Gustavo G Striker

List of Publications by Year
in descending order

50 papers	1,691 citations	304701 22 h-index	302107 39 g-index
50 all docs	50 docs citations	50 times ranked	1391 citing authors

#	Article	IF	Citations
1	Mechanisms of waterlogging tolerance in wheat â€“ a review of root and shoot physiology. Plant, Cell and Environment, 2016, 39, 1068-1086.	5.7	229
2	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. New Phytologist, 2017, 214, 1403-1407.	7.3	146
3	Waterlogging of Winter Crops at Early and Late Stages: Impacts on Leaf Physiology, Growth and Yield. Frontiers in Plant Science, 2018, 9, 1863.	3.6	108
4	Physiological and Anatomical Basis of Differential Tolerance to Soil Flooding of Lotus corniculatus L. and Lotus glaber Mill. Plant and Soil, 2005, 276, 301-311.	3.7	101
5	Trade-off between root porosity and mechanical strength in species with different types of aerenchyma. Plant, Cell and Environment, 2007, 30, 580-589.	5.7	96
6	Flooding tolerance of forage legumes. Journal of Experimental Botany, 2017, 68, erw239.	4.8	78
7	Escape from water or remain quiescent? Lotus tenuis changes its strategy depending on depth of submergence. Annals of Botany, 2009, 104, 1163-1169.	2.9	77
8	Time is on our side: the importance of considering a recovery period when assessing flooding tolerance in plants. Ecological Research, 2012, 27, 983-987.	1.5	69
9	Oxygen deficiency and salinity affect cellâ€specific ion concentrations in adventitious roots of barley (<i><scp>H</scp>ordeum vulgare</i>). New Phytologist, 2015, 208, 1114-1125.	7.3	59
10	Application of SiO2 nanoparticles as pretreatment alleviates the impact of drought on the physiological performance of Prunus mahaleb (Rosaceae). Boletin De La Sociedad Argentina De Botanica, 2018, 53, 207-219.	0.3	46
11	Root strength and trampling tolerance in the grass Paspalum dilatatum and the dicot Lotus glaber in flooded soil. Functional Ecology, 2006, 20, 4-10.	3.6	38
12	Different strategies of <i>Lotus japonicus</i>, <i>L.</i>Â<i>corniculatus</i> and <i>L.Âtenuis</i> to deal with complete submergence at seedling stage. Plant Biology, 2012, 14, 50-55.	3.8	38
13	Flooding Effects on Plants Recovering from Defoliation in Paspalum dilatatum and Lotus tenuis. Annals of Botany, 2008, 102, 247-254.	2.9	35
14	Radial oxygen loss and physical barriers in relation to root tissue age in species with different types of aerenchyma. Functional Plant Biology, 2015, 42, 9.	2.1	32
15	Growth during recovery evidences the waterlogging tolerance of forage grasses. Crop and Pasture Science, 2017, 68, 574.	1.5	32
16	Flooding tolerance of Paspalum dilatatum (Poaceae: Paniceae) from upland and lowland positions in a natural grassland. Flora: Morphology, Distribution, Functional Ecology of Plants, 2008, 203, 548-556.	1.2	30
17	Constitutive and Plastic Root Traits and Their Role in Differential Tolerance to Soil Flooding among Coexisting Species of a Lowland Grassland. International Journal of Plant Sciences, 2005, 166, 805-813.	1.3	29
18	Trampling enhances the dominance of graminoids over forbs in flooded grassland mesocosms. Applied Vegetation Science, 2011, 14, 95-106.	1.9	29

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19	Increasing defoliation frequency constrains regrowth of the forage legume Lotus tenuis under flooding. The role of crown reserves. Plant and Soil, 2011, 343, 261-272.	3.7	27
20	Growth responses of Melilotus siculus accessions to combined salinity and root-zone hypoxia are correlated with differences in tissue ion concentrations and not differences in root aeration. Environmental and Experimental Botany, 2015, 109, 89-98.	4.2	27
21	The effects of submergence on anatomical, morphological and biomass allocation responses of tropical grasses Chloris gayana and Panicum coloratum at seedling stage. Crop and Pasture Science, 2012, 63, 1145.	1.5	26
22	Phenomic networks reveal largely independent root and shoot adjustment in waterlogged plants of <scp><i>L</i></scp><i>otus japonicus</i>. Plant, Cell and Environment, 2014, 37, 2278-2293.	5.7	26
23	Waterlogging differentially affects yield and its components in wheat, barley, rapeseed and field pea depending on the timing of occurrence. Journal of Agronomy and Crop Science, 2020, 206, 363-375.	3.5	23
24	Subtle topographical differences along a floodplain promote different plant strategies among <i>Paspalum dilatatum</i> subspecies and populations. Austral Ecology, 2010, 35, 189-196.	1.5	22
25	Tolerance to partial and complete submergence in the forage legume<i>Melilotus siculus</i>: an evaluation of 15 accessions for petiole hyponastic response and gas-filled spaces, leaf hydrophobicity and gas films, and root phellem. Annals of Botany, 2019, 123, 169-180.	2.9	22
26	No escape? Costs and benefits of leaf de-submergence in the pasture grass Chloris gayana under different flooding regimes. Functional Plant Biology, 2017, 44, 899.	2.1	21
27	Visiting the Methodological Aspects of Flooding Experiments: Quantitative Evidence from Agricultural and Ecophysiological Studies. Journal of Agronomy and Crop Science, 2008, 194, 249-255.	3.5	19
28	Plant growth rate after, and not during, waterlogging better correlates to yield responses in wheat and barley. Journal of Agronomy and Crop Science, 2021, 207, 304-316.	3.5	19
29	Some physiological and morphological responses of Pyrus boissieriana to flooding. Trees - Structure and Function, 2013, 27, 1387-1393.	1.9	18
30	Saline tidal flooding effects on Spartina densiflora plants from different positions of the salt marsh. Diversities and similarities on growth, anatomical and physiological responses. Environmental and Experimental Botany, 2014, 102, 27-36.	4.2	17
31	Ability to recover overrides the negative effects of flooding on growth of tropical grasses Chloris gayana and Panicum coloratum. Crop and Pasture Science, 2015, 66, 100.	1.5	14
32	Soil water regime of grassland communities along subtle topographic gradient in the Flooding Pampa (Argentina). Soil and Water Research, 2016, 11, 90-96.	1.7	14
33	Plant Responses to Hypoxia: Signaling and Adaptation. Plants, 2020, 9, 1704.	3.5	13
34	Growth, physiology, and leaf ion concentration responses to long-term flooding with fresh or saline water of Populus euphratica. South African Journal of Botany, 2017, 108, 229-236.	2.5	12
35	Variability among Festuca arundinacea cultivars for tolerance to and recovery from waterlogging, salinity and their combination. Crop and Pasture Science, 2021, 72, 75.	1.5	12
36	Differential growth of Spartina densiflora populations under saline flooding is related to adventitious root formation and innate root ion regulation. Functional Plant Biology, 2016, 43, 52.	2.1	10

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37	Eco-Physiological Traits Related to Recovery from Complete Submergence in the Model Legume Lotus japonicus. Plants, 2020, 9, 538.	3.5	10
38	Cytokinins: A key player in determining differences in patterns of canopy senescence in Stay-Green and Fast Dry-Down sunflower (Helianthus annuus L.) hybrids. European Journal of Agronomy, 2017, 86, 60-70.	4.1	9
39	<i>Echinochloa crusâ€galli</i> seed physiological dormancy and germination responses to hypoxic floodwaters. Plant Biology, 2019, 21, 1159-1166.	3.8	8
40	Recovery from short-term complete submergence in temperate pasture grasses. Crop and Pasture Science, 2018, 69, 745.	1.5	7
41	Anatomical, morphological and growth responses of Thinopyrum ponticum plants subjected to partial and complete submergence during early stages of development. Functional Plant Biology, 2020, 47, 757.	2.1	7
42	Growth, morphology and gas exchange responses of two-year-old<i>Quercus castaneifolia</i>seedlings to flooding stress. Scandinavian Journal of Forest Research, 2016, 31, 458-466.	1.4	6
43	A quantitative revision of the waterlogging tolerance of perennial forage grasses. Crop and Pasture Science, 2022, 73, 1200-1212.	1.5	6
44	AtCBF1 Overexpression Confers Tolerance to High Light Conditions at Warm Temperatures in Potato Plants. American Journal of Potato Research, 2015, 92, 619-635.	0.9	5
45	The forage grass Paspalum dilatatum tolerates partial but not complete submergence caused by either deep water or repeated defoliation. Crop and Pasture Science, 2020, 71, 190.	1.5	5
46	Dormancy breakage and germination are tightly controlled by hypoxic submergence water on <i>Echinochloa crus-galli</i> seeds from an accession resistant to anaerobic germination. Seed Science Research, 2020, 30, 262-267.	1.7	4
47	Agronomic and molecular characterization of <i>Chloris gayana</i> cultivars and salinity response during germination and early vegetative growth. Tropical Grasslands - Forrajes Tropicales, 2019, 7, 14-24.	0.5	4
48	Submergence tolerance and recovery in Lotus: Variation among fifteen accessions in response to partial and complete submergence. Journal of Plant Physiology, 2020, 249, 153180.	3.5	3
49	Defining the waterlogging tolerance of Ornithopus spp. for the temperate pasture zone of southern Australia. Crop and Pasture Science, 2020, 71, 506.	1.5	2
50	Nitrogen accumulation and remobilisation in wheat and barley plants exposed to waterlogging at different developmental stages. Crop and Pasture Science, 2022, , .	1.5	1