapid creation of <i>Arabidopsis</i> doubled haploid lines for quantitative trait locus mapping. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4227-4232. | 7.1 | 68 |
| 41 | Identification of Novel Loci Regulating Interspecific Variation in Root Morphology and Cellular Development in Tomato Â Â. Plant Physiology, 2013, 162, 755-768. | 4.8 | 68 |
| 42 | <i>YUCCA</i>auxin biosynthetic genes are required for Arabidopsis shade avoidance. PeerJ, 2016, 4, e2574. | 2.0 | 68 |
| 43 | Plant high-throughput phenotyping using photogrammetry and imaging techniques to measure leaf length and rosette area. Computers and Electronics in Agriculture, 2016, 127, 376-394. | 7.7 | 63 |
| 44 | Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. Frontiers in Plant Science, 2017, 8, 900. | 3.6 | 61 |
| 45 | Native Environment Modulates Leaf Size and Response to Simulated Foliar Shade across Wild Tomato Species. PLoS ONE, 2012, 7, e29570. | 2.5 | 54 |
| 46 | QTL for plant growth and morphology. Current Opinion in Plant Biology, 2003, 6, 85-90. | 7.1 | 53 |
| 47 | Multi-level Modulation of Light Signaling by GIGANTEA Regulates Both the Output and Pace of the Circadian Clock. Developmental Cell, 2019, 49, 840-851.e8. | 7.0 | 53 |
| 48 | LeafJ: An ImageJ Plugin for Semi-automated Leaf Shape Measurement. Journal of Visualized Experiments, 2013, , . | 0.3 | 52 |
| 49 | Fine genetic mapping of RXopJ4, a bacterial spot disease resistance locus from Solanum pennellii LA716. Theoretical and Applied Genetics, 2013, 126, 601-609. | 3.6 | 51 |
| 50 | Quantifying time-series of leaf morphology using 2D and 3D photogrammetry methods for high-throughput plant phenotyping. Computers and Electronics in Agriculture, 2017, 135, 222-232. | 7.7 | 51 |
| 51 | Light-induced indeterminacy alters shade avoiding tomato leaf morphology. Plant Physiology, 2015, 169, pp.01229.2015. | 4.8 | 49 |
| 52 | Reassess the <i>t</i> Test: Interact with All Your Data via ANOVA. Plant Cell, 2015, 27, 2088-2094. | 6.6 | 48 |
| 53 | Sequence diversity in three tomato species: SNPs, markers, and molecular evolution. BMC Plant Biology, 2009, 9, 85. | 3.6 | 44 |
| 54 | Genes underlying quantitative variation in ecologically important traits:<i>PIF4</i>(<i>PHYTOCHROME) Tj ETQq0 0 0 rgBT /Overlock 10 set in<i>Arabidopsis thaliana</i>. Molecular Ecology, 2010, 19, 1187-1199. | 3.9 | 43 |

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|---|---|---|---|
| 55 | ANTAGONISTIC MULTILEVEL SELECTION ON SIZE AND ARCHITECTURE IN VARIABLE DENSITY SETTINGS. Evolution; International Journal of Organic Evolution, 2007, 61, 58-67. | 2.3 | 41 |
| 56 | Dynamic Transcriptomic Profiles between Tomato and a Wild Relative Reflect Distinct Developmental Architectures Â Â Â. Plant Physiology, 2013, 162, 537-552. | 4.8 | 41 |
| 57 | Modeling development and quantitative trait mapping reveal independent genetic modules for leaf size and shape. New Phytologist, 2015, 208, 257-268. | 7.3 | 41 |
| 58 | Leaf shape is a predictor of fruit quality and cultivar performance in tomato. New Phytologist, 2020, 226, 851-865. | 7.3 | 38 |
| 59 | Genomic approaches to analyzing natural variation in Arabidopsis thaliana. Current Opinion in Genetics and Development, 2003, 13, 576-582. | 3.3 | 37 |
| 60 | A New Advanced Backcross Tomato Population Enables High Resolution Leaf QTL Mapping and Gene Identification. G3: Genes, Genomes, Genetics, 2016, 6, 3169-3184. | 1.8 | 36 |
| 61 | Circadian rhythms vary over the growing season and correlate with fitness components. Molecular Ecology, 2017, 26, 5528-5540. | 3.9 | 35 |
| 62 | Natural variation in phytochrome signaling. Seminars in Cell and Developmental Biology, 2000, 11, 523-530. | 5.0 | 32 |
| 63 | Polymorphism Identification and Improved Genome Annotation of <i>Brassica rapa</i> Through Deep RNA Sequencing. G3: Genes, Genomes, Genetics, 2014, 4, 2065-2078. | 1.8 | 29 |
| 64 | The role of a class <scp>III</scp> gibberellin 2â€oxidase in tomato internode elongation. Plant Journal, 2019, 97, 603-615. | 5.7 | 28 |
| 65 | Floral Genetic Architecture: An Examination of QTL Architecture Underlying Floral (Co)Variation Across Environments. Genetics, 2010, 186, 1451-1465. | 2.9 | 27 |
| 66 | Retrograde Induction of phyB Orchestrates Ethylene-Auxin Hierarchy to Regulate Growth. Plant Physiology, 2020, 183, 1268-1280. | 4.8 | 27 |
| 67 | Integrated QTL and eQTL Mapping Provides Insights and Candidate Genes for Fatty Acid Composition, Flowering Time, and Growth Traits in a F2 Population of a Novel Synthetic Allopolyploid Brassica napus. Frontiers in Plant Science, 2018, 9, 1632. | 3.6 | 25 |
| 68 | Tissue-Specific Transcriptome Analysis Reveals Candidate Genes for Terpenoid and Phenylpropanoid Metabolism in the Medicinal Plant <i>Ferula assafoetida</i>. G3: Genes, Genomes, Genetics, 2019, 9, 807-816. | 1.8 | 25 |
| 69 | The foxtail millet (<i>Setaria italica</i>) terpene synthase gene family. Plant Journal, 2020, 103, 781-800. | 5.7 | 25 |
| 70 | Genetic architecture, biochemical underpinnings and ecological impact of floral <scp>UV</scp> patterning. Molecular Ecology, 2016, 25, 1122-1140. | 3.9 | 24 |
| 71 | The Divergence of Flowering Time Modulated by FT/TFL1 Is Independent to Their Interaction and Binding Activities. Frontiers in Plant Science, 2017, 8, 697. | 3.6 | 24 |
| 72 | Network Analysis Reveals a Role for Salicylic Acid Pathway Components in Shade Avoidance. Plant Physiology, 2018, 178, 1720-1732. | 4.8 | 24 |

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|---|---|---|---|
| 73 | Building Integrated Models of Plant Growth and Development. Plant Physiology, 2003, 132, 436-439. | 4.8 | 22 |
| 74 | Tomato phyE Is Required for Shade Avoidance in the Absence of phyB1 and phyB2. Frontiers in Plant Science, 2016, 7, 1275. | 3.6 | 22 |
| 75 | Flower orientation influences floral temperature, pollinator visits and plant fitness. New Phytologist, 2021, 232, 868-879. | 7.3 | 22 |
| 76 | New Arabidopsis Advanced Intercross Recombinant Inbred Lines Reveal Female Control of Nonrandom Mating. Plant Physiology, 2014, 165, 175-185. | 4.8 | 21 |
| 77 | Using RNA-Seq for Genomic Scaffold Placement, Correcting Assemblies, and Genetic Map Creation in a Common<i>Brassica rapa</i>Mapping Population. G3: Genes, Genomes, Genetics, 2017, 7, 2259-2270. | 1.8 | 15 |
| 78 | Integrating transcriptomic network reconstruction and eQTL analyses reveals mechanistic connections between genomic architecture and Brassica rapa development. PLoS Genetics, 2019, 15, e1008367. | 3.5 | 15 |
| 79 | Plant Development: Slowing Root Growth Naturally. Current Biology, 2004, 14, R395-R396. | 3.9 | 6 |
| 80 | Plant phenotyping using multi-view stereo vision with structured lights. Proceedings of SPIE, 2016, , . | 0.8 | 6 |
| 81 | The Generation of Doubled Haploid Lines for QTL Mapping. Methods in Molecular Biology, 2017, 1610, 39-57. | 0.9 | 6 |
| 82 | MYCs and PIFs Act Independently in Arabidopsis Growth Regulation. G3: Genes, Genomes, Genetics, 2020, 10, 1797-1807. | 1.8 | 6 |
| 83 | Recent advances in regulation of flowering. F1000 Biology Reports, 2010, 2, . | 4.0 | 2 |
| 84 | Multiple Loci Control Variation in Plasticity to Foliar Shade Throughout Development in <i>Arabidopsis thaliana</i>. G3: Genes, Genomes, Genetics, 2020, 10, 4103-4114. | 1.8 | 1 |