James H Westwood

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/61063/publications.pdf

Version: 2024-02-01

57 papers	3,670 citations	172457 29 h-index	155660 55 g-index
62 all docs	62 docs citations	62 times ranked	3442 citing authors

#	Article	IF	Citations
1	The evolution of parasitism in plants. Trends in Plant Science, 2010, 15, 227-235.	8.8	417
2	MicroRNAs from the parasitic plant Cuscuta campestris target host messenger RNAs. Nature, 2018, 553, 82-85.	27.8	303
3	Convergent evolution of strigolactone perception enabled host detection in parasitic plants. Science, 2015, 349, 540-543.	12.6	255
4	Genomic-scale exchange of mRNA between a parasitic plant and its hosts. Science, 2014, 345, 808-811.	12.6	234
5	Functional Analysis of a Predicted Flavonol Synthase Gene Family in Arabidopsis Â Â. Plant Physiology, 2008, 147, 1046-1061.	4.8	217
6	Weed Management in 2050: Perspectives on the Future of Weed Science. Weed Science, 2018, 66, 275-285.	1.5	203
7	Cross-Species Translocation of mRNA from Host Plants into the Parasitic Plant Dodder. Plant Physiology, 2007, 143, 1037-1043.	4.8	141
8	Comparative Transcriptome Analyses Reveal Core Parasitism Genes and Suggest Gene Duplication and Repurposing as Sources of Structural Novelty. Molecular Biology and Evolution, 2015, 32, 767-790.	8.9	137
9	A New Mutation in Plant<i>ALS</i>Confers Resistance to Five Classes of ALS-Inhibiting Herbicides. Weed Science, 2007, 55, 83-90.	1.5	114
10	The Parasitic Plant Genome Project: New Tools for Understanding the Biology of<i>Orobanche</i>and<i>Striga</i>. Weed Science, 2012, 60, 295-306.	1.5	106
11	Horizontal gene transfer is more frequent with increased heterotrophy and contributes to parasite adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7010-E7019.	7.1	85
12	Characterization of theOrobancheâ€"Arabidopsissystem for studying parasiteâ€"host interactions. Weed Science, 2000, 48, 742-748.	1.5	84
13	Evolution of Weediness and Invasiveness: Charting the Course for Weed Genomics. Weed Science, 2009, 57, 451-462.	1.5	82
14	Transcriptomes of the Parasitic Plant Family Orobanchaceae Reveal Surprising Conservation of Chlorophyll Synthesis. Current Biology, 2011, 21, 2098-2104.	3.9	82
15	Macromolecule exchange in Cuscutaâ€"host plant interactions. Current Opinion in Plant Biology, 2015, 26, 20-25.	7.1	75
16	Molecular Dialog Between Parasitic Plants and Their Hosts. Annual Review of Phytopathology, 2019, 57, 279-299.	7.8	74
17	Convergent horizontal gene transfer and cross-talk of mobile nucleic acids in parasitic plants. Nature Plants, 2019, 5, 991-1001.	9.3	72
18	RNA translocation between parasitic plants and their hosts. Pest Management Science, 2009, 65, 533-539.	3.4	63

#	Article	IF	Citations
19	Functional genomics of a generalist parasitic plant: Laser microdissection of host-parasite interface reveals host-specific patterns of parasite gene expression. BMC Plant Biology, 2013, 13, 9.	3.6	61
20	Cellular mechanisms influence differential glyphosate sensitivity in field bindweed (<i>Convolvulus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	59
21	Expression of a Defense-Related 3-Hydroxy-3-Methylglutaryl CoA Reductase Gene in Response to Parasitization by Orobanche spp.. Molecular Plant-Microbe Interactions, 1998, 11, 530-536.	2.6	58
22	Influence of nitrogen on germination and early development of broomrape (Orobanchespp.). Weed Science, 1999, 47, 2-7.	1.5	56
23	Movement of protein and macromolecules between host plants and the parasitic weed Phelipanche aegyptiaca Pers.. Plant Cell Reports, 2011, 30, 2233-2241.	5.6	49
24	ALS resistance in several smooth pigweed (Amaranthus hybridus) biotypes. Weed Science, 2006, 54, 828-832.	1.5	43
25	Quantification of tomato and <i>Arabidopsis</i> mobile <scp>RNA</scp>s trafficking into the parasitic plant <i>Cuscuta pentagona</i>. New Phytologist, 2013, 200, 1225-1233.	7.3	40
26	<i><scp>S</scp>triga hermonthica <scp>MAX</scp>2</i> restores branching but not the <scp>V</scp>ery <scp>L</scp>ow <scp>F</scp>luence <scp>R</scp>esponse in the <i><scp>A</scp>rabidopsis thaliana max2</i> mutant. New Phytologist, 2014, 202, 531-541.	7.3	40
27	Evolution of a horizontally acquired legume gene, albumin 1, in the parasitic plant Phelipanche aegyptiaca and related species. BMC Evolutionary Biology, 2013, 13, 48.	3.2	39
28	The Physiology of the Established Parasiteâ€“Host Association. , 2013, , 87-114.		37
29	A peptide from insects protects transgenic tobacco from a parasitic weed. Transgenic Research, 2005, 14, 227-236.	2.4	35
30	Seed ultrastructure and water absorption pathway of the root-parasitic plant Phelipanche aegyptiaca (Orobanchaceae). Annals of Botany, 2012, 109, 181-195.	2.9	34
31	Transformation and regeneration of the holoparasitic plant Phelipanche aegyptiaca. Plant Methods, 2011, 7, 36.	4.3	32
32	RNA trafficking in parasitic plant systems. Frontiers in Plant Science, 2012, 3, 203.	3.6	32
33	Host gene expression in response to Egyptian broomrape (Orobanche aegyptiaca). Weed Science, 2004, 52, 697-703.	1.5	31
34	Weed Science Research and Funding: A Call to Action. Weed Science, 2009, 57, 442-448.	1.5	29
35	Herbicide injury induces DNA methylome alterations in <i>Arabidopsis</i>. PeerJ, 2017, 5, e3560.	2.0	27
36	The U.S. Witchweed Eradication Effort Turns 50: A Retrospective and Look-Ahead on Parasitic Weed Management. Weed Science, 2012, 60, 267-268.	1.5	23

#	Article	IF	Citations
37	RNA mobility in parasitic plant â€" host interactions. RNA Biology, 2017, 14, 450-455.	3.1	21
38	Sequencing and De Novo Assembly of the Toxicodendron radicans (Poison Ivy) Transcriptome. Genes, 2017, 8, 317.	2.4	19
39	Host differentiation and variability of Orobanche crenata populations from legume species in Morocco as revealed by crossâ€infestation and molecular analysis. Pest Management Science, 2017, 73, 1753-1763.	3.4	18
40	Into the weeds: new insights in plant stress. Trends in Plant Science, 2021, 26, 1050-1060.	8.8	17
41	Herbicide Seed Treatments for Control of Purple Witchweed (Striga hermonthica) in Sorghum and Millet. Weed Technology, 2005, 19, 629-635.	0.9	15
42	Parasitic Plants Major Problem to Food Crops. Science, 2001, 293, 1434a-1434.	12.6	15
43	Parasitic Plants <i>Striga</i> and <i>Phelipanche</i> Dependent upon Exogenous Strigolactones for Germination Have Retained Genes for Strigolactone Biosynthesis. American Journal of Plant Sciences, 2015, 06, 1151-1166.	0.8	12
44	An artificial host Âsystem enables the obligate parasite <i>Cuscuta campestris</i> to grow and reproduce in vitro. Plant Physiology, 2022, 189, 687-702.	4.8	11
45	Mobile Host mRNAs Are Translated to Protein in the Associated Parasitic Plant Cuscuta campestris. Plants, 2022, 11, 93.	3.5	11
46	Comparative Metabolomics of Early Development of the Parasitic Plants Phelipanche aegyptiaca and Triphysaria versicolor. Metabolites, 2019, 9, 114.	2.9	9
47	A new race of sunflower broomrape (Orobanche cumana) with a wider host range due to changes in seed response to strigolactones. Weed Science, 2020, 68, 134-142.	1.5	9
48	Plasma membrane phylloquinone biosynthesis in nonphotosynthetic parasitic plants. Plant Physiology, 2021, 185, 1443-1456.	4.8	8
49	Optoperforation of single, intact Arabidopsis cells for uptake of extracellular dye-conjugated dextran. Optics Express, 2013, 21, 14662.	3.4	7
50	Multiple immunity-related genes control susceptibility of<i>Arabidopsis thaliana</i>to the parasitic weed<i>Phelipanche aegyptiaca</i>. PeerJ, 2020, 8, e9268.	2.0	7
51	RNA transport: Delivering the message. Nature Plants, 2015, 1, 15038.	9.3	6
52	Identification of Differentially Methylated Sites with Weak Methylation Effects. Genes, 2018, 9, 75.	2.4	4
53	Influence of Glyphosate on Amino Acid Composition of Egyptian Broomrape [<i>Orobanche aegyptiaca</i> (Pers.)] and Selected Hosts. Journal of Agricultural and Food Chemistry, 2001, 49, 1524-1528.	5.2	3
54	Plant Biology: Genome Reveals Secrets of the Alien Within. Current Biology, 2021, 31, R241-R243.	3.9	2

#	Article	IF	Citations
55	Interference and Control of ALS-Resistant Mouse-Ear Cress (Arabidopsis thaliana) in Winter Wheat. Weed Technology, 2018, 32, 671-677.	0.9	1
56	Molecular Aspects of Host-Parasite Interactions. , 2004, , 177-198.		0
57	Engineering Natural Products for Crop Resistance to Parasitic Weeds. ACS Symposium Series, 2006, , 220-232.	0.5	0