Mohamed Hijri

List of Publications by Citations

102 papers	3,956 citations	32 h-index	61 g-index
121 ext. papers	4,869 ext. citations	5.5 avg, IF	5.77 L-index

#	Paper	IF	Citations
102	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, 20117-22	11.5	499
101	The transcriptome of the arbuscular mycorrhizal fungus Glomus intraradices (DAOM 197198) reveals functional tradeoffs in an obligate symbiont. *New Phytologist*, **2012**, 193, 755-769	9.8	262
100	Evidence for the evolution of multiple genomes in arbuscular mycorrhizal fungi. *Nature*, **2001**, 414, 745-8	50.4	259
99	Linkage between bacterial and fungal rhizosphere communities in hydrocarbon-contaminated soils is related to plant phylogeny. *ISME Journal*, **2014**, 8, 331-43	11.9	153
98	Low gene copy number shows that arbuscular mycorrhizal fungi inherit genetically different nuclei. *Nature*, **2005**, 433, 160-3	50.4	144
97	Visualization of ribosomal DNA loci in spore interphasic nuclei of glomalean fungi by fluorescence in situ hybridization. *Mycorrhiza*, **1999**, 8, 203-206	3.9	131
96	Culture-Dependent and -Independent Methods Capture Different Microbial Community Fractions in Hydrocarbon-Contaminated Soils. *PLoS ONE*, **2015**, 10, e0128272	3.7	110
95	Analysis of a large dataset of mycorrhiza inoculation field trials on potato shows highly significant increases in yield. *Mycorrhiza*, **2016**, 26, 209-14	3.9	109
94	Effect of arbuscular mycorrhizal fungi on trace metal uptake by sunflower plants grown on cadmium contaminated soil. *New Biotechnology*, **2013**, 30, 780-7	6.4	98
93	Screening, identification and evaluation of potential biocontrol fungal endophytes against Rhizoctonia solani AG3 on potato plants. *FEMS Microbiology Letters*, **2010**, 311, 152-9	2.9	95
92	Conserved meiotic machinery in Glomus spp., a putatively ancient asexual fungal lineage. *Genome Biology and Evolution*, **2011**, 3, 950-8	3.9	93
91	Molecular biodiversity of arbuscular mycorrhizal fungi in trace metal-polluted soils. *Molecular Ecology*, **2011**, 20, 3469-83	5.7	90
90	Intraspecific ITS polymorphism in Scutellospora castanea (Glomales, Zygomycota) is structured within multinucleate spores. *Fungal Genetics and Biology*, **1999**, 26, 141-51	3.9	89
89	The arbuscular mycorrhizal fungus Glomus intraradices is haploid and has a small genome size in the lower limit of eukaryotes. *Fungal Genetics and Biology*, **2004**, 41, 253-61	3.9	80
88	Phylogenetic analysis of a dataset of fungal 5.8S rDNA sequences shows that highly divergent copies of internal transcribed spacers reported from Scutellospora castanea are of ascomycete origin. *Fungal Genetics and Biology*, **1999**, 28, 238-44	3.9	76
87	Isolation and identification of soil bacteria growing at the expense of arbuscular mycorrhizal fungi. *FEMS Microbiology Letters*, **2011**, 317, 43-51	2.9	68
86	Petroleum biodegradation capacity of bacteria and fungi isolated from petroleum-contaminated soil. *International Biodeterioration and Biodegradation*, **2017**, 116, 48-57	4.8	67

85	Spore development and nuclear inheritance in arbuscular mycorrhizal fungi. *BMC Evolutionary Biology*, **2011**, 11, 51	3	64
84	rDNA units are highly polymorphic in Scutellospora castanea (glomales, zygomycetes). *Gene*, **1999**, 226, 61-71	3.8	63
83	Remorins form a novel family of coiled coil-forming oligomeric and filamentous proteins associated with apical, vascular and embryonic tissues in plants. *Plant Molecular Biology*, **2004**, 55, 579-94	4.6	60
82	Identification and isolation of two ascomycete fungi from spores of the arbuscular mycorrhizal fungus Scutellospora castanea. *Applied and Environmental Microbiology*, **2002**, 68, 4567-73	4.8	54
81	Isolation and Characterization of Plant Growth Promoting Endophytic Bacteria from Desert Plants and Their Application as Bioinoculants for Sustainable Agriculture. *Agronomy*, **2020**, 10, 1325	3.6	50
80	Group I intron-mediated trans-splicing in mitochondria of Gigaspora rosea and a robust phylogenetic affiliation of arbuscular mycorrhizal fungi with Mortierellales. *Molecular Biology and Evolution*, **2012**, 29, 2199-210	8.3	44
79	A Diverse Soil Microbiome Degrades More Crude Oil than Specialized Bacterial Assemblages Obtained in Culture. *Applied and Environmental Microbiology*, **2016**, 82, 5530-41	4.8	42
78	Contrasting the community structure of arbuscular mycorrhizal fungi from hydrocarbon-contaminated and uncontaminated soils following willow (Salix spp. L.) planting. *PLoS ONE*, **2014**, 9, e102838	3.7	39
77	Bacteria associated with arbuscular mycorrhizal fungi within roots of plants growing in a soil highly contaminated with aliphatic and aromatic petroleum hydrocarbons. *FEMS Microbiology Letters*, **2014**, 358, 44-54	2.9	38
76	Arbuscular mycorrhizal fungi (Glomeromycota) harbour ancient fungal tubulin genes that resemble those of the chytrids (Chytridiomycota). *Fungal Genetics and Biology*, **2004**, 41, 1037-45	3.9	38
75	Rapid mitochondrial genome evolution through invasion of mobile elements in two closely related species of arbuscular mycorrhizal fungi. *PLoS ONE*, **2013**, 8, e60768	3.7	35
74	Mitochondrial genome rearrangements in glomus species triggered by homologous recombination between distinct mtDNA haplotypes. *Genome Biology and Evolution*, **2013**, 5, 1628-43	3.9	33
73	Arbuscular mycorrhisation with Glomus irregulare induces expression of potato PR homologues genes in response to infection by Fusarium sambucinum. *Functional Plant Biology*, **2012**, 39, 236-245	2.7	32
72	Detection of a transient mitochondrial DNA heteroplasmy in the progeny of crossed genetically divergent isolates of arbuscular mycorrhizal fungi. *New Phytologist*, **2013**, 200, 211-221	9.8	32
71	Harnessing Bacterial Endophytes for Promotion of Plant Growth and Biotechnological Applications: An Overview. *Plants*, **2021**, 10,	4.5	32
70	Intra-isolate genome variation in arbuscular mycorrhizal fungi persists in the transcriptome. *Journal of Evolutionary Biology*, **2010**, 23, 1519-27	2.3	31
69	A fungal symbiont of plant-roots modulates mycotoxin gene expression in the pathogen Fusarium sambucinum. *PLoS ONE*, **2011**, 6, e17990	3.7	31
68	Strong linkage between plant and soil fungal communities along a successional coastal dune system. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	30

67	The arbuscular mycorrhizal fungus, Glomus irregulare, controls the mycotoxin production of Fusarium sambucinum in the pathogenesis of potato. *FEMS Microbiology Letters*, **2013**, 348, 46-51	2.9	29
66	Petroleum hydrocarbon contamination, plant identity and arbuscular mycorrhizal fungal (AMF) community determine assemblages of the AMF spore-associated microbes. *Environmental Microbiology*, **2016**, 18, 2689-704	5.2	28
65	Mitochondrial comparative genomics and phylogenetic signal assessment of mtDNA among arbuscular mycorrhizal fungi. *Molecular Phylogenetics and Evolution*, **2016**, 98, 74-83	4.1	28
64	Mating type gene homologues and putative sex pheromone-sensing pathway in arbuscular mycorrhizal fungi, a presumably asexual plant root symbiont. *PLoS ONE*, **2013**, 8, e80729	3.7	28
63	Use of arbuscular mycorrhizal fungi to improve the drought tolerance of Cupressus atlantica G. *Comptes Rendus - Biologies*, **2016**, 339, 185-196	1.4	28
62	Studying genome heterogeneity within the arbuscular mycorrhizal fungal cytoplasm. *Genome Biology and Evolution*, **2015**, 7, 505-21	3.9	27
61	A commercial seaweed extract structured microbial communities associated with tomato and pepper roots and significantly increased crop yield. *Microbial Biotechnology*, **2019**, 12, 1346-1358	6.3	23
60	Optimizing Polychlorinated Biphenyl Degradation by Flavonoid-Induced Cells of the Rhizobacterium Rhodococcus erythropolis U23A. *PLoS ONE*, **2015**, 10, e0126033	3.7	22
59	Plant Identity Shaped Rhizospheric Microbial Communities More Strongly Than Bacterial Bioaugmentation in Petroleum Hydrocarbon-Polluted Sediments. *Frontiers in Microbiology*, **2019**, 10, 2144	5.7	20
58	High richness of ectomycorrhizal fungi and low host specificity in a coastal sand dune ecosystem revealed by network analysis. *Ecology and Evolution*, **2016**, 6, 349-62	2.8	20
57	Molecular diagnostic toolkit for Rhizophagus irregularis isolate DAOM-197198 using quantitative PCR assay targeting the mitochondrial genome. *Mycorrhiza*, **2016**, 26, 721-33	3.9	19
56	Petroleum Contamination and Plant Identity Influence Soil and Root Microbial Communities While AMF Spores Retrieved from the Same Plants Possess Markedly Different Communities. *Frontiers in Plant Science*, **2017**, 8, 1381	6.2	18
55	Analysis of Arbuscular Mycorrhizal Fungal Inoculant Benchmarks. *Microorganisms*, **2020**, 9,	4.9	18
54	Inoculation with Does Not Alter Arbuscular Mycorrhizal Fungal Community Structure within the Roots of Corn, Wheat, and Soybean Crops. *Microorganisms*, **2020**, 8,	4.9	17
53	Arbuscular mycorrhizal fungal diversity associated with Eleocharis obtusa and Panicum capillare growing in an extreme petroleum hydrocarbon-polluted sedimentation basin. *FEMS Microbiology Letters*, **2015**, 362, fnv081	2.9	17
52	Allelic differences within and among sister spores of the arbuscular mycorrhizal fungus Glomus etunicatum suggest segregation at sporulation. *PLoS ONE*, **2013**, 8, e83301	3.7	16
51	Local fungi, willow and municipal compost effectively remediate petroleum-contaminated soil in the Canadian North. *Chemosphere*, **2019**, 220, 47-55	8.4	16
50	The Use of Mycorrhizae to Enhance Phosphorus Uptake: A Way Out the Phosphorus Crisis. *Journal of Biofertilizers & Biopesticides*, **2011**, 02,		15

49	Concentration of Petroleum-Hydrocarbon Contamination Shapes Fungal Endophytic Community Structure in Plant Roots. *Frontiers in Microbiology*, **2016**, 7, 685	5.7	15
48	Impact of 12-year field treatments with organic and inorganic fertilizers on crop productivity and mycorrhizal community structure. *Biology and Fertility of Soils*, **2013**, 49, 1109-1121	6.1	14
47	The complete Glomus intraradices mitochondrial genome sequence--a milestone in mycorrhizal research. *New Phytologist*, **2009**, 183, 3-6	9.8	14
46	Molecular characterization of chromosome termini of the arbuscular mycorrhizal fungus Glomus intraradices (Glomeromycota). *Fungal Genetics and Biology*, **2007**, 44, 1380-6	3.9	14
45	An ecological microsystem to treat waste oil contaminated soil: Using phytoremediation assisted by fungi and local compost, on a mixed-contaminant site, in a cold climate. *Science of the Total Environment*, **2019**, 672, 732-742	10.2	13
44	Ectomycorrhizal Fungal Inoculation of Significantly Increased Stem Biomass of and Decreased Lead, Tin, and Zinc, Soil Concentrations during the Phytoremediation of an Industrial Landfill. *Journal of Fungi (Basel, Switzerland)*, **2020**, 6,	5.6	13
43	Conserved Proteins of the RNA Interference System in the Arbuscular Mycorrhizal Fungus Rhizoglomus irregulare Provide New Insight into the Evolutionary History of Glomeromycota. *Genome Biology and Evolution*, **2018**, 10, 328-343	3.9	13
42	Pilot scale aided-phytoremediation of a co-contaminated soil. *Science of the Total Environment*, **2018**, 618, 753-764	10.2	12
41	Effect of Medicago sativa L. and compost on organic and inorganic pollutant removal from a mixed contaminated soil and risk assessment using ecotoxicological tests. *International Journal of Phytoremediation*, **2016**, 18, 1136-47	3.9	12
40	The mitochondrial genome of the glomeromycete Rhizophagus sp. DAOM 213198 reveals an unusual organization consisting of two circular chromosomes. *Genome Biology and Evolution*, **2014**, 7, 96-105	3.9	11
39	Arbuscular Mycorrhizal Fungal Assemblages Significantly Shifted upon Bacterial Inoculation in Non-Contaminated and Petroleum-Contaminated Environments. *Microorganisms*, **2020**, 8,	4.9	11
38	Intraisolate mitochondrial genetic polymorphism and gene variants coexpression in arbuscular mycorrhizal fungi. *Genome Biology and Evolution*, **2014**, 7, 218-27	3.9	11
37	Arbuscular mycorrhizal inoculum sources influence bacterial, archaeal, and fungal communitiesU structures of historically dioxin/furan-contaminated soil but not the pollutant dissipation rate. *Mycorrhiza*, **2018**, 28, 635-650	3.9	10
36	The Aromatic Plant Clary Sage Shaped Bacterial Communities in the Roots and in the Trace Element-Contaminated Soil More Than Mycorrhizal Inoculation - A Two-Year Monitoring Field Trial. *Frontiers in Microbiology*, **2020**, 11, 586050	5.7	9
35	Overview of Approaches to Improve Rhizoremediation of Petroleum Hydrocarbon-Contaminated Soils. *Applied Microbiology*, **2021**, 1, 329-351		9
34	Holobiont chronobiology: mycorrhiza may be a key to linking aboveground and underground rhythms. *Mycorrhiza*, **2019**, 29, 403-412	3.9	8
33	Independent mitochondrial and nuclear exchanges arising in Rhizophagus irregularis crossed-isolates support the presence of a mitochondrial segregation mechanism. *BMC Microbiology*, **2016**, 16, 11	4.5	8
32	Into the wild blueberry (Vaccinium angustifolium) rhizosphere microbiota. *Environmental Microbiology*, **2020**, 22, 3803-3822	5.2	7

31	Aided Phytoremediation to Clean Up Dioxins/Furans-Aged Contaminated Soil: correlation between microbial communities and pollutant dissipation. *Microorganisms*, **2019**, 7,	4.9	7
30	Comprehensive sampling of an isolated dune system demonstrates clear patterns in soil fungal communities across a successional gradient. *Environmental Microbiology Reports*, **2015**, 7, 839-48	3.7	7
29	Arbuscular Mycorrhizal Fungal Communities of Native Plant Species under High Petroleum Hydrocarbon Contamination Highlights as a Key Tolerant Genus. *Microorganisms*, **2020**, 8,	4.9	6
28	Bacterial Communities of the Canola Rhizosphere: Network Analysis Reveals a Core Bacterium Shaping Microbial Interactions. *Frontiers in Microbiology*, **2020**, 11, 1587	5.7	6
27	The use of fluorescent in situ hybridization in plant fungal identification and genotyping. *Methods in Molecular Biology*, **2009**, 508, 131-45	1.4	6
26	Similar Arbuscular Mycorrhizal Fungal Communities in 31 Durum Wheat Cultivars (L. var. durum) Under Field Conditions in Eastern Canada. *Frontiers in Plant Science*, **2020**, 11, 1206	6.2	6
25	Willows Used for Phytoremediation Increased Organic Contaminant Concentrations in Soil Surface. *Applied Sciences (Switzerland)*, **2021**, 11, 2979	2.6	6
24	The large (134.9 kb) mitochondrial genome of the glomeromycete Funneliformis mosseae. *Mycorrhiza*, **2016**, 26, 747-55	3.9	5
23	Expression of putative circadian clock components in the arbuscular mycorrhizal fungus Rhizoglomus irregulare. *Mycorrhiza*, **2018**, 28, 523-534	3.9	5
22	Tolerance of Microorganisms in Soil Contaminated with Trace Metals: An Overview **2017**, 165-193		5
21	Short Rotation Intensive Culture of Willow, Spent Mushroom Substrate and Ramial Chipped Wood for Bioremediation of a Contaminated Site Used for Land Farming Activities of a Former Petrochemical Plant. *Plants*, **2021**, 10,	4.5	4
20	Potential impacts of soil microbiota manipulation on secondary metabolites production in cannabis. *Journal of Cannabis Research*, **2021**, 3, 25	2.5	4
19	Object Weighting: A New Clustering Approach to Deal with Outliers and Cluster Overlap in Computational Biology. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2021**, 18, 633-643	3	4
18	Does Commercial Inoculation Promote Arbuscular Mycorrhizal Fungi Invasion?. *Microorganisms*, **2022**, 10,	4.9	3
17	The potential use of arbuscular mycorrhiza in the cultivation of medicinal plants in Barak Valley, Assam: A Review. *Current World Environment Journal*, **2014**, 9, 544-551	0.7	3
16	Expression of N-cycling genes of root microbiomes provides insights for sustaining oilseed crop production. *Environmental Microbiology*, **2020**, 22, 4545-4556	5.2	2
15	Physicochemical and Ecotoxicological Characterization of Petroleum Hydrocarbons and Trace Elements Contaminated Soil. *Polycyclic Aromatic Compounds*, **2020**, 40, 967-978	1.3	2
14	Phytate and Microbial Suspension Amendments Increased Soybean Growth and Shifted Microbial Community Structure. *Microorganisms*, **2021**, 9,	4.9	2

13	Fresh Compost Tea Application Does Not Change Rhizosphere Soil Bacterial Community Structure, and Has No Effects on Soybean Growth or Yield. *Plants*, **2021**, 10,	4.5	2
12	Diversity of Phosphate Chemical Forms in Soils and Their Contributions on Soil Microbial Community Structure Changes.. *Microorganisms*, **2022**, 10,	4.9	2
11	Inter-Kingdom Networks of Canola Microbiome Reveal Bradyrhizobium as Keystone Species and Underline the Importance of Bulk Soil in Microbial Studies to Enhance Canola Production. *Microbial Ecology*, **2021**, 1	4.4	1
10	SeSaMe: Metagenome Sequence Classification of Arbuscular Mycorrhizal Fungi-associated Microorganisms. *Genomics, Proteomics and Bioinformatics*, **2020**, 18, 601-612	6.5	1
9	SeSaMe PS Function: Functional Analysis of the Whole Metagenome Sequencing Data of the Arbuscular Mycorrhizal Fungi. *Genomics, Proteomics and Bioinformatics*, **2020**, 18, 613-623	6.5	1
8	Microbiome of Field Grown Hemp Reveals Potential Microbial Interactions With Root and Rhizosphere Soil. *Frontiers in Microbiology*, **2021**, 12, 741597	5.7	1
7	SeSaMe: Metagenome Sequence Classification of Arbuscular Mycorrhizal Fungi Associated Microorganisms		1
6	Clary Sage Cultivation and Mycorrhizal Inoculation Influence the Rhizosphere Fungal Community of an Aged Trace-Element Polluted Soil. *Microorganisms*, **2021**, 9,	4.9	1
5	and Rhizospheres Harbor a Diverse Rhizospheric Bacterial Community Characterized by Hydrocarbons Degradation Potentials and Plant Growth-Promoting Properties. *Plants*, **2021**, 10,	4.5	1
4	In-Depth Characterization of Plant Growth Promotion Potentials of Selected Alkanes-Degrading Plant Growth-Promoting Bacterial Isolates.. *Frontiers in Microbiology*, **2022**, 13, 863702	5.7	1
3	Long-Term Persistence of Arbuscular Mycorrhizal Fungi in the Rhizosphere and Bulk Soils of Non-host and Their Networks of Co-occurring Microbes.. *Frontiers in Plant Science*, **2022**, 13, 828145	6.2	0
2	The Effects of an Arbuscular Mycorrhizal Fungus and Rhizobium Symbioses on Soybean Aphid Mostly Fail to Propagate to the Third Trophic Level. *Microorganisms*, **2022**, 10, 1158	4.9	0
1	The effects of mycorrhizal colonization on phytophagous insects and their natural enemies in soybean fields. *PLoS ONE*, **2021**, 16, e0257712	3.7	