Jose L Gonzalez-Andujar

List of Publications by Year
in descending order

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	Two sides of one medal: Arable weed vegetation of Europe in phytosociological data compared to agronomical weed surveys. Applied Vegetation Science, 2022, 25, .	1.9	8
2	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
3	An Overview of Environmental Cues That Affect Germination of Nondormant Seeds. Seeds, 2022, 1, 146-151.	1.8	9
4	Demographics of glyphosate-resistant and susceptible Italian ryegrass populations from ParanÃ¡. Advances in Weed Science, 2021, 39, .	1.2	1
5	The Attractiveness of Five Common Mediterranean Weeds to Pollinators. Agronomy, 2021, 11, 1314.	3.0	2
6	Development of a new thermal time model for describing tuber sprouting of Purple nutsedge (Cyperus rotundus L.). Weed Research, 2021, 61, 431-442.	1.7	0
7	Effect of Barley Sowing Density on the Integrated Weed Management of Lolium rigidum (Annual) Tj ETQq1 1 0.784314 rgBT /Overloc	3.0	1
8	Competitive Ability Effects of Datura stramonium L. and Xanthium strumarium L. on the Development of Maize (Zea mays) Seeds. Plants, 2021, 10, 1922.	3.5	33
9	Short communication: A predictive model for the time course of seedling emergence of Phalaris brachystachys (short-spiked canary grass) in wheat fields. Spanish Journal of Agricultural Research, 2021, 19, e10SC02.	0.6	3
10	Season-long seed dispersal patterns of the invasive weed Erigeron bonariensis in south-western Spain. Crop Protection, 2021, 148, 105720.	2.1	1
11	Differences in Germination of ACCase-Resistant Biotypes Containing Isoleucine-1781-Leucine Mutation and Susceptible Biotypes of Wild Oat (Avena sterilis ssp. ludoviciana). Plants, 2021, 10, 2350.	3.5	2
12	A Bioeconomic Model for the Analysis of Control Strategies for Lolium rigidum and Avena sterilis ssp. ludoviciana in Winter Wheat. International Journal of Plant Production, 2020, 14, 37-42.	2.2	5
13	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
14	Simulation Models on the Ecology and Management of Arable Weeds: Structure, Quantitative Insights, and Applications. Agronomy, 2020, 10, 1611.	3.0	14
15	Validation of predictive empirical weed emergence models of Abutilon theophrasti Medik based on intercontinental data. Weed Research, 2020, 60, 297-302.	1.7	5
16	Predicting junglerice (Echinochloa colona L.) emergence as a function of thermal time in the humid pampas of Argentina. International Journal of Pest Management, 2020, , 1-10.	1.8	5
17	Modeling the Population Dynamics and Management of Italian Ryegrass under Two Climatic Scenarios in Brazil. Plants, 2020, 9, 325.	3.5	4
18	Local Factors Rather than the Landscape Context Explain Species Richness and Functional Trait Diversity and Responses of Plant Assemblages of Mediterranean Cereal Field Margins. Plants, 2020, 9, 778.	3.5	5

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19	Weed Seed Bank Diversity in Dryland Cereal Fields: Does it Differ Along the Field and Between Fields with Different Landscape Structure?. Agronomy, 2020, 10, 575.	3.0	2
20	Introduction to Decision Support Systems. , 2020, , 25-38.		2
21	IWMPRAISE â€“ An EU Horizon 2020 Project Providing Integrated Weed Management Solutions to European Farmers. Outlooks on Pest Management, 2020, 31, 152-159.	0.2	4
22	AvenaNET and VallicoNET: DSS for Avena sterilis and Lolium rigidum Control in Spanish Dryland Cereal Crops. , 2020, , 299-309.		0
23	Analysis of intervalâ€grouped data in weed science: The binnednp Rcpp package. Ecology and Evolution, 2019, 9, 10903-10915.	1.9	3
24	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. Weed Research, 2019, 59, 300-311.	1.7	14
25	Development and validation of a simulation model for hairy vetch (Vicia villosa Roth) self-regeneration under different crop rotations. Field Crops Research, 2019, 235, 79-86.	5.1	8
26	Evaluation of a decision support system for crop protection in apple orchards. Computers in Industry, 2019, 107, 99-103.	9.9	13
27	Disentangling weed diversity and weather impacts on long-term crop productivity in a wheat-legume rotation. Field Crops Research, 2019, 232, 24-29.	5.1	7
28	Demography of Conyza bonariensis (Asteraceae) in a ruderal Mediterranean habitat. Phytoparasitica, 2018, 46, 263-272.	1.2	4
29	Crop production structure and stability under climate change in South America. Annals of Applied Biology, 2018, 172, 65-73.	2.5	9
30	Development and Validation of a Predictive Model for Seedling Emergence of Volunteer Canola (Brassica napus) Under Semi-Arid Climate. International Journal of Plant Production, 2018, 12, 53-60.	2.2	3
31	Dynamics in the Control of Annual Ryegrass Considering Model Parameter Deviations. , 2018, , .		0
32	Analysis of Different Management Strategies for Annual Ryegrass (Lolium rigidum) Based on a Population Dynamic Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830041.	1.7	4
33	Achene dimorphism and protracted release: a trait syndrome allowing continuous reshaping of the seed-dispersal kernel in the Mediterranean speciesPallenis spinosa. Plant Ecology and Diversity, 2018, 11, 429-439.	2.4	4
34	Coâ€operative versus nonâ€coâ€operative farmers' weed control decisions in an agricultural landscape. Weed Research, 2018, 58, 327-330.	1.7	4
35	Modeling the Population Dynamics of a Community of Two Grass Weeds of Winter Wheat in a Mediterranean Area. International Journal of Plant Production, 2018, 12, 219-223.	2.2	4
36	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

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37	A modelling approach for predicting the initial phase of Egyptian broomrape (Phelipanche aegyptiaca) parasitism in potato. Crop Protection, 2017, 100, 51-56.	2.1	7
38	Current status in herbicide resistance in Lolium rigidum in winter cereal fields in Spain: Evolution of resistance 12 years after. Crop Protection, 2017, 102, 10-18.	2.1	16
39	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
40	Short communication: Evaluation of a model for predicting Avena fatua and Descurainia sophia seed emergence in winter rapeseed. Spanish Journal of Agricultural Research, 2017, 15, e03SC01.	0.6	2
41	Predicting field weed emergence with empirical models and soft computing techniques. Weed Research, 2016, 56, 415-423.	1.7	30
42	A comparative study between nonlinear regression and nonparametric approaches for modelling Phalaris paradoxa seedling emergence. Weed Research, 2016, 56, 367-376.	1.7	9
43	Predicting global geographical distribution of Lolium rigidum (rigid ryegrass) under climate change. Journal of Agricultural Science, 2016, 154, 755-764.	1.3	9
44	A cohort-based stochastic model of the population dynamic and long-term management of Conyza bonariensis in fruiting tree crops. Crop Protection, 2016, 80, 15-20.	2.1	8
45	Weed Research â€“ our aims and editorial policies. Weed Research, 2015, 55, 437-440.	1.7	0
46	Disentangling the effects of feedback structure and climate on Poaceae annual airborne pollen fluctuations and the possible consequences of climate change. Science of the Total Environment, 2015, 530-531, 103-109.	8.0	17
47	Characterization and Modeling of Itchgrass (Rottboellia cochinchinensis) Biphasic Seedling Emergence Patterns in the Tropics. Weed Science, 2015, 63, 623-630.	1.5	7
48	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
49	Spatially explicit bioeconomic model for weed management in cereals: validation and evaluation of management strategies. Journal of Applied Ecology, 2015, 52, 240-249.	4.0	13
50	Spatio-Temporal Dynamics of Maize Yield Water Constraints under Climate Change in Spain. PLoS ONE, 2014, 9, e98220.	2.5	10
51	Infestation maps and spatial stability of main weed species in maize culture. Planta Daninha, 2014, 32, 275-282.	0.5	8
52	Identifying the effect of density dependence, agricultural practices and climate variables on the longâ€term dynamics of weed populations. Weed Research, 2014, 54, 556-564.	1.7	9
53	Interactions between the tillage system and crop rotation on the crop yield and weed populations under arid conditions. Weed Biology and Management, 2014, 14, 198-208.	1.4	10
54	Can the storage effect hypothesis explain weed coâ€existence on the Broadbalk longâ€term fertiliser experiment?. Weed Research, 2014, 54, 445-456.	1.7	9

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55	Potential distribution of Avena sterilis L. in Europe underÂclimate change. Annals of Applied Biology, 2014, 165, 53-61.	2.5	12
56	An investigation to enhance understanding of the stimulation of weed seedling emergence by soil disturbance. Weed Research, 2014, 54, 1-12.	1.7	45
57	Prediction of annual weed seed emergence in garlic (Allium sativum L.) using soil thermal time. Scientia Horticulturae, 2014, 168, 189-192.	3.6	11
58	Seed germination response to temperature for a range of international populations of <scp>C</scp>onyza canadensis. Weed Research, 2014, 54, 178-185.	1.7	31
59	A comparative study between non-linear regression and artificial neural network approaches for modelling wild oat (Avena fatua) field emergence. Journal of Agricultural Science, 2014, 152, 254-262.	1.3	12
60	Development and evaluation of a model for predicting Lolium rigidum emergence in winter cereal crops in the Mediterranean area. Weed Research, 2013, 53, 269-278.	1.7	28
61	Modeling Bromus diandrus Seedling Emergence Using Nonparametric Estimation. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 64-86.	1.4	11
62	Agronomic performance, seed quality and nitrogen uptake of Descurainia sophia in response to different nitrogen rates and water regimes. Industrial Crops and Products, 2013, 44, 583-592.	5.2	51
63	Predicting maize yield in a multiple species competition with Xanthium strumarium and Amaranthus retroflexus: Comparing of approaches to modeling herbicide performance. Crop Protection, 2013, 45, 15-21.	2.1	6
64	A hydrothermal seedling emergence model for Conyza bonariensis. Weed Research, 2013, 53, 213-220.	1.7	37
65	Modelling the population dynamic and management of Bromus diandrus in a non-tillage system. Crop Protection, 2013, 43, 128-133.	2.1	7
66	Controlling annual weeds in cereals by deploying crop rotation at the landscape scale: Avena sterilis as an example. Ecological Applications, 2012, 22, 982-992.	3.8	15
67	Fluctuations in plant populations: role of exogenous and endogenous factors. Journal of Vegetation Science, 2012, 23, 640-646.	2.2	8
68	Interactions between reduced rate of imazethapyr and multiple weed speciesâ€“soyabean interference in a semiâ€arid environment. Weed Research, 2012, 52, 242-251.	1.7	4
69	Climate Effects and Feedback Structure Determining Weed Population Dynamics in a Long-Term Experiment. PLoS ONE, 2012, 7, e30569.	2.5	13
70	Simulation of control strategies for decision-making regarding Digitaria sanguinalis in glyphosate-resistant soybeans. Ciencia E Investigacion Agraria, 2012, 39, 299-308.	0.2	3
71	Herbicidal strategies to control Phalaris brachystachys in a wheat-sunflower rotation: a simulation approach. Spanish Journal of Agricultural Research, 2012, 10, 1101.	0.6	4
72	Assessment of a decision support system for chemical control of annual ryegrass (Lolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.7	13

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73	Competitive and allelopathic interference between soybean crop and annual wormwood (Artemisia) Tj ETQq1 1 0.784314 rgBT /Overlo	4.1	18
74	Tillage system did not affect weed diversity in a 23-year experiment in Mediterranean dryland. Agriculture, Ecosystems and Environment, 2011, 140, 102-105.	5.3	61
75	Computing statistical indices for hydrothermal times using weed emergence data. Journal of Agricultural Science, 2011, 149, 701-712.	1.3	18
76	Spatial distribution and temporal stability of crenate broomrape (Orobanche crenata Forsk) in faba bean (Vicia faba L.): A long-term study at two localities. Crop Protection, 2010, 29, 717-720.	2.1	11
77	Distribution and frequency of resistance to four herbicide modes of action in Lolium rigidum Gaud. accessions randomly collected in winter cereal fields in Spain. Crop Protection, 2010, 29, 1248-1256.	2.1	14
78	Aerial seed bank dynamics and seedling emergence patterns in two annual Mediterranean Asteraceae. Journal of Vegetation Science, 2010, 21, 541-550.	2.2	14
79	Field evaluation of a decision support system for herbicidal control of Avena sterilis ssp. ludoviciana in winter wheat. Weed Research, 2010, 50, 83-88.	1.7	21
80	Comparison of fitting weed seedling emergence models with nonlinear regression and genetic algorithm. Computers and Electronics in Agriculture, 2009, 65, 19-25.	7.7	39
81	Expert system for integrated plant protection in pepper (Capsicum annuun L.). Expert Systems With Applications, 2009, 36, 8975-8979.	7.6	26
82	Predicting weed emergence in maize crops under two contrasting climatic conditions. Weed Research, 2009, 49, 251-260.	1.7	48
83	Expert system for pests, diseases and weeds identification in olive crops. Expert Systems With Applications, 2009, 36, 3278-3283.	7.6	49
84	Spatial distribution of weed diversity within a cereal field. Agronomy for Sustainable Development, 2009, 29, 491-496.	5.3	20
85	A Thermal Time Model to Predict Corn Poppy (Papaver rhoeas) Emergence in Cereal Fields. Weed Science, 2009, 57, 660-664.	1.5	38
86	Short communication. Modelling of the population dynamics of Phalaris brachystachys Link under various herbicide control scenarios in a Mediterranean climate. Spanish Journal of Agricultural Research, 2009, 7, 155.	0.6	10
87	Modelling the population dynamics of Papaver rhoeas under various weed management systems in a Mediterranean climate. Weed Research, 2008, 48, 136-146.	1.7	23
88	Weed Control Models. , 2008, , 3776-3780.		2
89	Wheat pollen dispersal under semiarid field conditions: potential outcrossing with Triticum aestivum and Triticum turgidum. Euphytica, 2007, 156, 25-37.	1.2	15
90	Short communication. Integration of emergence and population dynamic models for long term weed management using wild oat (Avena fatua L.) as an example. Spanish Journal of Agricultural Research, 2007, 5, 199.	0.6	8

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91	SIMCE: An expert system for seedling weed identification in cereals. Computers and Electronics in Agriculture, 2006, 54, 115-123.	7.7	26
92	Population Cycles Produced by Delayed Density Dependence in an Annual Plant. American Naturalist, 2006, 168, 318-322.	2.1	25
93	ANALYSIS OF GEOGRAPHICAL DISTRIBUTION PATTERNS IN PLANTS USING FRACTALS. , 2006, , .		0
94	Characterizing Population Growth Rate of Convolvulus arvensis in Wheatâ€“Sunflower Noâ€Tillage Systems. Crop Science, 2005, 45, 2106-2112.	1.8	23
95	Using thermal and hydrothermal time to model seedling emergence of Avena sterilis ssp. ludoviciana in Spain. Weed Research, 2005, 45, 149-156.	1.7	47
96	Demography and population dynamic of the arable weed Phalaris brachystachys L. (short-spiked canary) Tj ETQq0 0 0 rgBT /Overlock 10	2.1	14
97	Modelling the population dynamics of annual ryegrass (Lolium rigidum) under various weed management systems. Crop Protection, 2004, 23, 723-729.	2.1	41
98	Spatial and temporal analysis of Convolvulus arvensis L. populations over four growing seasons. European Journal of Agronomy, 2004, 21, 287-296.	4.1	39
99	FRACTALS AND PLANT WATER USE EFFICIENCY. , 2004, , .		1
100	Spatial distribution of annual grass weed populations in winter cereals. Crop Protection, 2003, 22, 629-633.	2.1	57
101	Logistic model for describing the pattern of flight of Kalotermes flavicollis in sherry vineyards. EPPO Bulletin, 2003, 33, 331-333.	0.8	3
102	Discrimination of weed seedlings, wheat (Triticum aestivum) stubble and sunflower (Helianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.1	32
103	Use of fractals and moments to describe olive cultivars. Journal of Agricultural Science, 2003, 141, 63-71.	1.3	8
104	Spatial distribution and mapping of crenate broomrape infestations in continuous broad bean cropping. Weed Science, 2001, 49, 773-779.	1.5	18
105	Modeling the effect of farmers' decisions on the population dynamics of winter wild oat in an agricultural landscape. Weed Science, 2001, 49, 414-422.	1.5	17
106	Modeling effects of spatial patterns on the seed bank dynamics ofAlopecurus myosuroides. Weed Science, 1999, 47, 697-705.	1.5	19
107	Development of Pleospora allii on Garlic Debris Infected by Stemphylium vesicarium. European Journal of Plant Pathology, 1998, 104, 861-870.	1.7	26
108	Effect of immigration on a chaotic insect population. Ecological Research, 1998, 13, 259-261.	1.5	16

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109	Mortality During Dispersal Stabilizes Local Population Fluctuations. Journal of Animal Ecology, 1997, 66, 289.	2.8	18
110	Sources, sinks and chaos. Trends in Ecology and Evolution, 1997, 12, 161.	8.7	0
111	A matrix model for the population dynamics and vertical distribution of weed seedbanks. Ecological Modelling, 1997, 97, 117-120.	2.5	13
112	Simple rules with complex outcomes. Nature, 1997, 387, 241-242.	27.8	8
113	Mortality can produce predictable dynamics in chaotic populations. Ecological Research, 1997, 12, 301-303.	1.5	1
114	Mortality During Dispersal an the Stability of a Metapopulation. Journal of Theoretical Biology, 1997, 186, 389-396.	1.7	40
115	High control measures cannot produce extinction in weed populations. Ecological Modelling, 1996, 91, 293-294.	2.5	11
116	Reversals of chaos in biological control systems. Journal of Theoretical Biology, 1995, 175, 603.	1.7	2
117	Models for the Herbicidal Control of the Seed Bank of Avena sterilis: The Effects of Spatial and Temporal Heterogeneity and of Dispersal. Journal of Applied Ecology, 1995, 32, 578.	4.0	52
118	Cereal aphids expert system (CAES): Identification and decision making. Computers and Electronics in Agriculture, 1993, 8, 293-300.	7.7	13
119	Chaos, metapopulations and dispersal. Ecological Modelling, 1993, 65, 255-263.	2.5	58
120	Dispersal in a Metapopulation Neighbourhood Model of an Annual Plant with a Seedbank. Journal of Ecology, 1993, 81, 453.	4.0	66
121	Strategies for the control of Avena sterilis in winter wheat production systems in central Spain. Crop Protection, 1993, 12, 617-623.	2.1	30
122	The Effect of Dispersal between Chaotic and Non-Chaotic Populations within a Metapopulation. Oikos, 1993, 66, 555.	2.7	27
123	Modelling the Population Dynamics of Avena sterilis Under Dry-Land Cereal Cropping Systems. Journal of Applied Ecology, 1991, 28, 16.	4.0	84
124	Characterization of the germination and emergence response to temperature and soil moisture of Avena fatua and A. sterilis. Weed Research, 1990, 30, 289-295.	1.7	37
125	Influence of herbicide treatments on the population dynamics of Avena steriles ssp. ludoviciana (Durieu) Nyman in winter wheat crops. Weed Research, 1987, 27, 375-383.	1.7	18
126	Residual soil P values for permanent pastures on reclaimed scrubland from Galicia (NW Spain).. Fertilizer Research, 1986, 9, 199-212.	0.5	4

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127	Prediction of Italian ryegrass (Lolium multiflorum L.) emergence using soil thermal time. Acta Scientiarum - Agronomy, 0, 43, e52152.	0.6	0
128	Arable Weeds and Management in Europe. Vegetation Classification and Survey, 0, 1, 169-170.	0.0	6