# Caroline Gutjahr

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 63<br>papers | 5,506<br>citations | 101543<br>36<br>h-index | 123424<br>61<br>g-index |
| 90<br>all docs | 90<br>docs citations | 90<br>times ranked | 5311<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sculpting the soil microbiota. Plant Journal, 2022, 109, 508-522. | 5.7 | 28 |
| 2 | KAI2 promotes Arabidopsis root hair elongation at low external phosphate by controlling local accumulation of AUX1 and PIN2. Current Biology, 2022, 32, 228-236.e3. | 3.9 | 29 |
| 3 | PHOSPHATE STARVATION RESPONSE transcription factors enable arbuscular mycorrhiza symbiosis. Nature Communications, 2022, 13, 477. | 12.8 | 81 |
| 4 | Old dog, new trick: The PHR-SPX system regulates arbuscular mycorrhizal symbiosis. Molecular Plant, 2022, 15, 225-227. | 8.3 | 10 |
| 5 | Structural and functional analyses explain Pea KAI2 receptor diversity and reveal stereoselective catalysis during signal perception. Communications Biology, 2022, 5, 126. | 4.4 | 18 |
| 6 | <scp><i>KARRIKIN INSENSITIVE2</i></scp> regulates leaf development, root system architecture and arbuscularâ€mycorrhizal symbiosis in <i>Brachypodium distachyon</i>. Plant Journal, 2022, 109, 1559-1574. | 5.7 | 15 |
| 7 | KAI2 regulates seedling development by mediating lightâ€induced remodelling of auxin transport. New Phytologist, 2022, 235, 126-140. | 7.3 | 9 |
| 8 | KARRIKIN UP-REGULATED F-BOX 1 (KUF1) imposes negative feedback regulation of karrikin and KAI2 ligand metabolism in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112820119. | 7.1 | 19 |
| 9 | MAX2-independent transcriptional responses to rac-GR24 in Lotus japonicus roots. Plant Signaling and Behavior, 2021, 16, 1840852. | 2.4 | 4 |
| 10 | Controlled Assays for Phenotyping the Effects of Strigolactone-Like Molecules on Arbuscular Mycorrhiza Development. Methods in Molecular Biology, 2021, 2309, 157-177. | 0.9 | 9 |
| 11 | Bioassays for the Effects of Strigolactones and Other Small Molecules on Root and Root Hair Development. Methods in Molecular Biology, 2021, 2309, 129-142. | 0.9 | 7 |
| 12 | Factors affecting plant responsiveness to arbuscular mycorrhiza. Current Opinion in Plant Biology, 2021, 59, 101994. | 7.1 | 49 |
| 13 | Quantitative Mapping of Flavor and Pharmacologically Active Compounds in European Licorice Roots (<i>Glycyrrhiza glabra</i> L.) in Response to Growth Conditions and Arbuscular Mycorrhiza Symbiosis. Journal of Agricultural and Food Chemistry, 2021, 69, 13173-13189. | 5.2 | 1 |
| 14 | Acidovorax pan-genome reveals specific functional traits for plant beneficial and pathogenic plant-associations. Microbial Genomics, 2021, 7, . | 2.0 | 6 |
| 15 | The karrikin signaling regulator SMAX1 controls <i>Lotus japonicus</i> root and root hair development by suppressing ethylene biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21757-21765. | 7.1 | 53 |
| 16 | Extensive signal integration by the phytohormone protein network. Nature, 2020, 583, 271-276. | 27.8 | 104 |
| 17 | A Flexible, Low-Cost Hydroponic Co-Cultivation System for Studying Arbuscular Mycorrhiza Symbiosis. Frontiers in Plant Science, 2020, 11, 63. | 3.6 | 4 |
| 18 | Lotus japonicus karrikin receptors display divergent ligand-binding specificities and organ-dependent redundancy. PLoS Genetics, 2020, 16, e1009249. | 3.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | SMAX1/SMXL2 regulate root and root hair development downstream of KAI2-mediated signalling in Arabidopsis. PLoS Genetics, 2019, 15, e1008327. | 3.5 | 122 |
| 20 | Editorial: Rhizosphere Functioning and Structural Development as Complex Interplay Between Plants, Microorganisms and Soil Minerals. Frontiers in Environmental Science, 2019, 7, . | 3.3 | 19 |
| 21 | Ramf: An Open-Source R Package for Statistical Analysis and Display of Quantitative Root Colonization by Arbuscular Mycorrhiza Fungi. Frontiers in Plant Science, 2019, 10, 1184. | 3.6 | 3 |
| 22 | Systems Biology of Plant-Microbiome Interactions. Molecular Plant, 2019, 12, 804-821. | 8.3 | 299 |
| 23 | The Role of Strigolactones in Plantâ€"Microbe Interactions. , 2019, , 121-142. |  | 11 |
| 24 | Transcriptional Regulation of Arbuscular Mycorrhiza Development. Plant and Cell Physiology, 2018, 59, 678-695. | 3.1 | 86 |
| 25 | Cross-kingdom lipid transfer in arbuscular mycorrhiza symbiosis and beyond. Current Opinion in Plant Biology, 2018, 44, 137-144. | 7.1 | 102 |
| 26 | The <i>Lotus japonicus</i> acylâ€acyl carrier protein thioesterase FatM is required for mycorrhiza formation and lipid accumulation of <i>Rhizophagus irregularis</i>. Plant Journal, 2018, 95, 219-232. | 5.7 | 39 |
| 27 | Root type and soil phosphate determine the taxonomic landscape of colonizing fungi and the transcriptome of fieldâ€grown maize roots. New Phytologist, 2018, 217, 1240-1253. | 7.3 | 80 |
| 28 | Symbiosis: Plasmodesmata Link Root-Nodule Organogenesis with Infection. Current Biology, 2018, 28, R1400-R1403. | 3.9 | 2 |
| 29 | Partner communication and role of nutrients in the arbuscular mycorrhizal symbiosis. New Phytologist, 2018, 220, 1031-1046. | 7.3 | 188 |
| 30 | Editorial overview: Nothing in plantâ€"biotic interactions makes senseâ€¦. Current Opinion in Plant Biology, 2018, 44, iii-vi. | 7.1 | 0 |
| 31 | Tracking Lipid Transfer by Fatty Acid Isotopolog Profiling from Host Plants to Arbuscular Mycorrhiza Fungi. Bio-protocol, 2018, 8, e2786. | 0.4 | 3 |
| 32 | Strigolactone Signaling and Evolution. Annual Review of Plant Biology, 2017, 68, 291-322. | 18.7 | 470 |
| 33 | Cell Biology: Control of Partner Lifetime inÂaÂPlantâ€"Fungus Relationship. Current Biology, 2017, 27, R420-R423. | 3.9 | 20 |
| 34 | An N-acetylglucosamine transporter required for arbuscular mycorrhizal symbioses in rice and maize. Nature Plants, 2017, 3, 17073. | 9.3 | 72 |
| 35 | Positive Gene Regulation by a Natural Protective miRNA Enables Arbuscular Mycorrhizal Symbiosis. Cell Host and Microbe, 2017, 21, 106-112. | 11.0 | 79 |
| 36 | Lipid transfer from plants to arbuscular mycorrhiza fungi. ELife, 2017, 6, . | 6.0 | 329 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Genetic Control of Lateral Root Formation in Cereals. Trends in Plant Science, 2016, 21, 951-961. | 8.8 | 107 |
| 38 | A CCaMK-CYCLOPS-DELLA Complex Activates Transcription of RAM1 to Regulate Arbuscule Branching. Current Biology, 2016, 26, 987-998. | 3.9 | 182 |
| 39 | Full Establishment of Arbuscular Mycorrhizal Symbiosis in Rice Occurs Independently of Enzymatic Jasmonate Biosynthesis. PLoS ONE, 2015, 10, e0123422. | 2.5 | 41 |
| 40 | Rice perception of symbiotic arbuscular mycorrhizal fungi requires the karrikin receptor complex. Science, 2015, 350, 1521-1524. | 12.6 | 191 |
| 41 | Calcium Signaling during Reproduction and Biotrophic Fungal Interactions in Plants. Molecular Plant, 2015, 8, 595-611. | 8.3 | 44 |
| 42 | Transcriptome diversity among rice root types during asymbiosis and interaction with arbuscular mycorrhizal fungi. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6754-6759. | 7.1 | 99 |
| 43 | Lipid Droplets of Arbuscular Mycorrhizal Fungi Emerge in Concert with Arbuscule Collapse. Plant and Cell Physiology, 2014, 55, 1945-1953. | 3.1 | 41 |
| 44 | Control of arbuscular mycorrhiza development by nutrient signals. Frontiers in Plant Science, 2014, 5, 462. | 3.6 | 83 |
| 45 | Auxin Perception Is Required for Arbuscule Development in Arbuscular Mycorrhizal Symbiosis Â. Plant Physiology, 2014, 166, 281-292. | 4.8 | 163 |
| 46 | Phytohormone signaling in arbuscular mycorhiza development. Current Opinion in Plant Biology, 2014, 20, 26-34. | 7.1 | 178 |
| 47 | Cell and Developmental Biology of Arbuscular Mycorrhiza Symbiosis. Annual Review of Cell and Developmental Biology, 2013, 29, 593-617. | 9.4 | 493 |
| 48 | Mutation identification by direct comparison of whole-genome sequencing data from mutant and wild-type individuals using k-mers. Nature Biotechnology, 2013, 31, 325-330. | 17.5 | 149 |
| 49 | Multiple control levels of root system remodeling in arbuscular mycorrhizal symbiosis. Frontiers in Plant Science, 2013, 4, 204. | 3.6 | 121 |
| 50 | Two <i><scp>L</scp>otus japonicus</i> symbiosis mutants impaired at distinct steps of arbuscule development. Plant Journal, 2013, 75, 117-129. | 5.7 | 15 |
| 51 | The halfâ€size ABC transporters STR1 and STR2 are indispensable for mycorrhizal arbuscule formation in rice. Plant Journal, 2012, 69, 906-920. | 5.7 | 131 |
| 52 | Root starch accumulation in response to arbuscular mycorrhizal colonization differs among Lotus japonicus starch mutants. Planta, 2011, 234, 639-646. | 3.2 | 14 |
| 53 | <i>Glomus intraradices</i> induces changes in root system architecture of rice independently of common symbiosis signaling. New Phytologist, 2009, 182, 829-837. | 7.3 | 154 |
| 54 | Presymbiotic factors released by the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> induce starch accumulation in <i>Lotus japonicus</i> roots. New Phytologist, 2009, 183, 53-61. | 7.3 | 72 |

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|---|---|---|---|
| 55 | Weights in the Balance: Jasmonic Acid and Salicylic Acid Signaling in Root-Biotroph Interactions. Molecular Plant-Microbe Interactions, 2009, 22, 763-772. | 2.6 | 148 |
| 56 | Cereal mycorrhiza: an ancient symbiosis in modern agriculture. Trends in Plant Science, 2008, 13, 93-97. | 8.8 | 194 |
| 57 | Divergence of Evolutionary Ways Among Common sym Genes: CASTOR and CCaMK Show Functional Conservation Between Two Symbiosis Systems and Constitute the Root of a Common Signaling Pathway. Plant and Cell Physiology, 2008, 49, 1659-1671. | 3.1 | 103 |
| 58 | The Molecular Components of Nutrient Exchange in Arbuscular Mycorrhizal Interactions. , 2008, , 37-59. |  | 6 |
| 59 | Arbuscular Mycorrhizaâ€"Specific Signaling in Rice Transcends the Common Symbiosis Signaling Pathway. Plant Cell, 2008, 20, 2989-3005. | 6.6 | 235 |
| 60 | GER1,a GDSL Motif-Encoding Gene from Rice is a Novel Early Light- and Jasmonate-Induced Gene. Plant Biology, 2007, 9, 32-40. | 3.8 | 39 |
| 61 | Changes in soil chemistry associated with the establishment of forest gardens on eroded, acidified grassland soils in Sri Lanka. Biology and Fertility of Soils, 2007, 44, 163-170. | 4.3 | 2 |
| 62 | Acrylamide inhibits gravitropism and affects microtubules in rice coleoptiles. Protoplasma, 2006, 227, 211-222. | 2.1 | 10 |
| 63 | Cholodnyâ€"Went revisited: a role for jasmonate in gravitropism of rice coleoptiles. Planta, 2005, 222, 575-585. | 3.2 | 68 |