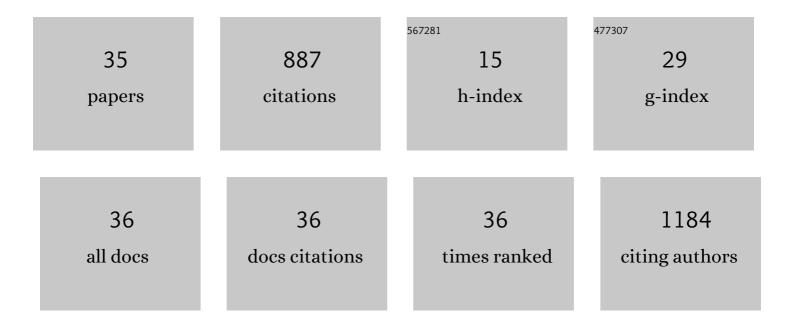
Nicolas Ayub

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Major cereal crops benefit from biological nitrogen fixation when inoculated with the nitrogenâ€fixing bacterium <i>Pseudomonas protegens</i> Pfâ€5 X940. Environmental Microbiology, 2016, 18, 3522-3534.	3.8	92
2	Acetoacetyl-CoA thiolase regulates the mevalonate pathway during abiotic stress adaptation. Journal of Experimental Botany, 2011, 62, 5699-5711.	4.8	87
3	TIP5;1 is an aquaporin specifically targeted to pollen mitochondria and is probably involved in nitrogen remobilization in Arabidopsis thaliana. Plant Journal, 2010, 64, 1038-1047.	5.7	82
4	Pollen-Specific Aquaporins NIP4;1 and NIP4;2 Are Required for Pollen Development and Pollination in <i>Arabidopsis thaliana</i> . Plant Cell, 2016, 28, 1053-1077.	6.6	78
5	New insight into the evolution of aquaporins from flowering plants and vertebrates: Orthologous identification and functional transfer is possible. Gene, 2012, 503, 165-176.	2.2	64
6	Engineering Pseudomonas protegens Pf-5 for Nitrogen Fixation and its Application to Improve Plant Growth under Nitrogen-Deficient Conditions. PLoS ONE, 2013, 8, e63666.	2.5	64
7	Prediction of Aquaporin Function by Integrating Evolutionary and Functional Analyses. Journal of Membrane Biology, 2014, 247, 107-125.	2.1	58
8	Alfalfa snakin-1 prevents fungal colonization and probably coevolved with rhizobia. BMC Plant Biology, 2014, 14, 248.	3.6	51
9	Hydroxybutyrate prevents protein aggregation in the halotolerant bacterium Pseudomonas sp. CT13 under abiotic stress. Extremophiles, 2012, 16, 455-462.	2.3	41
10	<scp>LOV</scp> â€domain photoreceptor, encoded in a genomic island, attenuates the virulence of <i><scp>P</scp>seudomonas syringae</i> in lightâ€exposed <scp>A</scp> rabidopsis leaves. Plant Journal, 2013, 76, 322-331.	5.7	26
11	Understanding the function of bacterial and eukaryotic thiolases II by integrating evolutionary and functional approaches. Gene, 2014, 533, 5-10.	2.2	22
12	Genetic diversity in a world germplasm collection of tall fescue. Genetics and Molecular Biology, 2013, 36, 237-242.	1.3	21
13	mRNA biogenesis-related helicase eIF4AIII from Arabidopsis thaliana is an important factor for abiotic stress adaptation. Plant Cell Reports, 2016, 35, 1205-1208.	5.6	20
14	High-quality forage production under salinity by using a salt-tolerant AtNXH1-expressing transgenic alfalfa combined with a natural stress-resistant nitrogen-fixing bacterium. Journal of Biotechnology, 2018, 276-277, 42-45.	3.8	19
15	Plant growth-promoting bacterium Pseudomonas fluorescens FR1 secrets a novel type of extracellular polyhydroxybutyrate polymerase involved in abiotic stress response in plants. Biotechnology Letters, 2018, 40, 1419-1423.	2.2	14
16	Efficient CRISPR/Cas9 Genome Editing in Alfalfa Using a Public Germplasm. Frontiers in Agronomy, 2021, 3, .	3.3	14
17	The Ammonium Channel NOD26 is the Evolutionary Innovation that Drives the Emergence, Consolidation, and Dissemination of Nitrogen-Fixing Symbiosis in Angiosperms. Journal of Molecular Evolution, 2018, 86, 554-565.	1.8	11
18	Microevolution Rather than Large Genome Divergence Determines the Effectiveness of Legume–Rhizobia Symbiotic Interaction Under Field Conditions. Journal of Molecular Evolution, 2017, 85, 79-83.	1.8	10

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19	Generation of a multi-herbicide-tolerant alfalfa by using base editing. Plant Cell Reports, 2022, 41, 493-495.	5.6	10
20	Exploring the Ancestral Mechanisms of Regulation of Horizontally Acquired Nitrogenases. Journal of Molecular Evolution, 2015, 81, 84-89.	1.8	9
21	Plant Growth-Promoting Genes can Switch to be Virulence Factors via Horizontal Gene Transfer. Microbial Ecology, 2018, 76, 579-583.	2.8	9
22	Maximizing the expression of transgenic traits into elite alfalfa germplasm using a supertransgene configuration in heterozygous conditions. Theoretical and Applied Genetics, 2018, 131, 1111-1123.	3.6	9
23	Absence of the Nitrous Oxide Reductase Gene Cluster in Commercial Alfalfa Inoculants Is Probably Due to the Extensive Loss of Genes During Rhizobial Domestication. Microbial Ecology, 2018, 76, 299-302.	2.8	9
24	Stable symbiotic nitrogen fixation under water-deficit field conditions by a stress-tolerant alfalfa microsymbiont and its complete genome sequence. Journal of Biotechnology, 2017, 263, 52-54.	3.8	8
25	Spontaneous Mutations in the Nitrate Reductase Gene napC Drive the Emergence of Eco-friendly Low-N2O-Emitting Alfalfa Rhizobia in Regions with Different Climates. Microbial Ecology, 2020, 79, 1044-1053.	2.8	8
26	Synthetic multi-antibiotic resistant plasmids in plant-associated bacteria from agricultural soils. Journal of Global Antimicrobial Resistance, 2020, 22, 113-116.	2.2	7
27	Exploring the Intrinsic Limits of Nitrogenase Transfer from Bacteria to Eukaryotes. Journal of Molecular Evolution, 2013, 77, 3-7.	1.8	6
28	Genetic analysis of environmental strains of the plant pathogen <i>Phytophthora capsici</i> reveals heterogeneous repertoire of effectors and possible effector evolution via genomic island. FEMS Microbiology Letters, 2015, 362, fnv189.	1.8	6
29	Elimination of ClnKAmtB affects serine biosynthesis and improves growth and stress tolerance of <i>Escherichia coli</i> under nutrient-rich conditions. FEMS Microbiology Letters, 2020, 367, .	1.8	4
30	pBAR–H3.2, a native-optimized binary vector to bypass transgene silencing in alfalfa. Plant Cell Reports, 2020, 39, 683-685.	5.6	3
31	Whole-Genome Resequencing of Spontaneous Oxidative Stress-Resistant Mutants Reveals an Antioxidant System of Bradyrhizobium japonicum Involved in Soybean Colonization. Microbial Ecology, 2022, 84, 1133-1140.	2.8	3
32	Expanding the Benefits of Tnt1 for the Identification of Dominant Mutations in Polyploid Crops: A Single Allelic Mutation in the MsNAC39 Gene Produces Multifoliated Alfalfa. Frontiers in Plant Science, 2021, 12, 805032.	3.6	2
33	Understanding the intracellular-to-extracellular localization switch of polyhydroxybutyrate polymerase in pseudomonas backgrounds as a microevolutionary process. Journal of Theoretical Biology, 2018, 456, 29-33.	1.7	1
34	Multiple ways to evade the bacteriostatic action of glyphosate in rhizobia include the mutation of the conserved serine 90 of the nitrogenase subunit NifH to alanine. Research in Microbiology, 2022, 173, 103952.	2.1	1
35	Exploring the Role of the NO-Detoxifying Enzyme HmpA in the Evolution of Domesticated Alfalfa Rhizobia. Microbial Ecology, 2021, , 1.	2.8	0