Francisco Javier Gutierrez-MaÃ±ero

List of Publications by Year
in descending order

73 papers	3,603 citations	117619 34 h-index	133244 59 g-index
73 all docs	73 docs citations	73 times ranked	3525 citing authors

#	Article	IF	Citations
1	The plant-growth-promoting rhizobacteria Bacillus pumilus and Bacillus licheniformis produce high amounts of physiologically active gibberellins. Physiologia Plantarum, 2001, 111, 206-211.	5.2	497
2	Bacterial siderophores efficiently provide iron to iron-starved tomato plants in hydroponics culture. Antonie Van Leeuwenhoek, 2013, 104, 321-330.	1.7	210
3	Isolation and characterization of new efficient and competitive bean (Phaseolus vulgaris L.) rhizobia from Brazil. Soil Biology and Biochemistry, 2000, 32, 1515-1528.	8.8	178
4	Protection Against Pathogen and Salt Stress by Four Plant Growth-Promoting Rhizobacteria Isolated from Pinus sp. on Arabidopsis thaliana. Phytopathology, 2008, 98, 666-672.	2.2	158
5	Combined Application of the Biological Product LS213 with Bacillus, Pseudomonas or Chryseobacterium for Growth Promotion and Biological Control of Soil-Borne Diseases in Pepper and Tomato. BioControl, 2006, 51, 245-258.	2.0	133
6	Use of two PGPR strains in the integrated management of blast disease in rice (Oryza sativa) in Southern Spain. Field Crops Research, 2009, 114, 404-410.	5.1	106
7	Systemic Disease Protection Elicited by Plant Growth Promoting Rhizobacteria Strains: Relationship Between Metabolic Responses, Systemic Disease Protection, and Biotic Elicitors. Phytopathology, 2008, 98, 451-457.	2.2	98
8	Pinus pinea L. seedling growth and bacterial rhizosphere structure after inoculation with PGPR Bacillus (B. licheniformis CECT 5106 and B. pumilus CECT 5105). Applied Soil Ecology, 2002, 20, 75-84.	4.3	97
9	Transgenic tomato plants alter quorum sensing in plant growthâ€promoting rhizobacteria. Plant Biotechnology Journal, 2008, 6, 442-452.	8.3	97
10	Interactions of arbuscular-mycorrhizal fungi and Bacillus strains and their effects on plant growth, microbial rhizosphere activity (thymidine and leucine incorporation) and fungal biomass (ergosterol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.3	96
11	Beneficial rhizobacteria from rice rhizosphere confers high protection against biotic and abiotic stress inducing systemic resistance in rice seedlings. Plant Physiology and Biochemistry, 2014, 82, 44-53.	5.8	95
12	The influence of native rhizobacteria on european alder (Alnus glutinosa (L.) Gaertn.) growth. Plant and Soil, 1996, 182, 59-66.	3.7	84
13	Low molecular weight organic acids and fatty acids in root exudates of twoLupinuscultivars at flowering and fruiting stages. Phytochemical Analysis, 2001, 12, 305-311.	2.4	77
14	The infuence of native rhizobacteria on European alder (Alnus glutinosa (L.) Gaertn.) growth. Plant and Soil, 1996, 182, 67-74.	3.7	76
15	Effects of inoculation with PGPR Bacillus and Pisolithus tinctorius on Pinus pinea L. growth, bacterial rhizosphere colonization, and mycorrhizal infection. Microbial Ecology, 2001, 41, 140-148.	2.8	74
16	Application of Pseudomonas fluorescens to Blackberry under Field Conditions Improves Fruit Quality by Modifying Flavonoid Metabolism. PLoS ONE, 2015, 10, e0142639.	2.5	74
17	Effect of inoculation ofBacillus licheniformison tomato and pepper. Agronomy for Sustainable Development, 2004, 24, 169-176.	0.8	68
18	Siderophore and chitinase producing isolates from the rhizosphere of Nicotiana glauca Graham enhance growth and induce systemic resistance in Solanum lycopersicum L.. Plant and Soil, 2010, 334, 189-197.	3.7	66

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19	RNA-Seq analysis and transcriptome assembly for blackberry (Rubus sp. Var. Lochness) fruit. BMC Genomics, 2015, 16, 5.	2.8	62
20	Priming of pathogenesis related-proteins and enzymes related to oxidative stress by plant growth promoting rhizobacteria on rice plants upon abiotic and biotic stress challenge. Journal of Plant Physiology, 2015, 188, 72-79.	3.5	60
21	Growth of forest plants (pine and holm-oak) inoculated with rhizobacteria: relationship with microbial community structure and biological activity of its rhizosphere. Environmental and Experimental Botany, 2004, 52, 239-251.	4.2	55
22	Elicitation of secondary metabolism inHypericum perforatumby rhizosphere bacteria and derived elicitors in seedlings and shoot cultures. Pharmaceutical Biology, 2012, 50, 1201-1209.	2.9	52
23	Genetic diversity of indigenous tropical fast-growing rhizobia isolated from soybean nodules. Plant and Soil, 2006, 288, 343-356.	3.7	51
24	Effect of inoculation with putative plant growth-promoting rhizobacteria isolated fromPinusspp. onPinus pineagrowth, mycorrhization and rhizosphere microbial communities. Journal of Applied Microbiology, 2008, 105, 1298-1309.	3.1	51
25	Effects of Culture Filtrates of Rhizobacteria Isolated from Wild Lupine on Germination, Growth, and Biological Nitrogen Fixation of Lupine Seedlings. Journal of Plant Nutrition, 2003, 26, 1101-1115.	1.9	50
26	Screening for Putative PGPR to Improve Establishment of the Symbiosis Lactarius deliciosus-Pinus sp.. Microbial Ecology, 2005, 50, 82-89.	2.8	49
27	Genetic variability of rhizobacteria from wild populations of fourLupinus species based on PCR-RAPDsÂ§. Journal of Plant Nutrition and Soil Science, 2001, 164, 1-7.	1.9	47
28	Survival of native Pseudomonas in soil and wheat rhizosphere and antagonist activity against plant pathogenic fungi. Antonie Van Leeuwenhoek, 2010, 97, 241-251.	1.7	45
29	Alterations in the rhizobacterial community associated with European alder growth when inoculated with PGPR strain Bacillus licheniformis. Environmental and Experimental Botany, 2003, 49, 61-68.	4.2	44
30	Elicitation of systemic resistance and growth promotion of Arabidopsis thaliana by PGPRs from Nicotiana glauca: a study of the putative induction pathway. Plant and Soil, 2007, 290, 43-50.	3.7	42
31	Transcriptomics, Targeted Metabolomics and Gene Expression of Blackberry Leaves and Fruits Indicate Flavonoid Metabolic Flux from Leaf to Red Fruit. Frontiers in Plant Science, 2017, 8, 472.	3.6	41
32	Biotic Elicitation of Isoflavone Metabolism with Plant Growth Promoting Rhizobacteria in Early Stages of Development in Glycine max var. Osumi. Journal of Agricultural and Food Chemistry, 2010, 58, 1484-1492.	5.2	39
33	The role of isoflavone metabolism in plant protection depends on theÂrhizobacterial MAMP that triggers systemic resistance against Xanthomonas axonopodis pv. glycines in Glycine max (L.) Merr. cv. Osumi. Plant Physiology and Biochemistry, 2014, 82, 9-16.	5.8	37
34	Enhanced blackberry production using Pseudomonas fluorescens as elicitor. Agronomy for Sustainable Development, 2013, 33, 385-392.	5.3	35
35	Systemic induction of the biosynthesis of terpenic compounds inDigitalis lanata. Journal of Plant Physiology, 2003, 160, 105-113.	3.5	31
36	Annual changes in bioactive contents and production in field-grown blackberry after inoculation with Pseudomonas fluorescens. Plant Physiology and Biochemistry, 2014, 74, 1-8.	5.8	30

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37	Effect of fire and retardant on soil microbial activity and functional diversity in a Mediterranean pasture. Geoderma, 2009, 153, 186-193.	5.1	29
38	Pseudomonas fluorescens N21.4 Metabolites Enhance Secondary Metabolism Isoflavones in Soybean (Glycine max) Calli Cultures. Journal of Agricultural and Food Chemistry, 2012, 60, 11080-11087.	5.2	28
39	Structural and functional study in the rhizosphere of Oryza sativa L. plants growing under biotic and abiotic stress. Journal of Applied Microbiology, 2013, 115, 218-235.	3.1	26
40	Bacterial Bioeffectors Modify Bioactive Profile and Increase Isoflavone Content in Soybean Sprouts (Glycine max var Osumi). Plant Foods for Human Nutrition, 2013, 68, 299-305.	3.2	26
41	Microbe associated molecular patterns from rhizosphere bacteria trigger germination and Papaver somniferum metabolism under greenhouse conditions. Plant Physiology and Biochemistry, 2014, 74, 133-140.	5.8	26
42	Combined phytoremediation of metal-working fluids with maize plants inoculated with different microorganisms and toxicity assessment of the phytoremediated waste. Chemosphere, 2013, 90, 2654-2661.	8.2	24
43	Separation and identification of organic acids in root exudates ofLupinus luteus by capillary zone electrophoresis. , 1999, 10, 55-59.		23
44	Screening for PGPR to improve growth of Cistus ladanifer seedlings for reforestation of degraded mediterranean ecosystems. Plant and Soil, 2006, 287, 59-68.	3.7	23
45	Oxidative stress in ryegrass growing under different air pollution levels and its likely effects on pollen allergenicity. Plant Physiology and Biochemistry, 2019, 135, 331-340.	5.8	23
46	Bacillus spp. and Pisolithus tinctorius effects on Quercus ilex ssp. ballota: a study on tree growth, rhizosphere community structure and mycorrhizal infection. Forest Ecology and Management, 2004, 194, 293-303.	3.2	21
47	Bacterial bioeffectors delay postharvest fungal growth and modify total phenolics, flavonoids and anthocyanins in blackberries. LWT - Food Science and Technology, 2015, 61, 437-443.	5.2	19
48	Title is missing!. New Forests, 2003, 25, 149-159.	1.7	17
49	Extracts from cultures of Pseudomonas fluorescens induce defensive patterns of gene expression and enzyme activity while depressing visible injury and reactive oxygen species in Arabidopsis thaliana challenged with pathogenic Pseudomonas syringae. AoB PLANTS, 2019, 11, plz049.	2.3	17
50	Colonization of pepper roots by a plant growth promoting Pseudomonas fluorescens strain. Biology and Fertility of Soils, 2003, 37, 381-385.	4.3	15
51	Supplementing Diet with Blackberry Extract Causes a Catabolic Response with Increments in Insulin Sensitivity in Rats. Plant Foods for Human Nutrition, 2015, 70, 170-175.	3.2	15
52	Seasonal diversity changes in alder (Alnus glutinosa) culturable rhizobacterial communities throughout a phenological cycle. Applied Soil Ecology, 2005, 29, 215-224.	4.3	14
53	Characterization of the rhizosphere microbial community from different Arabidopsis thaliana genotypes using phospholipid fatty acids (PLFA) analysis. Plant and Soil, 2010, 329, 315-325.	3.7	14
54	Spent metal working fluids produced alterations on photosynthetic parameters and cell-ultrastructure of leaves and roots of maize plants. Journal of Hazardous Materials, 2013, 260, 220-230.	12.4	13

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55	Increased microbial activity and nitrogen mineralization coupled to changes in microbial community structure in the rhizosphere of Bt corn. Applied Soil Ecology, 2013, 68, 46-56.	4.3	13
56	Method development for determination of (+)â€catechin and (â^')â€epicatechin by micellar electrokinetic chromatography: Annual characterization of field grown blackberries. Electrophoresis, 2013, 34, 2251-2258.	2.4	13
57	Management of Plant Physiology with Beneficial Bacteria to Improve Leaf Bioactive Profiles and Plant Adaptation under Saline Stress in Olea europea L.. Foods, 2020, 9, 57.	4.3	13
58	Functional diversity of rhizosphere microorganisms from different genotypes ofArabidopsis thaliana. Community Ecology, 2009, 10, 111-119.	0.9	11
59	Biotic elicitation as a tool to improve strawberry and raspberry extract potential on metabolic syndromeâ€related enzymes in vitro. Journal of the Science of Food and Agriculture, 2019, 99, 2939-2946.	3.5	11
60	Lemna minor tolerance to metalâ€working fluid residues: implications for rhizoremediation. Plant Biology, 2016, 18, 695-702.	3.8	10
61	Effect of alder(Alnus glutinosaL. Gaertn.) roots on distribution of proteolytic, ammonifying, and nitrifying bacteria in soil. Geomicrobiology Journal, 1995, 13, 129-138.	2.0	8
62	Functional diversity and dynamics of bacterial communities in a membrane bioreactor for the treatment of metal-working fluid wastewater. Journal of Water and Health, 2015, 13, 1006-1019.	2.6	8
63	Title is missing!. Plant Growth Regulation, 1997, 22, 145-149.	3.4	7
64	Bioeffectors as Biotechnological Tools to Boost Plant Innate Immunity: Signal Transduction Pathways Involved. Plants, 2020, 9, 1731.	3.5	7
65	Seasonal changes in physiological groups of bacteria that participate in the nitrogen cycle in the rhizosphere of the alder. Geomicrobiology Journal, 1993, 11, 133-140.	2.0	4
66	Changes of enzyme activities related to oxidative stress in rice plants inoculated with random mutants of a Pseudomonas fluorescens strain able to improve plant fitness upon biotic and abiotic conditions. Functional Plant Biology, 2017, 44, 1063.	2.1	4
67	Tomato Bio-Protection Induced by Pseudomonas fluorescens N21.4 Involves ROS Scavenging Enzymes and PRs, without Compromising Plant Growth. Plants, 2021, 10, 331.	3.5	4
68	Lipo-Chitooligosaccharides (LCOs) as Elicitors of the Enzymatic Activities Related to ROS Scavenging to Alleviate Oxidative Stress Generated in Tomato Plants under Stress by UV-B Radiation. Plants, 2022, 11, 1246.	3.5	4
69	Evaluation of biocontrol agro-techniques against R. solani: study of microbial communities catabolic profile modifications. Journal of Agricultural Science, 2011, 149, 595-607.	1.3	2
70	Phytoremediation of Contaminated Waters to Improve Water Quality. , 2015, , 11-26.		2
71	Photosynthetic and Ultrastructure Parameters of Maize Plants are Affected During the Phyto-Rhizoremediation Process of Degraded Metal Working Fluids. International Journal of Phytoremediation, 2015, 17, 1183-1191.	3.1	2
72	Search for New Allergens in Lolium perenne Pollen Growing under Different Air Pollution Conditions by Comparative Transcriptome Study. Plants, 2020, 9, 1507.	3.5	1

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73	Beneficial Microorganisms: The Best Partner to Improve Plant Adaptative Capacity. Biology and Life Sciences Forum, 2020, 4, .	0.6	1