Mithila Jugulam

List of Publications by Year
in descending order

72 papers	2,219 citations	218677 26 h-index	254184 43 g-index
77 all docs	77 docs citations	77 times ranked	1626 citing authors

#	Article	IF	Citations
1	Role of Cytochrome P450 Enzymes in Plant Stress Response. Antioxidants, 2020, 9, 454.	5.1	218
2	Extrachromosomal circular DNA-based amplification and transmission of herbicide resistance in crop weed <i>Amaranthus palmeri</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3332-3337.	7.1	159
3	Impact of Climate Change Factors on Weeds and Herbicide Efficacy. Advances in Agronomy, 2016, , 107-146.	5.2	116
4	Weed resistance to synthetic auxin herbicides. Pest Management Science, 2018, 74, 2265-2276.	3.4	113
5	Tandem Amplification of a Chromosomal Segment Harboring 5-Enolpyruvylshikimate-3-Phosphate Synthase Locus Confers Glyphosate Resistance in Kochia scoparia. Plant Physiology, 2014, 166, 1200-1207.	4.8	103
6	Non-Target-Site Resistance to Herbicides: Recent Developments. Plants, 2019, 8, 417.	3.5	103
7	Physiological and Molecular Mechanisms of Differential Sensitivity of Palmer Amaranth (Amaranthus) Tj ETQq1 1 0.784314 rgBT /Overlo	2.5	72
8	Physiological and Molecular Characterization of Hydroxyphenylpyruvate Dioxygenase (HPPD)-inhibitor Resistance in Palmer Amaranth (Amaranthus palmeri S.Wats.). Frontiers in Plant Science, 2017, 8, 555.	3.6	69
9	Herbicide Metabolism: Crop Selectivity, Bioactivation, Weed Resistance, and Regulation. Weed Science, 2019, 67, 149-175.	1.5	62
10	Herbicide resistance: Development of wheat production systems and current status of resistant weeds in wheat cropping systems. Crop Journal, 2019, 7, 750-760.	5.2	61
11	Metabolism of 2,4â€dichlorophenoxyacetic acid contributes to resistance in a common waterhemp (<i>Amaranthus tuberculatus</i>) population. Pest Management Science, 2018, 74, 2356-2362.	3.4	60
12	Fieldâ€evolved resistance to four modes of action of herbicides in a single kochia (<i>Kochia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	3.4	59
13	Rapid detoxification via glutathione <i>S</i>â€transferase (GST) conjugation confers a high level of atrazine resistance in Palmer amaranth (<scp><i>Amaranthus palmeri</i></scp>). Pest Management Science, 2017, 73, 2236-2243.	3.4	59
14	Glyphosate-Resistant Palmer Amaranth (Amaranthus palmeri) in Nebraska: Confirmation, EPSPS Gene Amplification, and Response to POST Corn and Soybean Herbicides. Weed Technology, 2017, 31, 80-93.	0.9	55
15	Physical Mapping of Amplified Copies of the 5-Enolpyruvylshikimate-3-Phosphate Synthase Gene in Glyphosate-Resistant <i>Amaranthus tuberculatus</i>. Plant Physiology, 2017, 173, 1226-1234.	4.8	54
16	Target Siteâ€"Based and Nonâ€"Target Site Based Resistance to ALS Inhibitors in Palmer Amaranth (<i>Amaranthus palmeri</i>). Weed Science, 2017, 65, 681-689.	1.5	52
17	Herbicide-Resistant Kochia (<i>Bassia scoparia</i>) in North America: A Review. Weed Science, 2019, 67, 4-15.	1.5	40
18	An integrated approach to control glyphosateâ€resistant <i>Ambrosia trifida</i> with tillage and herbicides in glyphosateâ€resistant maize. Weed Research, 2017, 57, 112-122.	1.7	39

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19	Increased chalcone synthase (CHS) expression is associated with dicamba resistance in <scp><i>Kochia scoparia</i></scp>. Pest Management Science, 2018, 74, 2306-2315.	3.4	38
20	Temperature Influences Efficacy, Absorption, and Translocation of 2,4-D or Glyphosate in Glyphosate-Resistant and Glyphosate-Susceptible Common Ragweed (<i>Ambrosia artemisiifolia</i>) and Giant Ragweed (<i>Ambrosia trifida</i>). Weed Science, 2017, 65, 588-602.	1.5	36
21	Recent advances in Pelargonium in vitro regeneration systems. Plant Cell, Tissue and Organ Culture, 2001, 67, 1-9.	2.3	35
22	Glyphosate-Resistant Kochia (<i>Kochia scoparia</i>) in Kansas: EPSPS Gene Copy Number in Relation to Resistance Levels. Weed Science, 2015, 63, 587-595.	1.5	34
23	Inheritance of picloram and 2,4-D resistance in wild mustard (Brassica kaber). Weed Science, 2005, 53, 417-423.	1.5	33
24	Survey of the genomic landscape surrounding the 5â€enolpyruvylshikimateâ€3â€phosphate synthase (<i>EPSPS</i>) gene in glyphosateâ€resistant <i>Amaranthus palmeri</i> from geographically distant populations in the USA. Pest Management Science, 2018, 74, 1109-1117.	3.4	33
25	Investigation of MCPA (4-Chloro-2-ethylphenoxyacetate) Resistance in Wild Radish (<i>Raphanus) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	32
26	Molecular and physiological characterization of sixâ€way resistance in an <i>Amaranthus tuberculatus</i> var. <i>rudis</i> biotype from Missouri. Pest Management Science, 2018, 74, 2688-2698.	3.4	31
27	Predominance of Metabolic Resistance in a Six-Way-Resistant Palmer Amaranth (Amaranthus palmeri) Population. Frontiers in Plant Science, 2020, 11, 614618.	3.6	28
28	Integrated Management of Glyphosate-Resistant Giant Ragweed (<i>Ambrosia trifida</i>) with Tillage and Herbicides in Soybean. Weed Technology, 2016, 30, 45-56.	0.9	27
29	Reduced Translocation of Glyphosate and Dicamba in Combination Contributes to Poor Control of Kochia scoparia: Evidence of Herbicide Antagonism. Scientific Reports, 2018, 8, 5330.	3.3	26
30	Reduced absorption of glyphosate and decreased translocation of dicamba contribute to poor control of kochia (<i>Kochia scoparia</i>) at high temperature. Pest Management Science, 2018, 74, 1134-1142.	3.4	25
31	Multiple resistance to glyphosate, paraquat and ACCaseâ€inhibiting herbicides in Italian ryegrass populations from California: confirmation and mechanisms of resistance. Pest Management Science, 2018, 74, 868-877.	3.4	23
32	Evaluating Effect of Degree of Water Stress on Growth and Fecundity of Palmer amaranth (<i>Amaranthus palmeri</i>) Using Soil Moisture Sensors. Weed Science, 2018, 66, 738-745.	1.5	22
33	Gene Duplication and Aneuploidy Trigger Rapid Evolution of Herbicide Resistance in Common Waterhemp. Plant Physiology, 2018, 176, 1932-1938.	4.8	21
34	Prevalence and Mechanism of Atrazine Resistance in Waterhemp (<i>Amaranthus tuberculatus</i>) from Nebraska. Weed Science, 2018, 66, 595-602.	1.5	21
35	Basis of Atrazine and Mesotrione Synergism for Controlling Atrazineâ€and HPPD Inhibitorâ€Resistant Palmer Amaranth. Agronomy Journal, 2019, 111, 3265-3273.	1.8	21
36	Rapid metabolism increases the level of 2,4-D resistance at high temperature in common waterhemp (Amaranthus tuberculatus). Scientific Reports, 2019, 9, 16695.	3.3	21

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37	Comparison of ABP1 over-expressing Arabidopsis and under-expressing tobacco with an auxinic herbicide-resistant wild mustard (Brassica kaber) biotype. Plant Science, 2005, 169, 21-28.	3.6	17
38	Molecular cytogenetics to characterize mechanisms of gene duplication in pesticide resistance. Pest Management Science, 2018, 74, 22-29.	3.4	15
39	Management of glyphosate-resistant Palmer amaranth (<i>Amaranthus palmeri</i>) in 2,4-Dâ€“, glufosinate-, and glyphosate-resistant soybean. Weed Technology, 2021, 35, 136-143.	0.9	15
40	Transfer of Dicamba Tolerance from Sinapis arvensis to Brassica napus via Embryo Rescue and Recurrent Backcross Breeding. PLoS ONE, 2015, 10, e0141418.	2.5	12
41	Glyphosate-Resistant Junglerice (<i>Echinochloa colona</i>) from Mississippi and Tennessee: Magnitude and Resistance Mechanisms. Weed Science, 2018, 66, 603-610.	1.5	12
42	Preâ€planting weed detection based on ground field spectral data. Pest Management Science, 2020, 76, 1173-1182.	3.4	12
43	Control of Photosystem IIâ€“ and 4-Hydroxyphenylpyruvate Dioxygenase Inhibitorâ€“Resistant Palmer Amaranth (<i>Amaranthus palmeri</i>) in Conventional Corn. Weed Technology, 2018, 32, 326-335.	0.9	11
44	Characterization, Genetic Analyses, and Identification of QTLs Conferring Metabolic Resistance to a 4-Hydroxyphenylpyruvate Dioxygenase Inhibitor in Sorghum (Sorghum bicolor). Frontiers in Plant Science, 2020, 11, 596581.	3.6	11
45	Evolution of target and non-target based multiple herbicide resistance in a single Palmer amaranth (<i>Amaranthus palmeri</i>) population from Kansas. Weed Technology, 2020, 34, 447-453.	0.9	10
46	Influence of Plant Growth Stage and Temperature on Glyphosate Efficacy in Common Lambsquarters (Chenopodium album). Weed Technology, 2018, 32, 448-453.	0.9	9
47	Resistance to 2,4-D in Palmer amaranth (<i>Amaranthus palmeri</i>) from Kansas is mediated by enhanced metabolism. Weed Science, 2022, 70, 390-400.	1.5	9
48	A Target-Site Point Mutation in Henbit (<i>Lamium amplexicaule</i>) Confers High-Level Resistance to ALS-Inhibitors. Weed Science, 2016, 64, 231-239.	1.5	8
49	Preemergence Application of Dicamba to Manage Dicamba-Resistant Kochia (<i>Kochia scoparia</i>). Weed Technology, 2018, 32, 309-313.	0.9	8
50	Current status and prospects of herbicideâ€resistant grain sorghum (<i>Sorghum bicolor</i>). Pest Management Science, 2022, 78, 409-415.	3.4	8
51	A single gene inherited trait confers metabolic resistance to chlorsulfuron in grain sorghum (Sorghum bicolor). Planta, 2021, 253, 48.	3.2	8
52	Production of an auxinic herbicide-resistant microspore-derived doubled haploid wild mustard (Sinapis arvensis L.) plant. Crop Protection, 2007, 26, 357-362.	2.1	7
53	Introgression of phenoxy herbicide resistance from <i>Raphanus raphanistrum</i> into <i>Raphanus sativus</i>. Plant Breeding, 2014, 133, 489-492.	1.9	7
54	Mechanism of atrazine resistance in atrazine- and HPPD inhibitor-resistant Palmer amaranth (<i>Amaranthus palmeri</i> S. Wats.) from Nebraska. Canadian Journal of Plant Science, 2019, 99, 815-823.	0.9	5

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55	Genetic Basis of Chlorsulfuron, Atrazine, and Mesotrione Resistance in a Palmer Amaranth (<i>Amaranthus palmeri</i>) Population. ACS Agricultural Science and Technology, 2021, 1, 109-114.	2.3	4
56	Can nonâ€Mendelian inheritance of extrachromosomal circular DNAâ€mediated <i>EPSPS</i> gene amplification provide an opportunity to reverse resistance to glyphosate?. Weed Research, 2021, 61, 100-105.	1.7	4
57	High-resolution unmanned aircraft systems imagery for stay-green characterization in grain sorghum (Sorghum bicolor L.). Journal of Applied Remote Sensing, 2021, 15, .	1.3	4
58	Investigating mechanism of glyphosate resistance in a common ragweed (Ambrosia artemisiifolia L.) biotype from Nebraska. Canadian Journal of Plant Science, 2017, , .	0.9	3
59	Confirmation and Characterization of the First Case of Acetolactate Synthase (ALS)-Inhibitorâ€"Resistant Wild Buckwheat (Polygonum convolvulus L.) in the United States. Agronomy, 2020, 10, 1496.	3.0	3
60	Dicamba resistance in kochia from Kansas and Nebraska evolved independently. Pest Management Science, 2021, 77, 126-130.	3.4	3
61	Glyphosate- and Dicamba-Resistant Genes Are Not Linked in Kochia (<i>Bassia scoparia</i>). Weed Science, 2019, 67, 16-21.	1.5	2
62	Use of high-resolution unmanned aerial systems imagery and machine learning to evaluate grain sorghum tolerance to mesotrione. Journal of Applied Remote Sensing, 2021, 15, .	1.3	2
63	Expression Profiles of <i>psbA, ALS, EPSPS</i>, and Other Chloroplastic Genes in Response to PSII-, ALS-, and EPSPS-Inhibitor Treatments in <i>Kochia scoparia</i>. American Journal of Plant Sciences, 2017, 08, 451-470.	0.8	2
64	Increased Absorption and Translocation Contribute to Improved Efficacy of Dicamba to Control Early Growth Stage Palmer amaranth <i>(Amaranthus palmeri)</i>. Weed Science, 0, , 1-25.	1.5	1
65	Dose responses of silvery-thread moss (<i>Bryum argenteum</i>) to carfentrazone-ethyl. Weed Technology, 2021, 35, 611-617.	0.9	1
66	Transfer of 2,4-D-resistance from <i>Raphanus raphanistrum</i> into <i>Brassica napus</i>: production of F₁ hybrids through embryo rescue. Canadian Journal of Plant Science, 2016, 96, 384-386.	0.9	0
67	Back Cover: Cover Image, Volume 74, Issue 10. Pest Management Science, 2018, 74, ii.	3.4	0
68	Front Cover: Cover Image, Volume 74, Issue 10. Pest Management Science, 2018, 74, i.	3.4	0
69	Characterization and management of metsulfuronâ€resistant Rumex dentatus biotypes in Northâ€West India. Agronomy Journal, 0, , .	1.8	0
70	Genomic distribution of EPSPS copies conferring glyphosate resistance in Palmer amaranth and kochia. Indian Journal of Weed Science, 2016, 48, 132.	0.3	0
71	Gene Amplification and Herbicide Resistance. , 2017, , 173-184.		0
72	Assessment of Phenotypic and Genotypic Diversity in Elite Temperate and Tropical Sweet Sorghum Cultivars. Sugar Tech, 0, , 1.	1.8	0