

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

4,220
citations

31
h-index

64
g-index

77
ext. papers

5,132
ext. citations

5.3
avg, IF

5.96
L-index

#	Paper	IF	Citations
75	Evolution in action: plants resistant to herbicides. <i>Annual Review of Plant Biology</i> , 2010 , 61, 317-47	30.7	1002
74	Metabolism-based herbicide resistance and cross-resistance in crop weeds: a threat to herbicide sustainability and global crop production. <i>Plant Physiology</i> , 2014 , 166, 1106-18	6.6	237
73	Resistance to AHAS inhibitor herbicides: current understanding. <i>Pest Management Science</i> , 2014 , 70, 1340-50	4.6	226
72	Diversity of acetyl-coenzyme A carboxylase mutations in resistant <i>Lolium</i> populations: evaluation using clethodim. <i>Plant Physiology</i> , 2007 , 145, 547-58	6.6	167
71	Glyphosate, paraquat and ACCase multiple herbicide resistance evolved in a <i>Lolium rigidum</i> biotype. <i>Planta</i> , 2007 , 225, 499-513	4.7	158
70	Evolution of a double amino acid substitution in the 5-enolpyruvylshikimate-3-phosphate synthase in <i>Eleusine indica</i> conferring high-level glyphosate resistance. <i>Plant Physiology</i> , 2015 , 167, 1440-7	6.6	146
69	RNA-Seq transcriptome analysis to identify genes involved in metabolism-based diclofop resistance in <i>Lolium rigidum</i> . <i>Plant Journal</i> , 2014 , 78, 865-76	6.9	141
68	AHAS herbicide resistance endowing mutations: effect on AHAS functionality and plant growth. <i>Journal of Experimental Botany</i> , 2010 , 61, 3925-34	7	134
67	Rapid response reactions of roots to boron deprivation. <i>Journal of Plant Nutrition and Soil Science</i> , 2001 , 164, 173-181	2.3	127
66	Distinct non-target site mechanisms endow resistance to glyphosate, ACCase and ALS-inhibiting herbicides in multiple herbicide-resistant <i>Lolium rigidum</i> . <i>Planta</i> , 2009 , 230, 713-23	4.7	117
65	Mutations of the ALS gene endowing resistance to ALS-inhibiting herbicides in <i>Lolium rigidum</i> populations. <i>Pest Management Science</i> , 2008 , 64, 1229-36	4.6	111
64	Micronutrient deficiency changes activities of superoxide dismutase and ascorbate peroxidase in tobacco plants. <i>Journal of Plant Nutrition</i> , 1998 , 21, 1427-1437	2.3	97
63	Herbicide-resistant weeds: from research and knowledge to future needs. <i>Evolutionary Applications</i> , 2013 , 6, 1218-21	4.8	83
62	Glyphosate resistance in perennial <i>Sorghum halepense</i> (Johnsongrass), endowed by reduced glyphosate translocation and leaf uptake. <i>Pest Management Science</i> , 2012 , 68, 430-6	4.6	83
61	No fitness cost of glyphosate resistance endowed by massive EPSPS gene amplification in <i>Amaranthus palmeri</i> . <i>Planta</i> , 2014 , 239, 793-801	4.7	80
60	ALS gene proline (197) mutations confer ALS herbicide resistance in eight separated wild radish (<i>Raphanus raphanistrum</i>) populations. <i>Weed Science</i> , 2003 , 51, 831-838	2	76
59	Short-term boron deprivation inhibits endocytosis of cell wall pectins in meristematic cells of maize and wheat root apices. <i>Plant Physiology</i> , 2002 , 130, 415-21	6.6	75

58	A novel amino acid substitution Ala-122-Tyr in ALS confers high-level and broad resistance across ALS-inhibiting herbicides. <i>Pest Management Science</i> , 2012 , 68, 1164-70	4.6	69
57	Tolerance to acetolactate synthase and acetyl-coenzyme A carboxylase inhibiting herbicides in <i>Vulpia bromoides</i> is conferred by two co-existing resistance mechanisms. <i>Pesticide Biochemistry and Physiology</i> , 2004 , 78, 21-30	4.9	60
56	Aldo-keto Reductase Metabolizes Glyphosate and Confers Glyphosate Resistance in. <i>Plant Physiology</i> , 2019 , 181, 1519-1534	6.6	58
55	Widespread occurrence of both metabolic and target-site herbicide resistance mechanisms in <i>Lolium rigidum</i> populations. <i>Pest Management Science</i> , 2016 , 72, 255-63	4.6	54
54	Target-site and non-target-site based resistance to the herbicide tribenuron-methyl in flixweed (<i>Descurainia sophia</i> L.). <i>BMC Genomics</i> , 2016 , 17, 551	4.5	51
53	Molecular characterisation of resistance to ALS-inhibiting herbicides in <i>Hordeum leporinum</i> biotypes. <i>Pest Management Science</i> , 2007 , 63, 918-27	4.6	48
52	A double EPSPS gene mutation endowing glyphosate resistance shows a remarkably high resistance cost. <i>Plant, Cell and Environment</i> , 2017 , 40, 3031-3042	8.4	42
51	Short-term boron deprivation enhances levels of cytoskeletal proteins in maize, but not zucchini, root apices. <i>Physiologia Plantarum</i> , 2003 , 117, 270-278	4.6	39
50	Glyphosate Resistance in <i>Tridax procumbens</i> via a Novel EPSPS Thr-102-Ser Substitution. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 7880-7888	5.7	34
49	ALS herbicide resistance mutations in <i>Raphanus raphanistrum</i> : evaluation of pleiotropic effects on vegetative growth and ALS activity. <i>Pest Management Science</i> , 2013 , 69, 689-95	4.6	33
48	Paraquat resistance in a population of <i>Lolium rigidum</i> . <i>Functional Plant Biology</i> , 2004 , 31, 247-254	2.7	33
47	Cytochrome P450 CYP81A10v7 in <i>Lolium rigidum</i> confers metabolic resistance to herbicides across at least five modes of action. <i>Plant Journal</i> , 2021 , 105, 79-92	6.9	33
46	Do plants pay a fitness cost to be resistant to glyphosate?. <i>New Phytologist</i> , 2019 , 223, 532-547	9.8	31
45	Effect of herbicide resistance endowing Ile-1781-Leu and Asp-2078-Gly ACCase gene mutations on ACCase kinetics and growth traits in <i>Lolium rigidum</i> . <i>Journal of Experimental Botany</i> , 2015 , 66, 4711-8	7	31
44	Novel β -Tubulin Mutations Conferring Resistance to Dinitroaniline Herbicides in. <i>Frontiers in Plant Science</i> , 2018 , 9, 97	6.2	31
43	Ferroptosis: A Novel Mechanism of Artemisinin and its Derivatives in Cancer Therapy. <i>Current Medicinal Chemistry</i> , 2021 , 28, 329-345	4.3	31
42	An ABC-type transporter endowing glyphosate resistance in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	31
41	Herbicide Resistance Endowed by Enhanced Rates of Herbicide Metabolism in Wild Oat (<i>Avena</i> spp.). <i>Weed Science</i> , 2013 , 61, 55-62	2	30

40	Target-site EPSPS Pro-106 mutations: sufficient to endow glyphosate resistance in polyploid <i>Echinochloa colona</i> ?. <i>Pest Management Science</i> , 2016 , 72, 264-71	4.6	28
39	Enhanced herbicide metabolism induced by 2,4-D in herbicide susceptible <i>Lolium rigidum</i> provides protection against diclofop-methyl. <i>Pest Management Science</i> , 2013 , 69, 996-1000	4.6	25
38	Direct measurement of paraquat in leaf protoplasts indicates vacuolar paraquat sequestration as a resistance mechanism in <i>Lolium rigidum</i> . <i>Pesticide Biochemistry and Physiology</i> , 2010 , 98, 104-109	4.9	25
37	Waterlogging Influences Plant Growth and Activities of Superoxide Dismutases in Narrow-leafed Lupin and Transgenic Tobacco Plants. <i>Journal of Plant Physiology</i> , 1999 , 155, 431-438	3.6	25
36	Paraquat resistance in a <i>Lolium rigidum</i> population is governed by one major nuclear gene. <i>Theoretical and Applied Genetics</i> , 2009 , 118, 1601-8	6	24
35	Characterisation of glufosinate resistance mechanisms in <i>Eleusine indica</i> . <i>Pest Management Science</i> , 2017 , 73, 1091-1100	4.6	20
34	Evolution of resistance to HPPD-inhibiting herbicides in a wild radish population via enhanced herbicide metabolism. <i>Pest Management Science</i> , 2020 , 76, 1929-1937	4.6	20
33	Dinitroaniline herbicide resistance in a multiple-resistant <i>Lolium rigidum</i> population. <i>Pest Management Science</i> , 2018 , 74, 925-932	4.6	19
32	Enhanced Trifluralin Metabolism Can Confer Resistance in <i>Lolium rigidum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 7589-7596	5.7	16
31	miR397/Laccase Gene Mediated Network Improves Tolerance to Fenoxaprop--ethyl in and. <i>Frontiers in Plant Science</i> , 2017 , 8, 879	6.2	16
30	ACCCase-Inhibiting Herbicide-Resistant <i>Avena</i> spp. Populations from the Western Australian Grain Belt. <i>Weed Technology</i> , 2012 , 26, 130-136	1.4	16
29	A novel psbA mutation (Phe274-Val) confers resistance to PSII herbicides in wild radish (<i>Raphanus raphanistrum</i>). <i>Pest Management Science</i> , 2019 , 75, 144-151	4.6	15
28	Non-target site mechanism of metribuzin tolerance in induced tolerant mutants of narrow-leafed lupin (<i>Lupinus angustifolius</i> L.). <i>Crop and Pasture Science</i> , 2012 , 63, 452	2.2	15
27	Metribuzin Resistance in a Wild Radish (<i>Raphanus raphanistrum</i>) Population via Both psbA Gene Mutation and Enhanced Metabolism. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 1353-1359	5.7	15
26	Quizalofop-p-ethyl resistance in <i>Polypogon fugax</i> involves glutathione S-transferases. <i>Pest Management Science</i> , 2020 , 76, 3800-3805	4.6	14
25	Genetic inheritance of dinitroaniline resistance in an annual ryegrass population. <i>Plant Science</i> , 2019 , 283, 189-194	5.3	13
24	Quinclorac Resistance in <i>Echinochloa crus-galli</i> from China. <i>Rice Science</i> , 2019 , 26, 300-308	3.8	12
23	Metribuzin resistance via enhanced metabolism in a multiple herbicide resistant <i>Lolium rigidum</i> population. <i>Pest Management Science</i> , 2020 , 76, 3785-3791	4.6	11

22	A Val-202-Phe β -tubulin mutation and enhanced metabolism confer dinitroaniline resistance in a single <i>Lolium rigidum</i> population. <i>Pest Management Science</i> , 2020 , 76, 645-652	4.6	11
21	Non-target-site glyphosate resistance in <i>Echinochloa colona</i> from Western Australia. <i>Crop Protection</i> , 2018 , 112, 257-263	2.7	10
20	Rapid Responses of Plants to Boron Deprivation 2002 , 167-180		8
19	Genome-Wide Identification and Expression Analysis of Heavy Metal Stress-Responsive Metallothionein Family Genes in <i>Nicotiana tabacum</i> . <i>Plant Molecular Biology Reporter</i> , 2020 , 39, 443	1.7	7
18	CYP81A68 confers metabolic resistance to ALS and ACCase-inhibiting herbicides and its epigenetic regulation in <i>Echinochloa crus-galli</i> . <i>Journal of Hazardous Materials</i> , 2022 , 428, 128225	12.8	7
17	Subfamily Gene From Regulates Early Flowering and Seed Development. <i>Frontiers in Plant Science</i> , 2020 , 11, 525	6.2	5
16	Mechanistic basis for synergism of 2,4-D amine and metribuzin in. <i>Journal of Pesticide Sciences</i> , 2020 , 45, 216-222	2.7	5
15	Non-target-site resistance to PDS-inhibiting herbicides in a wild radish (<i>Raphanus raphanistrum</i>) population. <i>Pest Management Science</i> , 2020 , 76, 2015-2020	4.6	5
14	Dinitroaniline Herbicide Resistance and Mechanisms in Weeds. <i>Frontiers in Plant Science</i> , 2021 , 12, 6340182	4.2	5
13	Exploring quinclorac resistance mechanisms in <i>Echinochloa crus-pavonis</i> from China. <i>Pest Management Science</i> , 2021 , 77, 194-201	4.6	5
12	The Ile-2041-Val mutation in the ACCase gene confers resistance to clodinafop-propargyl in American sloughgrass (<i>Beckmannia syzigachne</i> Steud). <i>Pest Management Science</i> , 2021 , 77, 2425-2432	4.6	5
11	2,4-D antagonizes glyphosate in glyphosate-resistant barnyard grass. <i>Journal of Pesticide Sciences</i> , 2020 , 45, 109-113	2.7	4
10	Evolution of multiple target-site resistance mechanisms in individual plants of glyphosate-resistant <i>Eleusine indica</i> from China. <i>Pest Management Science</i> , 2021 , 77, 4810-4817	4.6	3
9	A naturally evolved mutation (Ser-59-Gly) in glutamine synthetase confers glufosinate resistance in plants.. <i>Journal of Experimental Botany</i> , 2022 ,	7	2
8	Genomic insights into the evolution of <i>Echinochloa</i> species as weed and orphan crop.. <i>Nature Communications</i> , 2022 , 13, 689	17.4	2
7	Contrasting plant ecological benefits endowed by naturally occurring resistance mutations under glyphosate selection. <i>Evolutionary Applications</i> , 2021 , 14, 1635-1645	4.8	2
6	Diversity of β -tubulin transcripts in <i>Lolium rigidum</i> . <i>Pest Management Science</i> , 2021 , 77, 970-977	4.6	2
5	Overexpression of AGAMOUS-like gene PfAG5 promotes early flowering in <i>Polypogon fugax</i> . <i>Functional Plant Biology</i> , 2021 , 48, 793-801	2.7	2

4	iTRAQ-based quantitative proteomic analysis reveals proteomic changes in three fenoxaprop-P-ethyl-resistant Beckmannia syzigachne biotypes with differing ACCase mutations. <i>Journal of Proteomics</i> , 2017 , 160, 47-54	3.9	1
3	Target-site resistance to trifluralin is more prevalent in annual ryegrass populations from Western Australia. <i>Pest Management Science</i> , 2021 ,	4.6	1
2	The NtNRAMP1 transporter is involved in cadmium and iron transport in tobacco (Nicotiana tabacum).. <i>Plant Physiology and Biochemistry</i> , 2022 , 173, 59-67	5.4	0
1	Identification of the first glyphosate-resistant capeweed (Arctotheca calendula) population. <i>Pest Management Science</i> , 2021 , 77, 2568-2575	4.6	