James H Westwood

List of Publications by Year
in descending order

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	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
2	Mobile Host mRNAs Are Translated to Protein in the Associated Parasitic Plant Cuscuta campestris. Plants, 2022, 11, 93.	3.5	11
3	Plasma membrane phylloquinone biosynthesis in nonphotosynthetic parasitic plants. Plant Physiology, 2021, 185, 1443-1456.	4.8	8
4	Plant Biology: Genome Reveals Secrets of the Alien Within. Current Biology, 2021, 31, R241-R243.	3.9	2
5	Into the weeds: new insights in plant stress. Trends in Plant Science, 2021, 26, 1050-1060.	8.8	17
6	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
7	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
8	Convergent horizontal gene transfer and cross-talk of mobile nucleic acids in parasitic plants. Nature Plants, 2019, 5, 991-1001.	9.3	72
9	Comparative Metabolomics of Early Development of the Parasitic Plants Phelipanche aegyptiaca and Triphysaria versicolor. Metabolites, 2019, 9, 114.	2.9	9
10	Molecular Dialog Between Parasitic Plants and Their Hosts. Annual Review of Phytopathology, 2019, 57, 279-299.	7.8	74
11	Weed Management in 2050: Perspectives on the Future of Weed Science. Weed Science, 2018, 66, 275-285.	1.5	203
12	MicroRNAs from the parasitic plant Cuscuta campestris target host messenger RNAs. Nature, 2018, 553, 82-85.	27.8	303
13	Interference and Control of ALS-Resistant Mouse-Ear Cress (Arabidopsis thaliana) in Winter Wheat. Weed Technology, 2018, 32, 671-677.	0.9	1
14	Identification of Differentially Methylated Sites with Weak Methylation Effects. Genes, 2018, 9, 75.	2.4	4
15	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
16	RNA mobility in parasitic plant â€“ host interactions. RNA Biology, 2017, 14, 450-455.	3.1	21
17	Sequencing and De Novo Assembly of the Toxicodendron radicans (Poison Ivy) Transcriptome. Genes, 2017, 8, 317.	2.4	19
18	Herbicide injury induces DNA methylome alterations in <i>Arabidopsis</i>. PeerJ, 2017, 5, e3560.	2.0	27

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19	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
20	RNA transport: Delivering the message. Nature Plants, 2015, 1, 15038.	9.3	6
21	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
22	Convergent evolution of strigolactone perception enabled host detection in parasitic plants. Science, 2015, 349, 540-543.	12.6	255
23	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
24	Macromolecule exchange in Cuscutaâ€"host plant interactions. Current Opinion in Plant Biology, 2015, 26, 20-25.	7.1	75
25	Genomic-scale exchange of mRNA between a parasitic plant and its hosts. Science, 2014, 345, 808-811.	12.6	234
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	The Physiology of the Established Parasiteâ€"Host Association. , 2013, , 87-114.		37
28	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
29	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
30	Optoperforation of single, intact Arabidopsis cells for uptake of extracellular dye-conjugated dextran. Optics Express, 2013, 21, 14662.	3.4	7
31	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
32	RNA trafficking in parasitic plant systems. Frontiers in Plant Science, 2012, 3, 203.	3.6	32
33	Seed ultrastructure and water absorption pathway of the root-parasitic plant Phelipanche aegyptiaca (Orobanchaceae). Annals of Botany, 2012, 109, 181-195.	2.9	34
34	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
35	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
36	Transformation and regeneration of the holoparasitic plant Phelipanche aegyptiaca. Plant Methods, 2011, 7, 36.	4.3	32

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37	Transcriptomes of the Parasitic Plant Family Orobanchaceae Reveal Surprising Conservation of Chlorophyll Synthesis. Current Biology, 2011, 21, 2098-2104.	3.9	82
38	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
39	The evolution of parasitism in plants. Trends in Plant Science, 2010, 15, 227-235.	8.8	417
40	Evolution of Weediness and Invasiveness: Charting the Course for Weed Genomics. Weed Science, 2009, 57, 451-462.	1.5	82
41	Weed Science Research and Funding: A Call to Action. Weed Science, 2009, 57, 442-448.	1.5	29
42	RNA translocation between parasitic plants and their hosts. Pest Management Science, 2009, 65, 533-539.	3.4	63
43	Functional Analysis of a Predicted Flavonol Synthase Gene Family in Arabidopsis Â Â. Plant Physiology, 2008, 147, 1046-1061.	4.8	217
44	Cross-Species Translocation of mRNA from Host Plants into the Parasitic Plant Dodder. Plant Physiology, 2007, 143, 1037-1043.	4.8	141
45	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
46	ALS resistance in several smooth pigweed (Amaranthus hybridus) biotypes. Weed Science, 2006, 54, 828-832.	1.5	43
47	Engineering Natural Products for Crop Resistance to Parasitic Weeds. ACS Symposium Series, 2006, , 220-232.	0.5	0
48	A peptide from insects protects transgenic tobacco from a parasitic weed. Transgenic Research, 2005, 14, 227-236.	2.4	35
49	Herbicide Seed Treatments for Control of Purple Witchweed (Striga hermonthica) in Sorghum and Millet. Weed Technology, 2005, 19, 629-635.	0.9	15
50	Host gene expression in response to Egyptian broomrape (Orobanche aegyptiaca). Weed Science, 2004, 52, 697-703.	1.5	31
51	Molecular Aspects of Host-Parasite Interactions. , 2004, , 177-198.		0
52	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
53	Parasitic Plants Major Problem to Food Crops. Science, 2001, 293, 1434a-1434.	12.6	15
54	Characterization of theOrobancheâ€"Arabidopsissystem for studying parasiteâ€"host interactions. Weed Science, 2000, 48, 742-748.	1.5	84

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55	Influence of nitrogen on germination and early development of broomrape (Orobanchespp.). Weed Science, 1999, 47, 2-7.	1.5	56
56	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
57	Cellular mechanisms influence differential glyphosate sensitivity in field bindweed (<i>Convolvulus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	59