

# Sergio de los Santos Villalobos

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,454  
citations

331670

21  
h-index

377865

34  
g-index

86  
all docs

86  
docs citations

86  
times ranked

992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rice ( <i>Oryza sativa</i> L.) plant protection using dual biological control and plant growth-promoting agents: Current scenarios and future prospects. <i>Pedosphere</i> , 2023, 33, 268-286.	4.0	2
2	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
3	Beneficial Microorganisms in Sustainable Agriculture: Harnessing Microbesâ€™ Potential to Help Feed the World. <i>Plants</i> , 2022, 11, 372.	3.5	11
4	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
5	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
6	Draft Genome Sequence of a Bacterium Isolated from Hypersaline Soil in Sonora, Mexico: <i>Halomonas</i> sp. Strain BLLS135. <i>Microbiology Resource Announcements</i> , 2022, 11, e0140920.	0.6	0
7	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
8	Microbial genetic resources in food security to face COVID-19 pandemic. <i>Revista Mexicana De Fitopatologia</i> , 2022, 39, .	0.1	0
9	Changes in the research conduction on agro-biotechnology due to COVID-19: The case of LBRM-COLMENA Research Node. <i>Revista Mexicana De Fitopatologia</i> , 2022, 39, .	0.1	0
10	Draft genome sequence of <i>Bacillus</i> sp. strain FSQ1, a biological control agent against white mold in common bean ( <i>Phaseolus vulgaris</i> L.). <i>Current Research in Microbial Sciences</i> , 2022, 3, 100138.	2.3	3
11	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
12	REMOVAL OF Pb AND As BY BACTERIA ISOLATED FROM SEDIMENTS OF LAS VÁRGENES DAM AND RÃO CONCHOS IN THE STATE OF CHIHUAHUA, MEXICO. <i>Applied Ecology and Environmental Research</i> , 2022, 20, 2817-2829.	0.5	1
13	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
14	Removal of endosulfan in a sequencing batch reactor: addition of granular activated carbon as improvement strategy. <i>Water and Environment Journal</i> , 2021, 35, 390-401.	2.2	2
15	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 /Over	2.4	40
16	Technical note: Gamma irradiation induces changes of phenotypic and agronomic traits in wheat ( <i>Triticum turgidum</i> ssp. <i>durum</i> ). <i>Applied Radiation and Isotopes</i> , 2021, 167, 109490.	1.5	18
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	Plant Growth Stimulation by Microbial Consortia. <i>Agronomy</i> , 2021, 11, 219.	3.0	131

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19	Reduction in concentration of chromium (VI) by <i>Lysinibacillus macroides</i> isolated from sediments of the Chapala Lake, Mexico. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20190144.	0.8	3
20	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
21	Complete Genome Sequence of <i>Bacillus</i> sp. Strain IGA-FME-1, Isolated from the Bulk Soil of Maize ( <i>Zea mays</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 5	0.6	0
22	Draft Genome Sequence of <i>Bacillus</i> sp. Strain IGA-FME-2, Isolated from the Bulk Soil of Soybean ( <i>Glycine max</i> L.) in Northeast China. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	0
23	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
24	Utilización de microorganismos para una agricultura sostenible en México: consideraciones y retos. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2021, 12, 899-913.	0.2	6
25	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
26	Using a COI mini-barcode and real-time PCR (qPCR) for sea turtle identification in processed food. <i>Journal of Food Processing and Preservation</i> , 2021, 45, e15808.	2.0	1
27	Amelioration of thermal stress in crops by plant growth-promoting rhizobacteria. <i>Physiological and Molecular Plant Pathology</i> , 2021, 115, 101679.	2.5	26
28	Exploring Relationship between Perception Indicators and Mitigation Behaviors of Soil Erosion in Undergraduate Students in Sonora, Mexico. <i>Sustainability</i> , 2021, 13, 9282.	3.2	1
29	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.) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 5	0.6	0
30	Extracellular Polymeric Substances from Agriculturally Important Microorganisms. , 2021, , 217-234.		1
31	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
32	Transcriptional Regulation of Metabolic and Cellular Processes in Durum Wheat ( <i>Triticum turgidum</i> ) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 5	3.5	4
33	<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
34	Using Geochemical Fingerprints for Assessing Sediment Source Apportionment in an Agricultural Catchment in Central Argentina. <i>Water (Switzerland)</i> , 2021, 13, 3632.	2.7	1
35	Draft Genome Sequence of <i>Bacillus</i> sp. Strain SPB7, Isolated from the Marine Sponge <i>Spongia officinalis</i> . <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
36	<i>Bacillus rugosus</i> sp. nov. producer of a diketopiperazine antimicrobial, isolated from marine sponge <i>Spongia officinalis</i> L.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1675-1687.	1.7	4

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37	A modified CTAB and Trizol <sup>®</sup> protocol for high-quality RNA extraction from whole wheat seedlings, including rhizosphere. <i>Cereal Research Communications</i> , 2020, 48, 275-282.	1.6	12
38	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
39	Description of a Polyphasic Taxonomic Approach for Plant Growth-Promoting Rhizobacteria (PGPR). , 2020, , 259-269.		1
40	Gamma radiosensitivity study on wheat ( <i>Triticum turgidum</i> ssp. <i>durum</i> ). <i>Open Agriculture</i> , 2020, 5, 558-562.	1.7	8
41	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
42	Promoción de crecimiento en trigo ( <i>Triticum turgidum</i> L. subsp. <i>durum</i> ) 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
43	Mejorando rasgos biométricos de plantas de trigo con la inoculación de un consorcio nativo de <i>Bacillus</i> . <i>Revista Mexicana De Ciencias Agrícolas</i> , 2020, 11, 229-235.	0.2	9
44	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
45	Consideraciones sobre el uso de biofertilizantes como alternativa agro-biotecnológica sostenible para la seguridad alimentaria en México. <i>Revista Mexicana De Ciencias Agrícolas</i> , 2020, 11, 1423-1436.	0.2	4
46	ISÓTOPOS ESTABLES DE COMPUESTOS ESPECÍFICOS PARA ESTIMAR LA REDISTRIBUCIÓN DEL SUELO POR EVENTOS EROSIVOS. <i>Agrociencia</i> , 2020, 54, 601-618.	0.1	2
47	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. <i>Agrociencia</i> , 2020, 54, 643-659.	0.1	3
48	Biofouling performance of RO membranes coated with Iron NPs on graphene oxide. <i>Desalination</i> , 2019, 451, 45-58.	8.2	39
49	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
50	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. <i>durum</i> ) rhizosphere in the Yaqui Valley, Mexico. <i>3 Biotech</i> , 2019, 9, 436.	2.2	32
51	Draft genome analysis of the endophyte, <i>Bacillus toyonensis</i> COPE52, a blueberry ( <i>Vaccinium</i> spp. var.) Tj ETQq1 1,0784314,rgBT /Over	2.2	22
52	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
53	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
54	Methods for Detecting Biocontrol and Plant Growth-Promoting Traits in Rhizobacteria. <i>Rhizosphere Biology</i> , 2019, , 133-149.	0.6	37

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55	Bacillus subtilis TE3: A promising biological control agent against Bipolaris sorokiniana, the causal agent of spot blotch in wheat (Triticum turgidum L. subsp. durum). Biological Control, 2019, 132, 135-143.	3.0	72
56	Plant-assisted selection: a promising alternative for in vivo identification of wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	3.7	45
57	Plant Growth Promotion by ACC Deaminase-Producing Bacilli Under Salt Stress Conditions. Bacilli in Climate Resilient Agriculture and Bioprospecting, 2019, , 81-95.	1.2	7
58	Bacillus cabrialesii sp. nov., an endophytic plant growth promoting bacterium isolated from wheat (Triticum turgidum subsp. durum) in the Yaqui Valley, Mexico. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 3939-3945.	1.7	40
59	Water regime and osmotic adjustment under warming conditions on wheat in the Yaqui Valley, Mexico. PeerJ, 2019, 7, e7029.	2.0	14
60	Primer reporte de Lasiodiplodia en plantas de zarzamora (Rubus subg. Nero Eubatus) en el estado de Michoacan, Mexico. Revista Mexicana De Fitopatologia, 2019, 37, .	0.1	2
61	Extraction of high-quality RNA from Bacillus subtilis with a lysozyme pre-treatment followed by the Trizol method. Journal of Microbiological Methods, 2018, 147, 14-16.	1.6	35
62	Draft genome of the fungicidal biological control agent Burkholderia anthina strain XXVI. Archives of Microbiology, 2018, 200, 803-810.	2.2	14
63	First use of a compound-specific stable isotope (CSSI) technique to trace sediment transport in upland forest catchments of Chile. Science of the Total Environment, 2018, 618, 1114-1124.	8.0	35
64	Colmena: colección de microorganismos edáficos y endófitos nativos, para contribuir a la seguridad alimentaria nacional. Revista Mexicana De Ciencias Agrícolas, 2018, 9, 191-202.	0.2	22
65	Isolation of Moderately Halophilic Bacteria in Saline Environments of Sonora State Searching for Proteolytic Hydrolases. Open Agriculture, 2018, 3, 207-213.	1.7	6
66	Exploring innovative techniques for identifying geochemical elements as fingerprints of sediment sources in an agricultural catchment of Argentina affected by soil erosion. Environmental Science and Pollution Research, 2018, 25, 20868-20879.	5.3	18
67	Primer reporte de marchitamiento por Fusarium en Citrus sinensis var. Valencia en el Valle del Yaqui, México. Revista Mexicana De Fitopatologia, 2018, 37, .	0.1	2
68	Diversidad metabólica de microorganismos edáficos asociados al cultivo de maíz en el Valle del Yaqui, Sonora. Revista Mexicana De Ciencias Agrícolas, 2018, 9, 431-442.	0.2	6
69	Origen de suelos depositados en la subcuenca del río Tapacalán (Madriz, Nicaragua) mediante el uso de la técnica de isótopos estables de compuestos específicos. Aqua-lac, 2018, 10, 51-60.	0.1	0
70	The CSSIAR v.1.00 Software: A new tool based on SIAR to assess soil redistribution using Compound Specific Stable Isotopes. SoftwareX, 2017, 6, 13-18.	2.6	6
71	Abiotic stress tolerance of microorganisms associated with oregano (Origanum vulgare L.) in the Yaqui Valley, Sonora. Open Agriculture, 2017, 2, .	1.7	3
72	Biofouling Studies on Thin Film Composite Membranes for Reverse Osmosis Desalination Processes. , 2017, , 99-104.		3

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73	El género <i>Bacillus</i> como agente de control biológico y sus implicaciones en la bioseguridad agrícola. Revista Mexicana De Fitopatología, 2017, 36, .	0.1	44
74	Selección de cepas productoras de enzimas ligninolíticas nativas del Valle del Yaqui. Nova Scientia, 2017, 9, 24.	0.1	2
75	First Report of <i>Cochliobolus sativus</i> Causing Spot Blotch on Durum Wheat ( <i>Triticum</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 10 1.4 15		
76	Efecto sinérgico de <i>Trichoderma asperellum</i> T8A y captan 50 <sup>®</sup> contra <i>Colletotrichum gloeosporioides</i> . Revista Mexicana De Ciencias Agrícolas, 2016, 7, 1401-1412.	0.2	6
77	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
78	<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. PLoS ONE, 2014, 9, e88094.	2.5	49
79	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. Journal of Plant Growth Regulation, 2013, 32, 615-627.	5.1	27
80	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.). Biological Control, 2013, 64, 37-44.	3.0	48
81	PRODUCTION OF <i>Trichoderma asperellum</i> T8a SPORES BY A "HOME-MADE" SOLID-STATE FERMENTATION OF MANGO INDUSTRIAL WASTES. BioResources, 2012, 7, .	1.0	8
82	<i>Burkholderia cepacia</i> XXVI siderophore with biocontrol capacity against <i>Colletotrichum gloeosporioides</i> . World Journal of Microbiology and Biotechnology, 2012, 28, 2615-2623.	3.6	68