Akira Uchino

List of Publications by Year
in descending order

39 papers	987 citations	567281 15 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	537 citing authors

#	Article	IF	Citations
1	Cytochrome P450 CYP81A12 and CYP81A21 Are Associated with Resistance to Two Acetolactate Synthase Inhibitors in <i>Echinochloa phyllopogon</i> Â Â. Plant Physiology, 2014, 165, 618-629.	4.8	148
2	<scp>CYP</scp>81A P450s are involved in concomitant crossâ€resistance to acetolactate synthase and acetylâ€CoA carboxylase herbicides in <i>Echinochloa phyllopogon</i>. New Phytologist, 2019, 221, 2112-2122.	7.3	112
3	Cytochrome P450 genes induced by bispyribacâ€sodium treatment in a multipleâ€herbicideâ€resistant biotype of <i>Echinochloa phyllopogon</i>. Pest Management Science, 2014, 70, 549-558.	3.4	102
4	Isolation and expression of genes for acetolactate synthase and acetylâ€CoA carboxylase in Echinochloa phyllopogon, a polyploid weed species. Pest Management Science, 2012, 68, 1098-1106.	3.4	79
5	Molecular basis of diverse responses to acetolactate synthase-inhibiting herbicides in sulfonylurea-resistant biotypes of Schoenoplectus juncoides. Weed Biology and Management, 2007, 7, 89-96.	1.4	74
6	Mutations in the acetolactate synthase genes of sulfonylurea-resistant biotypes of Lindernia spp.. Weed Biology and Management, 2002, 2, 104-109.	1.4	56
7	Role of CYP81A cytochrome P450s in clomazone metabolism in Echinochloa phyllopogon. Plant Science, 2019, 283, 321-328.	3.6	49
8	Multiple-herbicide resistance in Echinochloa crus-galli var. formosensis, an allohexaploid weed species, in dry-seeded rice. Pesticide Biochemistry and Physiology, 2015, 119, 1-8.	3.6	48
9	Copy Number Variation in Acetolactate Synthase Genes of Thifensulfuron-Methyl Resistant Alopecurus aequalis (Shortawn Foxtail) Accessions in Japan. Frontiers in Plant Science, 2017, 8, 254.	3.6	30
10	Light Requirement in Rapid Diagnosis of Sulfonylurea-Resistant Weeds of Lindernia spp. (Scrophulariaceae). Weed Technology, 1999, 13, 680-684.	0.9	28
11	Occurrence of sulfonylurea resistance in <i>Sagittaria trifolia</i>, a basal monocot species, based on targetâ€site and nonâ€targetâ€site resistance. Weed Biology and Management, 2014, 14, 43-49.	1.4	27
12	Photosynthetic Carbon Metabolism in an Amphibious Sedge, Eleocharis baldwinii (Torr.) Chapman: Modified Expression of C4 Characteristics under Submerged Aquatic Conditions. Plant and Cell Physiology, 1995, 36, 229-238.	3.1	25
13	Effects of ferrous iron (Fe) on the germination and root elongation of paddy rice and weeds. Weed Biology and Management, 2009, 9, 20-26.	1.4	19
14	Sulfonylurea Resistant Biotypes of Lindernia Species in the Tohoku Region and their Response to Several Herbicides.. Journal of Weed Science and Technology, 2000, 45, 13-20.	0.1	17
15	Quinclorac resistance in Echinochloa phyllopogon is associated with reduced ethylene synthesis rather than enhanced cyanide detoxification by Î²â€cyanoalanine synthase. Pest Management Science, 2020, 76, 1195-1204.	3.4	16
16	Response of a Sulfonylurea (SU)-Resistant Biotype of Limnophila sessiliflora to Selected SU and Alternative Herbicides. Pesticide Biochemistry and Physiology, 2000, 68, 59-66.	3.6	15
17	C4-type gene expression is not directly dependent on Kranz anatomy in an amphibious sedge Eleocharis vivipara Link. Plant Journal, 1998, 14, 565-572.	5.7	14
18	Suppressive effect of rice bran incorporation in paddy soil on germination ofMonochoria vaginalisand its relationship with electric conductivity. Soil Science and Plant Nutrition, 2012, 58, 200-205.	1.9	12

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19	Difference in ultraweak photon emissions between sulfonylureaâ€resistant and sulfonylureaâ€susceptible biotypes of <i>Scirpus juncoides</i> following the application of a sulfonylurea herbicide. Weed Biology and Management, 2008, 8, 78-84.	1.4	11
20	Gene expression shapes the patterns of parallel evolution of herbicide resistance in the agricultural weed <i>Monochoria vaginalis</i>. New Phytologist, 2021, 232, 928-940.	7.3	11
21	Tolerance of Rice (Oryza sativaL.) andEchinochloaWeeds to Growth Suppression by Rice Straw Added to Paddy Soil in Relation to Iron Toxicity. Plant Production Science, 2010, 13, 314-318.	2.0	10
22	Characterization of the acetolactate synthase gene family in sensitive and resistant biotypes of two tetraploid Monochoria weeds, M. vaginalis and M. korsakowii. Pesticide Biochemistry and Physiology, 2020, 165, 104506.	3.6	10
23	Biology and mechanisms of sulfonylurea resistance in <i>Schoenoplectiella juncoides</i>, a noxious sedge in the rice paddy fields of <scp>J</scp>apan. Weed Biology and Management, 2017, 17, 125-135.	1.4	9
24	Inheritance of Sulfonylurea Resistance in a Paddy Weed, Monochoria korsakowii. Journal of Pesticide Sciences, 2003, 28, 212-214.	1.4	9
25	Genetic diversity within and between sulfonylureaâ€resistant and susceptible populations of <i><scp>S</scp>choenoplectus juncoides</i> in <scp>J</scp>apan. Weed Research, 2013, 53, 290-298.	1.7	8
26	Effects of pyruvate and sucrose on acetolactate synthase activity in <i>Lindernia</i> species and <i>Schoenoplectus juncoides</i> in an <i>in vivo</i> assay. Weed Biology and Management, 2007, 7, 184-187.	1.4	7
27	Suppressive activity of volatile fatty acids and aromatic carboxylic acids on the germination of <i>Monochoria vaginalis</i>. Plant Production Science, 2021, 24, 505-511.	2.0	7
28	Relationship between physical property of soil and growth ofMonochoria vaginalisunder paddy condition of organic farmingâ€"analysis using settled soil volume in water of superficial layer.. Plant Production Science, 2016, 19, 238-245.	2.0	6
29	Promotive effect of soil solution on germination of <i>Monochoria vaginalis</i> under paddy conditions. Soil Science and Plant Nutrition, 2018, 64, 396-405.	1.9	6
30	Investigation of clomazoneâ€tolerance mechanism in a longâ€grain cultivar of rice. Pest Management Science, 2021, 77, 2454-2461.	3.4	6
31	Resistance to ALS-Inhibiting Herbicides in Weeds. Journal of Pesticide Sciences, 2003, 28, 479-483.	1.4	3
32	Factors destabilizing the control of Monochoria vaginalis by rice bran: its conflicting powers influence both suppression and promotion of germination in paddy soil. Plant Production Science, 2021, 24, 83-93.	2.0	3
33	Sulfonylurea-Resistant Weeds in Paddy Rice Fields of Japan. ACS Symposium Series, 2001, , 168-180.	0.5	2
34	Hybridizations and genetic relationships among Lindernia species (Scrophulariaceae): L. procumbens and two subspecies of L. dubia. Aquatic Botany, 2011, 94, 165-171.	1.6	2
35	Estimation of Out-Crossing Rate in Monochoria korsakowii Using the Herbicide Resistance Trait as a Marker. Journal of Pesticide Sciences, 2003, 28, 429-430.	1.4	2
36	Mutations of acetolactate synthase gene and response of sulfonylurea-resistant biotypes of <i>Sagittaria trifolia</i> L. to several herbicides in Yamagata, Japan. Journal of Weed Science and Technology, 2017, 62, 117-125.	0.1	1

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37	Suppressive and promotive effects of rice bran on germination of <i>Monochoria vaginalis</i> in organic rice (<i>Oryza sativa</i> L.) production. Soil Science and Plant Nutrition, 0, , 1-9.	1.9	1
38	Molecular Characterization of Resistance to Acetolactate Synthase Inhibitors in Lindernia micrantha: Origin and Expansion of Resistant Biotypes. ACS Symposium Series, 2005, , 244-254.	0.5	0
39	Dose responses to bensulfuron-methyl and mutations of the acetolactate synthase gene in Sagittaria pygmaea biotypes collected in Yamagata and Aichi Prefecture.. Journal of Weed Science and Technology, 2010, 55, 254-257.	0.1	0