

Fabio L Olivares

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109
papers

4,845
citations

36
h-index

68
g-index

117
ext. papers

5,788
ext. citations

3.8
avg, IF

5.62
L-index

#	Paper	IF	Citations
109	Humic acids isolated from earthworm compost enhance root elongation, lateral root emergence, and plasma membrane H ⁺ -ATPase activity in maize roots. <i>Plant Physiology</i> , 2002 , 130, 1951-7	6.6	429
108	Humic and fulvic acids as biostimulants in horticulture. <i>Scientia Horticulturae</i> , 2015 , 196, 15-27	4.1	352
107	Infection and colonization of rice seedlings by the plant growth-promoting bacterium <i>Herbaspirillum seropedicae</i> Z67. <i>Molecular Plant-Microbe Interactions</i> , 2002 , 15, 894-906	3.6	291
106	Infection of sugar cane by the nitrogen-fixing bacterium <i>Acetobacter diazotrophicus</i> . <i>Journal of Experimental Botany</i> , 1994 , 45, 757-766	7	268
105	Physiological responses to humic substances as plant growth promoter. <i>Chemical and Biological Technologies in Agriculture</i> , 2014 , 1, 3	4.4	201
104	Infection and Colonization of Sugar Cane and Other Gramineaceous Plants by Endophytic Diazotrophs. <i>Critical Reviews in Plant Sciences</i> , 1998 , 17, 77-119	5.6	198
103	Infection and Colonization of Sugar Cane and Other Gramineaceous Plants by Endophytic Diazotrophs		179
102	Occurrence of the endophytic diazotrophs <i>Herbaspirillum</i> spp. in roots, stems, and leaves, predominantly of Gramineae. <i>Biology and Fertility of Soils</i> , 1996 , 21, 197-200	6.1	159
101	Improved methodology for isolation of <i>Acetobacter diazotrophicus</i> and confirmation of its endophytic habitat. <i>World Journal of Microbiology and Biotechnology</i> , 1994 , 10, 401-5	4.4	134
100	Nitric oxide mediates humic acids-induced root development and plasma membrane H ⁺ -ATPase activation. <i>Planta</i> , 2010 , 231, 1025-36	4.7	127
99	Chemical composition and bioactivity properties of size-fractions separated from a vermicompost humic acid. <i>Chemosphere</i> , 2010 , 78, 457-66	8.4	126
98	<i>Herbaspirillum</i> , an endophytic diazotroph colonizing vascular tissue 3 <i>Sorghum bicolor</i> L. Moench. <i>Journal of Experimental Botany</i> , 1997 , 48, 785-798	7	125
97	Infection of mottled stripe disease-susceptible and resistant sugar cane varieties by the endophytic diazotroph <i>Herbaspirillum</i> . <i>New Phytologist</i> , 1997 , 135, 723-737	9.8	125
96	Further observations on the interaction between sugar cane and <i>Gluconacetobacter diazotrophicus</i> under laboratory and greenhouse conditions. <i>Journal of Experimental Botany</i> , 2001 , 52, 747-60	7	112
95	Bioactivity of chemically transformed humic matter from vermicompost on plant root growth. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 3681-8	5.7	99
94	A combination of humic substances and <i>Herbaspirillum seropedicae</i> inoculation enhances the growth of maize (<i>Zea mays</i> L.). <i>Plant and Soil</i> , 2013 , 366, 119-132	4.2	92
93	Substrate biofortification in combination with foliar sprays of plant growth promoting bacteria and humic substances boosts production of organic tomatoes. <i>Scientia Horticulturae</i> , 2015 , 183, 100-108	4.1	81

92	Changes in labile phosphorus forms during maturation of vermicompost enriched with phosphorus-solubilizing and diazotrophic bacteria. <i>Bioresource Technology</i> , 2012 , 110, 390-5	11	80
91	Plant growth promotion by streptomycetes: ecophysiology, mechanisms and applications. <i>Chemical and Biological Technologies in Agriculture</i> , 2016 , 3,	4.4	58
90	Chemical properties of humic matter as related to induction of plant lateral roots. <i>European Journal of Soil Science</i> , 2012 , 63, 315-324	3.4	52
89	Bioactivity of humic acids isolated from vermicomposts at different maturation stages. <i>Plant and Soil</i> , 2013 , 362, 161-174	4.2	52
88	Relationships Between Chemical Characteristics and Root Growth Promotion of Humic Acids Isolated From Brazilian Oxisols. <i>Soil Science</i> , 2009 , 174, 611-620	0.9	51
87	Plant growth promoting bacteria and humic substances: crop promotion and mechanisms of action. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	50
86	Probing the hormonal activity of fractionated molecular humic components in tomato auxin mutants. <i>Annals of Applied Biology</i> , 2011 , 159, 202-211	2.6	50
85	Phylloepiphytic interaction between bacteria and different plant species in a tropical agricultural system. <i>Canadian Journal of Microbiology</i> , 2008 , 54, 918-31	3.2	47
84	Prediction of humic acids bioactivity using spectroscopy and multivariate analysis. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 95-102	3.8	46
83	Characterization of diazotrophic bacteria associated with maize: effect of plant genotype, ontogeny and nitrogen-supply. <i>World Journal of Microbiology and Biotechnology</i> , 2006 , 22, 967-974	4.4	45
82	Identification and characterization of <i>Gluconacetobacter diazotrophicus</i> mutants defective in the solubilization of phosphorus and zinc. <i>Archives of Microbiology</i> , 2009 , 191, 477-83	3	44
81	Bioatividade de ácidos húmicos: efeitos sobre o desenvolvimento radicular e sobre a bomba de prótons da membrana plasmática. <i>Pesquisa Agropecuária Brasileira</i> , 2002 , 37, 1301-1310	1.8	43
80	Technical approaches to inoculate micropropagated sugar cane plants were <i>Acetobacter diazotrophicus</i> . <i>Plant and Soil</i> , 1998 , 206, 205-211	4.2	40
79	Metabolic profile and antioxidant responses during drought stress recovery in sugarcane treated with humic acids and endophytic diazotrophic bacteria. <i>Annals of Applied Biology</i> , 2016 , 168, 203-213	2.6	40
78	Molecular characteristics of humic acids isolated from vermicomposts and their relationship to bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 11412-9	5.7	39
77	The Family Oxalobacteraceae 2014 , 919-974		39
76	Humic matter elicits proton and calcium fluxes and signaling dependent on Ca ²⁺ -dependent protein kinase (CDPK) at early stages of lateral plant root development. <i>Chemical and Biological Technologies in Agriculture</i> , 2015 , 2, 3	4.4	37
75	Desempenho do abacaxizeiro <i>Witfla</i> em resposta à aplicação de ácidos húmicos durante a aclimatação. <i>Revista Brasileira De Ciencia Do Solo</i> , 2009 , 33, 979-990	1.5	37

74	Endophytic colonization of <i>Arabidopsis thaliana</i> by <i>Gluconacetobacter diazotrophicus</i> and its effect on plant growth promotion, plant physiology, and activation of plant defense. <i>Plant and Soil</i> , 2016 , 399, 257-270	4.2	36
73	Characterization of glutamine synthetase genes in sugarcane genotypes with different rates of biological nitrogen fixation. <i>Plant Science</i> , 2005 , 169, 819-832	5.3	35
72	Humic substances from vermicompost enhance urban lettuce production. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 225-232	6.8	34
71	Root exudate profiling of maize seedlings inoculated with <i>Herbaspirillum seropedicae</i> and humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2014 , 1,	4.4	34
70	Genome sequencing and assessment of plant growth-promoting properties of a <i>Serratia marcescens</i> strain isolated from vermicompost. <i>BMC Genomics</i> , 2018 , 19, 750	4.5	34
69	Growth promotion of pineapple <i>WitBiaU</i> by humic acids and <i>Burkholderia</i> spp. during acclimatization. <i>Revista Brasileira De Ciencia Do Solo</i> , 2010 , 34, 1593-1600	1.5	31
68	From Lab to Field: Role of Humic Substances Under Open-Field and Greenhouse Conditions as Biostimulant and Biocontrol Agent. <i>Frontiers in Plant Science</i> , 2020 , 11, 426	6.2	30
67	Molecular characteristics of vermicompost and their relationship to preservation of inoculated nitrogen-fixing bacteria. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 540-550	6	30
66	Phosphorus speciation and high-affinity transporters are influenced by humic substances. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 206-214	2.3	27
65	Plant chemical priming by humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	27
64	Production of border cells and colonization of maize root tips by <i>Herbaspirillum seropedicae</i> are modulated by humic acid. <i>Plant and Soil</i> , 2017 , 417, 403-413	4.2	25
63	The type III secretion system is necessary for the development of a pathogenic and endophytic interaction between <i>Herbaspirillum rubrisubalbicans</i> and Poaceae. <i>BMC Microbiology</i> , 2012 , 12, 98	4.5	25
62	Soil organic matter and nutrient pools under long-term non-burning management of sugar cane. <i>European Journal of Soil Science</i> , 2010 , 61, 375-383	3.4	24
61	Plant microbiome structure and benefits for sustainable agriculture. <i>Current Plant Biology</i> , 2021 , 26, 100198	3.3	23
60	Structural Interaction Between GFP-Labeled Diazotrophic Endophytic Bacterium <i>Herbaspirillum seropedicae</i> RAM10 and Pineapple Plantlets <i>WitBiaU</i> <i>Brazilian Journal of Microbiology</i> , 2011 , 42, 114-25	2.2	22
59	Promoõ de enraizamento de microtoletes de cana-de-açúcar pelo uso conjunto de substâncias hñficas e bactñrias diazotrñficas endofñficas. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008 , 32, 1121-1128	1.5	22
58	Initial pH of medium affects organic acids production but do not affect phosphate solubilization. <i>Brazilian Journal of Microbiology</i> , 2015 , 46, 367-75	2.2	21
57	Changes in metabolic profiling of sugarcane leaves induced by endophytic diazotrophic bacteria and humic acids. <i>PeerJ</i> , 2018 , 6, e5445	3.1	21

56	Interaction between Humic Substances and Plant Hormones for Phosphorous Acquisition. <i>Agronomy</i> , 2020 , 10, 640	3.6	20
55	Seleção de bactérias promotoras de crescimento no abacaxizeiro cultivar Vitória durante a aclimatização. <i>Revista Brasileira De Ciencia Do Solo</i> , 2010 , 34, 349-360	1.5	20
54	Arbuscular mycorrhizal fungi induce differential activation of the plasma membrane and vacuolar H ⁺ pumps in maize roots. <i>Mycorrhiza</i> , 2009 , 19, 69-80	3.9	20
53	Mixed rhizobia and <i>Herbaspirillum seropedicae</i> inoculations with humic acid-like substances improve water-stress recovery in common beans. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	19
52	The biostimulant manufactured using diazotrophic endophytic bacteria and humates is effective to increase sugarcane yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	18
51	Evaluation of the effects of humic acids on maize root architecture by label-free proteomics analysis. <i>Scientific Reports</i> , 2019 , 9, 12019	4.9	17
50	Evaluation of molecular properties of humic acids from vermicompost by 13 C-CPMAS-NMR spectroscopy and thermochemolysis-MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 141, 1046-1063	6.4	17
49	The Amount of Phosphate Solubilization Depends on the Strain, C-Source, Organic Acids and Type of Phosphate. <i>Geomicrobiology Journal</i> , 2019 , 36, 232-242	2.5	15
48	Root growth of tomato seedlings intensified by humic substances from peat bogs. <i>Revista Brasileira De Ciencia Do Solo</i> , 2011 , 35, 1609-1617	1.5	15
47	Humic acids increase the maize seedlings exudation yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	14
46	Alkamides: a new class of plant growth regulators linked to humic acid bioactivity. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	14
45	Differential effects of salinity and osmotic stress on the plant growth-promoting bacterium <i>Gluconacetobacter diazotrophicus</i> PAL5. <i>Archives of Microbiology</i> , 2016 , 198, 287-94	3	13
44	Recobrimento de sementes de milho com ácidos húmicos e bactérias diazotróficas endofíticas. <i>Pesquisa Agropecuaria Brasileira</i> , 2008 , 43, 545-548	1.8	13
43	Metabolite fingerprints of maize and sugarcane seedlings: searching for markers after inoculation with plant growth-promoting bacteria in humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	11
42	Compost biofortification with diazotrophic and P-solubilizing bacteria improves maturation process and P availability. <i>Journal of the Science of Food and Agriculture</i> , 2017 , 97, 949-955	4.3	10
41	<i>Herbaspirillum seropedicae</i> and sugarcane endophytic interaction investigated by using high pressure freezing electron microscopy. <i>Brazilian Journal of Microbiology</i> , 2014 , 34, 69-71	2.2	10
40	Desiccation-induced viable but nonculturable state in <i>Pseudomonas putida</i> KT2440, a survival strategy. <i>PLoS ONE</i> , 2019 , 14, e0219554	3.7	9
39	Distribuição de massa molecular de ácidos húmicos e promoção do crescimento radicular. <i>Revista Brasileira De Ciencia Do Solo</i> , 2009 , 33, 1613-1623	1.5	9

38	Humic acids and <i>Herbaspirillum seropedicae</i> change the extracellular H ⁺ flux and gene expression in maize roots seedlings. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	8
37	Endophytic colonization of sugarcane (<i>Saccharum officinarum</i>) by the novel diazotrophs <i>Shinella</i> sp. UYSO24 and <i>Enterobacter</i> sp. UYSO10. <i>Plant and Soil</i> , 2016 , 403, 403-418	4.2	8
36	Highly specific host-pathogen interactions influence <i>Metarhizium brunneum</i> blastospore virulence against <i>Culex quinquefasciatus</i> larvae. <i>Virulence</i> , 2018 , 9, 1449-1467	4.7	8
35	Especificidade de anti-soro policlonal <i>Leifsonia xyli</i> subsp. <i>xyli</i> . <i>Tropical Plant Pathology</i> , 2004 , 29, 614-619		8
34	Humic Acids Interfere with Nutrient Sensing in Plants Owing to the Differential Expression of TOR. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 216-224	4.7	7
33	Population structure and pangenome analysis of <i>Enterobacter bugandensis</i> uncover the presence of bla _{TEM} , bla _{SHV} and bla _{CTXM} , along with sophisticated iron acquisition strategies. <i>Genomics</i> , 2020 , 112, 1182-1191	4.3	7
32	Hormonal imbalance triggered by rhizobacteria enhance nutrient use efficiency and biomass in oil palm. <i>Scientia Horticulturae</i> , 2020 , 264, 109161	4.1	6
31	Cuban zeolite as ammonium carrier in urea-based fertilizer pellets: Photoacoustic-based sensor for monitoring N-ammonia losses by volatilization in aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 35-40	8.5	6
30	Detection and cellular localization of <i>Xanthomonas campestris</i> pv. <i>viticola</i> in seeds of commercial Red Globe grapes. <i>Tropical Plant Pathology</i> , 2014 , 39, 134-140	2.5	6
29	Efeito dos ácidos húmicos na inoculação de bactérias diazotróficas endofíticas em sementes de milho. <i>Ciencia Rural</i> , 2009 , 39, 1880-1883	1.3	6
28	Humic acids trigger the weak acids stress response in maize seedlings. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	6
27	Crescimento de mudas de maracujazeiro-doce inoculadas com fungos micorrízicos arbusculares e bactérias diazotróficas sob diferentes doses de fósforo. <i>Revista Brasileira De Fruticultura</i> , 2012 , 34, 442-450	1.2	5
26	Initial growth of maize in response to application of rock phosphate, vermicompost and endophytic bacteria. <i>Revista Ceres</i> , 2012 , 59, 262-270	0.7	5
25	Inoculation with the endophytic bacterium <i>Herbaspirillum seropedicae</i> promotes growth, nutrient uptake and photosynthetic efficiency in rice. <i>Planta</i> , 2020 , 252, 87	4.7	5
24	Fungos micorrízicos arbusculares, bactérias diazotróficas e adubação fosfatada em mudas de mamoeiro. <i>Revista Brasileira De Fruticultura</i> , 2011 , 33, 932-940	1.2	4
23	Synthesis and role of melanin for tolerating rumen digestion in <i>Glomus</i> , a nematode-trapping fungus. <i>Mycology</i> , 2019 , 10, 229-242	3.7	3
22	Endophytic diazotrophic bacteria mitigate water deprivation effects in pineapple explants during acclimatization. <i>Theoretical and Experimental Plant Physiology</i> , 2020 , 32, 63-77	2.4	3
21	Altered bacteria community dominance reduces tolerance to resident fungus and seed to seedling growth performance in maize (<i>Zea mays</i> L. var. DKB 177). <i>Microbiological Research</i> , 2021 , 243, 126643	5.3	3

20	Acclimation with humic acids enhances maize and tomato tolerance to salinity. <i>Chemical and Biological Technologies in Agriculture</i> , 2021 , 8,	4.4	3
19	Rhizobacteria modify root architecture and improve nutrient uptake in oil palm seedlings despite reduced fertilizer. <i>Rhizosphere</i> , 2021 , 19, 100420	3.5	3
18	Genome sequencing of the vermicompost strain <i>Stenotrophomonas maltophilia</i> UENF-4GII and population structure analysis of the <i>S. maltophilia</i> Sm3 genogroup. <i>Microbiological Research</i> , 2021 , 255, 126923	5.3	2
17	Herbaspirillum 2020 , 493-508		2
16	The Free-Living Stage Growth Conditions of the Endophytic Fungus May Regulate Its Potential as Plant Growth Promoting Microbe. <i>Frontiers in Microbiology</i> , 2020 , 11, 562238	5.7	2
15	Fast Pyrolysis of Peanut Husk Agroindustrial Waste: Intensification of Anhydro Sugar (Levoglucosan) Production. <i>Waste and Biomass Valorization</i> , 2021 , 12, 5573-5585	3.2	2
14	Insights into the structure and role of seed-borne bacteriome during maize germination. <i>FEMS Microbiology Ecology</i> , 2021 , 97,	4.3	2
13	Promoting the growth of <i>Brachiaria decumbens</i> by humic acids (HAs). <i>Australian Journal of Crop Science</i> , 2018 , 12, 1114-1121	0.5	2
12	Attenuations of bacterial spot disease <i>Xanthomonas euvesicatoria</i> on tomato plants treated with biostimulants. <i>Chemical and Biological Technologies in Agriculture</i> , 2021 , 8,	4.4	2
11	Functional uncoupling of the tonoplast proton pump and its effect on the flesh gelling physiological disorder in papaya fruit. <i>Scientia Horticulturae</i> , 2015 , 187, 115-121	4.1	1
10	Transporte de <i>Xanthomonas vesicatoria</i> de sementes para plântulas e mudas de tomate. <i>Horticultura Brasileira</i> , 2013 , 31, 50-58	0.9	1
9	Diazotrophic bacteria and nitrogen fertilization on the growth of micropropagated pineapple plantlets during acclimatization. <i>Ciencia Rural</i> , 2016 , 46, 1952-1958	1.3	1
8	Mutualistic interaction of native <i>Serratia marcescens</i> UENF-22GI with <i>Trichoderma longibrachiatum</i> UENF-F476 boosting seedling growth of tomato and papaya. <i>World Journal of Microbiology and Biotechnology</i> , 2021 , 37, 211	4.4	1
7	Characterization of cellular, biochemical and genomic features of the diazotrophic plant growth-promoting bacterium <i>Azospirillum</i> sp. UENF-412522, a novel member of the <i>Azospirillum</i> genus. <i>Microbiological Research</i> , 2022 , 254, 126896	5.3	1
6	Quantitative proteomic analysis reveals altered enzyme expression profile in <i>Zea mays</i> roots during the early stages of colonization by <i>Herbaspirillum seropedicae</i> . <i>Proteomics</i> , 2021 , 21, e2000129	4.8	1
5	Soil Organic Matter Quality From Soils Cropped by Traditional Peasants. <i>Sustainable Agriculture Research</i> , 2014 , 3, 63	1	0
4	Plant growth promotion of micropropagated sugarcane seedlings var. Co 412 inoculated with endophytic diazotrophic bacteria and effects on the Ratoon Stunting Disease. <i>Australasian Plant Pathology</i> , 2021 , 50, 513	1.4	0
3	Performance of pineapple slips inoculated with diazotrophic phosphate-solubilizing bacteria and rock phosphate. <i>Revista Ceres</i> , 2014 , 61, 414-423	0.7	

2 Microbial inoculants in agriculture and its effects on plant microbiome **2022**, 151-169

1 Passion fruit plants treated with biostimulants induce defense-related and phytohormone-associated genes. *Plant Gene*, **2022**, 30, 100357

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