CÃ©sar FernÃ¡ndez Quintanilla

List of Publications by Year
in descending order

51	1,660	236925	302126
papers	citations	25 h-index	39 g-index

51	51	51	1391
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fleets of robots for environmentally-safe pest control in agriculture. Precision Agriculture, 2017, 18, 574-614.	6.0	140
2	A new vision-based approach to differential spraying in precision agriculture. Computers and Electronics in Agriculture, 2008, 60, 144-155.	7.7	106
3	Is the current state of the art of weed monitoring suitable for siteâ€specific weed management in arable crops?. Weed Research, 2018, 58, 259-272.	1.7	105
4	Dispersal of Avena fatua and Avena sterilis patches by natural dissemination, soil tillage and combine harvesters. Weed Research, 2006, 46, 118-128.	1.7	85
5	An Approach to the Use of Depth Cameras for Weed Volume Estimation. Sensors, 2016, 16, 972.	3.8	68
6	Discriminating Crop, Weeds and Soil Surface with a Terrestrial LIDAR Sensor. Sensors, 2013, 13, 14662-14675.	3.8	63
7	Improving weed pressure assessment using digital images from an experience-based reasoning approach. Computers and Electronics in Agriculture, 2009, 65, 176-185.	7.7	59
8	Analysis of natural images processing for the extraction of agricultural elements. Image and Vision Computing, 2010, 28, 138-149.	4.5	59
9	Advances in siteâ€specific weed management in agricultureâ€”A review. Weed Research, 2022, 62, 123-133.	1.7	53
10	Spatial stability of Avena sterilis ssp. ludoviciana populations under annual applications of low rates of imazamethabenz. Weed Research, 2004, 44, 178-186.	1.7	48
11	Predicting weed emergence in maize crops under two contrasting climatic conditions. Weed Research, 2009, 49, 251-260.	1.7	48
12	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
13	Modelling the population dynamics of annual ryegrass (Lolium rigidum) under various weed management systems. Crop Protection, 2004, 23, 723-729.	2.1	41
14	Accuracy and Feasibility of Optoelectronic Sensors for Weed Mapping in Wide Row Crops. Sensors, 2011, 11, 2304-2318.	3.8	41
15	Potential of a terrestrial LiDAR-based system to characterise weed vegetation in maize crops. Computers and Electronics in Agriculture, 2013, 92, 11-15.	7.7	41
16	Simulating the effects of weed spatial pattern and resolution of mapping and spraying on economics of site-specific management. Weed Research, 2004, 44, 460-468.	1.7	39
17	Weed discrimination using ultrasonic sensors. Weed Research, 2011, 51, 543-547.	1.7	38
18	Three-Dimensional Modeling of Weed Plants Using Low-Cost Photogrammetry. Sensors, 2018, 18, 1077.	3.8	34

#	Article	IF	Citations
19	Strategies for the control of Avena sterilis in winter wheat production systems in central Spain. Crop Protection, 1993, 12, 617-623.	2.1	30
20	Assessing the opportunity for site-specific management of Avena sterilis in winter barley fields in Spain. Weed Research, 2006, 46, 379-387.	1.7	30
21	An assessment of the accuracy and consistency of human perception of weed cover. Weed Research, 2010, 50, 638-647.	1.7	30
22	Effects of crop and weed densities on the interactions between barley and Lolium rigidum in several Mediterranean locations. Agronomy for Sustainable Development, 2003, 23, 529-536.	0.8	30
23	Which future for weed science?. Weed Research, 2008, 48, 297-301.	1.7	29
24	The attractiveness of flowering herbaceous plants to bees (Hymenoptera: Apoidea) and hoverflies (Diptera: Syrphidae) in agroâ€ecosystems of Central Spain. Agricultural and Forest Entomology, 2015, 17, 20-28.	1.3	27
25	SIMCE: An expert system for seedling weed identification in cereals. Computers and Electronics in Agriculture, 2006, 54, 115-123.	7.7	26
26	Population Cycles Produced by Delayed Density Dependence in an Annual Plant. American Naturalist, 2006, 168, 318-322.	2.1	25
27	Development and reproduction of Myzus persicae and Aphis fabae (Hom., Aphididae) on selected weed species surrounding sugar beet fields. Journal of Applied Entomology, 2002, 126, 198-202.	1.8	23
28	Comparison of sampling methodologies for site-specific management of Avena sterilis. Weed Research, 2005, 45, 165-174.	1.7	22
29	Spatial Distribution Patterns of Johnsongrass (Sorghum halepense) in Corn Fields in Spain. Weed Science, 2011, 59, 82-89.	1.5	22
30	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
31	Spatial and temporal dynamics of Sorghum halepense patches in maize crops. Weed Research, 2012, 52, 411-420.	1.7	20
32	Germination Patterns in Naturally Chilled and Nonchilled Seeds of Fierce Thornapple (Datura) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.5	19
33	Provisioning Floral Resources to Attract Aphidophagous Hoverflies (Diptera: Syrphidae) Useful for Pest Management in Central Spain. Journal of Economic Entomology, 2013, 106, 2327-2335.	1.8	19
34	Influence of Wind Speed on RGB-D Images in Tree Plantations. Sensors, 2017, 17, 914.	3.8	19
35	Assessing the potential of hyperspectral remote sensing for the discrimination of grassweeds in winter cereal crops. International Journal of Remote Sensing, 2011, 32, 49-67.	2.9	16
36	Estimation and Comparison of Base Temperatures for Germination of European Populations of Velvetleaf (Abutilon theophrasti) and Jimsonweed (Datura stramonium). Weed Science, 2013, 61, 443-451.	1.5	16

#	Article	IF	Citations
37	Discrimination of sterile oat (Avena sterilis) in winter barley (Hordeum vulgare) using QuickBird satellite images. Crop Protection, 2011, 30, 1363-1369.	2.1	15
38	Modelling the emergence pattern of six summer annual weed grasses under no tillage systems in Argentina. Weed Research, 2009, 49, 98-106.	1.7	14
39	Assessment of a decision support system for chemical control of annual ryegrass (Lolium) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	13
40	Herbicide savings and economic benefits of several strategies to control Sorghum halepense in maize crops. Crop Protection, 2013, 50, 17-23.	2.1	12
41	Integrating herbicide rate, barley variety and seeding rate for the control of sterile oat (Avena) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.1	10
42	Reliability of a Visual Recognition System for Detection of Johnsongrass(Sorghum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.9	9
43	Germination response of local <scp>S</scp>outhern <scp>E</scp>uropean populations of <scp>D</scp>atura stramonium at a range of constant temperatures. Weed Research, 2014, 54, 356-365.	1.7	8
44	Wild rocket â€“ effect of water deficit on growth, flowering, and attractiveness to pollinators. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2014, 64, 482-492.	0.6	7
45	Identifying associations among sterile oat (Avena sterilis) infestation level, landscape characteristics, and crop yields. Weed Science, 2006, 54, 1113-1121.	1.5	6
46	The competitive interactions between winter barley and Avena sterilis are siteâ€specific. Weed Research, 2008, 48, 38-47.	1.7	6
47	Multi-path planning based on a NSGA-II for a fleet of robots to work on agricultural tasks. , 2012, , .		6
48	Multivariate Analysis of the Agricultural Management Presence of Sorghum Halepense (L.) Pers. Relationships in Maize Crops. Gesunde Pflanzen, 2014, 66, 17-22.	3.0	5
49	The Nature of Sorghum Halepense (L.) Pers. Spatial Distribution Patterns in Tomato Cropping Fields. Gesunde Pflanzen, 2013, 65, 85-91.	3.0	4
50	Comparison of three chemical control strategies for Avena sterilis ssp. ludoviciana. Crop Protection, 2009, 28, 393-400.	2.1	3
51	Site-Specific Based Models. , 2020, , 143-157.		3