

# Toshihiko Yamada

## List of Publications by Year in descending order

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115  
papers

3,147  
citations

218677

26  
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189892

50  
g-index

119  
all docs

119  
docs citations

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times ranked

2717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Source and Accumulation of Soil Carbon along Catena Toposequences over 12,000 Years in Three Semi-Natural <i>Miscanthus sinensis</i> Grasslands in Japan. <i>Agriculture (Switzerland)</i> , 2022, 12, 88.	3.1	1
2	Assessment of Drought Tolerance of <i>Miscanthus</i> Genotypes through Dry-Down Treatment and Fixed-Soil-Moisture-Content Techniques. <i>Agriculture (Switzerland)</i> , 2022, 12, 6.	3.1	3
3	A Rapid Molecular Detection System for SdhB and SdhC Point Mutations Conferring Differential Succinate Dehydrogenase Inhibitor Resistance in <i>Clariireedia</i> Populations. <i>Plant Disease</i> , 2021, 105, 660-666.	1.4	9
4	Influence of salt stress on C <sub>4</sub> photosynthesis in <i>Miscanthus sinensis</i> Anders.. <i>Plant Biology</i> , 2021, 23, 44-56.	3.8	15
5	Managing flowering time in <i>Miscanthus</i> and sugarcane to facilitate intra- and intergeneric crosses. <i>PLoS ONE</i> , 2021, 16, e0240390.	2.5	10
6	Differential Responses of NHX1 and SOS1 Gene Expressions to Salinity in two <i>Miscanthus sinensis</i> Anders. Accessions with Different Salt Tolerance. <i>Phyton</i> , 2021, 90, 827-836.	0.7	2
7	Characterization of the Ghd8 Flowering Time Gene in a Mini-Core Collection of <i>Miscanthus sinensis</i> . <i>Genes</i> , 2021, 12, 288.	2.4	0
8	Field Assessment of Six Point-Mutations in SDH Subunit Genes Conferring Varying Resistance Levels to SDHIs in <i>Clariireedia</i> spp.. <i>Plant Disease</i> , 2021, 105, 1685-1691.	1.4	5
9	Field Performance of <i>Saccharum</i> × <i>Miscanthus</i> Intergeneric Hybrids (Miscanes) Under Cool Climatic Conditions of Northern Japan. <i>Bioenergy Research</i> , 2020, 13, 132-146.	3.9	8
10	Genome biology of the paleotetraploid perennial biomass crop <i>Miscanthus</i> . <i>Nature Communications</i> , 2020, 11, 5442.	12.8	67
11	Training Population Optimization for Genomic Selection in <i>Miscanthus</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2465-2476.	1.8	27
12	Winter hardiness of <i>Miscanthus</i> (III): Genome-wide association and genomic prediction for overwintering ability in <i>Miscanthus sinensis</i> . <i>GCB Bioenergy</i> , 2019, 11, 930-955.	5.6	5
13	Genome-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. <i>GCB Bioenergy</i> , 2019, 11, 988-1007.	5.6	7
14	Collecting wild <i>Miscanthus</i> germplasm in Asia for crop improvement and conservation in Europe whilst adhering to the guidelines of the United Nations™ Convention on Biological Diversity. <i>Annals of Botany</i> , 2019, 124, 591-604.	2.9	13
15	<i>Saccharum</i> × <i>Miscanthus</i> intergeneric hybrids (miscanes) exhibit greater chilling tolerance of C <sub>4</sub> photosynthesis and postchilling recovery than sugarcane ( <i>Saccharum</i> spp. hybrids). <i>GCB Bioenergy</i> , 2019, 11, 1318-1333.	5.6	13
16	Winter hardiness of <i>Miscanthus</i> (I): Overwintering ability and yield of new <i>Miscanthus</i> × <i>giganteus</i> genotypes in Illinois and Arkansas. <i>GCB Bioenergy</i> , 2019, 11, 691-705.	5.6	18
17	Biomass yield in a genetically diverse <i>Miscanthus sinensis</i> germplasm panel evaluated at five locations revealed individuals with exceptional potential. <i>GCB Bioenergy</i> , 2019, 11, 1125-1145.	5.6	18
18	Evaluation of genomic selection and marker-assisted selection in <i>Miscanthus</i> and energycane. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	20

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19	Breeding progress and preparedness for mass-scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. <i>GCB Bioenergy</i> , 2019, 11, 118-151.	5.6	116
20	Population structure of <i>Miscanthus sacchariflorus</i> reveals two major polyploidization events, tetraploid-mediated unidirectional introgression from diploid <i>M. sinensis</i> , and diversity centred around the Yellow Sea. <i>Annals of Botany</i> , 2019, 124, 731-748.	2.9	26
21	Nucleic adaptability of heterokaryons to fungicides in a multinucleate fungus, <i>Sclerotinia homoeocarpa</i> . <i>Fungal Genetics and Biology</i> , 2018, 115, 64-77.	2.1	7
22	Establishment of <i>Miscanthus sinensis</i> with decreased lignin biosynthesis by <i>Agrobacterium</i> -mediated transformation using antisense COMT gene. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 133, 359-369.	2.3	13
23	Carbon sequestration and yield performances of <i>Miscanthus giganteus</i> and <i>Miscanthus sinensis</i> . <i>Carbon Management</i> , 2018, 9, 415-423.	2.4	30
24	Marker-Based Paternity Test in Polycross Breeding of Timothy. <i>Crop Science</i> , 2018, 58, 273-284.	1.8	2
25	Respiratory burst oxidase Expression and Biochemical Responses in <i>Festuca arundinacea</i> under Drought Stress. <i>Crop Science</i> , 2018, 58, 435-442.	1.8	7
26	Resistance of <i>Sclerotinia homoeocarpa</i> Field Isolates to Succinate Dehydrogenase Inhibitor Fungicides. <i>Plant Disease</i> , 2018, 102, 2625-2631.	1.4	39
27	Progress in upscaling <i>Miscanthus</i> biomass production for the European bioeconomy with seed-based hybrids. <i>GCB Bioenergy</i> , 2017, 9, 6-17.	5.6	156
28	Determination of hemicellulose, cellulose and lignin content using visible and near infrared spectroscopy in <i>Miscanthus sinensis</i> . <i>Bioresource Technology</i> , 2017, 241, 603-609.	9.6	78
29	Determination of Leaf Water Content by Visible and Near-Infrared Spectrometry and Multivariate Calibration in <i>Miscanthus</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 721.	3.6	76
30	Molecular Regulation of Flowering Time in Grasses. <i>Agronomy</i> , 2017, 7, 17.	3.0	21
31	Application of visible and near-infrared spectroscopy to classification of <i>Miscanthus</i> species. <i>PLoS ONE</i> , 2017, 12, e0171360.	2.5	7
32	Ecological characteristics and <i>in situ</i> genetic associations for yield-component traits of wild <i>Miscanthus</i> from eastern Russia. <i>Annals of Botany</i> , 2016, 118, 941-955.	2.9	28
33	Microbial production of poly(lactate-co-3-hydroxybutyrate) from hybrid <i>Miscanthus</i> -derived sugars. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 818-820.	1.3	11
34	Evaluation of greenhouse gas emissions in a <i>Miscanthus sinensis</i> -dominated semi-natural grassland in Kumamoto, Japan. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 80-89.	1.9	2
35	Evaluation of morphological traits, winter survival and biomass potential in wild Japanese <i>Miscanthus sinensis</i> Anderss. populations in northern Japan. <i>Grassland Science</i> , 2015, 61, 83-91.	1.1	22
36	DNA markers for identifying interspecific hybrids between <i>Miscanthus sacchariflorus</i> and <i>Miscanthus sinensis</i> . <i>Grassland Science</i> , 2015, 61, 160-166.	1.1	6

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37	Registration of "Hidden Valley"™ Meadow Fescue. <i>Journal of Plant Registrations</i> , 2015, 9, 294-298.	0.5	5
38	Genetic structure of <i>Miscanthus sinensis</i> and <i>Miscanthus sacchariflorus</i> in Japan indicates a gradient of bidirectional but asymmetric introgression. <i>Journal of Experimental Botany</i> , 2015, 66, 4213-4225.	4.8	68
39	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. <i>Journal of Experimental Botany</i> , 2015, 66, 4227-4237.	4.8	4
40	Evaluation of seedling emergence and relative <i>DNA</i> content under dry soil conditions of wild <i>Festuca arundinacea</i> populations collected in Iran. <i>Grassland Science</i> , 2015, 61, 6-14.	1.1	4
41	<i>Miscanthus</i> . <i>Handbook of Plant Breeding</i> , 2015, , 43-66.	0.1	2
42	Genetic variation in <i>Miscanthus</i> <i>giganteus</i> and the importance of estimating genetic distance thresholds for differentiating clones. <i>GCB Bioenergy</i> , 2015, 7, 386-404.	5.6	62
43	Use of SSR Markers to Increase Forage Yield in Timothy ( <i>Phleum pratense</i> L.). , 2015, , 131-142.		3
44	Candidate Gene Approach in <i>Miscanthus</i> spp. for Biorefinery. , 2015, , 85-92.		0
45	Scientific journal status in Japan: the case of agricultural sciences journals, primarily <i>Grassland Science</i> . <i>Science Editing</i> , 2015, 2, 14-17.	0.8	1
46	Salinity Effects on Germination, Growth, Photosynthesis, and Ion Accumulation in Wild <i>Miscanthus sinensis</i> Anderss. Populations. <i>Crop Science</i> , 2014, 54, 2760-2771.	1.8	12
47	Forages for feedstocks of biorefineries in temperate environments: review of lignin research in bioenergy crops and some insight into <i>Miscanthus</i> studies. <i>Crop and Pasture Science</i> , 2014, 65, 1199.	1.5	3
48	Comparative study of transgenic <i>Brachypodium distachyon</i> expressing sucrose:fructan 6-fructosyltransferases from wheat and timothy grass with different enzymatic properties. <i>Planta</i> , 2014, 239, 783-792.	3.2	20
49	Natural variation in <i>Miscanthus sinensis</i> seed germination under low temperatures. <i>Grassland Science</i> , 2014, 60, 194-198.	1.1	9
50	A footprint of past climate change on the diversity and population structure of <i>Miscanthus sinensis</i> . <i>Annals of Botany</i> , 2014, 114, 97-107.	2.9	87
51	Genetic Analysis of Putative Triploid <i>Miscanthus</i> Hybrids and Tetraploid <i>M. sacchariflorus</i> Collected from Sympatric Populations of Kushima, Japan. <i>Bioenergy Research</i> , 2013, 6, 486-493.	3.9	19
52	Comparison of the enzymatic digestibility of physically and chemically pretreated selected line of diploid- <i>Miscanthus sinensis</i> Shiozuka and triploid- <i>M. giganteus</i> . <i>Bioresource Technology</i> , 2013, 146, 393-399.	9.6	7
53	Soil carbon source and accumulation over 12,000years in a semi-natural <i>Miscanthus sinensis</i> grassland in southern Japan. <i>Catena</i> , 2013, 104, 127-135.	5.0	7
54	The Gene Pool of <i>Miscanthus</i> Species and Its Improvement. , 2013, , 73-101.		51

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55	Insertion-Deletion Marker Targeting for Intron Polymorphisms. , 2013, , 211-228.		2
56	Modification of the total soluble sugar content of the C4 grass <i>Aspalum notatum</i> expressing the wheat-derived sucrose:sucrose 1- $\beta$ -fructosyltransferase and sucrose:fructan 6- $\beta$ -fructosyltransferase genes. Grassland Science, 2013, 59, 196-204.	1.1	9
57	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
58	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
59	Systematic analysis and comparison of nucleotide-binding site disease resistance genes in maize. FEBS Journal, 2012, 279, 2431-2443.	4.7	86
60	Carbon sequestration in soil in a semi-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
61	Environmental Tolerances of <i>Miscanthus sinensis</i> in Invasive and Native Populations. Bioenergy Research, 2012, 5, 139-148.	3.9	23
62	<i>Miscanthus</i> . , 2011, , 157-164.		11
63	<i>Festuca</i> . , 2011, , 153-164.		9
64	Molecular mechanisms underlying frost tolerance in perennial grasses adapted to cold climates. Plant Science, 2011, 180, 69-77.	3.6	119
65	Carbon budget and methane and nitrous oxide emissions over the growing season in a <i>Miscanthus sinensis</i> grassland in Tomakomai, Hokkaido, Japan. GCB Bioenergy, 2011, 3, 116-134.	5.6	34
66	Establishment of an efficient in vitro culture and particle bombardment-mediated transformation systems in <i>Miscanthus sinensis</i> Anders., a potential bioenergy crop. GCB Bioenergy, 2011, 3, 322-332.	5.6	50
67	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
68	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
69	Discovery of natural <i>Miscanthus</i> (Poaceae) triploid plants in sympatric populations of <i>Miscanthus sacchariflorus</i> and <i>Miscanthus sinensis</i> in southern Japan. American Journal of Botany, 2011, 98, 154-159.	1.7	80
70	Proposal for Shift to Reciprocal Recurrent Selections in "Clone and Strain Synthesis" Timothy Breeding using Molecular Marker Diversity. Crop Science, 2011, 51, 2589-2596.	1.8	6
71	Potentiality of Four Cool Season Grasses and <i>Miscanthus sinensis</i> for Feedstock in the Cool Regions of Japan. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 59-65.	0.2	4
72	Allelic Diversity for Candidate Genes and Association Studies: Methods and Results. , 2010, , 391-396.		2

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73	Influence of the fungal endophyte <i>Neotyphodium uncinatum</i> on the persistency and competitive ability of meadow fescue ( <i>Festuca pratensis</i> Huds.). <i>Grassland Science</i> , 2010, 56, 59-64.	1.1	16
74	Rapid and efficient callus induction and plant regeneration from seeds of zoysiagrass ( <i>Zoysia</i> )	1.1	3
75	Relationship between Water-Soluble Carbohydrates in Fall and Spring and Vigor of Spring Regrowth in Orchardgrass. <i>Crop Science</i> , 2010, 50, 380-390.	1.8	11
76	Developing <i>Miscanthus</i> for Bioenergy. <i>RSC Energy and Environment Series</i> , 2010, , 301-321.	0.5	7
77	Aboveground plant biomass, carbon, and nitrogen dynamics before and after burning in a seminatural grassland of <i>Miscanthus sinensis</i> in Kumamoto, Japan. <i>GCB Bioenergy</i> , 2010, 2, 52-62.	5.6	20
78	Transgenesis and Genomics in Forage Crops. , 2010, , 719-744.		0
79	Transformation of androgenic-derived <i>Festulolium</i> plants ( <i>Lolium perenne</i> L.— <i>Festuca pratensis</i> Huds.) by <i>Agrobacterium tumefaciens</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2009, 96, 219-227.	2.3	11
80	Development of intron-flanking EST markers for the <i>Lolium/Festuca</i> complex using rice genomic information. <i>Theoretical and Applied Genetics</i> , 2009, 118, 1549-1560.	3.6	27
81	Particle inflow gun-mediated transformation of multiple-shoot clumps in rhodes grass ( <i>Chloris</i> )	1.4	12
82	Molecular Breeding of Forage and Turf. , 2009, , .		5
83	The ecology and agronomy of <i>Miscanthus sinensis</i> , a species important to bioenergy crop development, in its native range in Japan: a review. <i>GCB Bioenergy</i> , 2009, 1, 126-153.	5.6	158
84	Hybridization between perennial ryegrass and Italian ryegrass in naturalized Japanese populations. <i>Grassland Science</i> , 2008, 54, 69-80.	1.1	4
85	Coordinated expression of functionally diverse fructosyltransferase genes is associated with fructan accumulation in response to low temperature in perennial ryegrass. <i>New Phytologist</i> , 2008, 178, 766-780.	7.3	72
86	Inheritance of the concentration of water-soluble carbohydrates and its relationship with the concentrations of fibre and crude protein in herbage of cocksfoot ( <i>Dactylis glomerata</i> L.). <i>Grass and Forage Science</i> , 2007, 62, 322-331.	2.9	16
87	Introgression Breeding Program in <i>Lolium/Festuca</i> Complex Using Androgenesis. , 2007, , 447-450.		2
88	Sucrose Metabolism of Perennial Ryegrass in Relation to Cold Acclimation. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2006, 61, 99-104.	1.4	16
89	Ecotypic variation of water-soluble carbohydrate concentration and winter hardiness in cocksfoot ( <i>Dactylis glomerata</i> L.). <i>Euphytica</i> , 2006, 153, 267-280.	1.2	25
90	Gene expression and genetic mapping analyses of a perennial ryegrass glycine-rich RNA-binding protein gene suggest a role in cold adaptation. <i>Molecular Genetics and Genomics</i> , 2006, 275, 399-408.	2.1	56

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91	A perennial ryegrass CBF gene cluster is located in a region predicted by conserved synteny between Poaceae species. <i>Theoretical and Applied Genetics</i> , 2006, 114, 273-283.	3.6	38
92	Genetic characterization of androgenic progeny derived from <i>Lolium perenne</i> × <i>Festuca pratensis</i> cultivars. <i>New Phytologist</i> , 2005, 166, 455-464.	7.3	22
93	Genetics and molecular breeding in <i>Lolium/Festuca</i> grass species complex. <i>Grassland Science</i> , 2005, 51, 89-106.	1.1	54
94	QTL analysis and comparative genomics of herbage quality traits in perennial ryegrass ( <i>Lolium perenne</i> ) Tj ETQq0 0,0 rgBT /Overlock 10	3.6	81
95	Molecular cloning and genetic mapping of perennial ryegrass casein protein kinase 2 $\beta$ -subunit genes. <i>Theoretical and Applied Genetics</i> , 2005, 112, 167-177.	3.6	20
96	Identification of cultivars and accessions of <i>Lolium</i> , <i>Festuca</i> and <i>Festulolium</i> hybrids through the detection of simple sequence repeat polymorphism. <i>Plant Breeding</i> , 2004, 123, 370-376.	1.9	27
97	Transgenic perennial ryegrass plants expressing wheat fructosyltransferase genes accumulate increased amounts of fructan and acquire increased tolerance on a cellular level to freezing. <i>Plant Science</i> , 2004, 167, 861-868.	3.6	144
98	Genetic variation in water-soluble carbohydrate concentration in diverse cultivars of <i>Dactylis glomerata</i> L. during vegetative growth. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 1183.	1.5	7
99	QTL Analysis of Morphological, Developmental, and Winter Hardiness-Associated Traits in Perennial Ryegrass. <i>Crop Science</i> , 2004, 44, 925.	1.8	57
100	Genetic analysis of forage grasses based on heterologous RFLP markers detected by rice cDNAs. <i>Plant Breeding</i> , 2003, 122, 57-60.	1.9	8
101	An enhanced molecular marker based genetic map of perennial ryegrass ( <i>Lolium perenne</i> ) reveals comparative relationships with other Poaceae genomes. <i>Genome</i> , 2002, 45, 282-295.	2.0	218
102	Intraspecific phenotypic variation associated with nuclear DNA content in <i>Lolium perenne</i> L.. <i>Euphytica</i> , 2002, 128, 145-151.	1.2	13
103	Title is missing!. <i>Euphytica</i> , 2001, 122, 213-217.	1.2	17
104	Cultivar variation for seed development in white clover ( <i>Trifolium repens</i> L.). <i>Euphytica</i> , 1993, 65, 211-217.	1.2	3
105	Plant regeneration of meristematic callus of white clover ( <i>Trifolium repens</i> L.) cooled to $-196^{\circ}\text{C}$ by vitrification. <i>Euphytica</i> , 1993, 70, 197-203.	1.2	7
106	Causes of low seed set in white clover ( <i>Trifolium repens</i> L.). <i>Grass and Forage Science</i> , 1993, 48, 79-83.	2.9	17
107	Genetic studies of $\alpha$ -amylase isozymes in wheat VII. Variation in diploid ancestral species and phylogeny of tetraploid wheat.. <i>Japanese Journal of Genetics</i> , 1992, 67, 1-15.	1.0	14
108	Genetic studies of $\beta$ -amylase isozymes in wheat VII. Variation in diploid ancestral species and phylogeny of tetraploid wheat. <i>Genes and Genetic Systems</i> , 1992, 67, 1-15.	0.7	1

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109	Cryopreservation of apical meristems of white clover ( <i>Trifolium repens</i> L.). <i>Plant Science</i> , 1991, 73, 111-116.	3.6	21
110	Cryopreservation of apical meristems of white clover ( <i>Trifolium repens</i> L.) by vitrification. <i>Plant Science</i> , 1991, 78, 81-87.	3.6	89
111	Recurrent selection programs for white clover ( <i>Trifolium repens</i> L.) using self-compatible plants. I. Selection of self-compatible plants and inheritance of a self-compatibility factor. <i>Euphytica</i> , 1989, 44, 167-172.	1.2	19
112	Selection of a highly-regenerative genotype of white clover ( <i>Trifolium repens</i> L.) and plant regeneration from protoplasts derived from this genotype. <i>Euphytica</i> , 1989, 44, 181-186.	1.2	14
113	Production of interspecific hybrids between <i>Trifolium ambiguum</i> M.Bieb. and <i>T.repens</i> L. by ovule culture.. <i>Breeding Science</i> , 1986, 36, 233-239.	0.2	14
114	Variations in peroxidase isozyme of Japanese lawn grass ( <i>Zoysia japonica</i> STEUD.) populations in Japan.. <i>Breeding Science</i> , 1984, 34, 431-438.	0.2	5
115	Genetic studies of .ALPHA.-amylase isozymes in wheat. IV. genetic analyses in hexaploid wheat.. <i>Japanese Journal of Genetics</i> , 1981, 56, 385-395.	1.0	24