Toshihiko Yamada

List of Publications by Year
in descending order

115 papers	3,147 citations	218677 26 h-index	189892 50 g-index
119 all docs	119 docs citations	119 times ranked	2717 citing authors

#	Article	IF	Citations
1	An enhanced molecular marker based genetic map of perennial ryegrass (Lolium perenne) reveals comparative relationships with other Poaceae genomes. Genome, 2002, 45, 282-295.	2.0	218
2	The ecology and agronomy of <i>Miscanthus sinensis</i>, a species important to bioenergy crop development, in its native range in Japan: a review. GCB Bioenergy, 2009, 1, 126-153.	5.6	158
3	Progress in upscaling <i>Miscanthus</i> biomass production for the European bioâ€economy with seedâ€based hybrids. GCB Bioenergy, 2017, 9, 6-17.	5.6	156
4	Transgenic perennial ryegrass plants expressing wheat fructosyltransferase genes accumulate increased amounts of fructan and acquire increased tolerance on a cellular level to freezing. Plant Science, 2004, 167, 861-868.	3.6	144
5	Molecular mechanisms underlying frost tolerance in perennial grasses adapted to cold climates. Plant Science, 2011, 180, 69-77.	3.6	119
6	Breeding progress and preparedness for massâ€scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. GCB Bioenergy, 2019, 11, 118-151.	5.6	116
7	Cryopreservation of apical meristems of white clover (Trifolium repens L.) by vitrification. Plant Science, 1991, 78, 81-87.	3.6	89
8	A footprint of past climate change on the diversity and population structure of Miscanthus sinensis. Annals of Botany, 2014, 114, 97-107.	2.9	87
9	Systematic analysis and comparison of nucleotideâ€binding site disease resistance genes in maize. FEBS Journal, 2012, 279, 2431-2443.	4.7	86
10	QTL analysis and comparative genomics of herbage quality traits in perennial ryegrass (Lolium perenne) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	81
11	Discovery of natural Miscanthus (Poaceae) triploid plants in sympatric populations of Miscanthus sacchariflorus and Miscanthus sinensis in southern Japan. American Journal of Botany, 2011, 98, 154-159.	1.7	80
12	Determination of hemicellulose, cellulose and lignin content using visible and near infrared spectroscopy in Miscanthus sinensis. Bioresource Technology, 2017, 241, 603-609.	9.6	78
13	Determination of Leaf Water Content by Visible and Near-Infrared Spectrometry and Multivariate Calibration in Miscanthus. Frontiers in Plant Science, 2017, 8, 721.	3.6	76
14	Coordinated expression of functionally diverse fructosyltransferase genes is associated with fructan accumulation in response to low temperature in perennial ryegrass. New Phytologist, 2008, 178, 766-780.	7.3	72
15	Genetic structure of<i>Miscanthus sinensis</i>and<i>Miscanthus sacchariflorus</i>in Japan indicates a gradient of bidirectional but asymmetric introgression. Journal of Experimental Botany, 2015, 66, 4213-4225.	4.8	68
16	Genome biology of the paleotetraploid perennial biomass crop Miscanthus. Nature Communications, 2020, 11, 5442.	12.8	67
17	Genetic variation in <i><scp>M</scp>iscanthusÂÃ—Âgiganteus</i> and the importance of estimating genetic distance thresholds for differentiating clones. GCB Bioenergy, 2015, 7, 386-404.	5.6	62
18	QTL Analysis of Morphological, Developmental, and Winter Hardiness-Associated Traits in Perennial Ryegrass. Crop Science, 2004, 44, 925.	1.8	57

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19	Gene expression and genetic mapping analyses of a perennial ryegrass glycine-rich RNA-binding protein gene suggest a role in cold adaptation. Molecular Genetics and Genomics, 2006, 275, 399-408.	2.1	56
20	Genetics and molecular breeding in <i>Lolium/Festuca</i> grass species complex. Grassland Science, 2005, 51, 89-106.	1.1	54
21	The Gene Pool of Miscanthus Species and Its Improvement. , 2013, , 73-101.		51
22	Establishment of an efficient in vitro culture and particle bombardment-mediated transformation systems in Miscanthus sinensis Anderss., a potential bioenergy crop. GCB Bioenergy, 2011, 3, 322-332.	5.6	50
23	Resistance of <i>Sclerotinia homoeocarpa</i> Field Isolates to Succinate Dehydrogenase Inhibitor Fungicides. Plant Disease, 2018, 102, 2625-2631.	1.4	39
24	A perennial ryegrass CBF gene cluster is located in a region predicted by conserved synteny between Poaceae species. Theoretical and Applied Genetics, 2006, 114, 273-283.	3.6	38
25	Carbon budget and methane and nitrous oxide emissions over the growing season in a Miscanthus sinensis grassland in Tomakomai, Hokkaido, Japan. GCB Bioenergy, 2011, 3, 116-134.	5.6	34
26	Carbon sequestration and yield performances of <i>Miscanthusâ€‰Ã—â€‰giganteus</i> and <i>Miscanthus sinensis</i>. Carbon Management, 2018, 9, 415-423.	2.4	30
27	Ecological characteristics and<i>in situ</i>genetic associations for yield-component traits of wild<i>Miscanthus</i>from eastern Russia. Annals of Botany, 2016, 118, 941-955.	2.9	28
28	Identification of cultivars and accessions of <i>Lolium, Festuca</i> and <i>Festulolium</i> hybrids through the detection of simple sequence repeat polymorphism. Plant Breeding, 2004, 123, 370-376.	1.9	27
29	Development of intron-flanking EST markers for the Lolium/Festuca complex using rice genomic information. Theoretical and Applied Genetics, 2009, 118, 1549-1560.	3.6	27
30	Training Population Optimization for Genomic Selection in <i>Miscanthus</i>. G3: Genes, Genomes, Genetics, 2020, 10, 2465-2476.	1.8	27
31	Population structure of Miscanthus sacchariflorus reveals two major polyploidization events, tetraploid-mediated unidirectional introgression from diploid M. sinensis, and diversity centred around the Yellow Sea. Annals of Botany, 2019, 124, 731-748.	2.9	26
32	Ecotypic variation of water-soluble carbohydrate concentration and winter hardiness in cocksfoot (Dactylis glomerata L.). Euphytica, 2006, 153, 267-280.	1.2	25
33	Genetic studies of .ALPHA.-amylase isozymes in wheat. IV. genetic analyses in hexaploid wheat.. Japanese Journal of Genetics, 1981, 56, 385-395.	1.0	24
34	Environmental Tolerances of Miscanthus sinensis in Invasive and Native Populations. Bioenergy Research, 2012, 5, 139-148.	3.9	23
35	Genetic characterization of androgenic progeny derived from <i>Lolium perenne</i>ÂÃ—Â<i>Festuca pratensis</i> cultivars. New Phytologist, 2005, 166, 455-464.	7.3	22
36	Evaluation of morphological traits, winter survival and biomass potential in wild Japanese <i>Miscanthus sinensis</i> Anderss. populations in northern Japan. Grassland Science, 2015, 61, 83-91.	1.1	22

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37	Cryopreservation of apical meristems of white clover (Trifolium repens L.). Plant Science, 1991, 73, 111-116.	3.6	21
38	Soil carbon stocks and carbon sequestration rates in seminatural grassland in Aso region, Kumamoto, Southern Japan. Global Change Biology, 2013, 19, 1676-1687.	9.5	21
39	Molecular Regulation of Flowering Time in Grasses. Agronomy, 2017, 7, 17.	3.0	21
40	Molecular cloning and genetic mapping of perennial ryegrass casein protein kinase 2 Î±-subunit genes. Theoretical and Applied Genetics, 2005, 112, 167-177.	3.6	20
41	Aboveground plant biomass, carbon, and nitrogen dynamics before and after burning in a seminatural grassland of <i>Miscanthus sinensis</i> in Kumamoto, Japan. GCB Bioenergy, 2010, 2, 52-62.	5.6	20
42	Comparative study of transgenic Brachypodium distachyon expressing sucrose:fructan 6-fructosyltransferases from wheat and timothy grass with different enzymatic properties. Planta, 2014, 239, 783-792.	3.2	20
43	Evaluation of genomic selection and marker-assisted selection in Miscanthus and energycane. Molecular Breeding, 2019, 39, 1.	2.1	20
44	Recurrent selection programs for white clover (Trifolium repens L.) using self-compatible plants. I. Selection of self-compatible plants and inheritance of a self-compatibility factor. Euphytica, 1989, 44, 167-172.	1.2	19
45	Genetic Analysis of Putative Triploid Miscanthus Hybrids and Tetraploid M. sacchariflorus Collected from Sympatric Populations of Kushima, Japan. Bioenergy Research, 2013, 6, 486-493.	3.9	19
46	Winter hardiness of <i>Miscanthus</i> (I): Overwintering ability and yield of new <i>Miscanthus </i>Ã—<i>giganteus </i>genotypes in Illinois and Arkansas. GCB Bioenergy, 2019, 11, 691-705.	5.6	18
47	Biomass yield in a genetically diverse <i>Miscanthus sinensis</i> germplasm panel evaluated at five locations revealed individuals with exceptional potential. GCB Bioenergy, 2019, 11, 1125-1145.	5.6	18
48	Causes of low seed set in white clover (Trifolium repens L.). Grass and Forage Science, 1993, 48, 79-83.	2.9	17
49	Title is missing!. Euphytica, 2001, 122, 213-217.	1.2	17
50	Sucrose Metabolism of Perennial Ryegrass in Relation to Cold Acclimation. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 99-104.	1.4	16
51	Inheritance of the concentration of water-soluble carbohydrates and its relationship with the concentrations of fibre and crude protein in herbage of cocksfoot (Dactylis glomerata L.). Grass and Forage Science, 2007, 62, 322-331.	2.9	16
52	Influence of the fungal endophyte <i>Neotyphodium uncinatum</i> on the persistency and competitive ability of meadow fescue (<i>Festuca pratensis</i> Huds.). Grassland Science, 2010, 56, 59-64.	1.1	16
53	Influence of salt stress on C₄ photosynthesis in <i>Miscanthus sinensis</i> Anderss.. Plant Biology, 2021, 23, 44-56.	3.8	15
54	Production of interspecific hybrids between Trifolium ambiguum M.Bieb. and T.repens L. by ovule culture.. Breeding Science, 1986, 36, 233-239.	0.2	14

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55	Selection of a highly-regenerative genotype of white clover (Trifolium repens L.) and plant regeneration from protoplasts derived from this genotype. Euphytica, 1989, 44, 181-186.	1.2	14
56	Genetic studies of .ALPHA.-amylase isozymes in wheat VII. Variation in diploid ancestral species and phylogeny of tetraploid wheat.. Japanese Journal of Genetics, 1992, 67, 1-15.	1.0	14
57	Intraspecific phenotypic variation associated with nuclear DNA content in Lolium perenne L.. Euphytica, 2002, 128, 145-151.	1.2	13
58	Establishment of Miscanthus sinensis with decreased lignin biosynthesis by Agrobacteriumâ€“mediated transformation using antisense COMT gene. Plant Cell, Tissue and Organ Culture, 2018, 133, 359-369.	2.3	13
59	Collecting wild Miscanthus germplasm in Asia for crop improvement and conservation in Europe whilst adhering to the guidelines of the United Nationsâ€™ Convention on Biological Diversity. Annals of Botany, 2019, 124, 591-604.	2.9	13
60	<i>Saccharum</i> Ã— <i>Miscanthus</i> intergeneric hybrids (miscanes) exhibit greater chilling tolerance of C₄ photosynthesis and postchilling recovery than sugarcane (<i>Saccharum</i> spp. hybrids). GCB Bioenergy, 2019, 11, 1318-1333.	5.6	13
61	Particle inflow gun-mediated transformation of multiple-shoot clumps in rhodes grass (Chloris) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	12
62	Salinity Effects on Germination, Growth, Photosynthesis, and Ion Accumulation in Wild <i>Miscanthus sinensis</i> Anderss. Populations. Crop Science, 2014, 54, 2760-2771.	1.8	12
63	Transformation of androgenic-derived Festulolium plants (LoliumÂperenne L.ÂÃ—ÂFestucaÂpratensis Huds.) by AgrobacteriumÂtumefaciens. Plant Cell, Tissue and Organ Culture, 2009, 96, 219-227.	2.3	11
64	Relationship between Waterâ€Soluble Carbohydrates in Fall and Spring and Vigor of Spring Regrowth in Orchardgrass. Crop Science, 2010, 50, 380-390.	1.8	11
65	Miscanthus. , 2011, , 157-164.		11
66	Microbial production of poly(lactate-<i>co</i>-3-hydroxybutyrate) from hybrid <i>Miscanthus</i>-derived sugars. Bioscience, Biotechnology and Biochemistry, 2016, 80, 818-820.	1.3	11
67	Molecular Marker Dissection of Ryegrass Plant Development and its Response to Growth Environments and Foliage Cuts. Crop Science, 2011, 51, 600-611.	1.8	10
68	Carbon sequestration in soil in a semiâ€natural <i>Miscanthus sinensis</i> grassland and <i>Cryptomeria japonica</i> forest plantation in Aso, Kumamoto, Japan. GCB Bioenergy, 2012, 4, 566-575.	5.6	10
69	Managing flowering time in Miscanthus and sugarcane to facilitate intra- and intergeneric crosses. PLoS ONE, 2021, 16, e0240390.	2.5	10
70	Festuca. , 2011, , 153-164.		9
71	Modification of the total soluble sugar content of the C4 grass <i><scp>P</scp>aspalum notatum</i> expressing the wheatâ€derived sucrose:sucrose 1â€fructosyltransferase and sucrose:fructan 6â€fructosyltransferase genes. Grassland Science, 2013, 59, 196-204.	1.1	9
72	Natural variation in <i>Miscanthus sinensis</i> seed germination under low temperatures. Grassland Science, 2014, 60, 194-198.	1.1	9

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73	A Rapid Molecular Detection System for SdhB and SdhC Point Mutations Conferring Differential Succinate Dehydrogenase Inhibitor Resistance in <i>Clarireedia</i> Populations. Plant Disease, 2021, 105, 660-666.	1.4	9
74	Genetic analysis of forage grasses based on heterologous RFLP markers detected by rice cDNAs. Plant Breeding, 2003, 122, 57-60.	1.9	8
75	Field Performance of Saccharum Ã— Miscanthus Intergeneric Hybrids (Miscanes) Under Cool Climatic Conditions of Northern Japan. Bioenergy Research, 2020, 13, 132-146.	3.9	8
76	Plant regeneration of meristematic callus of white clover (Trifolium repens L.) cooled to ?196ï¿½C by vitrification. Euphytica, 1993, 70, 197-203.	1.2	7
77	Developing<i>Miscanthus</i>for Bioenergy. RSC Energy and Environment Series, 2010, , 301-321.	0.5	7
78	DNA Profiling of Seed Parents and a Topcross Tester and its Application for Yield Improvement in Timothy (<i>Phleum pratense</i> L.). Crop Science, 2011, 51, 612-620.	1.8	7
79	Comparison of the enzymatic digestibility of physically and chemically pretreated selected line of diploid- Miscanthus sinensis Shiozuka and triploid- M. Ã— giganteus. Bioresource Technology, 2013, 146, 393-399.	9.6	7
80	Soil carbon source and accumulation over 12,000years in a semi-natural Miscanthus sinensis grassland in southern Japan. Catena, 2013, 104, 127-135.	5.0	7
81	Use of molecular marker diversity to increase forage yield in timothy (<i>Phleum pratense</i> L.). Plant Breeding, 2013, 132, 144-148.	1.9	7
82	Nucleic adaptability of heterokaryons to fungicides in a multinucleate fungus, Sclerotinia homoeocarpa. Fungal Genetics and Biology, 2018, 115, 64-77.	2.1	7
83	<i>Respiratory burst oxidaseâ€Ð</i> Expression and Biochemical Responses in <i>Festuca arundinacea</i> under Drought Stress. Crop Science, 2018, 58, 435-442.	1.8	7
84	Genomeâ€wide association and genomic prediction for biomass yield in a genetically diverse <i>Miscanthus sinensis</i> germplasm panel phenotyped at five locations in Asia and North America. GCB Bioenergy, 2019, 11, 988-1007.	5.6	7
85	Genetic variation in water-soluble carbohydrate concentration in diverse cultivars of Dactylis glomerata L. during vegetative growth. Australian Journal of Agricultural Research, 2004, 55, 1183.	1.5	7
86	Application of visible and near-infrared spectroscopy to classification of Miscanthus species. PLoS ONE, 2017, 12, e0171360.	2.5	7
87	Proposal for Shift to Reciprocal Recurrent Selections in â€œClone and Strain Synthesisâ€•Timothy Breeding using Molecular Marker Diversity. Crop Science, 2011, 51, 2589-2596.	1.8	6
88	DNA markers for identifying interspecific hybrids between <i>Miscanthus sacchariflorus</i> and <i>Miscanthus sinensis</i>. Grassland Science, 2015, 61, 160-166.	1.1	6
89	Molecular Breeding of Forage and Turf. , 2009, , .		5
90	Registration of â€˜Hidden Valleyâ€™ Meadow Fescue. Journal of Plant Registrations, 2015, 9, 294-298.	0.5	5

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91	Winter hardiness of <i>Miscanthus</i> (III): Genomeâ€wide association and genomic prediction for overwintering ability in <i>Miscanthus sinensis</i>. GCB Bioenergy, 2019, 11, 930-955.	5.6	5
92	Field Assessment of Six Point-Mutations in SDH Subunit Genes Conferring Varying Resistance Levels to SDHIs in <i>Clarireedia</i> spp.. Plant Disease, 2021, 105, 1685-1691.	1.4	5
93	Variations in peroxidase isozyme of Japanese lawn grass (Zoysia japonica STEUD.) populations in Japan.. Breeding Science, 1984, 34, 431-438.	0.2	5
94	Hybridization between perennial ryegrass and Italian ryegrass in naturalized Japanese populations. Grassland Science, 2008, 54, 69-80.	1.1	4
95	Contrasting allelic distribution of<i>CO</i>/<i>Hd1</i>homologues in<i>Miscanthus sinensis</i>from the East Asian mainland and the Japanese archipelago. Journal of Experimental Botany, 2015, 66, 4227-4237.	4.8	4
96	Evaluation of seedling emergence and relative <scp>DNA</scp> content under dry soil conditions of wild <i><scp>F</scp>estuca arundinacea</i> populations collected in Iran. Grassland Science, 2015, 61, 6-14.	1.1	4
97	Potentiality of Four Cool Season Grasses and Miscanthus sinensis for Feedstock in the Cool Regions of Japan. Nihon Energi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 59-65.	0.2	4
98	Cultivar variation for seed development in white clover (Trifolium repens L.). Euphytica, 1993, 65, 211-217.	1.2	3
99	Rapid and efficient callus induction and plant regeneration from seeds of zoysiagrass (<i>Zoysia) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.1	3
100	Forages for feedstocks of biorefineries in temperate environments: review of lignin research in bioenergy crops and some insight into Miscanthus studies. Crop and Pasture Science, 2014, 65, 1199.	1.5	3
101	Use of SSR Markers to Increase Forage Yield in Timoty (Phleum pratense L.). , 2015, , 131-142.		3
102	Assessment of Drought Tolerance of Miscanthus Genotypes through Dry-Down Treatment and Fixed-Soil-Moisture-Content Techniques. Agriculture (Switzerland), 2022, 12, 6.	3.1	3
103	Allelic Diversity for Candidate Genes and Association Studies: Methods and Results. , 2010, , 391-396.		2
104	Insertion-Deletion Marker Targeting for Intron Polymorphisms. , 2013, , 211-228.		2
105	Miscanthus. Handbook of Plant Breeding, 2015, , 43-66.	0.1	2
106	Evaluation of greenhouse gas emissions in a<i>Miscanthus sinensis</i>Andersson-dominated semi-natural grassland in Kumamoto, Japan. Soil Science and Plant Nutrition, 2016, 62, 80-89.	1.9	2
107	Markerâ€Based Paternity Test in Polycross Breeding of Timothy. Crop Science, 2018, 58, 273-284.	1.8	2
108	Differential Responses of NHX1 and SOS1 Gene Expressions to Salinity in two Miscanthus sinensis Anderss. Accessions with Different Salt Tolerance. Phyton, 2021, 90, 827-836.	0.7	2

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109	Introgression Breeding Program in Lolium/Festuca Complex Using Androgenesis. , 2007, , 447-450.		2
110	Genetic studies of Î±-amylase isozymes in wheat VII. Variation in diploid ancestral species and phylogeny of tetraploid wheat. Genes and Genetic Systems, 1992, 67, 1-15.	0.7	1
111	Scientific journal status in Japan: the case of agricultural sciences journals, primarily <i>Grassland Science</i>. Science Editing, 2015, 2, 14-17.	0.8	1
112	Source and Accumulation of Soil Carbon along Catena Toposequences over 12,000 Years in Three Semi-Natural Miscanthus sinensis Grasslands in Japan. Agriculture (Switzerland), 2022, 12, 88.	3.1	1
113	Characterization of the Ghd8 Flowering Time Gene in a Mini-Core Collection of Miscanthus sinensis. Genes, 2021, 12, 288.	2.4	0
114	Transgenesis and Genomics in Forage Crops. , 2010, , 719-744.		0
115	Candidate Gene Approach in Miscanthus spp. for Biorefinery. , 2015, , 85-92.		0