

JosÃ© Antonio Pascual Valero

List of Publications by Year in descending order

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116
papers

6,213
citations

61984

43
h-index

76900

74
g-index

119
all docs

119
docs citations

119
times ranked

7059
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanded Adipose-Derived Stem Cells for the Treatment of Complex Perianal Fistula. <i>Diseases of the Colon and Rectum</i> , 2009, 52, 79-86.	1.3	694
2	Soil microbial activity as a biomarker of degradation and remediation processes. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1877-1883.	8.8	211
3	Deciphering the hormonal signalling network behind the systemic resistance induced by <i>Trichoderma harzianum</i> in tomato. <i>Frontiers in Plant Science</i> , 2013, 4, 206.	3.6	199
4	Hydrolase activities, microbial biomass and bacterial community in a soil after long-term amendment with different composts. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3443-3452.	8.8	183
5	Changes in the microbial activity of an arid soil amended with urban organic wastes. <i>Biology and Fertility of Soils</i> , 1997, 24, 429-434.	4.3	176
6	Phytohormone Profiles Induced by <i>Trichoderma</i> Isolates Correspond with Their Biocontrol and Plant Growth-Promoting Activity on Melon Plants. <i>Journal of Chemical Ecology</i> , 2014, 40, 804-815.	1.8	171
7	Effect of biocontrol strains of <i>Trichoderma</i> on plant growth, <i>Pythium ultimum</i> populations, soil microbial communities and soil enzyme activities. <i>Journal of Applied Microbiology</i> , 2000, 88, 161-169.	3.1	166
8	Cigarettes vs. e-cigarettes: Passive exposure at home measured by means of airborne marker and biomarkers. <i>Environmental Research</i> , 2014, 135, 76-80.	7.5	159
9	Enzymatic activities in an arid soil amended with urban organic wastes: Laboratory experiment. <i>Bioresource Technology</i> , 1998, 64, 131-138.	9.6	150
10	Lasting microbiological and biochemical effects of the addition of municipal solid waste to an arid soil. <i>Biology and Fertility of Soils</i> , 1999, 30, 1-6.	4.3	134
11	A Chemical, Morphological, and Electrochemical (XPS, SEM/EDX, CV, and EIS) Analysis of Electrochemically Modified Electro Surfaces of Natural Chalcopyrite (CuFeS ₂) and Pyrite (FeS ₂) in Alkaline Solutions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4977-4988.	2.6	113
12	16S rDNA analysis reveals low microbial diversity in community level physiological profile assays. <i>Journal of Microbiological Methods</i> , 2008, 72, 221-226.	1.6	102
13	Impact of the Spanish Smoking Law on Exposure to Second-Hand Smoke and Respiratory Health in Hospitality Workers: A Cohort Study. <i>PLoS ONE</i> , 2009, 4, e4244.	2.5	102
14	Persistence of immobilised and total urease and phosphatase activities in a soil amended with organic wastes. <i>Bioresource Technology</i> , 2002, 82, 73-78.	9.6	93
15	Citrus compost and its water extract for cultivation of melon plants in greenhouse nurseries. Evaluation of nutriactive and biocontrol effects. <i>Bioresource Technology</i> , 2008, 99, 8722-8728.	9.6	91
16	The interaction with arbuscular mycorrhizal fungi or <i>Trichoderma harzianum</i> alters the shoot hormonal profile in melon plants. <i>Phytochemistry</i> , 2011, 72, 223-229.	2.9	90
17	Comparison of fresh and composted organic waste in their efficacy for the improvement of arid soil quality. <i>Bioresource Technology</i> , 1999, 68, 255-264.	9.6	88
18	Mesophilic anaerobic digestion of pig slurry and fruit and vegetable waste: Dissection of the microbial community structure. <i>Journal of Cleaner Production</i> , 2017, 156, 757-765.	9.3	86

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19	Organic substrate for transplant production in organic nurseries. A review. <i>Agronomy for Sustainable Development</i> , 2018, 38, 1.	5.3	83
20	Stimulation of barley growth and nutrient absorption by humic substances originating from various organic materials. <i>Bioresource Technology</i> , 1996, 57, 251-257.	9.6	81
21	Structural analysis of the glycosylation of gene-activated erythropoietin (epoetin delta, Dynepo). <i>Analytical Biochemistry</i> , 2008, 383, 243-254.	2.4	78
22	Quantification of the biocontrol agent <i>Trichoderma harzianum</i> with real-time TaqMan PCR and its potential extrapolation to the hyphal biomass. <i>Bioresource Technology</i> , 2010, 101, 2888-2891.	9.6	75
23	Agri-food sludge management using different co-composting strategies: study of the added value of the composts obtained. <i>Journal of Cleaner Production</i> , 2016, 121, 186-197.	9.3	75
24	Evaluation of urban wastes for agricultural use. <i>Soil Science and Plant Nutrition</i> , 1996, 42, 105-111.	1.9	72
25	Transference of heavy metals from a calcareous soil amended with sewage-sludge compost to barley plants. <i>Bioresource Technology</i> , 1996, 55, 251-258.	9.6	72
26	Do plant clumps constitute microbial hotspots in semiarid Mediterranean patchy landscapes?. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1047-1054.	8.8	71
27	Sewage sludge addition modifies soil microbial communities and plant performance depending on the sludge stabilization process. <i>Applied Soil Ecology</i> , 2016, 101, 37-46.	4.3	70
28	Molecular and physiological bacterial diversity of a semi-arid soil contaminated with different levels of formulated atrazine. <i>Applied Soil Ecology</i> , 2006, 34, 93-102.	4.3	67
29	Microbial Community Structure at Different Depths in Disturbed and Undisturbed Semiarid Mediterranean Forest Soils. <i>Microbial Ecology</i> , 2005, 50, 315-326.	2.8	66
30	Interactions between arbuscular mycorrhizal fungi and <i>Trichoderma harzianum</i> and their effects on Fusarium wilt in melon plants grown in seedling nurseries. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 1843-1850.	3.5	66
31	Interaction between arbuscular mycorrhizal fungi and <i>Trichoderma harzianum</i> under conventional and low input fertilization field condition in melon crops: Growth response and Fusarium wilt biocontrol. <i>Applied Soil Ecology</i> , 2011, 47, 98-105.	4.3	66
32	Mycoparasitism-related genes expression of <i>Trichoderma harzianum</i> isolates to evaluate their efficacy as biological control agent. <i>Biological Control</i> , 2011, 56, 59-66.	3.0	66
33	Surface and subsurface organic carbon, microbial biomass and activity in a forest soil sequence. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2233-2243.	8.8	64
34	Biopesticide effect of green compost against fusarium wilt on melon plants. <i>Journal of Applied Microbiology</i> , 2005, 98, 845-854.	3.1	62
35	Phytotoxicity due to the agricultural use of urban wastes. Germination experiments. <i>Journal of the Science of Food and Agriculture</i> , 1992, 59, 313-319.	3.5	57
36	Vineyard Compost Supplemented with <i>Trichoderma Harzianum</i> T78 Improve Saline Soil Quality. <i>Land Degradation and Development</i> , 2017, 28, 1028-1037.	3.9	55

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37	<i>Trichoderma harzianum</i> and <i>Glomus intraradices</i> Modify the Hormone Disruption Induced by <i>Fusarium oxysporum</i> Infection in Melon Plants. <i>Phytopathology</i> , 2010, 100, 682-688.	2.2	54
38	Effectiveness of municipal waste compost and its humic fraction in suppressing <i>Pythium ultimum</i> . <i>Microbial Ecology</i> , 2002, 44, 59-68.	2.8	53
39	Uses of ecosystem services provided by MPAs: How much do they impact the local economy? A southern Europe perspective. <i>Journal for Nature Conservation</i> , 2008, 16, 256-270.	1.8	53
40	Effects of biosolarization as methyl bromide alternative for <i>Meloidogyne incognita</i> control on quality of soil under pepper. <i>Biology and Fertility of Soils</i> , 2008, 45, 37-44.	4.3	51
41	Biochemical and chemical-structural characterization of different organic materials used as manures. <i>Bioresource Technology</i> , 1996, 57, 201-207.	9.6	50
42	Evaluation of protein N-glycosylation in 2D-DE: Erythropoietin as a study case. <i>Proteomics</i> , 2007, 7, 4278-4291.	2.2	49
43	Microbiota Characterization of Compost Using Omics Approaches Opens New Perspectives for <i>Phytophthora</i> Root Rot Control. <i>PLoS ONE</i> , 2016, 11, e0158048.	2.5	47
44	Relationship of microbial communities and suppressiveness of <i>Trichoderma</i> fortified composts for pepper seedlings infected by <i>Phytophthora nicotianae</i> . <i>PLoS ONE</i> , 2017, 12, e0174069.	2.5	46
45	Changes induced by <i>Trichoderma harzianum</i> in suppressive compost controlling <i>Fusarium</i> wilt. <i>Pesticide Biochemistry and Physiology</i> , 2013, 107, 112-119.	3.6	45
46	Procedures for monitoring recombinant erythropoietin and analogues in doping control. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1521-1529.	3.7	44
47	Assessment of exposure to secondhand smoke by questionnaire and salivary cotinine in the general population of Barcelona, Spain (2004-2005). <i>Preventive Medicine</i> , 2009, 48, 218-223.	3.4	44
48	The influence of sonication on the thermal behavior of muscovite and biotite. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2793-2801.	5.7	43
49	Long-term suppression of <i>Pythium ultimum</i> in arid soil using fresh and composted municipal wastes. <i>Biology and Fertility of Soils</i> , 2000, 30, 478-484.	4.3	41
50	Impact of the Spanish Smoke-Free Legislation on Adult, Non-Smoker Exposure to Secondhand Smoke: Cross-Sectional Surveys before (2004) and after (2012) Legislation. <i>PLoS ONE</i> , 2014, 9, e89430.	2.5	41
51	<i>Pinus halepensis</i> Mill. plantations did not restore organic carbon, microbial biomass and activity levels in a semi-arid Mediterranean soil. <i>Applied Soil Ecology</i> , 2007, 36, 107-115.	4.3	39
52	Archaeal community dynamics and abiotic characteristics in a mesophilic anaerobic co-digestion process treating fruit and vegetable processing waste sludge with chopped fresh artichoke waste. <i>Bioresource Technology</i> , 2013, 136, 1-7.	9.6	39
53	Quantitative Determination of Tricyclic Antidepressants and Their Metabolites in Plasma by Solid-Phase Extraction (Bond-Elut TCA) and Separation by Capillary Gas Chromatography With Nitrogen-Phosphorous Detection. <i>Therapeutic Drug Monitoring</i> , 1998, 20, 340-346.	2.0	38
54	Carbon mineralization in an arid soil amended with organic wastes of varying degrees of stability. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 835-846.	1.4	37

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55	A simple and reliable method for the determination of nicotine and cotinine in teeth by gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2853-2855.	1.5	35
56	Compost-based Nursery Substrates: Effect of Peat Substitution on Organic Melon Seedlings. <i>Compost Science and Utilization</i> , 2009, 17, 220-228.	1.2	35
57	Identification of predictor parameters to determine agro-industrial compost suppressiveness against <i>Fusarium oxysporum</i> and <i>Phytophthora capsici</i> diseases in muskmelon and pepper seedlings. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1482-1490.	3.5	34
58	Semi full-scale thermophilic anaerobic digestion (TAnd) for advanced treatment of sewage sludge: Stabilization process and pathogen reduction. <i>Chemical Engineering Journal</i> , 2013, 232, 42-50.	12.7	33
59	Utilisation of citrus compost-based growing media amended with <i>Trichoderma harzianum</i> T-78 in <i>Cucumis melo</i> L. seedling production. <i>Bioresource Technology</i> , 2010, 101, 3718-3723.	9.6	32
60	Secondhand smoke exposure at home: Assessment by biomarkers and airborne markers. <i>Environmental Research</i> , 2014, 133, 111-116.	7.5	32
61	Performance of a <i>Trichoderma harzianum</i> Bentonite-vermiculite Formulation Against <i>Fusarium</i> Wilt in Seedling Nursery Melon Plants. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 2025-2027.	1.0	32
62	Characterisation of the rhodanese enzyme in <i>Trichoderma</i> spp.. <i>Enzyme and Microbial Technology</i> , 2003, 32, 629-634.	3.2	31
63	Assessing the instability of the isoelectric focusing patterns of erythropoietin in urine. <i>Electrophoresis</i> , 2006, 27, 4387-4395.	2.4	30
64	Neurotoxic Thioether Adducts of 3,4-Methylenedioxyamphetamine Identified in Human Urine After Ecstasy Ingestion. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1448-1455.	3.3	30
65	Molecular methods (digital PCR and real-time PCR) for the quantification of low copy DNA of <i>Phytophthora nicotianae</i> in environmental samples. <i>Pest Management Science</i> , 2016, 72, 747-753.	3.4	30
66	Alfalfa crops amended with MSW compost can compensate the effect of salty water irrigation depending on the soil texture. <i>Chemical Engineering Research and Design</i> , 2018, 115, 8-16.	5.6	30
67	Impact of foliar fungicides on target and non-target soil microbial communities in cucumber crops. <i>Ecotoxicology and Environmental Safety</i> , 2018, 166, 78-85.	6.0	30
68	Nicotine Concentrations in Deciduous Teeth and Cumulative Exposure to Tobacco Smoke During Childhood. <i>JAMA - Journal of the American Medical Association</i> , 2003, 290, 196-197.	7.4	28
69	Recombinant erythropoietin found in seized blood bags from sportsmen. <i>Haematologica</i> , 2008, 93, 313-314.	3.5	28
70	Changes in the organic matter mineralization rates of an arid soil after amendment with organic wastes. <i>Arid Land Research and Management</i> , 1998, 12, 63-72.	0.3	27
71	Increased effectiveness of the <i>Trichoderma harzianum</i> isolate T-78 against <i>Fusarium</i> wilt on melon plants under nursery conditions. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 827-833.	3.5	27
72	Promising Composts as Growing Media for the Production of Baby Leaf Lettuce in a Floating System. <i>Agronomy</i> , 2020, 10, 1540.	3.0	27

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73	Evaluation of immunoassays for the measurement of erythropoietin (EPO) as an indirect biomarker of recombinant human EPO misuse in sport. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 1169-1177.	2.8	26
74	An agroindustrial compost as alternative to peat for production of baby leaf red lettuce in a floating system. <i>Scientia Horticulturae</i> , 2019, 246, 907-915.	3.6	26
75	Bacterial and fungal community dynamics during different stages of agro-industrial waste composting and its relationship with compost suppressiveness. <i>Science of the Total Environment</i> , 2022, 805, 150330.	8.0	25
76	Impact of the Spanish smoking law in smoker hospitality workers. <i>Nicotine and Tobacco Research</i> , 2009, 11, 1099-1106.	2.6	22
77	<i>Trichoderma harzianum</i> supplementation of compost stimulates the antioxidant defence system in melon plants. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 2208-2214.	3.5	22
78	Quantitative PCR and Digital PCR for Detection of <i>Ascaris lumbricoides</i> Eggs in Reclaimed Water. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	22
79	CHARACTERIZATION OF URBAN WASTES ACCORDING TO FERTILITY AND PHYTOTOXICITY PARAMETERS. <i>Waste Management and Research</i> , 1997, 15, 103-112.	3.9	21
80	qRT-PCR quantification of the biological control agent <i>Trichoderma harzianum</i> in peat and compost-based growing media. <i>Bioresource Technology</i> , 2011, 102, 2793-2798.	9.6	20
81	Evaluation of the removal of pathogens included in the Proposal for a European Directive on spreading of sludge on land during autothermal thermophilic aerobic digestion (ATAD). <i>Chemical Engineering Journal</i> , 2012, 198-199, 171-179.	12.7	20
82	Two-stage mesophilic anaerobic-thermophilic digestion for sludge sanitation to obtain advanced treated sludge. <i>Chemical Engineering Journal</i> , 2013, 230, 59-63.	12.7	19
83	Storage effects on the community level physiological profiles of Mediterranean forest soils. <i>Soil Biology and Biochemistry</i> , 2005, 37, 173-178.	8.8	18
84	Effect of load histories on scatter of fatigue crack growth in aluminum alloy 2024-T351. <i>Engineering Fracture Mechanics</i> , 1997, 56, 65-76.	4.3	17
85	Carbon fractions in the rhizosphere of pea inoculated with 2,4 diacetylphloroglucinol producing and non-producing <i>Pseudomonas fluorescens</i> F113. <i>Journal of Applied Microbiology</i> , 1999, 87, 173-181.	3.1	17
86	Next generation of Exascale-class systems: ExaNeSt project and the status of its interconnect and storage development. <i>Microprocessors and Microsystems</i> , 2018, 61, 58-71.	2.8	17
87	<i>Methylobacterium symbioticum</i> sp. nov., a new species isolated from spores of <i>Glomus iranicum</i> var. <i>tenuhypharum</i> . <i>Current Microbiology</i> , 2020, 77, 2031-2041.	2.2	17
88	Spraying Agro-Industrial Compost Tea on Baby Spinach Crops: Evaluation of Yield, Plant Quality and Soil Health in Field Experiments. <i>Agronomy</i> , 2020, 10, 440.	3.0	17
89	Evaluation of Microbial Community Activity, Abundance and Structure in a Semiarid Soil Under Cadmium Pollution at Laboratory Level. <i>Water, Air, and Soil Pollution</i> , 2009, 203, 229-242.	2.4	16
90	Stages of change, smoking characteristics, and cotinine concentrations in smokers: Setting priorities for smoking cessation. <i>Preventive Medicine</i> , 2011, 52, 139-145.	3.4	16

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91	Evaluation of the effect of chitin-rich residues on the chitinolytic activity of <i>Trichoderma harzianum</i> : In vitro and greenhouse nursery experiments. <i>Pesticide Biochemistry and Physiology</i> , 2012, 103, 1-8.	3.6	16
92	Characterization of <i>Phytophthora nicotianae</i> isolates in southeast Spain and their detection and quantification through a real-time TaqMan PCR. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1243-1251.	3.5	16
93	Agroindustrial composts to reduce the use of peat and fungicides in the cultivation of muskmelon seedlings. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 875-881.	3.5	15
94	Influence of the stabilisation of organic materials on their biopesticide effect in soils. <i>Bioresource Technology</i> , 2004, 95, 215-221.	9.6	13
95	INOCULATION OF <i>Trichoderma harzianum</i> DURING MATURATION OF VINEYARD WASTE COMPOST TO CONTROL MUSKMELON <i>Fusarium</i> WILT. <i>BioResources</i> , 2012, 7, .	1.0	13
96	Characterisation of sludge produced by the agri-food industry and recycling options for its agricultural uses in a typical Mediterranean area, the Segura River basin (Spain). <i>Waste Management</i> , 2018, 82, 118-128.	7.4	13
97	Application of Directly Brewed Compost Extract Improves Yield and Quality in Baby Leaf Lettuce Grown Hydroponically. <i>Agronomy</i> , 2020, 10, 370.	3.0	13
98	A Comparative Study of the Effect on Barley Growth of Humic Substances Extracted from Municipal Wastes and from Traditional Organic Materials. , 1996, 72, 493-500.		12
99	Long-term effects of revegetation on composition and activities (including transcription) of fungal communities of a semi-arid soil. <i>Biology and Fertility of Soils</i> , 2009, 45, 435-441.	4.3	12
100	Composting Spent Mushroom Substrate from <i>Agaricus bisporus</i> and <i>Pleurotus ostreatus</i> Production as a Growing Media Component for Baby Leaf Lettuce Cultivation under <i>Pythium irregulare</i> Biotic Stress. <i>Horticulturae</i> , 2021, 7, 13.	2.8	12
101	SCAR-based real-time TaqMan PCR for early detection of <i>Fusarium oxysporum</i> in melon seedlings under greenhouse nursery conditions. <i>Crop Protection</i> , 2012, 33, 1-6.	2.1	10
102	Sustainable alternatives to 1,3-dichloropropene for controlling root-knot nematodes and fungal pathogens in melon crops in Mediterranean soils: Efficacy and effects on soil quality. <i>Environmental Pollution</i> , 2019, 247, 1046-1054.	7.5	10
103	The influence of feedstocks and additives in 23 added-value composts as a growing media component on <i>Pythium irregulare</i> suppressivity. <i>Waste Management</i> , 2021, 120, 351-363.	7.4	10
104	Changes in Bacterial and Fungal Soil Communities in Long-Term Organic Cropping Systems. <i>Agriculture (Switzerland)</i> , 2021, 11, 445.	3.1	10
105	In vitro elucidation of suppression effects of composts to soil-borne pathogen <i>Phytophthora nicotianae</i> on pepper plants using 16S amplicon sequencing and metaproteomics. <i>Renewable Agriculture and Food Systems</i> , 2020, 35, 206-214.	1.8	9
106	Effect of Compost Extract Addition to Different Types of Fertilizers on Quality at Harvest and Shelf Life of Spinach. <i>Agronomy</i> , 2021, 11, 632.	3.0	8
107	EFFECT OF LONG-TERM MONOCULTURE ON MICROBIOLOGICAL AND BIOCHEMICAL PROPERTIES IN SEMIARID SOILS. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 537-552.	1.4	6
108	Approaches for the discrimination of suppressive soils for <i>Pythium irregulare</i> disease. <i>Applied Soil Ecology</i> , 2020, 147, 103439.	4.3	6

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109	Ameliorative Effect of Municipal Solid Waste Compost on the Biological Quality Of Mediterranean Salt Lake Soil. <i>Compost Science and Utilization</i> , 2010, 18, 242-248.	1.2	5
110	Effect of Plant Extracts and Metam Sodium on the Soilborne Fungal Pathogens, <i>Meloidogyne</i> spp., and Soil Microbial Community. <i>Agronomy</i> , 2020, 10, 513.	3.0	5
111	Long-Term Compost Amendment Changes Interactions and Specialization in the Soil Bacterial Community, Increasing the Presence of Beneficial N-Cycling Genes in the Soil. <i>Agronomy</i> , 2022, 12, 316.	3.0	5
112	Bio stimulant and suppressive effect of <i>Trichoderma harzianum</i> enriched compost for melon cultivation from greenhouse nursery to field production. <i>Acta Horticulturae</i> , 2017, , 225-232.	0.2	4
113	Inoculation with Different Nitrogen-Fixing Bacteria and Arbuscular Mycorrhiza Affects Grain Protein Content and Nodule Bacterial Communities of a Fava Bean Crop. <i>Agronomy</i> , 2020, 10, 768.	3.0	3
114	Insights into the suppressiveness of composts against <i>Phytophthora nicotianae</i> by omics. <i>Acta Horticulturae</i> , 2016, , 109-114.	0.2	1
115	The Use of Arbuscular Mycorrhizal Fungi in Combination with <i>Trichoderma</i> spp. in Sustainable Agriculture. , 2016, , 137-146.		1
116	Clay Soil: A Good Conditioner for Amended Alfalfa with Different Organic Amendments Under Saline Irrigation Production. <i>Advances in Science, Technology and Innovation</i> , 2018, , 285-286.	0.4	1