

Manuel Joaquín Reigosa Roger

List of Publications by Year in descending order

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92
papers

3,706
citations

109321

35
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149698

56
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93
all docs

93
docs citations

93
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecophysiological Approach in Allelopathy. Critical Reviews in Plant Sciences, 1999, 18, 577-608.	5.7	218
2	The genus <i>Acacia</i> as invader: the characteristic case of <i>Acacia dealbata</i> Link in Europe. Annals of Forest Science, 2010, 67, 101-101.	2.0	170
3	Do Germination Indices Adequately Reflect Allelochemical Effects on the Germination Process?. Journal of Chemical Ecology, 1997, 23, 2445-2453.	1.8	166
4	Detoxification and Transcriptome Response in <i>Arabidopsis</i> Seedlings Exposed to the Allelochemical Benzoxazolin-2(3H)-one. Journal of Biological Chemistry, 2005, 280, 21867-21881.	3.4	165
5	Effect of phenolic compounds on the germination of six weeds species. Plant Growth Regulation, 1999, 28, 83-88.	3.4	152
6	Ecophysiological Approach in Allelopathy. Critical Reviews in Plant Sciences, 1999, 18, 577-608.	5.7	134
7	Phytotoxic Effects of 21 Plant Secondary Metabolites on <i>Arabidopsis thaliana</i> Germination and Root Growth. Journal of Chemical Ecology, 2007, 33, 1456-1466.	1.8	120
8	Allelochemical stress inhibits growth, leaf water relations, PSII photochemistry, non-photochemical fluorescence quenching, and heat energy dissipation in three C3 perennial species. Journal of Experimental Botany, 2011, 62, 4533-4545.	4.8	117
9	Allelopathic interference of invasive <i>Acacia dealbata</i> Link on the physiological parameters of native understory species. Plant Ecology, 2011, 212, 403-412.	1.6	83
10	Citral Induces Auxin and Ethylene-Mediated Malformations and Arrests Cell Division in <i>Arabidopsis thaliana</i> Roots. Journal of Chemical Ecology, 2013, 39, 271-282.	1.8	66
11	Phenotypic plasticity and acclimation to water deficits in velvet-grass: a long-term greenhouse experiment. Changes in leaf morphology, photosynthesis and stress-induced metabolites. Journal of Plant Physiology, 2000, 157, 383-393.	3.5	65
12	The natural compound benzoxazolin-2(3H)-one selectively retards cell cycle in lettuce root meristems. Phytochemistry, 2008, 69, 2172-2179.	2.9	62
13	Allelopathic effects of <i>Acacia melanoxylon</i> R.Br. phyllodes during their decomposition. Forest Ecology and Management, 1995, 77, 53-63.	3.2	60
14	BIOLOGICAL ACTIVITIES AND NOVEL APPLICATIONS OF CHALCONES. Planta Daninha, 2016, 34, 607-616.	0.5	60
15	Release of allelochemical agents from litter, throughfall, and topsoil in plantations of <i>Eucalyptus globulus</i> Labill in Spain. Journal of Chemical Ecology, 1991, 17, 147-160.	1.8	59
16	Whole Plant Response of Lettuce After Root Exposure to BOA (2(3H)-Benzoxazolinone). Journal of Chemical Ecology, 2005, 31, 2689-2703.	1.8	59
17	Comparative analysis of allelopathic effects produced by four forestry species during decomposition process in their soils in Galicia (NW Spain). Journal of Chemical Ecology, 1994, 20, 3005-3015.	1.8	57
18	Natural product coumarins: biological and pharmacological perspectives. Biologia (Poland), 2019, 74, 863-888.	1.5	56

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19	Allelopathic research in Brazil. <i>Acta Botanica Brasilica</i> , 2013, 27, 629-646.	0.8	55
20	Allelopathic Effects of Tree Species on Some Soil Microbial Populations and Herbaceous Plants. <i>Biologia Plantarum</i> , 2001, 44, 269-275.	1.9	53
21	Allelopathic Evidence in the Poaceae. <i>Botanical Review, The</i> , 2003, 69, 300-319.	3.9	53
22	The natural compound trans- ϵ -chalcone induces programmed cell death in <i>Arabidopsis thaliana</i> roots. <i>Plant, Cell and Environment</i> , 2012, 35, 1500-1517.	5.7	53
23	Unravelling the bioherbicide potential of <i>Eucalyptus globulus</i> Labill: Biochemistry and effects of its aqueous extract. <i>PLoS ONE</i> , 2018, 13, e0192872.	2.5	53
24	Genotypic differences in agro-physiological, biochemical and isotopic responses to salinity stress in quinoa (<i>Chenopodium quinoa</i> Willd.) plants: Prospects for salinity tolerance and yield stability. <i>Plant Physiology and Biochemistry</i> , 2018, 129, 411-420.	5.8	52
25	Invasion by the leguminous tree <i>Acacia dealbata</i> (Mimosaceae) reduces the native understorey plant species in different communities. <i>Australian Journal of Botany</i> , 2012, 60, 669.	0.6	51
26	Terpenoid trans- ϵ -caryophyllene inhibits weed germination and induces plant water status alteration and oxidative damage in adult <i>Arabidopsis</i> . <i>Plant Biology</i> , 2017, 19, 79-89.	3.8	49
27	Allelopathy and abiotic stress. , 2006, , 171-209.		47
28	Classification and regression trees (CARTs) for modelling the sorption and retention of heavy metals by soil. <i>Journal of Hazardous Materials</i> , 2009, 167, 615-624.	12.4	47
29	A chlorophyll fluorescence analysis of photosynthetic efficiency, quantum yield and photon energy dissipation in PSII antennae of <i>Lactuca sativa</i> L. leaves exposed to cinnamic acid. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1290-1298.	5.8	47
30	Loss of Gravitropism in Farnesene-Treated <i>Arabidopsis</i> Is Due to Microtubule Malformations Related to Hormonal and ROS Unbalance. <i>PLoS ONE</i> , 2016, 11, e0160202.	2.5	46
31	The Consistency Between Phytotoxic Effects and the Dynamics of Allelochemicals Release from <i>Eucalyptus globulus</i> Leaves Used as Bioherbicide Green Manure. <i>Journal of Chemical Ecology</i> , 2018, 44, 658-670.	1.8	43
32	Differential responses to allelopathic compounds released by the invasive <i>Acacia dealbata</i> Link (Mimosaceae) indicate stimulation of its own seed. <i>Australian Journal of Botany</i> , 2010, 58, 546.	0.6	42
33	Ecophysiological responses of three native herbs to phytotoxic potential of invasive <i>Acacia melanoxylon</i> R. Br.. <i>Agroforestry Systems</i> , 2011, 83, 149-166.	2.0	42
34	Soil Cd, Cr, Cu, Ni, Pb and Zn sorption and retention models using SVM: Variable selection and competitive model. <i>Science of the Total Environment</i> , 2017, 593-594, 508-522.	8.0	42
35	Allelopathic potential of <i>Acacia melanoxylon</i> on the germination and root growth of native species. <i>Weed Biology and Management</i> , 2011, 11, 18-28.	1.4	41
36	<i>Eucalyptus globulus</i> Leaves Incorporated as Green Manure for Weed Control in Maize. <i>Weed Science</i> , 2013, 61, 154-161.	1.5	39

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37	Rosmarinic acid induces programmed cell death in Arabidopsis seedlings through reactive oxygen species and mitochondrial dysfunction. PLoS ONE, 2018, 13, e0208802.	2.5	38
38	A tree regression analysis of factors determining the sorption and retention of heavy metals by soil. Geoderma, 2008, 147, 75-85.	5.1	35
39	Auxin-like effects of the natural coumarin scopoletin on Arabidopsis cell structure and morphology. Journal of Plant Physiology, 2017, 218, 45-55.	3.5	35
40	The early response of Arabidopsis thaliana to cadmium- and copper-induced stress. Environmental and Experimental Botany, 2012, 78, 1-9.	4.2	33
41	Unraveling Sorghum Allelopathy in Agriculture: Concepts and Implications. Plants, 2021, 10, 1795.	3.5	33
42	Imaging of Chlorophyll a Fluorescence in Natural Compound-Induced Stress Detection. Frontiers in Plant Science, 2020, 11, 583590.	3.6	29
43	Secondary Metabolites, Ferulic Acid and p-Hydroxybenzoic Acid Induced Toxic Effects on Photosynthetic Process in Rumex acetosa L. Biomolecules, 2021, 11, 233.	4.0	29
44	Individual and joint activity of terpenoids, isolated from <i>Calamintha nepeta</i> extract, on <i>Arabidopsis thaliana</i> . Natural Product Research, 2013, 27, 2297-2303.	1.8	28
45	The Phytotoxic Potential of the Terpenoid Citral on Seedlings and Adult Plants. Weed Science, 2013, 61, 469-481.	1.5	28
46	Allelopathic Potential of Aqueous Extract from Acacia melanoxylon R. Br. on Lactuca sativa. Plants, 2020, 9, 1228.	3.5	27
47	Introduction to allelopathy. , 2006, , 1-9.		25
48	Imaging chlorophyll a fluorescence reveals specific spatial distributions under different stress conditions. Flora: Morphology, Distribution, Functional Ecology of Plants, 2011, 206, 836-844.	1.2	25
49	Early senescence induced by 2-3H-benzoxazolinone (BOA) in Arabidopsis thaliana. Journal of Plant Physiology, 2011, 168, 863-870.	3.5	25
50	Higher peroxidase activity, leaf nutrient contents and carbon isotope composition changes in Arabidopsis thaliana are related to rutin stress. Journal of Plant Physiology, 2014, 171, 1325-1333.	3.5	25
51	Evaluation of photosynthetic performance and carbon isotope discrimination in perennial ryegrass (Lolium perenne L.) under allelochemicals stress. Ecotoxicology, 2017, 26, 613-624.	2.4	25
52	Faba bean as green manure for field weed control in maize. Weed Research, 2018, 58, 437-449.	1.7	25
53	Comparative physiological effects of three allelochemicals and two herbicides on Dactylis glomerata. Acta Physiologiae Plantarum, 2002, 24, 385-392.	2.1	24
54	Phytotoxic Potential of Trans-chalcone on Crop Plants and Model Species. Journal of Plant Growth Regulation, 2014, 33, 181-194.	5.1	24

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55	Characterization of Xanthophyll Pigments, Photosynthetic Performance, Photon Energy Dissipation, Reactive Oxygen Species Generation and Carbon Isotope Discrimination during Artemisinin-Induced Stress in <i>Arabidopsis thaliana</i> . PLoS ONE, 2015, 10, e0114826.	2.5	24
56	Reduced Photosynthetic Activity is Directly Correlated with 2-(3H)-benzoxazolinone Accumulation in Lettuce Leaves. Journal of Chemical Ecology, 2010, 36, 205-209.	1.8	23
57	On the suitability of Eucalyptus globulus green manure for field weed control. Crop Protection, 2019, 121, 57-65.	2.1	22
58	Analysis of the Importance of Oxides and Clays in Cd, Cr, Cu, Ni, Pb and Zn Adsorption and Retention with Regression Trees. PLoS ONE, 2017, 12, e0168523.	2.5	21
59	Asymmetric small-scale distribution and allelopathy: Interaction between <i>Rumex obtusifolius</i> L. and meadow species. Journal of Chemical Ecology, 1988, 14, 1775-1786.	1.8	20
60	Mode of Action of Monoterpenes in Plant-Plant Interactions. Current Bioactive Compounds, 2012, 8, 80-89.	0.5	20
61	Activities and Novel Applications of Secondary Metabolite Coumarins. Planta Daninha, 2018, 36, .	0.5	20
62	Seedling growth, leaf water status and signature of stable carbon isotopes in C3 perennials exposed to natural phytochemicals. Australian Journal of Botany, 2012, 60, 676.	0.6	19
63	<i>Rumex obtusifolius</i> L: Release of allelochemical agents and their influence on small-scale spatial distribution of meadow species. Journal of Chemical Ecology, 1988, 14, 1763-1773.	1.8	18
64	Biochemical, physiological and isotopic responses to natural product p-hydroxybenzoic acid in Cocksfoot (<i>Dactylis glomerata</i> L.). Plant Growth Regulation, 2015, 75, 783-792.	3.4	18
65	Benzoxazolin-2(3H)-one (BOA) induced changes in leaf water relations, photosynthesis and carbon isotope discrimination in <i>Lactuca sativa</i> . Plant Physiology and Biochemistry, 2011, 49, 825-834.	5.8	17
66	A natural indole alkaloid, norharmane, affects PIN expression patterns and compromises root growth in <i>Arabidopsis thaliana</i> . Plant Physiology and Biochemistry, 2020, 151, 378-390.	5.8	17
67	Degradation of fuel oil in salt marsh soils affected by the Prestige oil spill. Journal of Hazardous Materials, 2009, 166, 1020-1029.	12.4	14
68	The plant secondary metabolite citral alters water status and prevents seed formation in <i>Arabidopsis thaliana</i> . Plant Biology, 2016, 18, 423-432.	3.8	14
69	Morpho-physiological responses of tall wheatgrass populations to different levels of water stress. PLoS ONE, 2018, 13, e0209281.	2.5	14
70	Transcriptome responses to the natural phytotoxin <i>2-ethyl-2H-benzoxazolin-3-one</i> in <i>Arabidopsis thaliana</i> L.. Pest Management Science, 2019, 75, 2490-2504.	3.4	11
71	<i>2-ethyl-2H-benzoxazolinone</i> (BOA) induces loss of salt tolerance in salt-adapted plants. Plant Biology, 2009, 11, 582-590.	3.8	10
72	Plasma membrane depolarization precedes photosynthesis damage and long-term leaf bleaching in (E)-chalcone-treated <i>Arabidopsis</i> shoots. Journal of Plant Physiology, 2017, 218, 56-65.	3.5	10

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73	Transcriptome and binding data indicate that citral inhibits single strand DNA-binding proteins. <i>Physiologia Plantarum</i> , 2020, 169, 99-109.	5.2	10
74	Phytotoxic Activity of the Natural Compound Norharmane on Crops, Weeds and Model Plants. <i>Plants</i> , 2020, 9, 1328.	3.5	10
75	Tolerance of <i>Arabidopsis thaliana</i> to the Allelochemical Protocatechualdehyde. <i>Journal of Plant Growth Regulation</i> , 2012, 31, 406-415.	5.1	9
76	The role of peroxidases on the mode of action of chalcone in <i>Arabidopsis</i> roots. <i>Plant Signaling and Behavior</i> , 2012, 7, 1274-1276.	2.4	8
77	Genomic Approaches to Understanding Allelochemical Effects on Plants. , 2008, , 157-167.		7
78	Weed pressure determines the chemical profile of wheat (<i>Triticum aestivum</i> L.) and its allelochemicals potential. <i>Pest Management Science</i> , 2022, 78, 1605-1619.	3.4	7
79	Early photosynthetic response of <i>Arabidopsis thaliana</i> to temperature and salt stress conditions. <i>Russian Journal of Plant Physiology</i> , 2012, 59, 640-647.	1.1	6
80	Carbon ($\delta^{13}\text{C}$) and Nitrogen ($\delta^{15}\text{N}$) Stable Isotope Composition Provide New Insights into Phenotypic Plasticity in Broad Leaf Weed <i>Rumex acetosa</i> under Allelochemical Stress. <i>Molecules</i> , 2018, 23, 2449.	3.8	5
81	Genetic evidence for plural introduction pathways of the invasive weed Paterson's curse (<i>Echium</i>) Tj ETQq1 1 0.784314 rgBT /Over	2.5	5
82	Forest ecosystems and allelopathy. , 2006, , 451-463.		5
83	Photosynthesis of natural cocksfoot populations under water and salt stresses. <i>Biologia Plantarum</i> , 1996, 38, 413.	1.9	4
84	Ultrastructural and hormonal changes related to harmaline-induced treatment in <i>Arabidopsis thaliana</i> (L.) Heynh. root meristem. <i>Plant Physiology and Biochemistry</i> , 2022, 179, 78-89.	5.8	4
85	Ecophysiological Responses of Tall Wheatgrass Germplasm to Drought and Salinity. <i>Plants</i> , 2022, 11, 1548.	3.5	4
86	Analysis of the adsorption and retention models for Cd, Cr, Cu, Ni, Pb, and Zn through neural networks: selection of variables and competitive model. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25551-25564.	5.3	3
87	Morpho-physiological, biochemical and isotopic response of tall wheatgrass populations to salt stress. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 236-248.	3.5	3
88	Elucidating the Phytotoxic Potential of Natural Compounds. , 2018, , 363-378.		2
89	The natural compound podophyllotoxin induces growth inhibition and microtubule condensation on <i>arabidopsis</i> roots. <i>Allelopathy Journal</i> , 2018, 45, 255-262.	0.5	2
90	Allelopathy in Agroecosystems in Spain. <i>The Journal of Crop Improvement: Innovations in Practiceory and Research</i> , 2001, 4, 415-432.	0.4	1

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91	Cell cycle analyses for understanding growth inhibition. , 2006, , 141-156.		1
92	Allelopathic Effects of Exotic Tree Species on Microorganisms and Plants in Galicia (Spain). Forestry Sciences, 1998, , 293-300.	0.4	1