

Patrick J Tranel

List of Publications by Year in descending order

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121
papers

6,904
citations

61984

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69250

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127
all docs

127
docs citations

127
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistance of weeds to ALS-inhibiting herbicides: what have we learned?. <i>Weed Science</i> , 2002, 50, 700-712.	1.5	697
2	Gene amplification confers glyphosate resistance in <i>Amaranthus palmeri</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1029-1034.	7.1	557
3	Non-target-site herbicide resistance: a family business. <i>Trends in Plant Science</i> , 2007, 12, 6-13.	8.8	451
4	Mechanisms of evolved herbicide resistance. <i>Journal of Biological Chemistry</i> , 2020, 295, 10307-10330.	3.4	329
5	A codon deletion confers resistance to herbicides inhibiting protoporphyrinogen oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12329-12334.	7.1	176
6	Review: Confirmation of Resistance to Herbicides and Evaluation of Resistance Levels. <i>Weed Science</i> , 2013, 61, 4-20.	1.5	164
7	Distinct Detoxification Mechanisms Confer Resistance to Mesotrione and Atrazine in a Population of Waterhemp. <i>Plant Physiology</i> , 2013, 163, 363-377.	4.8	140
8	A biotype of common waterhemp (<i>Amaranthus rudis</i>) resistant to triazine and ALS herbicides. <i>Weed Science</i> , 1998, 46, 514-520.	1.5	132
9	Resistance to PPO-inhibiting herbicide in Palmer amaranth from Arkansas. <i>Pest Management Science</i> , 2016, 72, 864-869.	3.4	124
10	A waterhemp (<i>Amaranthus tuberculatus</i>) biotype with multiple resistance across three herbicide sites of action. <i>Weed Science</i> , 2005, 53, 30-36.	1.5	123
11	Managing the evolution of herbicide resistance. <i>Pest Management Science</i> , 2016, 72, 74-80.	3.4	122
12	Herbicide Resistances in <i>Amaranthus tuberculatus</i> : A Call for New Options. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 5808-5812.	5.2	116
13	Characterization of the horseweed (<i>Conyza canadensis</i>) transcriptome using GS-FLX 454 pyrosequencing and its application for expression analysis of candidate non-target herbicide resistance genes. <i>Pest Management Science</i> , 2010, 66, 1053-1062.	3.4	112
14	Herbicide-resistant weeds: from research and knowledge to future needs. <i>Evolutionary Applications</i> , 2013, 6, 1218-1221.	3.1	108
15	Resistance to HPPD-inhibiting herbicides in a population of waterhemp (<i>Amaranthus tuberculatus</i>) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	3.4	104
16	Multiple modes of convergent adaptation in the spread of glyphosate-resistant <i>Amaranthus tuberculatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21076-21084.	7.1	98
17	A kochia (<i>Kochia scoparia</i>) biotype resistant to triazine and ALS-inhibiting herbicides. <i>Weed Science</i> , 1999, 47, 20-27.	1.5	97
18	Multiple Resistance to Herbicides from Four Site-of-Action Groups in Waterhemp (<i>Amaranthus tuberculatus</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.5	90

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19	Characterization of <i>de novo</i> transcriptome for waterhemp (<i>Amaranthus tuberculatus</i>) using GS-FLX 454 pyrosequencing and its application for studies of herbicide target-site genes. <i>Pest Management Science</i> , 2010, 66, 1042-1052.	3.4	89
20	Target-Site Mutations Conferring Herbicide Resistance. <i>Plants</i> , 2019, 8, 382.	3.5	89
21	Evolution of Weediness and Invasiveness: Charting the Course for Weed Genomics. <i>Weed Science</i> , 2009, 57, 451-462.	1.5	82
22	Variable herbicide responses among Illinois waterhemp (<i>Amaranthus rudis</i> and <i>A. tuberculatus</i>) populations. <i>Crop Protection</i> , 2002, 21, 707-712.	2.1	78
23	The power and potential of genomics in weed biology and management. <i>Pest Management Science</i> , 2018, 74, 2216-2225.	3.4	76
24	Multiple ALS Mutations Confer Herbicide Resistance in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2007, 55, 421-428.	1.5	73
25	Molecular Mechanisms of Herbicide Resistance. <i>Weed Science</i> , 2015, 63, 91-115.	1.5	73
26	Two new <i>PPX2</i> mutations associated with resistance to <i>PPO</i> -inhibiting herbicides in <i>Amaranthus palmeri</i> . <i>Pest Management Science</i> , 2017, 73, 1559-1563.	3.4	67
27	Characterization of a Common Ragweed (<i>Ambrosia artemisiifolia</i>) Population Resistant to ALS- and PPO-Inhibiting Herbicides. <i>Weed Science</i> , 2012, 60, 335-344.	1.5	65
28	Origins and structure of chloroplastic and mitochondrial plant protoporphyrinogen oxidases: implications for the evolution of herbicide resistance. <i>Pest Management Science</i> , 2018, 74, 2226-2234.	3.4	65
29	Cross-resistance of horseweed (<i>Conyza canadensis</i>) populations with three different ALS mutations. <i>Pest Management Science</i> , 2011, 67, 1486-1492.	3.4	62
30	Transcriptome Response to Glyphosate in Sensitive and Resistant Soybean. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 6355-6363.	5.2	60
31	A Waterhemp (<i>Amaranthus tuberculatus</i>) Population Resistant to 2,4-D. <i>Weed Science</i> , 2012, 60, 379-384.	1.5	60
32	Metabolism of 2,4-dichlorophenoxyacetic acid contributes to resistance in a common waterhemp (<i>Amaranthus tuberculatus</i>) population. <i>Pest Management Science</i> , 2018, 74, 2356-2362.	3.4	60
33	Effects of Photosystem-II-Interfering Herbicides Atrazine and Bentazon on the Soybean Transcriptome. <i>Plant Genome</i> , 2009, 2, .	2.8	59
34	Biochemical and structural consequences of a glycine deletion in the \pm -8 helix of protoporphyrinogen oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1548-1556.	2.3	57
35	Physical Mapping of Amplified Copies of the 5-Enolpyruvylshikimate-3-Phosphate Synthase Gene in Glyphosate-Resistant <i>Amaranthus tuberculatus</i> . <i>Plant Physiology</i> , 2017, 173, 1226-1234.	4.8	54
36	Sampling the Waterhemp (<i>Amaranthus tuberculatus</i>) Genome Using Pyrosequencing Technology. <i>Weed Science</i> , 2009, 57, 463-469.	1.5	53

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37	Distribution of Herbicide Resistances and Molecular Mechanisms Conferring Resistance in Missouri Waterhemp (<i>Amaranthus rudis</i> Sauer) Populations. <i>Weed Science</i> , 2015, 63, 336-345.	1.5	53
38	Out of the swamp: unidirectional hybridization with weedy species may explain the prevalence of <i>Amaranthus tuberculatus</i> as a weed. <i>New Phytologist</i> , 2009, 184, 819-827.	7.3	52
39	Molecular analysis of cloransulam resistance in a population of giant ragweed. <i>Weed Science</i> , 2002, 50, 299-305.	1.5	51
40	Defining the Rate Requirements for Synergism Between Mesotrione and Atrazine in Redroot Pigweed (<i>Amaranthus retroflexus</i>). <i>Weed Science</i> , 2008, 56, 265-270.	1.5	51
41	Draft Genomes of <i>Amaranthus tuberculatus</i> , <i>Amaranthus hybridus</i> , and <i>Amaranthus palmeri</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 1988-1993.	2.5	51
42	Promiscuity in weedy amaranths: high frequency of female tall waterhemp (<i>Amaranthus tuberculatus</i>) × smooth pigweed (<i>A. hybridus</i>) hybridization under field conditions. <i>Weed Science</i> , 2005, 53, 46-54.	1.5	50
43	Tembotrione detoxification in 4-hydroxyphenylpyruvate dioxygenase (HPPD) inhibitor-resistant Palmer amaranth (<i>Amaranthus palmeri</i> S. Wats.). <i>Pest Management Science</i> , 2018, 74, 2325-2334.	3.4	50
44	A common ragweed population resistant to cloransulam-methyl. <i>Weed Science</i> , 2001, 49, 485-490.	1.5	48
45	Evolution of resistance to phytoene desaturase and protoporphyrinogen oxidase inhibitors—state of knowledge. <i>Pest Management Science</i> , 2014, 70, 1358-1366.	3.4	47
46	Prevalence of a Novel Resistance Mechanism to PPO-Inhibiting Herbicides in Waterhemp (<i>Amaranthus tuberculatus</i>) in the United States. <i>Overlook</i> 10.1007/978-1-4939-9870-0_15	1.5	46
47	Genome Size Analysis of Weedy <i>Amaranthus</i> Species. <i>Crop Science</i> , 2005, 45, 2557-2562.	1.8	45
48	EPSPS Gene Amplification is Present in the Majority of Glyphosate-Resistant Illinois Waterhemp (<i>Amaranthus tuberculatus</i>) Populations. <i>Weed Technology</i> , 2015, 29, 48-55.	0.9	45
49	Pollen Biology and Dispersal Dynamics in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2012, 60, 416-422.	1.5	44
50	Identification of Genetic Elements Associated with EPSPS Gene Amplification. <i>PLoS ONE</i> , 2013, 8, e65819.	2.5	44
51	Nontarget-Site Resistance to ALS Inhibitors in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2015, 63, 399-407.	1.5	44
52	Herbicide resistance in <i>Amaranthus tuberculatus</i> × <i>A. hybridus</i> . <i>Pest Management Science</i> , 2021, 77, 43-54.	3.4	43
53	Triazine resistance in <i>Amaranthus tuberculatus</i> (Moq) Sauer that is not site-of-action mediated. <i>Pest Management Science</i> , 2003, 59, 1134-1142.	3.4	42
54	A Multistate Study of the Association Between Glyphosate Resistance and EPSPS Gene Amplification in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2015, 63, 569-577.	1.5	42

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55	Responses of an HPPD Inhibitor-Resistant Waterhemp (<i>Amaranthus tuberculatus</i>) Population to Soil-Residual Herbicides. <i>Weed Technology</i> , 2013, 27, 704-711.	0.9	40
56	Genetics and Inheritance of Nontarget-Site Resistances to Atrazine and Mesotrione in a Waterhemp (<i>Amaranthus tuberculatus</i>) Population from Illinois. <i>Weed Science</i> , 2015, 63, 799-809.	1.5	40
57	Wide Distribution of the Waterhemp (<i>Amaranthus tuberculatus</i>) \hat{P}^m G210 <i>PPX2</i> Mutation, which Confers Resistance to PPO-Inhibiting Herbicides. <i>Weed Science</i> , 2011, 59, 22-27.	1.5	38
58	Limited fitness costs of herbicide resistance traits in <i>Amaranthus tuberculatus</i> facilitate resistance evolution. <i>Pest Management Science</i> , 2018, 74, 293-301.	3.4	38
59	Frequency of Gly-210 Deletion Mutation among Protoporphyrinogen Oxidase Inhibitor-Resistant Palmer Amaranth (<i>Amaranthus palmeri</i>) Populations. <i>Weed Science</i> , 2017, 65, 718-731.	1.5	33
60	The Draft Genome of <i>Kochia scoparia</i> and the Mechanism of Glyphosate Resistance via Transposon-Mediated EPSPS Tandem Gene Duplication. <i>Genome Biology and Evolution</i> , 2019, 11, 2927-2940.	2.5	31
61	<i>Amaranthus</i> . , 2011, , 11-21.		30
62	Acetolactate synthase mutation conferring imidazolinone-specific herbicide resistance in <i>Amaranthus hybridus</i> . <i>Journal of Plant Physiology</i> , 2006, 163, 475-479.	3.5	29
63	Optimizing RNA-seq studies to investigate herbicide resistance. <i>Pest Management Science</i> , 2018, 74, 2260-2264.	3.4	29
64	Characterization of a waterhemp (<i>Amaranthus tuberculatus</i>) population from Illinois resistant to herbicides from five site-of-action groups. <i>Weed Technology</i> , 2019, 33, 400-410.	0.9	29
65	DNA content analysis of smooth pigweed (<i>Amaranthus hybridus</i>) and tall waterhemp (<i>A. tuberculatus</i>): implications for hybrid detection. <i>Weed Science</i> , 2003, 51, 1-3.	1.5	28
66	21st-Century Weed Science: A Call for <i>Amaranthus</i> Genomics. , 0, , 53-81.		27
67	Intraspecific variability of the acetolactate synthase gene. <i>Weed Science</i> , 2004, 52, 236-241.	1.5	26
68	Nonhybrid Progeny from Crosses of Dioecious Amaranths: Implications for Gene-Flow Research. <i>Weed Science</i> , 2007, 55, 119-122.	1.5	25
69	Sex-specific markers for waterhemp (<i>Amaranthus tuberculatus</i>) and Palmer amaranth (<i>Amaranthus palmeri</i>). <i>Weed Science</i> , 2019, 67, 412-418.	1.5	25
70	Molecular Biology and Genomics: New Tools for Weed Science. <i>BioScience</i> , 2009, 59, 207-215.	4.9	23
71	The genetic architecture and population genomic signatures of glyphosate resistance in <i>Amaranthus tuberculatus</i> . <i>Molecular Ecology</i> , 2021, 30, 5373-5389.	3.9	22
72	Distribution of the \hat{P}^m G210 Protoporphyrinogen Oxidase Mutation in Illinois Waterhemp (<i>Amaranthus</i>)	1.5	21

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73	Distribution of <i>PPX2</i> Mutations Conferring PPO-Inhibitor Resistance in Palmer Amaranth Populations of Tennessee. <i>Weed Technology</i> , 2018, 32, 592-596.	0.9	21
74	Coexpression Clusters and Allele-Specific Expression in Metabolism-Based Herbicide Resistance. <i>Genome Biology and Evolution</i> , 2020, 12, 2267-2278.	2.5	21
75	Will the <i>Amaranthus tuberculatus</i> Resistance Mechanism to PPO-Inhibiting Herbicides Evolve in Other <i>Amaranthus</i> Species?. <i>International Journal of Agronomy</i> , 2012, 2012, 1-7.	1.2	19
76	A quantitative assay for <i>Amaranthus palmeri</i> identification. <i>Pest Management Science</i> , 2017, 73, 2221-2224.	3.4	18
77	Novel software package for cross-platform transcriptome analysis (CPTRA). <i>BMC Bioinformatics</i> , 2009, 10, S16.	2.6	17
78	Association of the W574L ALS substitution with resistance to cloransulam and imazamox in common ragweed (<i>Ambrosia artemisiifolia</i>). <i>Weed Science</i> , 2005, 53, 424-430.	1.5	16
79	Confronting herbicide resistance with cooperative management. <i>Pest Management Science</i> , 2018, 74, 2424-2431.	3.4	16
80	Target-Site Mutations and Expression of ALS Gene Copies Vary According to <i>Echinochloa</i> Species. <i>Genes</i> , 2021, 12, 1841.	2.4	16
81	Time Requirement from Pollination to Seed Maturity in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2010, 58, 167-173.	1.5	15
82	Responses of a Waterhemp (<i>Amaranthus tuberculatus</i>) Population Resistant to HPPD-Inhibiting Herbicides to Foliar-Applied Herbicides. <i>Weed Technology</i> , 2016, 30, 106-115.	0.9	15
83	Herbicide resistance mechanisms: gene amplification is not just for glyphosate. <i>Pest Management Science</i> , 2017, 73, 2225-2226.	3.4	15
84	Survey of glyphosate-, atrazine- and lactofen-resistance mechanisms in Ohio waterhemp (<i>Amaranthus tuberculatus</i>) populations. <i>Weed Science</i> , 2019, 67, 296-302.	1.5	15
85	Comparing responses of sensitive and resistant populations of Palmer amaranth (<i>Amaranthus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Weed Technology, 2020, 34, 140-146.	0.9	14
86	Characterization of Waterhemp (<i>Amaranthus tuberculatus</i>) – Smooth Pigweed (<i>A. hybridus</i>) F1Hybrids. <i>Weed Technology</i> , 2006, 20, 14-22.	0.9	13
87	Identification of <i>Arabidopsis thaliana</i> variants with differential glyphosate responses. <i>Journal of Plant Physiology</i> , 2007, 164, 1337-1345.	3.5	13
88	The EPSPS Pro106Ser substitution solely accounts for glyphosate resistance in a goosegrass (<i>Eleusine</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	13
89	Control of Glyphosate-Resistant Common waterhemp (<i>Amaranthus rudis</i>) in Three New Herbicide-Resistant Soybean Varieties in Ontario. <i>Weed Technology</i> , 2017, 31, 828-837.	0.9	13
90	Future efficacy of pre-emergence herbicides in corn (<i>Zea mays</i>) is threatened by more variable weather. <i>Pest Management Science</i> , 2021, 77, 2683-2689.	3.4	13

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91	Genetic relationships of common cocklebur accessions from the United States. <i>Weed Science</i> , 2001, 49, 318-325.	1.5	12
92	Variation in soybean (<i>Glycine max</i> (L.) Merr.) interference among common cocklebur (<i>Xanthium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	2.1	12
93	Multiple-Herbicide Resistance in a 2,4-Dâ€“Resistant Waterhemp (<i>Amaranthus tuberculatus</i>) Population from Nebraska. <i>Weed Science</i> , 2017, 65, 743-754.	1.5	12
94	Control of Glyphosate-Resistant Common Waterhemp (<i>Amaranthus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (tuberculatus</i>v	0.9	12
95	Glyphosate-Resistant Junglerice (<i>Echinochloa colona</i>) from Mississippi and Tennessee: Magnitude and Resistance Mechanisms. <i>Weed Science</i> , 2018, 66, 603-610.	1.5	12
96	Empirical investigation of mutation rate for herbicide resistance. <i>Weed Science</i> , 2019, 67, 361-368.	1.5	12
97	Maleâ€“specific Yâ€“chromosomal regions in waterhemp (<i>Amaranthus tuberculatus</i>) and Palmer amaranth (<i>Amaranthus palmeri</i>). <i>New Phytologist</i> , 2021, 229, 3522-3533.	7.3	12
98	Heritability of Glyphosate Resistance in Indiana Horseweed (<i>Conyza canadensis</i>) Populations. <i>Weed Science</i> , 2010, 58, 30-38.	1.5	11
99	Evolution of Glyphosate-Resistant Weeds. <i>Reviews of Environmental Contamination and Toxicology</i> , 2021, 255, 93-128.	1.3	11
100	Repeated origins, widespread gene flow, and allelic interactions of target-site herbicide resistance mutations. <i>ELife</i> , 2022, 11, .	6.0	11
101	Utilization of DNA Microarrays in Weed Science Research. <i>Weed Science</i> , 2008, 56, 283-289.	1.5	10
102	Insight into the Structural Requirements of Protoporphyrinogen Oxidase Inhibitors: Molecular Docking and CoMFA of Diphenyl Ether, Isoxazole Phenyl, and Pyrazole Phenyl Ether. <i>Chinese Journal of Chemistry</i> , 2013, 31, 1153-1158.	4.9	10
103	The first record of protoporphyrinogen oxidase and four-way herbicide resistance in eastern Canada. <i>Canadian Journal of Plant Science</i> , 2020, 100, 327-331.	0.9	10
104	Molecular confirmation of resistance to PPO inhibitors in <i>Amaranthus tuberculatus</i> and <i>Amaranthus palmeri</i>, and isolation of the G399A PPO2 substitution in <i>A. palmeri</i>. <i>Weed Technology</i> , 2021, 35, 99-105.	0.9	10
105	Genomicâ€“based epidemiology reveals independent origins and gene flow of glyphosate resistance in <i>Bassia scoparia</i> populations across North America. <i>Molecular Ecology</i> , 2021, 30, 5343-5359.	3.9	10
106	Soil-Residual Protoporphyrinogen Oxidaseâ€“Inhibiting Herbicides Influence the Frequency of Associated Resistance in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2015, 63, 529-538.	1.5	9
107	Target-Site Resistances to ALS and PPO Inhibitors Are Linked in Waterhemp (<i>Amaranthus tuberculatus</i>). <i>Weed Science</i> , 2017, 65, 4-8.	1.5	9
108	Identification and Validation of <i>Amaranthus</i> Speciesâ€“specific SNPs within the <i>ITS</i> Region: Applications in Quantitative Species Identification. <i>Crop Science</i> , 2018, 58, 304-311.	1.8	9

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109	Coevolution of resistance to PPO inhibitors in waterhemp (<i>Amaranthus tuberculatus</i>) and Palmer amaranth (<i>Amaranthus palmeri</i>). <i>Weed Science</i> , 2019, 67, 521-526.	1.5	9
110	Distribution and validation of genotypic and phenotypic glyphosate and PPO-inhibitor resistance in Palmer amaranth (<i>Amaranthus palmeri</i>) from southwestern Nebraska. <i>Weed Technology</i> , 2021, 35, 65-76.	0.9	9
111	Characterization and inheritance of dicamba resistance in a multiple-resistant waterhemp (<i>Amaranthus tuberculatus</i>) population from Illinois. <i>Weed Science</i> , 2022, 70, 4-13.	1.5	9
112	Crop-weed hybrids are more frequent for the grain amaranth "Plainsman" than for "D136-1". <i>Genetic Resources and Crop Evolution</i> , 2013, 60, 2201-2205.	1.6	7
113	Genetic architecture underlying HPPD-inhibitor resistance in a Nebraska <i>Amaranthus tuberculatus</i> population. <i>Pest Management Science</i> , 2021, 77, 4884-4891.	3.4	7
114	Variation Among U.S. Accessions of Common Cocklebur (<i>Xanthium strumarium</i>)1. <i>Weed Technology</i> , 2002, 16, 171-179.	0.9	6
115	Responses of Contemporary and Historical Waterhemp (<i>Amaranthus tuberculatus</i>) Accessions to Glyphosate. <i>Weed Science</i> , 2007, 55, 327-333.	1.5	6
116	Variability in Photosynthetic Rates and Accumulated Biomass Among Greenhouse-Grown Common Cocklebur (<i>Xanthium strumarium</i>) Accessions1. <i>Weed Technology</i> , 2003, 17, 84-88.	0.9	5
117	Multiple Genomic Regions Govern Tolerance to Sulfentrazone in Snap Bean (<i>Phaseolus Vulgaris</i> L.). <i>Frontiers in Agronomy</i> , 2022, 4, .	3.3	5
118	In vitro root induction in weedy amaranthus species to obtain mitotic chromosomes. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2005, 41, 844-847.	2.1	3
119	Target Site Resistance to Acetolactate Synthase Inhibitors in a Fall Panicum (<i>Panicum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34 Technology, 0, , 1-28.	0.9	1
120	Cover Image, Volume 74, Issue 2. <i>Pest Management Science</i> , 2018, 74, i-i.	3.4	0
121	Biologically effective dose of metribuzin applied preemergence and postemergence for the control of waterhemp (<i>Amaranthus tuberculatus</i>) with different mechanisms of resistance to photosystem II-inhibiting herbicides. <i>Weed Science</i> , 0, , 1-11.	1.5	0