

Jose L Gonzalez-Andujar

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

3,161
citations

201674

27
h-index

189892

50
g-index

130
all docs

130
docs citations

130
times ranked

4618
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Modelling the Population Dynamics of <i>Avena sterilis</i> Under Dry-Land Cereal Cropping Systems. <i>Journal of Applied Ecology</i> , 1991, 28, 16.	4.0	84
3	Dispersal in a Metapopulation Neighbourhood Model of an Annual Plant with a Seedbank. <i>Journal of Ecology</i> , 1993, 81, 453.	4.0	66
4	Tillage system did not affect weed diversity in a 23-year experiment in Mediterranean dryland. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 102-105.	5.3	61
5	Chaos, metapopulations and dispersal. <i>Ecological Modelling</i> , 1993, 65, 255-263.	2.5	58
6	Spatial distribution of annual grass weed populations in winter cereals. <i>Crop Protection</i> , 2003, 22, 629-633.	2.1	57
7	Models for the Herbicidal Control of the Seed Bank of <i>Avena sterilis</i> : The Effects of Spatial and Temporal Heterogeneity and of Dispersal. <i>Journal of Applied Ecology</i> , 1995, 32, 578.	4.0	52
8	Agronomic performance, seed quality and nitrogen uptake of <i>Descurainia sophia</i> in response to different nitrogen rates and water regimes. <i>Industrial Crops and Products</i> , 2013, 44, 583-592.	5.2	51
9	Expert system for pests, diseases and weeds identification in olive crops. <i>Expert Systems With Applications</i> , 2009, 36, 3278-3283.	7.6	49
10	Predicting weed emergence in maize crops under two contrasting climatic conditions. <i>Weed Research</i> , 2009, 49, 251-260.	1.7	48
11	Using thermal and hydrothermal time to model seedling emergence of <i>Avena sterilis</i> ssp. <i>ludoviciana</i> in Spain. <i>Weed Research</i> , 2005, 45, 149-156.	1.7	47
12	An investigation to enhance understanding of the stimulation of weed seedling emergence by soil disturbance. <i>Weed Research</i> , 2014, 54, 1-12.	1.7	45
13	Modelling the population dynamics of annual ryegrass (<i>Lolium rigidum</i>) under various weed management systems. <i>Crop Protection</i> , 2004, 23, 723-729.	2.1	41
14	Mortality During Dispersal and the Stability of a Metapopulation. <i>Journal of Theoretical Biology</i> , 1997, 186, 389-396.	1.7	40
15	Spatial and temporal analysis of <i>Convolvulus arvensis</i> L. populations over four growing seasons. <i>European Journal of Agronomy</i> , 2004, 21, 287-296.	4.1	39
16	Comparison of fitting weed seedling emergence models with nonlinear regression and genetic algorithm. <i>Computers and Electronics in Agriculture</i> , 2009, 65, 19-25.	7.7	39
17	A Thermal Time Model to Predict Corn Poppy (<i>Papaver rhoeas</i>) Emergence in Cereal Fields. <i>Weed Science</i> , 2009, 57, 660-664.	1.5	38
18	Characterization of the germination and emergence response to temperature and soil moisture of <i>Avena fatua</i> and <i>A. sterilis</i> . <i>Weed Research</i> , 1990, 30, 289-295.	1.7	37

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19	A hydrothermal seedling emergence model for <i>Conyza bonariensis</i> . Weed Research, 2013, 53, 213-220.	1.7	37
20	Intensity of soil disturbance shapes response trait diversity of weed communities: The long-term effects of different tillage systems. Agriculture, Ecosystems and Environment, 2015, 207, 101-108.	5.3	36
21	The role of field margins in supporting wild bees in Mediterranean cereal agroecosystems: Which biotic and abiotic factors are important?. Agriculture, Ecosystems and Environment, 2017, 247, 216-224.	5.3	34
22	Competitive Ability Effects of <i>Datura stramonium</i> L. and <i>Xanthium strumarium</i> L. on the Development of Maize (<i>Zea mays</i>) Seeds. Plants, 2021, 10, 1922.	3.5	33
23	Discrimination of weed seedlings, wheat (<i>Triticum aestivum</i>) stubble and sunflower (<i>Helianthus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 2.1 32	2.1	32
24	Seed germination response to temperature for a range of international populations of <i>Conyza canadensis</i> . Weed Research, 2014, 54, 178-185.	1.7	31
25	Strategies for the control of <i>Avena sterilis</i> in winter wheat production systems in central Spain. Crop Protection, 1993, 12, 617-623.	2.1	30
26	Predicting field weed emergence with empirical models and soft computing techniques. Weed Research, 2016, 56, 415-423.	1.7	30
27	Development and evaluation of a model for predicting <i>Lolium rigidum</i> emergence in winter cereal crops in the Mediterranean area. Weed Research, 2013, 53, 269-278.	1.7	28
28	The Effect of Dispersal between Chaotic and Non-Chaotic Populations within a Metapopulation. Oikos, 1993, 66, 555.	2.7	27
29	Development of <i>Pleospora allii</i> on Garlic Debris Infected by <i>Stemphylium vesicarium</i> . European Journal of Plant Pathology, 1998, 104, 861-870.	1.7	26
30	SIMCE: An expert system for seedling weed identification in cereals. Computers and Electronics in Agriculture, 2006, 54, 115-123.	7.7	26
31	Expert system for integrated plant protection in pepper (<i>Capsicum annuum</i> L.). Expert Systems With Applications, 2009, 36, 8975-8979.	7.6	26
32	Weed Diversity Affects Soybean and Maize Yield in a Long Term Experiment in Michigan, USA. Frontiers in Plant Science, 2017, 8, 236.	3.6	26
33	Population Cycles Produced by Delayed Density Dependence in an Annual Plant. American Naturalist, 2006, 168, 318-322.	2.1	25
34	Characterizing Population Growth Rate of <i>Convolvulus arvensis</i> in Wheat-Sunflower No-Tillage Systems. Crop Science, 2005, 45, 2106-2112.	1.8	23
35	Modelling the population dynamics of <i>Papaver rhoeas</i> under various weed management systems in a Mediterranean climate. Weed Research, 2008, 48, 136-146.	1.7	23
36	Field evaluation of a decision support system for herbicidal control of <i>Avena sterilis</i> ssp. <i>ludoviciana</i> in winter wheat. Weed Research, 2010, 50, 83-88.	1.7	21

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37	Spatial distribution of weed diversity within a cereal field. <i>Agronomy for Sustainable Development</i> , 2009, 29, 491-496.	5.3	20
38	Modeling effects of spatial patterns on the seed bank dynamics of <i>Alopecurus myosuroides</i> . <i>Weed Science</i> , 1999, 47, 697-705.	1.5	19
39	Influence of herbicide treatments on the population dynamics of <i>Avena sterilis</i> ssp. <i>ludoviciana</i> (Durieu) Nyman in winter wheat crops. <i>Weed Research</i> , 1987, 27, 375-383.	1.7	18
40	Mortality During Dispersal Stabilizes Local Population Fluctuations. <i>Journal of Animal Ecology</i> , 1997, 66, 289.	2.8	18
41	Spatial distribution and mapping of crenate broomrape infestations in continuous broad bean cropping. <i>Weed Science</i> , 2001, 49, 773-779.	1.5	18
42	Competitive and allelopathic interference between soybean crop and annual wormwood (<i>Artemisia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.1	18
43	Computing statistical indices for hydrothermal times using weed emergence data. <i>Journal of Agricultural Science</i> , 2011, 149, 701-712.	1.3	18
44	Modeling the effect of farmers' decisions on the population dynamics of winter wild oat in an agricultural landscape. <i>Weed Science</i> , 2001, 49, 414-422.	1.5	17
45	Disentangling the effects of feedback structure and climate on Poaceae annual airborne pollen fluctuations and the possible consequences of climate change. <i>Science of the Total Environment</i> , 2015, 530-531, 103-109.	8.0	17
46	Effect of immigration on a chaotic insect population. <i>Ecological Research</i> , 1998, 13, 259-261.	1.5	16
47	Current status in herbicide resistance in <i>Lolium rigidum</i> in winter cereal fields in Spain: Evolution of resistance 12 years after. <i>Crop Protection</i> , 2017, 102, 10-18.	2.1	16
48	Wheat pollen dispersal under semiarid field conditions: potential outcrossing with <i>Triticum aestivum</i> and <i>Triticum turgidum</i> . <i>Euphytica</i> , 2007, 156, 25-37.	1.2	15
49	Controlling annual weeds in cereals by deploying crop rotation at the landscape scale: <i>Avena sterilis</i> as an example. <i>Ecological Applications</i> , 2012, 22, 982-992.	3.8	15
50	Demography and population dynamic of the arable weed <i>Phalaris brachystachys</i> L. (short-spiked canary) Tj ETQq0 0 0 rgBT /Overlock 10	2.1	14
51	Distribution and frequency of resistance to four herbicide modes of action in <i>Lolium rigidum</i> Gaud. accessions randomly collected in winter cereal fields in Spain. <i>Crop Protection</i> , 2010, 29, 1248-1256.	2.1	14
52	Aerial seed bank dynamics and seedling emergence patterns in two annual Mediterranean Asteraceae. <i>Journal of Vegetation Science</i> , 2010, 21, 541-550.	2.2	14
53	The structural classification of field boundaries in Mediterranean arable cropping systems allows the prediction of weed abundances in the boundary and in the adjacent crop. <i>Weed Research</i> , 2019, 59, 300-311.	1.7	14
54	Simulation Models on the Ecology and Management of Arable Weeds: Structure, Quantitative Insights, and Applications. <i>Agronomy</i> , 2020, 10, 1611.	3.0	14

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55	Cereal aphids expert system (CAES): Identification and decision making. <i>Computers and Electronics in Agriculture</i> , 1993, 8, 293-300.	7.7	13
56	A matrix model for the population dynamics and vertical distribution of weed seedbanks. <i>Ecological Modelling</i> , 1997, 97, 117-120.	2.5	13
57	Assessment of a decision support system for chemical control of annual ryegrass (<i>Lolium</i>) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.7	13
58	Spatially explicit bioeconomic model for weed management in cereals: validation and evaluation of management strategies. <i>Journal of Applied Ecology</i> , 2015, 52, 240-249.	4.0	13
59	Evaluation of a decision support system for crop protection in apple orchards. <i>Computers in Industry</i> , 2019, 107, 99-103.	9.9	13
60	Climate Effects and Feedback Structure Determining Weed Population Dynamics in a Long-Term Experiment. <i>PLoS ONE</i> , 2012, 7, e30569.	2.5	13
61	Potential distribution of <i>Avena sterilis</i> L. in Europe under climate change. <i>Annals of Applied Biology</i> , 2014, 165, 53-61.	2.5	12
62	A comparative study between non-linear regression and artificial neural network approaches for modelling wild oat (<i>Avena fatua</i>) field emergence. <i>Journal of Agricultural Science</i> , 2014, 152, 254-262.	1.3	12
63	High control measures cannot produce extinction in weed populations. <i>Ecological Modelling</i> , 1996, 91, 293-294.	2.5	11
64	Spatial distribution and temporal stability of crenate broomrape (<i>Orobanche crenata</i> Forsk) in faba bean (<i>Vicia faba</i> L.): A long-term study at two localities. <i>Crop Protection</i> , 2010, 29, 717-720.	2.1	11
65	Modeling <i>Bromus diandrus</i> Seedling Emergence Using Nonparametric Estimation. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 64-86.	1.4	11
66	Prediction of annual weed seed emergence in garlic (<i>Allium sativum</i> L.) using soil thermal time. <i>Scientia Horticulturae</i> , 2014, 168, 189-192.	3.6	11
67	Spatio-Temporal Dynamics of Maize Yield Water Constraints under Climate Change in Spain. <i>PLoS ONE</i> , 2014, 9, e98220.	2.5	10
68	Interactions between the tillage system and crop rotation on the crop yield and weed populations under arid conditions. <i>Weed Biology and Management</i> , 2014, 14, 198-208.	1.4	10
69	Short communication. Modelling of the population dynamics of <i>Phalaris brachystachys</i> Link under various herbicide control scenarios in a Mediterranean climate. <i>Spanish Journal of Agricultural Research</i> , 2009, 7, 155.	0.6	10
70	Identifying the effect of density dependence, agricultural practices and climate variables on the long-term dynamics of weed populations. <i>Weed Research</i> , 2014, 54, 556-564.	1.7	9
71	Can the storage effect hypothesis explain weed coexistence on the Broadbalk long-term fertiliser experiment?. <i>Weed Research</i> , 2014, 54, 445-456.	1.7	9
72	A comparative study between nonlinear regression and nonparametric approaches for modelling <i>Phalaris paradoxa</i> seedling emergence. <i>Weed Research</i> , 2016, 56, 367-376.	1.7	9

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73	Predicting global geographical distribution of <i>Lolium rigidum</i> (rigid ryegrass) under climate change. <i>Journal of Agricultural Science</i> , 2016, 154, 755-764.	1.3	9
74	Crop production structure and stability under climate change in South America. <i>Annals of Applied Biology</i> , 2018, 172, 65-73.	2.5	9
75	An Overview of Environmental Cues That Affect Germination of Nondormant Seeds. <i>Seeds</i> , 2022, 1, 146-151.	1.8	9
76	Simple rules with complex outcomes. <i>Nature</i> , 1997, 387, 241-242.	27.8	8
77	Use of fractals and moments to describe olive cultivars. <i>Journal of Agricultural Science</i> , 2003, 141, 63-71.	1.3	8
78	Fluctuations in plant populations: role of exogenous and endogenous factors. <i>Journal of Vegetation Science</i> , 2012, 23, 640-646.	2.2	8
79	Infestation maps and spatial stability of main weed species in maize culture. <i>Planta Daninha</i> , 2014, 32, 275-282.	0.5	8
80	A cohort-based stochastic model of the population dynamic and long-term management of <i>Conyza bonariensis</i> in fruiting tree crops. <i>Crop Protection</i> , 2016, 80, 15-20.	2.1	8
81	Development and validation of a simulation model for hairy vetch (<i>Vicia villosa</i> Roth) self-regeneration under different crop rotations. <i>Field Crops Research</i> , 2019, 235, 79-86.	5.1	8
82	Short communication. Integration of emergence and population dynamic models for long term weed management using wild oat (<i>Avena fatua</i> L.) as an example. <i>Spanish Journal of Agricultural Research</i> , 2007, 5, 199.	0.6	8
83	Two sides of one medal: Arable weed vegetation of Europe in phytosociological data compared to agronomical weed surveys. <i>Applied Vegetation Science</i> , 2022, 25, .	1.9	8
84	Modelling the population dynamic and management of <i>Bromus diandrus</i> in a non-tillage system. <i>Crop Protection</i> , 2013, 43, 128-133.	2.1	7
85	Characterization and Modeling of Itchgrass (<i>Rottboellia cochinchinensis</i>) Biphasic Seedling Emergence Patterns in the Tropics. <i>Weed Science</i> , 2015, 63, 623-630.	1.5	7
86	A modelling approach for predicting the initial phase of Egyptian broomrape (<i>Phelipanche aegyptiaca</i>) parasitism in potato. <i>Crop Protection</i> , 2017, 100, 51-56.	2.1	7
87	Disentangling weed diversity and weather impacts on long-term crop productivity in a wheat-legume rotation. <i>Field Crops Research</i> , 2019, 232, 24-29.	5.1	7
88	Predicting maize yield in a multiple species competition with <i>Xanthium strumarium</i> and <i>Amaranthus retroflexus</i> : Comparing of approaches to modeling herbicide performance. <i>Crop Protection</i> , 2013, 45, 15-21.	2.1	6
89	Arable Weeds and Management in Europe. <i>Vegetation Classification and Survey</i> , 0, 1, 169-170.	0.0	6
90	A Bioeconomic Model for the Analysis of Control Strategies for <i>Lolium rigidum</i> and <i>Avena sterilis</i> ssp. <i>ludoviciana</i> in Winter Wheat. <i>International Journal of Plant Production</i> , 2020, 14, 37-42.	2.2	5

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91	Validation of predictive empirical weed emergence models of <i>Abutilon theophrasti</i> Medik based on intercontinental data. <i>Weed Research</i> , 2020, 60, 297-302.	1.7	5
92	Predicting junglerice (<i>Echinochloa colona</i> L.) emergence as a function of thermal time in the humid pampas of Argentina. <i>International Journal of Pest Management</i> , 2020, , 1-10.	1.8	5
93	Local Factors Rather than the Landscape Context Explain Species Richness and Functional Trait Diversity and Responses of Plant Assemblages of Mediterranean Cereal Field Margins. <i>Plants</i> , 2020, 9, 778.	3.5	5
94	Residual soil P values for permanent pastures on reclaimed scrubland from Galicia (NW Spain).. <i>Fertilizer Research</i> , 1986, 9, 199-212.	0.5	4
95	Interactions between reduced rate of imazethapyr and multiple weed speciesâ€“soyabean interference in a semiâ€“arid environment. <i>Weed Research</i> , 2012, 52, 242-251.	1.7	4
96	Demography of <i>Conyza bonariensis</i> (Asteraceae) in a ruderal Mediterranean habitat. <i>Phytoparasitica</i> , 2018, 46, 263-272.	1.2	4
97	Analysis of Different Management Strategies for Annual Ryegrass (<i>Lolium rigidum</i>) Based on a Population Dynamic Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1830041.	1.7	4
98	Achene dimorphism and protracted release: a trait syndrome allowing continuous reshaping of the seed-dispersal kernel in the Mediterranean species <i>Pallenis spinosa</i> . <i>Plant Ecology and Diversity</i> , 2018, 11, 429-439.	2.4	4
99	Coâ€“operative versus nonâ€“operative farmers' weed control decisions in an agricultural landscape. <i>Weed Research</i> , 2018, 58, 327-330.	1.7	4
100	Modeling the Population Dynamics of a Community of Two Grass Weeds of Winter Wheat in a Mediterranean Area. <i>International Journal of Plant Production</i> , 2018, 12, 219-223.	2.2	4
101	Modeling the Population Dynamics and Management of Italian Ryegrass under Two Climatic Scenarios in Brazil. <i>Plants</i> , 2020, 9, 325.	3.5	4
102	IWMPRAISE â€“ An EU Horizon 2020 Project Providing Integrated Weed Management Solutions to European Farmers. <i>Outlooks on Pest Management</i> , 2020, 31, 152-159.	0.2	4
103	Herbicidal strategies to control <i>Phalaris brachystachys</i> in a wheat-sunflower rotation: a simulation approach. <i>Spanish Journal of Agricultural Research</i> , 2012, 10, 1101.	0.6	4
104	Logistic model for describing the pattern of flight of <i>Kalotermes flavicollis</i> in sherry vineyards. <i>EPPO Bulletin</i> , 2003, 33, 331-333.	0.8	3
105	Development and Validation of a Predictive Model for Seedling Emergence of Volunteer Canola (<i>Brassica napus</i>) Under Semi-Arid Climate. <i>International Journal of Plant Production</i> , 2018, 12, 53-60.	2.2	3
106	Analysis of intervalâ€“grouped data in weed science: The binnednp Rcpp package. <i>Ecology and Evolution</i> , 2019, 9, 10903-10915.	1.9	3
107	Short communication: A predictive model for the time course of seedling emergence of <i>Phalaris brachystachys</i> (short-spiked canary grass) in wheat fields. <i>Spanish Journal of Agricultural Research</i> , 2021, 19, e10SC02.	0.6	3
108	Simulation of control strategies for decision-making regarding <i>Digitaria sanguinalis</i> in glyphosate-resistant soybeans. <i>Ciencia E Investigacion Agraria</i> , 2012, 39, 299-308.	0.2	3

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109	Reversals of chaos in biological control systems. <i>Journal of Theoretical Biology</i> , 1995, 175, 603.	1.7	2
110	Weed Control Models. , 2008, , 3776-3780.		2
111	Weed Seed Bank Diversity in Dryland Cereal Fields: Does it Differ Along the Field and Between Fields with Different Landscape Structure?. <i>Agronomy</i> , 2020, 10, 575.	3.0	2
112	The Attractiveness of Five Common Mediterranean Weeds to Pollinators. <i>Agronomy</i> , 2021, 11, 1314.	3.0	2
113	Introduction to Decision Support Systems. , 2020, , 25-38.		2
114	Short communication: Evaluation of a model for predicting <i>Avena fatua</i> and <i>Descurainia sophia</i> seed emergence in winter rapeseed. <i>Spanish Journal of Agricultural Research</i> , 2017, 15, e03SC01.	0.6	2
115	Differences in Germination of ACCase-Resistant Biotypes Containing Isoleucine-1781-Leucine Mutation and Susceptible Biotypes of Wild Oat (<i>Avena sterilis</i> ssp. <i>ludoviciana</i>). <i>Plants</i> , 2021, 10, 2350.	3.5	2
116	Mortality can produce predictable dynamics in chaotic populations. <i>Ecological Research</i> , 1997, 12, 301-303.	1.5	1
117	Demographics of glyphosate-resistant and susceptible Italian ryegrass populations from Paran�. <i>Advances in Weed Science</i> , 2021, 39, .	1.2	1
118	Effect of Barley Sowing Density on the Integrated Weed Management of <i>Lolium rigidum</i> (Annual) Tj ETQq0 0 0 rgBT JOverlock 10 Tf 50	3.0	1
119	Season-long seed dispersal patterns of the invasive weed <i>Erigeron bonariensis</i> in south-western Spain. <i>Crop Protection</i> , 2021, 148, 105720.	2.1	1
120	FRACTALS AND PLANT WATER USE EFFICIENCY. , 2004, , .		1
121	Sources, sinks and chaos. <i>Trends in Ecology and Evolution</i> , 1997, 12, 161.	8.7	0
122	<i>Weed Research</i> â€œ our aims and editorial policies. <i>Weed Research</i> , 2015, 55, 437-440.	1.7	0
123	Dynamics in the Control of Annual Ryegrass Considering Model Parameter Deviations. , 2018, , .		0
124	Development of a new thermal time model for describing tuber sprouting of Purple nutsedge (<i>Cyperus rotundus</i> L.). <i>Weed Research</i> , 2021, 61, 431-442.	1.7	0
125	Prediction of Italian ryegrass (<i>Lolium multiflorum</i> L.) emergence using soil thermal time. <i>Acta Scientiarum - Agronomy</i> , 0, 43, e52152.	0.6	0
126	ANALYSIS OF GEOGRAPHICAL DISTRIBUTION PATTERNS IN PLANTS USING FRACTALS. , 2006, , .		0

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127	AvenaNET and VallicoNET: DSS for <i>Avena sterilis</i> and <i>Lolium rigidum</i> Control in Spanish Dryland Cereal Crops. , 2020, , 299-309.		0
128	Using air thermal time to predict the time course of seedling emergence of <i>Avena sterilis</i> subsp. <i>sterilis</i> (sterile oat) under Mediterranean climate. AIMS Agriculture and Food, 2022, 7, 241-249.	1.6	0