

# Andreas Brachmann

## List of Publications by Year in descending order

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73  
papers

4,049  
citations

136950

32  
h-index

128289

60  
g-index

84  
all docs

84  
docs citations

84  
times ranked

4378  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Microbiome profiling reveals that <i>Pseudomonas</i> antagonises parasitic nodule colonisation of cheater rhizobia in <i>Lotus</i> . <i>New Phytologist</i> , 2022, 234, 242-255.   | 7.3  | 16        |
| 2  | Fungal Communities of <i>Eucalyptus grandis</i> Leaves Are Influenced by the Insect Pest <i>Leptocybe invasa</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 841621.   | 3.5  | 1         |
| 3  | High-throughput sequencing analysis reveals genomic similarity in phenotypic heterogeneous <i>Photobacterium luminescens</i> cell populations. <i>Annals of Microbiology</i> , 2022, 72, .  | 2.6  | 2         |
| 4  | <i>In vivo</i> stabilization of endogenous chloroplast RNAs by customized artificial pentatricopeptide repeat proteins. <i>Nucleic Acids Research</i> , 2021, 49, 5985-5997.  | 14.5 | 14        |
| 5  | mRNA Inventory of Extracellular Vesicles from <i>Ustilago maydis</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 562.   | 3.5  | 21        |
| 6  | Microplastics accumulate fungal pathogens in terrestrial ecosystems. <i>Scientific Reports</i> , 2021, 11, 13214.   | 3.3  | 95        |
| 7  | Meiotic recombination in the offspring of <i>Microbotryum</i> hybrids and its impact on pathogenicity. <i>BMC Evolutionary Biology</i> , 2020, 20, 123.   | 3.2  | 2         |
| 8  | Candidatus <i>Frankia nodulisporulans</i> sp. nov., an <i>Alnus glutinosa</i> -infective <i>Frankia</i> species unable to grow in pure culture and able to sporulate in-plant. <i>Systematic and Applied Microbiology</i> , 2020, 43, 126134. | 2.8  | 17        |
| 9  | Genome-Wide Identification of Essential and Auxiliary Gene Sets for Magnetosome Biosynthesis in <i>Magnetospirillum gryphiswaldense</i> . <i>MSystems</i> , 2020, 5, .  | 3.8  | 14        |
| 10 | Involvement of MexS and MexEF-OprN in Resistance to Toxic Ion Chelators in <i>Pseudomonas putida</i> KT2440. <i>Microorganisms</i> , 2020, 8, 1782.   | 3.6  | 5         |
| 11 | A Novel Factor Essential for Unconventional Secretion of Chitinase Cts1. <i>Frontiers in Microbiology</i> , 2020, 11, 1529.   | 3.5  | 11        |
| 12 | More Filtering on SNP Calling Does Not Remove Evidence of Inter-Nucleus Recombination in Dikaryotic Arbuscular Mycorrhizal Fungi. <i>Frontiers in Plant Science</i> , 2020, 11, 912.  | 3.6  | 6         |
| 13 | Genetic Underpinnings of Host Manipulation by <i>Ophiocordyceps</i> as Revealed by Comparative Transcriptomics. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2275-2296.  | 1.8  | 33        |
| 14 | <i>Bradyrhizobium hipponense</i> sp. nov., isolated from <i>Lupinus angustifolius</i> growing in the northern region of Tunisia. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5539-5550.              | 1.7  | 14        |
| 15 | <i>Frankia</i> -Enriched Metagenomes from the Earliest Diverging Symbiotic <i>Frankia</i> Cluster: They Come in Teams. <i>Genome Biology and Evolution</i> , 2019, 11, 2273-2291.   | 2.5  | 33        |
| 16 | Phenotypic Heterogeneity of the Insect Pathogen <i>Photobacterium luminescens</i> : Insights into the Fate of Secondary Cells. <i>Applied and Environmental Microbiology</i> , 2019, 85, .  | 3.1  | 16        |
| 17 | Smut infection of perennial hosts: the genome and the transcriptome of the Brassicaceae smut fungus <i>Thecaphora thlaspeos</i> reveal functionally conserved and novel effectors. <i>New Phytologist</i> , 2019, 222, 1474-1492.             | 7.3  | 11        |
| 18 | An RNA Chaperone-“Like Protein Plays Critical Roles in Chloroplast mRNA Stability and Translation in <i>Arabidopsis</i> and Maize. <i>Plant Cell</i> , 2019, 31, 1308-1327.   | 6.6  | 25        |

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|----|---|------|-----------|
| 19 | Draft Genome Sequence of <i>Phyllobacterium endophyiticum</i> mTS5, Isolated from <i>Lupinus micranthus</i> in Tunisia. <i>Microbiology Resource Announcements</i> , 2019, 8, .                                 | 0.6  | 0         |
| 20 | PUMPKIN, the Sole Plastid UMP Kinase, Associates with Group II Introns and Alters Their Metabolism. <i>Plant Physiology</i> , 2019, 179, 248-264.   | 4.8  | 23        |
| 21 | Transient leaf endophytes are the most active fungi in 1-year-old beech leaf litter. <i>Fungal Diversity</i> , 2018, 89, 237-251.   | 12.3 | 62        |
| 22 | Complete genome of <i>Rhizobium leguminosarum</i> Norway, an ineffective <i>Lotus</i> micro-symbiont. <i>Standards in Genomic Sciences</i> , 2018, 13, 36.  | 1.5  | 17        |
| 23 | Fungal guilds are evenly distributed along a vertical spruce forest soil profile while individual fungi show pronounced niche partitioning. <i>Mycological Progress</i> , 2018, 17, 925-939.                    | 1.4  | 23        |
| 24 | Single nucleus sequencing reveals evidence of inter-nucleus recombination in arbuscular mycorrhizal fungi. <i>ELife</i> , 2018, 7, .  | 6.0  | 51        |
| 25 | Distinct sensitivity of fungal freshwater guilds to water quality. <i>Mycological Progress</i> , 2017, 16, 155-169.   | 1.4  | 24        |
| 26 | Revisiting regulation of potassium homeostasis in <i>Escherichia coli</i> : the connection to phosphate limitation. <i>MicrobiologyOpen</i> , 2017, 6, e00438.  | 3.0  | 24        |
| 27 | The Plant-Dependent Life Cycle of <i>Thecaphora thlaspeos</i> : A Smut Fungus Adapted to Brassicaceae. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 271-282.   | 2.6  | 13        |
| 28 | Ant-infecting <i>Ophiocordyceps</i> genomes reveal a high diversity of potential behavioral manipulation genes and a possible major role for enterotoxins. <i>Scientific Reports</i> , 2017, 7, 12508.          | 3.3  | 52        |
| 29 | Whole-Genome Sequences of 14 Strains of <i>Bradyrhizobium canariense</i> and 1 Strain of <i>Bradyrhizobium japonicum</i> Isolated from <i>Lupinus</i> spp. in Algeria. <i>Genome Announcements</i> , 2017, 5, . | 0.8  | 5         |
| 30 | PALE CRESS binds to plastid RNAs and facilitates the biogenesis of the 50S ribosomal subunit. <i>Plant Journal</i> , 2017, 92, 400-413.   | 5.7  | 26        |
| 31 | Fungal Mating in the Most Widespread Plant Symbionts?. <i>Trends in Plant Science</i> , 2017, 22, 175-183.  | 8.8  | 62        |
| 32 | Daily rhythms and enrichment patterns in the transcriptome of the behavior-manipulating parasite <i>Ophiocordyceps kimflemingiae</i> . <i>PLoS ONE</i> , 2017, 12, e0187170.                                    | 2.5  | 24        |
| 33 | A quantitative hypermorphic CNGC allele confers ectopic calcium flux and impairs cellular development. <i>ELife</i> , 2017, 6, .  | 6.0  | 30        |
| 34 | Diversity and Composition of the Leaf Mycobiome of Beech ( <i>Fagus sylvatica</i> ) Are Affected by Local Habitat Conditions and Leaf Biochemistry. <i>PLoS ONE</i> , 2016, 11, e0152878.                       | 2.5  | 41        |
| 35 | Identification and Initial Characterization of Prophages in <i>Vibrio campbellii</i> . <i>PLoS ONE</i> , 2016, 11, e0156010.  | 2.5  | 26        |
| 36 | GintAMT3 â€“ a Low-Affinity Ammonium Transporter of the Arbuscular Mycorrhizal Rhizophagus irregularis. <i>Frontiers in Plant Science</i> , 2016, 7, 679.   | 3.6  | 66        |

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|----|---|------|-----------|
| 37 | Evidence for the sexual origin of heterokaryosis in arbuscular mycorrhizal fungi. <i>Nature Microbiology</i> , 2016, 1, 16033.  | 13.3 | 137       |
| 38 | The effector candidate repertoire of the arbuscular mycorrhizal fungus <i>Rhizophagus clarus</i> . <i>BMC Genomics</i> , 2016, 17, 101.   | 2.8  | 76        |
| 39 | Overproduction of Magnetosomes by Genomic Amplification of Biosynthesis-Related Gene Clusters in a Magnetotactic Bacterium. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3032-3041.  | 3.1  | 53        |
| 40 | Single-cell genomics of uncultivated deep-branching magnetotactic bacteria reveals a conserved set of magnetosome genes. <i>Environmental Microbiology</i> , 2016, 18, 21-37.   | 3.8  | 115       |
| 41 | Gene expression during zombie ant biting behavior reflects the complexity underlying fungal parasitic behavioral manipulation. <i>BMC Genomics</i> , 2015, 16, 620.   | 2.8  | 107       |
| 42 | Biosynthesis of magnetic nanostructures in a foreign organism by transfer of bacterial magnetosome gene clusters. <i>Nature Nanotechnology</i> , 2014, 9, 193-197.  | 31.5 | 198       |
| 43 | Single-cell genomics reveals potential for magnetite and greigite biomineralization in an uncultivated multicellular magnetotactic prokaryote. <i>Environmental Microbiology Reports</i> , 2014, 6, 524-531.  | 2.4  | 38        |
| 44 | Characterization of Three Ammonium Transporters of the Glomeromycotan Fungus <i>Geosiphon pyriformis</i> . <i>Eukaryotic Cell</i> , 2013, 12, 1554-1562.  | 3.4  | 31        |
| 45 | Two <i>Lotus japonicus</i> symbiosis mutants impaired at distinct steps of arbuscule development. <i>Plant Journal</i> , 2013, 75, 117-129.   | 5.7  | 15        |
| 46 | A Set of <i>Lotus japonicus</i> Gifu x <i>Lotus burttii</i> Recombinant Inbred Lines Facilitates Map-based Cloning and QTL Mapping. <i>DNA Research</i> , 2012, 19, 317-323.  | 3.4  | 40        |
| 47 | Polymorphic infection and organogenesis patterns induced by a <i>Rhizobium leguminosarum</i> isolate from <i>Lotus</i> root nodules are determined by the host genotype. <i>New Phytologist</i> , 2012, 196, 561-573.                               | 7.3  | 36        |
| 48 | Kinesin-3 and dynein mediate microtubule-dependent co-transport of mRNPs and endosomes. <i>Journal of Cell Science</i> , 2012, 125, 2740-52.  | 2.0  | 140       |
| 49 | Prion-Forming Ability of Ure2 of Yeasts Is Not Evolutionarily Conserved. <i>Genetics</i> , 2011, 188, 81-90.  | 2.9  | 30        |
| 50 | Characterization of PvuRtsII endonuclease as a tool to investigate genomic 5-hydroxymethylcytosine. <i>Nucleic Acids Research</i> , 2011, 39, 5149-5156.  | 14.5 | 51        |
| 51 | <i>NENA</i> , a <i>Lotus japonicus</i> Homolog of <i>Sec13</i> , Is Required for Rhizodermal Infection by Arbuscular Mycorrhiza Fungi and Rhizobia but Dispensable for Cortical Endosymbiotic Development. <i>Plant Cell</i> , 2010, 22, 2509-2526. | 6.6  | 215       |
| 52 | Sho1 and Msb2-Related Proteins Regulate Appressorium Development in the Smut Fungus <i>Ustilago maydis</i> . <i>Plant Cell</i> , 2010, 22, 2085-2101.   | 6.6  | 120       |
| 53 | A Suite of <i>Lotus japonicus</i> Starch Mutants Reveals Both Conserved and Novel Features of Starch Metabolism. <i>Plant Physiology</i> , 2010, 154, 643-655.  | 4.8  | 63        |
| 54 | TILLING in <i>Lotus japonicus</i> Identified Large Allelic Series for Symbiosis Genes and Revealed a Bias in Functionally Defective Ethyl Methanesulfonate Alleles toward Glycine Replacements. <i>Plant Physiology</i> , 2009, 151, 1281-1291.     | 4.8  | 89        |

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|----|--|-----|-----------|
| 55 | The Temperature-Sensitive <i>brush</i> Mutant of the Legume <i>Lotus japonicus</i> Reveals a Link between Root Development and Nodule Infection by Rhizobia. <i>Plant Physiology</i> , 2009, 149, 1785-1796. | 4.8 | 22        |
| 56 | Tetracycline-regulated gene expression in the pathogen <i>Ustilago maydis</i> . <i>Fungal Genetics and Biology</i> , 2006, 43, 727-738.  | 2.1 | 51        |
| 57 | Reporter assay systems for [URE3] detection and analysis. <i>Methods</i> , 2006, 39, 35-42.  | 3.8 | 26        |
| 58 | The Most Widespread Symbiosis on Earth. <i>PLoS Biology</i> , 2006, 4, e239.   | 5.6 | 63        |
| 59 | Genetic Suppressors of the <i>Lotus japonicus</i> <i>har1-1</i> Hypernodulation Phenotype. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1082-1091.  | 2.6 | 45        |
| 60 | Plant-fungal symbiosis en gros and en détail. <i>New Phytologist</i> , 2006, 171, 242-246.   | 7.3 | 12        |
| 61 | Comparative analysis of a translocated copy of the <i>trnK</i> intron in carnivorous family <i>Nepenthaceae</i> . <i>Molecular Phylogenetics and Evolution</i> , 2006, 39, 478-490.                          | 2.7 | 30        |
| 62 | Prion generation in vitro: amyloid of Ure2p is infectious. <i>EMBO Journal</i> , 2005, 24, 3082-3092.  | 7.8 | 221       |
| 63 | A reverse genetic approach for generating gene replacement mutants in <i>Ustilago maydis</i> . <i>Molecular Genetics and Genomics</i> , 2004, 272, 216-226.  | 2.1 | 157       |
| 64 | Prion Genetics: New Rules for a New Kind of Gene. <i>Annual Review of Genetics</i> , 2004, 38, 681-707.  | 7.6 | 80        |
| 65 | Prions: proteins as genes and infectious entities. <i>Genes and Development</i> , 2004, 18, 470-485.   | 5.9 | 76        |
| 66 | Prions of Yeast Are Genes Made of Protein: Amyloids and Enzymes. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2004, 69, 489-496.   | 1.1 | 9         |
| 67 | An unusual MAP kinase is required for efficient penetration of the plant surface by <i>Ustilago maydis</i> . <i>EMBO Journal</i> , 2003, 22, 2199-2210.  | 7.8 | 116       |
| 68 | Heterologous transposition in <i>Ustilago maydis</i> . <i>Molecular Genetics and Genomics</i> , 2003, 269, 395-405.  | 2.1 | 8         |
| 69 | Mating and Pathogenic Development of the Smut Fungus <i>Ustilago maydis</i> Are Regulated by One Mitogen-Activated Protein Kinase Cascade. <i>Eukaryotic Cell</i> , 2003, 2, 1187-1199.                      | 3.4 | 138       |
| 70 | Selection of Chloroplasts by Laser Microbeam Microdissection for Single-Chloroplast PCR. <i>BioTechniques</i> , 2003, 34, 1238-1243.   | 1.8 | 27        |
| 71 | A homologue of the transcriptional repressor <i>Ssn6p</i> antagonizes cAMP signalling in <i>Ustilago maydis</i> . <i>Molecular Microbiology</i> , 2001, 40, 719-730.   | 2.5 | 130       |
| 72 | Identification of genes in the bW/bE regulatory cascade in <i>Ustilago maydis</i> . <i>Molecular Microbiology</i> , 2001, 42, 1047-1063.   | 2.5 | 286       |

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|----|---|-----|-----------|
| 73 | Identification of a target gene for the bE-bW homeodomain protein complex in <i>Ustilago maydis</i> .<br>Molecular Microbiology, 2000, 37, 54-66. | 2.5 | 61        |