

Manuel Joaquin Reigosa Roger

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90
papers

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93
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3,204
ext. citations

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5.28
L-index

#	Paper	IF	Citations
90	Ecophysiological Approach in Allelopathy. <i>Critical Reviews in Plant Sciences</i> , 1999 , 18, 577-608	5.6	161
89	Detoxification and transcriptome response in Arabidopsis seedlings exposed to the allelochemical benzoxazolin-2(3H)-one. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21867-81	5.4	139
88	Do Germination Indices Adequately Reflect Allelochemical Effects on the Germination Process?. <i>Journal of Chemical Ecology</i> , 1997 , 23, 2445-2453	2.7	134
87	The genus Acacia as invader: the characteristic case of Acacia dealbata Link in Europe. <i>Annals of Forest Science</i> , 2010 , 67, 101-101	3.1	133
86	Ecophysiological Approach in Allelopathy		132
85	Effect of phenolic compounds on the germination of six weeds species. <i>Plant Growth Regulation</i> , 1999 , 28, 83-88	3.2	124
84	Allelochemical stress inhibits growth, leaf water relations, PSII photochemistry, non-photochemical fluorescence quenching, and heat energy dissipation in three C3 perennial species. <i>Journal of Experimental Botany</i> , 2011 , 62, 4533-45	7	91
83	Phytotoxic effects of 21 plant secondary metabolites on Arabidopsis thaliana germination and root growth. <i>Journal of Chemical Ecology</i> , 2007 , 33, 1456-66	2.7	90
82	Allelopathic interference of invasive Acacia dealbata Link on the physiological parameters of native understory species. <i>Plant Ecology</i> , 2011 , 212, 403-412	1.7	71
81	Phenotypic plasticity and acclimation to water deficits in velvet-grass: a long-term greenhouse experiment. Changes in leaf morphology, photosynthesis and stress-induced metabolites. <i>Journal of Plant Physiology</i> , 2000 , 157, 383-393	3.6	57
80	Whole plant response of lettuce after root exposure to BOA (2(3H)-benzoxazolinone). <i>Journal of Chemical Ecology</i> , 2005 , 31, 2689-703	2.7	54
79	Allelopathic effects of Acacia melanoxylon R.Br. phyllodes during their decomposition. <i>Forest Ecology and Management</i> , 1995 , 77, 53-63	3.9	54
78	Citral induces auxin and ethylene-mediated malformations and arrests cell division in Arabidopsis thaliana roots. <i>Journal of Chemical Ecology</i> , 2013 , 39, 271-82	2.7	53
77	The natural compound benzoxazolin-2(3H)-one selectively retards cell cycle in lettuce root meristems. <i>Phytochemistry</i> , 2008 , 69, 2172-9	4	51
76	Release of allelochemical agents from litter, throughfall, and topsoil in plantations of Eucalyptus globulus Labill in Spain. <i>Journal of Chemical Ecology</i> , 1991 , 17, 147-60	2.7	51
75	Comparative analysis of allelopathic effects produced by four forestry species during decomposition process in their soils in Galicia (NW Spain). <i>Journal of Chemical Ecology</i> , 1994 , 20, 3005-15	2.7	47
74	Allelopathy 2006 ,		44

73	Allelopathic Effects of Tree Species on Some Soil Microbial Populations and Herbaceous Plants. <i>Biologia Plantarum</i> , 2001 , 44, 269-275	2.1	43
72	The natural compound trans-chalcone induces programmed cell death in <i>Arabidopsis thaliana</i> roots. <i>Plant, Cell and Environment</i> , 2012 , 35, 1500-17	8.4	42
71	Allelopathic Evidence in the Poaceae. <i>Botanical Review, The</i> , 2003 , 69, 300-319	3.8	41
70	Terpenoid trans-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	3.7	39
69	Classification and regression trees (CARTs) for modelling the sorption and retention of heavy metals by soil. <i>Journal of Hazardous Materials</i> , 2009 , 167, 615-24	12.8	39
68	BIOLOGICAL ACTIVITIES AND NOVEL APPLICATIONS OF CHALCONES. <i>Planta Daninha</i> , 2016 , 34, 607-616	6.7	39
67	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	1.2	38
66	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	3.7	37
65	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, 1290-8	5.4	35
64	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	1.2	35
63	Allelopathy and abiotic stress 2006 , 171-209		35
62	Allelopathic research in Brazil. <i>Acta Botanica Brasilica</i> , 2013 , 27, 629-646	1	33
61	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	33
60	The early response of <i>Arabidopsis thaliana</i> to cadmium- and copper-induced stress. <i>Environmental and Experimental Botany</i> , 2012 , 78, 1-9	5.9	30
59	<i>Eucalyptus globulus</i> Leaves Incorporated as Green Manure for Weed Control in Maize. <i>Weed Science</i> , 2013 , 61, 154-161	2	30
58	A tree regression analysis of factors determining the sorption and retention of heavy metals by soil. <i>Geoderma</i> , 2008 , 147, 75-85	6.7	30
57	Natural product coumarins: biological and pharmacological perspectives. <i>Biologia (Poland)</i> , 2019 , 74, 863-888	1.5	29
56	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	2.7	29

55	Unravelling the bioherbicide potential of <i>Eucalyptus globulus</i> Labill: Biochemistry and effects of its aqueous extract. <i>PLoS ONE</i> , 2018 , 13, e0192872	3.7	29
54	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	10.2	28
53	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	27
52	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	5.4	27
51	Individual and joint activity of terpenoids, isolated from <i>Calamintha nepeta</i> extract, on <i>Arabidopsis thaliana</i> . <i>Natural Product Research</i> , 2013 , 27, 2297-303	2.3	25
50	Rosmarinic acid induces programmed cell death in <i>Arabidopsis</i> seedlings through reactive oxygen species and mitochondrial dysfunction. <i>PLoS ONE</i> , 2018 , 13, e0208802	3.7	23
49	Auxin-like effects of the natural coumarin scopoletin on <i>Arabidopsis</i> cell structure and morphology. <i>Journal of Plant Physiology</i> , 2017 , 218, 45-55	3.6	22
48	The Phytotoxic Potential of the Terpenoid Citral on Seedlings and Adult Plants. <i>Weed Science</i> , 2013 , 61, 469-481	2	21
47	Imaging chlorophyll a fluorescence reveals specific spatial distributions under different stress conditions. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2011 , 206, 836-844	1.9	21
46	Early senescence induced by 2-3H-benzoxazolinone (BOA) in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2011 , 168, 863-70	3.6	21
45	Reduced photosynthetic activity is directly correlated with 2-(3H)-benzoxazolinone accumulation in lettuce leaves. <i>Journal of Chemical Ecology</i> , 2010 , 36, 205-9	2.7	21
44	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> . <i>PLoS ONE</i> , 2015 , 10, e0114826	3.7	20
43	Analysis of the Importance of Oxides and Clays in Cd, Cr, Cu, Ni, Pb and Zn Adsorption and Retention with Regression Trees. <i>PLoS ONE</i> , 2017 , 12, e0168523	3.7	19
42	Phytotoxic Potential of Trans-chalcone on Crop Plants and Model Species. <i>Journal of Plant Growth Regulation</i> , 2014 , 33, 181-194	4.7	19
41	Comparative physiological effects of three allelochemicals and two herbicides on <i>Dactylis glomerata</i> . <i>Acta Physiologiae Plantarum</i> , 2002 , 24, 385-392	2.6	19
40	Higher peroxidase activity, leaf nutrient contents and carbon isotope composition changes in <i>Arabidopsis thaliana</i> are related to rutin stress. <i>Journal of Plant Physiology</i> , 2014 , 171, 1325-33	3.6	18
39	Seedling growth, leaf water status and signature of stable carbon isotopes in C3 perennials exposed to natural phytochemicals. <i>Australian Journal of Botany</i> , 2012 , 60, 676	1.2	18
38	Asymmetric small-scale distribution and allelopathy: Interaction between <i>Rumex obtusifolius</i> L. and meadow species. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1775-86	2.7	18

37	Evaluation of photosynthetic performance and carbon isotope discrimination in perennial ryegrass (<i>Lolium perenne</i> L.) under allelochemicals stress. <i>Ecotoxicology</i> , 2017 , 26, 613-624	2.9	16
36	Benzoxazolin-2(3H)-one (BOA) induced changes in leaf water relations, photosynthesis and carbon isotope discrimination in <i>Lactuca sativa</i> . <i>Plant Physiology and Biochemistry</i> , 2011 , 49, 825-34	5.4	16
35	<i>Rumex obtusifolius</i> L: Release of allelochemical agents and their influence on small-scale spatial distribution of meadow species. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1763-73	2.7	15
34	On the suitability of <i>Eucalyptus globulus</i> green manure for field weed control. <i>Crop Protection</i> , 2019 , 121, 57-65	2.7	14
33	Introduction to allelopathy 2006 , 1-9		14
32	Biochemical, physiological and isotopic responses to natural product p-hydroxybenzoic acid in Cocksfoot (<i>Dactylis glomerata</i> L.). <i>Plant Growth Regulation</i> , 2015 , 75, 783-792	3.2	13
31	The plant secondary metabolite citral alters water status and prevents seed formation in <i>Arabidopsis thaliana</i> . <i>Plant Biology</i> , 2016 , 18, 423-32	3.7	13
30	Faba bean as green manure for field weed control in maize. <i>Weed Research</i> , 2018 , 58, 437-449	1.9	13
29	Activities and Novel Applications of Secondary Metabolite Coumarins. <i>Planta Daninha</i> , 2018 , 36,	0.7	12
28	Allelopathic Potential of Aqueous Extract from R. Br. on. <i>Plants</i> , 2020 , 9,	4.5	12
27	Degradation of fuel oil in salt marsh soils affected by the Prestige oil spill. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1020-9	12.8	11
26	Mode of Action of Monoterpenes in Plant-Plant Interactions. <i>Current Bioactive Compounds</i> , 2012 , 8, 80-88.9		11
25	Imaging of Chlorophyll Fluorescence in Natural Compound-Induced Stress Detection. <i>Frontiers in Plant Science</i> , 2020 , 11, 583590	6.2	11
24	Plasma membrane depolarization precedes photosynthesis damage and long-term leaf bleaching in (E)-chalcone-treated <i>Arabidopsis</i> shoots. <i>Journal of Plant Physiology</i> , 2017 , 218, 56-65	3.6	10
23	Tolerance of <i>Arabidopsis thaliana</i> to the Allelochemical Protocatechualdehyde. <i>Journal of Plant Growth Regulation</i> , 2012 , 31, 406-415	4.7	9
22	2-3H-Benzoxazolinone (BOA) induces loss of salt tolerance in salt-adapted plants. <i>Plant Biology</i> , 2009 , 11, 582-90	3.7	9
21	A natural indole alkaloid, norharmine, affects PIN expression patterns and compromises root growth in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 378-390	5.4	9
20	Morpho-physiological responses of tall wheatgrass populations to different levels of water stress. <i>PLoS ONE</i> , 2018 , 13, e0209281	3.7	9

19	Unraveling Sorghum Allelopathy in Agriculture: Concepts and Implications. <i>Plants</i> , 2021 , 10,	4.5	9
18	Genomic Approaches to Understanding Allelochemical Effects on Plants 2008 , 157-167		7
17	Transcriptome responses to the natural phytotoxin t-chalcone in <i>Arabidopsis thaliana</i> L. <i>Pest Management Science</i> , 2019 , 75, 2490-2504	4.6	6
16	The role of peroxidases on the mode of action of chalcone in <i>Arabidopsis</i> roots. <i>Plant Signaling and Behavior</i> , 2012 , 7, 1274-6	2.5	6
15	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	1.6	5
14	Genetic evidence for plural introduction pathways of the invasive weed Paterson's curse (<i>Echium plantagineum</i> L.) to southern Australia. <i>PLoS ONE</i> , 2019 , 14, e0222696	3.7	4
13	Phytotoxic Activity of the Natural Compound Norharmane on Crops, Weeds and Model Plants. <i>Plants</i> , 2020 , 9,	4.5	4
12	Secondary Metabolites, Ferulic Acid and -Hydroxybenzoic Acid Induced Toxic Effects on Photosynthetic Process in <i>L. Biomolecules</i> , 2021 , 11,	5.9	4
11	Photosynthesis of natural cocksfoot populations under water and salt stresses. <i>Biologia Plantarum</i> , 1996 , 38, 413	2.1	3
10	Transcriptome and binding data indicate that citral inhibits single strand DNA-binding proteins. <i>Physiologia Plantarum</i> , 2020 , 169, 99-109	4.6	3
9	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	5.1	2
8	Carbon ($\delta^{13}C$) and Nitrogen ($\delta^{15}N$) Stable Isotope Composition Provide New Insights into Phenotypic Plasticity in Broad Leaf Weed under Allelochemical Stress. <i>Molecules</i> , 2018 , 23,	4.8	2
7	Forest ecosystems and allelopathy 2006 , 451-463		2
6	Elucidating the Phytotoxic Potential of Natural Compounds 2018 , 363-378		1
5	Cell cycle analyses for understanding growth inhibition 2006 , 141-156		1
4	Allelopathy in Agroecosystems in Spain. <i>The Journal of Crop Improvement: Innovations in Practice and Research</i> , 2001 , 4, 415-432		1
3	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	3.9	1
2	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	5.4	0

- 1 Allelopathic Effects of Exotic Tree Species on Microorganisms and Plants in Galicia (Spain). *Forestry Sciences*, **1998**, 293-300