Christophe Roux

List of Publications by Year
in descending order

55 papers	5,750 citations	147801 31 h-index	138484 58 g-index
61 all docs	61 docs citations	61 times ranked	5317 citing authors

#	Article	IF	Citations
1	Lineage-Specific Genes and Cryptic Sex: Parallels and Differences between Arbuscular Mycorrhizal Fungi and Fungal Pathogens. Trends in Plant Science, 2021, 26, 111-123.	8.8	25
2	Regulation of mating genes during arbuscular mycorrhizal isolate co-existenceâ€"where is the evidence?. ISME Journal, 2021, 15, 2173-2179.	9.8	4
3	The genome of Geosiphon pyriformis reveals ancestral traits linked to the emergence of the arbuscular mycorrhizal symbiosis. Current Biology, 2021, 31, 1570-1577.e4.	3.9	30
4	Characterization of the microbiome associated with in situ earthen materials. Environmental Microbiomes, 2020, 15, 4.	5.0	2
5	Identification of new signalling peptides through a genome-wide survey of 250 fungal secretomes. BMC Genomics, 2019, 20, 64.	2.8	31
6	Deciphering the phylogeny of violets based on multiplexed genetic and metabolomic approaches. Phytochemistry, 2019, 163, 99-110.	2.9	14
7	In silico definition of new ligninolytic peroxidase sub-classes in fungi and putative relation to fungal life style. Scientific Reports, 2019, 9, 20373.	3.3	13
8	Imbalanced Regulation of Fungal Nutrient Transports According to Phosphate Availability in a Symbiocosm Formed by Poplar, Sorghum, and Rhizophagus irregularis. Frontiers in Plant Science, 2019, 10, 1617.	3.6	23
9	Comparative genomics of <i>Rhizophagus irregularis</i>,<i> R.Âcerebriforme</i>,<i> R.Âdiaphanus</i> and <i>Gigaspora rosea</i> highlights specific genetic features in Glomeromycotina. New Phytologist, 2019, 222, 1584-1598.	7.3	133
10	High intraspecific genome diversity in the model arbuscular mycorrhizal symbiont <i>Rhizophagus irregularis</i>. New Phytologist, 2018, 220, 1161-1171.	7.3	206
11	Opportunities and risks of biofertilization for leek production in urban areas: Influence on both fungal diversity and human bioaccessibility of inorganic pollutants. Science of the Total Environment, 2018, 624, 1140-1151.	8.0	12
12	Laboratory test to assess sensitivity of bio-based earth materials to fungal growth. Building and Environment, 2018, 142, 11-21.	6.9	14
13	Arbuscular mycorrhizal fungi: intraspecific diversity and pangenomes. New Phytologist, 2018, 220, 1129-1134.	7.3	41
14	The Identification of Phytohormone Receptor Homologs in Early Diverging Fungi Suggests a Role for Plant Sensing in Land Colonization by Fungi. MBio, 2017, 8, .	4.1	41
15	An N-acetylglucosamine transporter required for arbuscular mycorrhizal symbioses in rice and maize. Nature Plants, 2017, 3, 17073.	9.3	72
16	Biology and evolution of arbuscular mycorrhizal symbiosis in the light of genomics. New Phytologist, 2017, 213, 531-536.	7.3	53
17	The Comparison of Expressed Candidate Secreted Proteins from Two Arbuscular Mycorrhizal Fungi Unravels Common and Specific Molecular Tools to Invade Different Host Plants. Frontiers in Plant Science, 2017, 8, 124.	3.6	100
18	Role of the GRAS transcription factor ATA/RAM1 in the transcriptional reprogramming of arbuscular mycorrhiza in Petunia hybrida. BMC Genomics, 2017, 18, 589.	2.8	72

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19	A Survey of the Gene Repertoire of Gigaspora rosea Unravels Conserved Features among Glomeromycota for Obligate Biotrophy. Frontiers in Microbiology, 2016, 7, 233.	3.5	113
20	Sequence variation in nuclear ribosomal small subunit, internal transcribed spacer and large subunit regions of <i>Rhizophagus irregularis</i> and <i>Gigaspora margarita</i> is high and isolateâ€dependent. Molecular Ecology, 2016, 25, 2816-2832.	3.9	64
21	Assessment of Ustilago maydis as a fungal model for root infection studies. Fungal Biology, 2015, 119, 145-153.	2.5	15
22	Algal ancestor of land plants was preadapted for symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13390-13395.	7.1	292
23	Development of bio-based earth products for healthy and sustainable buildings: characterization of microbiological, mechanical and hygrothermal properties. Materiaux Et Techniques, 2015, 103, 206.	0.9	15
24	The small RNA diversity from Medicago truncatularoots under biotic interactions evidences the environmental plasticity of the miRNAome. Genome Biology, 2014, 15, 457.	8.8	78
25	Genomics of Arbuscular Mycorrhizal Fungi. Advances in Botanical Research, 2014, 70, 259-290.	1.1	13
26	Combining Metabolomics and Gene Expression Analysis Reveals that Propionyl- and Butyryl-Carnitines Are Involved in Late Stages of Arbuscular Mycorrhizal Symbiosis. Molecular Plant, 2014, 7, 554-566.	8.3	47
27	Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20117-20122.	7.1	717
28	The life cycle of the smut fungus Moesziomyces penicillariae isÂadapted to the short-cycle of the host, Pennisetum glaucum. Fungal Biology, 2013, 117, 311-318.	2.5	7
29	The microRNA miR171h modulates arbuscular mycorrhizal colonization of <i>Medicago truncatula</i> by targeting <i>NSP2</i>. Plant Journal, 2012, 72, 512-522.	5.7	163
30	Comparative analysis of mitochondrial genomes of Rhizophagus irregularis â€œ syn. Glomus irregulare â€œ reveals a polymorphism induced by variability generating elements. New Phytologist, 2012, 196, 1217-1227.	7.3	66
31	The transcriptome of the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> (DAOM 197198) reveals functional tradeoffs in an obligate symbiont. New Phytologist, 2012, 193, 755-769.	7.3	305
32	Solopathogenic strain formation strongly differs amongUstilaginaceaespecies. FEMS Microbiology Letters, 2010, 305, 121-127.	1.8	5
33	Role of mitochondria in the response of arbuscular mycorrhizal fungi to strigolactones. Plant Signaling and Behavior, 2009, 4, 75-77.	2.4	32
34	GR24, a Synthetic Analog of Strigolactones, Stimulates the Mitosis and Growth of the Arbuscular Mycorrhizal Fungus<i>Gigaspora rosea</i>by Boosting Its Energy Metabolism Â. Plant Physiology, 2008, 148, 402-413.	4.8	243
35	Strigolactones. Plant Signaling and Behavior, 2007, 2, 163-164.	2.4	34
36	Rhizosphere communication of plants, parasitic plants and AM fungi. Trends in Plant Science, 2007, 12, 224-230.	8.8	418

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37	Strigolactones Stimulate Arbuscular Mycorrhizal Fungi by Activating Mitochondria. PLoS Biology, 2006, 4, e226.	5.6	693
38	Comparative transcriptomics of rice reveals an ancient pattern of response to microbial colonization. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8066-8070.	7.1	368
39	Partner communication in the arbuscular mycorrhizal interaction. Canadian Journal of Botany, 2004, 82, 1186-1197.	1.1	60
40	Title is missing!. Plant and Soil, 2003, 251, 65-71.	3.7	7
41	Root Factors Induce Mitochondrial-Related Gene Expression and Fungal Respiration during the Developmental Switch from Asymbiosis to Presymbiosis in the Arbuscular Mycorrhizal FungusGigaspora rosea Â. Plant Physiology, 2003, 131, 1468-1478.	4.8	165
42	Rice phosphate transporters include an evolutionarily divergent gene specifically activated in arbuscular mycorrhizal symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13324-13329.	7.1	565
43	The Biological Cycle of Sporisorium reilianum f.sp. zeae: An Overview Using Microscopy. Mycologia, 2002, 94, 505.	1.9	18
44	The biological cycle of<i>Sporisorium reilianum</i>f.sp.<i>zeae</i>: an overview using microscopy. Mycologia, 2002, 94, 505-514.	1.9	41
45	Phylogenetic relationships among smut fungi parasitizing dicotyledons based on ITS sequence analysis. Mycological Research, 2002, 106, 541-548.	2.5	17
46	Title is missing!. Plant and Soil, 2001, 236, 145-153.	3.7	10
47	Early infection of maize roots bySporisorium reilianum f. sp.zeae. Protoplasma, 2000, 213, 83-92.	2.1	16
48	Molecular Tools for the Identification ofTubermelanosporumin Agroindustry. Journal of Agricultural and Food Chemistry, 2000, 48, 2608-2613.	5.2	32
49	Phylogenetic relationships between European and Chinese truffles based on parsimony and distance analysis of ITS sequences. FEMS Microbiology Letters, 1999, 180, 147-155.	1.8	60
50	Biotrophic Development of Sporisorium reilianum f. sp. zeae in Vegetative Shoot Apex of Maize. Phytopathology, 1999, 89, 247-253.	2.2	35
51	Phylogenetic relationships between European and Chinese truffles based on parsimony and distance analysis of ITS sequences. FEMS Microbiology Letters, 1999, 180, 147-155.	1.8	1
52	Hydroxyproline-containing fragments in the cell wall of Phytophthora parasitica. Phytochemistry, 1994, 35, 591-595.	2.9	9
53	Enzyme sensors for the detection of pesticides. Biosensors and Bioelectronics, 1993, 8, 273-280.	10.1	90
54	Safeners as Corn Seedling Protectants against Acetolactate Synthase Inhibitors. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1991, 46, 945-949.	1.4	0

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55	Safeners as Corn Seedling Protectants against Acetolactate Synthase Inhibitors. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1991, 46, 945-949.	1.4	5