

Sergio de los Santos Villalobos

List of Publications by Year in descending order

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82
papers

1,454
citations

331670

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h-index

377865

34
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86
all docs

86
docs citations

86
times ranked

992
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant growth-promoting bacterial endophytes as biocontrol agents of pre- and post-harvest diseases: Fundamentals, methods of application and future perspectives. <i>Microbiological Research</i> , 2021, 242, 126612.	5.3	147
2	Plant Growth Stimulation by Microbial Consortia. <i>Agronomy</i> , 2021, 11, 219.	3.0	131
3	<i>Bacillus subtilis</i> TE3: A promising biological control agent against <i>Bipolaris sorokiniana</i> , the causal agent of spot blotch in wheat (<i>Triticum turgidum</i> L. subsp. durum). <i>Biological Control</i> , 2019, 132, 135-143.	3.0	72
4	<i>Burkholderia cepacia</i> XXVI siderophore with biocontrol capacity against <i>Colletotrichum gloeosporioides</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 2615-2623.	3.6	68
5	<i>Burkholderia ambifaria</i> and <i>B. caribensis</i> Promote Growth and Increase Yield in Grain Amaranth (<i>Amaranthus cruentus</i> and <i>A. hypochondriacus</i>) by Improving Plant Nitrogen Uptake. <i>PLoS ONE</i> , 2014, 9, e88094.	2.5	49
6	Potential use of <i>Trichoderma asperellum</i> (Samuels, Liechfeldt et Nirenberg) T8a as a biological control agent against anthracnose in mango (<i>Mangifera indica</i> L.). <i>Biological Control</i> , 2013, 64, 37-44.	3.0	48
7	Plant-assisted selection: a promising alternative for in vivo identification of wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T65	3.7	45
8	El género <i>Bacillus</i> como agente de control biológico y sus implicaciones en la bioseguridad agrícola. <i>Revista Mexicana De Fitopatología</i> , 2017, 36, .	0.1	44
9	Salt-tolerant <i>Bacillus</i> species as a promising strategy to mitigate the salinity stress in wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T65	2.4	40
10	<i>Bacillus cabrialesii</i> sp. nov., an endophytic plant growth promoting bacterium isolated from wheat (<i>Triticum turgidum</i> subsp. durum) in the Yaqui Valley, Mexico. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 3939-3945.	1.7	40
11	Biofouling performance of RO membranes coated with Iron NPs on graphene oxide. <i>Desalination</i> , 2019, 451, 45-58.	8.2	39
12	Methods for Detecting Biocontrol and Plant Growth-Promoting Traits in Rhizobacteria. <i>Rhizosphere Biology</i> , 2019, , 133-149.	0.6	37
13	Root-knot nematodes (<i>Meloidogyne</i> spp.) a threat to agriculture in Mexico: biology, current control strategies, and perspectives. <i>World Journal of Microbiology and Biotechnology</i> , 2022, 38, 26.	3.6	36
14	Extraction of high-quality RNA from <i>Bacillus subtilis</i> with a lysozyme pre-treatment followed by the Trizol method. <i>Journal of Microbiological Methods</i> , 2018, 147, 14-16.	1.6	35
15	First use of a compound-specific stable isotope (CSSI) technique to trace sediment transport in upland forest catchments of Chile. <i>Science of the Total Environment</i> , 2018, 618, 1114-1124.	8.0	35
16	Draft genome sequence of <i>Bacillus paralicheniformis</i> TRQ65, a biological control agent and plant growth-promoting bacterium isolated from wheat (<i>Triticum turgidum</i> subsp. durum) rhizosphere in the Yaqui Valley, Mexico. <i>3 Biotech</i> , 2019, 9, 436.	2.2	32
17	The Current and Future Role of Microbial Culture Collections in Food Security Worldwide. <i>Frontiers in Sustainable Food Systems</i> , 2021, 4, .	3.9	28
18	Growth Promotion and Flowering Induction in Mango (<i>Mangifera indica</i> L. cv 'Ataulfo') Trees by <i>Burkholderia</i> and <i>Rhizobium</i> Inoculation: Morphometric, Biochemical, and Molecular Events. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 615-627.	5.1	27

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19	Amelioration of thermal stress in crops by plant growth-promoting rhizobacteria. <i>Physiological and Molecular Plant Pathology</i> , 2021, 115, 101679.	2.5	26
20	Integrated omics approaches for deciphering antifungal metabolites produced by a novel <i>Bacillus</i> species, <i>B. cabrialesii</i> TE3T, against the spot blotch disease of wheat (<i>Triticum turgidum</i> L. subsp.) <i>Tj ETQq0 0 0 rgBT / Overlock</i> 10 Tf 50	2.4	25
21	Colmena: colección de microorganismos edáficos y endófitos nativos, para contribuir a la seguridad alimentaria nacional. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2018, 9, 191-202.	0.2	22
22	Chlorothalonil tolerance of indole producing bacteria associated to wheat (<i>Triticum turgidum</i> L.) rhizosphere in the Yaqui Valley, Mexico. <i>Ecotoxicology</i> , 2019, 28, 569-577.	2.4	22
23	Draft genome analysis of the endophyte, <i>Bacillus toyonensis</i> COPE52, a blueberry (<i>Vaccinium</i> spp. var.) <i>Tj ETQq1 1 0.784314 rgBT / Overlock</i> 2F	2.2	21
24	Impacts of Arbuscular Mycorrhizal Fungi on Rice Growth, Development, and Stress Management With a Particular Emphasis on Strigolactone Effects on Root Development. <i>Communications in Soil Science and Plant Analysis</i> , 2021, 52, 1591-1621.	1.4	21
25	COLMENA: A Culture Collection of Native Microorganisms for Harnessing the Agro-Biotechnological Potential in Soils and Contributing to Food Security. <i>Diversity</i> , 2021, 13, 337.	1.7	19
26	Exploring innovative techniques for identifying geochemical elements as fingerprints of sediment sources in an agricultural catchment of Argentina affected by soil erosion. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20868-20879.	5.3	18
27	Technical note: Gamma irradiation induces changes of phenotypic and agronomic traits in wheat (<i>Triticum turgidum</i> ssp. durum). <i>Applied Radiation and Isotopes</i> , 2021, 167, 109490.	1.5	18
28	Bridging genomics and field research: draft genome sequence of <i>Bacillus thuringiensis</i> CR71, an endophytic bacterium that promotes plant growth and fruit yield in <i>Cucumis sativus</i> L. <i>3 Biotech</i> , 2020, 10, 220.	2.2	17
29	First Report of <i>Cochliobolus sativus</i> Causing Spot Blotch on Durum Wheat (<i>Triticum</i>) <i>Tj ETQq1 1 0.784314 rgBT / Overlock</i> 10 Tf 15	1.4	15
30	Promoción de crecimiento en trigo (<i>Triticum turgidum</i> L. subsp. durum) por la co-inoculación de cepas nativas de <i>Bacillus</i> aisladas del Valle del Yaqui, México. <i>Nova Scientia</i> , 2020, 12, .	0.1	15
31	Draft genome of the fungicidal biological control agent <i>Burkholderia anthina</i> strain XXVI. <i>Archives of Microbiology</i> , 2018, 200, 803-810.	2.2	14
32	Water regime and osmotic adjustment under warming conditions on wheat in the Yaqui Valley, Mexico. <i>PeerJ</i> , 2019, 7, e7029.	2.0	14
33	5-Aminolevulinic Acid and 24-Epibrassinolide Improve the Drought Stress Resilience and Productivity of Banana Plants. <i>Plants</i> , 2022, 11, 743.	3.5	14
34	A modified CTAB and Trizol protocol for high-quality RNA extraction from whole wheat seedlings, including rhizosphere. <i>Cereal Research Communications</i> , 2020, 48, 275-282.	1.6	12
35	Lipóptidos producidos por agentes de control biológico del género <i>Bacillus</i> : revisión de herramientas analíticas utilizadas para su estudio. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2020, 11, 419-432.	0.2	12
36	Strategy of Nematophagous Fungi in Determining the Activity of Plant Parasitic Nematodes and Their Prospective Role in Sustainable Agriculture. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	2.0	12

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37	Draft genome sequence of <i>Bacillus megaterium</i> TRQ8, a plant growth-promoting bacterium isolated from wheat (<i>Triticum turgidum</i> subsp. <i>durum</i>) rhizosphere in the Yaqui Valley, Mexico. <i>3 Biotech</i> , 2019, 9, 201.	2.2	11
38	Beneficial Microorganisms in Sustainable Agriculture: Harnessing Microbesâ€™ Potential to Help Feed the World. <i>Plants</i> , 2022, 11, 372.	3.5	11
39	Functional and Genomic Analysis of <i>Rouxiella badensis</i> SER3 as a Novel Biocontrol Agent of Fungal Pathogens. <i>Frontiers in Microbiology</i> , 2021, 12, 709855.	3.5	10
40	Mejorando rasgos biomÃ©tricos de plÃ¡ntulas de trigo con la inoculaciÃ³n de un consorcio nativo de <i>Bacillus</i> . <i>Revista Mexicana De Ciencias Agrícolas</i> , 2020, 11, 229-235.	0.2	9
41	Characterization of native plant growth-promoting bacteria (PGPB) and their effect on the development of maize (<i>Zea Mays</i> L.). <i>Biotecnia</i> , 2022, 24, 15-22.	0.3	9
42	PRODUCTION OF <i>Trichoderma asperellum</i> T8a SPORES BY A "HOME-MADE" SOLID-STATE FERMENTATION OF MANGO INDUSTRIAL WASTES. <i>BioResources</i> , 2012, 7, .	1.0	8
43	Biofouling of FeNP-Coated SWRO Membranes with Bacteria Isolated after Pre-Treatment in the Sea of Cortez. <i>Coatings</i> , 2019, 9, 462.	2.6	8
44	Gamma radiosensitivity study on wheat (<i>Triticum turgidum</i> ssp. <i>durum</i>). <i>Open Agriculture</i> , 2020, 5, 558-562.	1.7	8
45	Transcriptional regulation of cell growth and reprogramming of systemic response in wheat (<i>Triticum turgidum</i> subsp. <i>durum</i>) seedlings by <i>Bacillus paralicheniformis</i> TRQ65. <i>Planta</i> , 2022, 255, 56.	3.2	8
46	Plant Growth Promotion by ACC Deaminase-Producing Bacilli Under Salt Stress Conditions. <i>Bacilli in Climate Resilient Agriculture and Bioprospecting</i> , 2019, , 81-95.	1.2	7
47	Current trends in plant growth-promoting microorganisms research for sustainable food security. <i>Current Research in Microbial Sciences</i> , 2021, 2, 100016.	2.3	7
48	The CSSIAR v.1.00 Software: A new tool based on SIAR to assess soil redistribution using Compound Specific Stable Isotopes. <i>SoftwareX</i> , 2017, 6, 13-18.	2.6	6
49	Isolation of Moderately Halophilic Bacteria in Saline Environments of Sonora State Searching for Proteolytic Hydrolases. <i>Open Agriculture</i> , 2018, 3, 207-213.	1.7	6
50	UtilizaciÃ³n de microorganismos para una agricultura sostenible en MÃ©xico: consideraciones y retos. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2021, 12, 899-913.	0.2	6
51	Efecto sinérgico de <i>Trichoderma asperellum</i> T8A y captan 50Â® contra <i>Colletotrichum gloeosporioides</i> . <i>Revista Mexicana De Ciencias Agrícolas</i> , 2016, 7, 1401-1412.	0.2	6
52	Diversidad metabólica de microorganismos edáficos asociados al cultivo de maíz en el Valle del Yaqui, Sonora. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2018, 9, 431-442.	0.2	6
53	<i>Bacillus</i> sp. FSQ1: a Promising Biological Control Agent Against <i>Sclerotinia sclerotiorum</i> , the Causal Agent of white Mold in Common Bean (<i>Phaseolus vulgaris</i> L.). <i>Biology Bulletin</i> , 2021, 48, 729-739.	0.5	6
54	Omics sciences potential on bioprospecting of biological control microbial agents: the case of the Mexican agro-biotechnology. <i>Revista Mexicana De Fitopatología</i> , 2020, 39, .	0.1	5

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55	Bacillus rugosus sp. nov. producer of a diketopiperazine antimicrobial, isolated from marine sponge Spongia officinalis L.. Antonie Van Leeuwenhoek, 2020, 113, 1675-1687.	1.7	4
56	Consideraciones sobre el uso de biofertilizantes como alternativa agro- biotecnológica sostenible para la seguridad alimentaria en México. Revista Mexicana De Ciencias Agrícolas, 2020, 11, 1423-1436.	0.2	4
57	Transcriptional Regulation of Metabolic and Cellular Processes in Durum Wheat (Triticum turgidum) Tj ETQq1 1 0.784314 rgBT /Overl	3.5	4
58	Abiotic stress tolerance of microorganisms associated with oregano (Origanum vulgare L.) in the Yaqui Valley, Sonora. Open Agriculture, 2017, 2, .	1.7	3
59	Biofouling Studies on Thin Film Composite Membranes for Reverse Osmosis Desalination Processes. , 2017, , 99-104.		3
60	Reduction in concentration of chromium (VI) by Lysinibacillus macroides isolated from sediments of the Chapala Lake, Mexico. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20190144.	0.8	3
61	IMPACTO DEL CAMBIO EN EL MANEJO DEL CULTIVO DE TRIGO DE CONVENCIONAL A ORGÁNICO SOBRE LAS COMUNIDADES FÚNGICAS CULTIVABLES DEL SUELO EN EL VALLE DEL YAQUI, MÉXICO. Agrociencia, 2020, 54,0.1 643-659.		3
62	Draft genome sequence of Bacillus sp. strain FSQ1, a biological control agent against white mold in common bean (Phaseolus vulgaris L.). Current Research in Microbial Sciences, 2022, 3, 100138.	2.3	3
63	Removal of endosulfan in a sequencing batch reactor: addition of granular activated carbon as improvement strategy. Water and Environment Journal, 2021, 35, 390-401.	2.2	2
64	Primer reporte de marchitamiento por Fusarium en Citrus sinensis var. Valencia en el Valle del Yaqui, México. Revista Mexicana De Fitopatología, 2018, 37, .	0.1	2
65	Selección de cepas productoras de enzimas ligninolíticas nativas del Valle del Yaqui. Nova Scientia, 2017, 9, 24.	0.1	2
66	ISÓTOPOS ESTABLES DE COMPUESTOS ESPECÍFICOS PARA ESTIMAR LA REDISTRIBUCIÓN DEL SUELO POR EVENTOS EROSIVOS. Agrociencia, 2020, 54, 601-618.	0.1	2
67	Primer reporte de Lasiodiplodia en plantas de zarzamora (Rubus subgénero Eubatus) en el estado de Michoacan, Mexico. Revista Mexicana De Fitopatología, 2019, 37, .	0.1	2
68	Rice (Oryza sativa L.) plant protection using dual biological control and plant growth-promoting agents: Current scenarios and future prospects. Pedosphere, 2023, 33, 268-286.	4.0	2
69	Draft Genome Sequence of Bacillus sp. Strain SPB7, Isolated from the Marine Sponge Spongia officinalis. Microbiology Resource Announcements, 2020, 9, .	0.6	1
70	Using a COI mini-barcode and real-time PCR (qPCR) for sea turtle identification in processed food. Journal of Food Processing and Preservation, 2021, 45, e15808.	2.0	1
71	Exploring Relationship between Perception Indicators and Mitigation Behaviors of Soil Erosion in Undergraduate Students in Sonora, Mexico. Sustainability, 2021, 13, 9282.	3.2	1
72	Extracellular Polymeric Substances from Agriculturally Important Microorganisms. , 2021, , 217-234.		1

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73	Description of a Polyphasic Taxonomic Approach for Plant Growth-Promoting Rhizobacteria (PGPR). , 2020, , 259-269.		1
74	Using Geochemical Fingerprints for Assessing Sediment Source Apportionment in an Agricultural Catchment in Central Argentina. Water (Switzerland), 2021, 13, 3632.	2.7	1
75	REMOVAL OF Pb AND As BY BACTERIA ISOLATED FROM SEDIMENTS OF LAS VÁRGENES DAM AND RÃO CONCHOS IN THE STATE OF CHIHUAHUA, MEXICO. Applied Ecology and Environmental Research, 2022, 20, 2817-2829.	0.5	1
76	Complete Genome Sequence of Bacillus sp. Strain IGA-FME-1, Isolated from the Bulk Soil of Maize (Zea) Tj ETQq0 0,0 rgBT /Overlock 10	0.6	0
77	Draft Genome Sequence of <i>Bacillus</i> sp. Strain IGA-FME-2, Isolated from the Bulk Soil of Soybean (Glycine max L.) in Northeast China. Microbiology Resource Announcements, 2021, 10, .	0.6	0
78	A new collection of native endophytic and soil microorganisms with potential agricultural and industrial uses: COLMENA. Journal of Microbial & Biochemical Technology, 2016, 08, .	0.2	0
79	Origen de suelos depositados en la subcuenca del rÃo TapacalÃ-(Madriz, Nicaragua) mediante el uso de la tÃ©cnica de isÃ³topos estables de compuestos especÃficos. Aqua-lac, 2018, 10, 51-60.	0.1	0
80	Draft Genome Sequence of a Bacterium Isolated from Hypersaline Soil in Sonora, Mexico: <i>Halomonas</i> sp. Strain BLLS135. Microbiology Resource Announcements, 2022, 11, e0140920.	0.6	0
81	Microbial genetic resources in food security to face COVID-19 pandemic. Revista Mexicana De Fitopatologia, 2022, 39, .	0.1	0
82	Changes in the research conduction on agro-biotechnology due to COVID-19: The case of LBRM-COLMENA Research Node. Revista Mexicana De Fitopatologia, 2022, 39, .	0.1	0