Pedro E. Gundel

List of Publications by Year
in descending order

96	3,152	147801	182427
papers	citations	31 h-index	51 g-index

100	100	100	2430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Endophytic mediation of reactive oxygen species and antioxidant activity in plants: a review. Fungal Diversity, 2012, 54, 1-10.	12.3	251
2	Chemical Ecology Mediated by Fungal Endophytes in Grasses. Journal of Chemical Ecology, 2013, 39, 962-968.	1.8	165
3	EpichloÃ« Fungal Endophytes and Plant Defenses: Not Just Alkaloids. Trends in Plant Science, 2017, 22, 939-948.	8.8	162
4	Climate change-driven species' range shifts filtered by photoperiodism. Nature Climate Change, 2012, 2, 239-242.	18.8	132
5	Incorporating the process of vertical transmission into understanding of hostâ€“symbiont dynamics. Oikos, 2011, 120, 1121-1128.	2.7	102
6	Competing neighbors: light perception and root function. Oecologia, 2014, 176, 1-10.	2.0	91
7	Neotyphodiumendophyte infection frequency in annual grass populations: relative importance of mutualism and transmission efficiency. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 897-905.	2.6	87
8	Grassâ€“endophyte symbiosis: A neglected aboveground interaction with multiple belowground consequences. Applied Soil Ecology, 2012, 61, 273-279.	4.3	85
9	Glyphosateâ€resistant weeds of South American cropping systems: an overview. Pest Management Science, 2008, 64, 366-371.	3.4	81
10	Functional roles of microbial symbionts in plant cold tolerance. Ecology Letters, 2020, 23, 1034-1048.	6.4	79
11	Experimental Methods for Estimation of Plant Fitness Costs Associated with Herbicide-Resistance Genes. Weed Science, 2015, 63, 203-216.	1.5	75
12	Symbiotically modified organisms: nontoxic fungal endophytes in grasses. Trends in Plant Science, 2013, 18, 420-427.	8.8	72
13	Evolution of Glyphosate-Resistant Johnsongrass (Sorghum halepense) in Glyphosate-Resistant Soybean. Weed Science, 2007, 55, 566-571.	1.5	71
14	Imperfect Vertical Transmission of the Endophyte Neotyphodium in Exotic Grasses in Grasslands of the Flooding Pampa. Microbial Ecology, 2009, 57, 740-748.	2.8	62
15	Mutualism effectiveness and vertical transmission of symbiotic fungal endophytes in response to host genetic background. Evolutionary Applications, 2012, 5, 838-849.	3.1	62
16	Global urban environmental change drives adaptation in white clover. Science, 2022, 375, 1275-1281.	12.6	62
17	Fungal Endophytes Exert Positive Effects on Colobanthus quitensis Under Water Stress but Neutral Under a Projected Climate Change Scenario in Antarctica. Frontiers in Microbiology, 2020, 11, 264.	3.5	56
18	Fungal endophytes help prevent weed invasions. Agriculture, Ecosystems and Environment, 2013, 165, 1-5.	5.3	54

#	Article	IF	Citations
19	Antarctic root endophytes improve physiological performance and yield in crops under salt stress by enhanced energy production and Na+ sequestration. Scientific Reports, 2020, 10, 5819.	3.3	54
20	Glyphosate resistance in Sorghum halepense and Lolium rigidum is reduced at suboptimal growing temperatures. Pest Management Science, 2013, 69, 228-232.	3.4	52
21	The plant hormone salicylic acid interacts with the mechanism of antiâ€herbivory conferred by fungal endophytes in grasses. Plant, Cell and Environment, 2018, 41, 395-405.	5.7	52
22	Fungal endophytes can eliminate the plant growthâ€“defence tradeâ€off. New Phytologist, 2021, 230, 2105-2113.	7.3	47
23	Effects of Neotyphodium Fungi on Lolium multiflorum Seed Germination in Relation to Water Availability. Annals of Botany, 2006, 97, 571-577.	2.9	44
24	Vertically transmitted symbionts as mechanisms of transgenerational effects. American Journal of Botany, 2017, 104, 787-792.	1.7	44
25	The interplay between the effectiveness of the grassâ€endophyte mutualism and the genetic variability of the host plant. Evolutionary Applications, 2010, 3, 538-546.	3.1	37
26	Effects of the Neotyphodium endophyte fungus on dormancy and germination rate of Lolium multiflorum seeds. Austral Ecology, 2006, 31, 767-775.	1.5	35
27	Family issues: fungal endophyte protects host grass from the closely related pathogen Claviceps purpurea. Fungal Ecology, 2013, 6, 379-386.	1.6	35
28	Fungal endophyte infection changes growth attributes in Lolium multiflorum Lam. Austral Ecology, 2005, 30, 49-57.	1.5	33
29	Neotyphodium endophyte transmission to Lolium multiflorum seeds depends on the host plant fitness. Environmental and Experimental Botany, 2011, 71, 359-359.	4.2	33
30	EpichloÃ« Endophytes Alter Inducible Indirect Defences in Host Grasses. PLoS ONE, 2014, 9, e101331.	2.5	33
31	Broadâ€scale variation of fungalâ€endophyte incidence in temperate grasses. Journal of Ecology, 2015, 103, 184-190.	4.0	32
32	Dormancy, germination and ageing of Lolium multiflorum seeds following contrasting herbicide selection regimes. European Journal of Agronomy, 2008, 28, 606-613.	4.1	31
33	Non-systemic fungal endophytes in Festuca rubra plants infected by EpichloÃ« festucae in subarctic habitats. Fungal Diversity, 2013, 60, 25-32.	12.3	31
34	An ecological framework for understanding the roles of EpichloÃ« endophytes on plant defenses against fungal diseases. Fungal Biology Reviews, 2020, 34, 115-125.	4.7	31
35	Mutualism effectiveness of a fungal endophyte in an annual grass is impaired by ozone. Functional Ecology, 2016, 30, 226-234.	3.6	29
36	A Systematic Review on the Effects of EpichloÃ« Fungal Endophytes on Drought Tolerance in Cool-Season Grasses. Frontiers in Plant Science, 2021, 12, 644731.	3.6	29

#	Article	IF	Citations
37	Viability of Neotyphodium endophytic fungus and endophyte-infected and noninfected Lolium multiflorum seeds. Botany, 2009, 87, 88-96.	1.0	28
38	Dynamics of Neotyphodium endophyte infection in ageing seed pools: incidence of differential viability loss of endophyte, infected seed and nonâ€infected seed. Annals of Applied Biology, 2010, 156, 199-209.	2.5	26
39	Fungal Endophytes Enhance the Photoprotective Mechanisms and Photochemical Efficiency in the Antarctic Colobanthus quitensis (Kunth) Bartl. Exposed to UV-B Radiation. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	24
40	Poplar Afforestation Effects on Grassland Structure and Composition in the Flooding Pampas. Rangeland Ecology and Management, 2005, 58, 474-479.	2.3	23
41	Jasmonic acid regulation of the antiâ€herbivory mechanism conferred by fungal endophytes in grasses. Journal of Ecology, 2018, 106, 2365-2379.	4.0	23
42	Neotyphodium fungal endophyte in tall fescue (Schedonorus phoenix): a comparison of three Northern European wild populations and the cultivar Kentucky-31. Fungal Diversity, 2013, 60, 15-24.	12.3	22
43	Metabolism or behavior: explaining the performance of aphids on alkaloid-producing fungal endophytes in annual ryegrass (Lolium multiflorum). Oecologia, 2017, 185, 245-256.	2.0	22
44	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted EpichloÃ« Fungal Endophytes and Its Relationship With Antioxidants. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	22
45	Consequences of grazing on the vertical transmission of a fungal Neotyphodium symbiont in an annual grass population. Austral Ecology, 2012, 37, 620-628.	1.5	20
46	Germination response of endophytic Festuca rubra seeds in the presence of arsenic. Grass and Forage Science, 2014, 69, 462-469.	2.9	20
47	Can the defensive mutualism between grasses and fungal endophytes protect non-symbiotic neighbours from soil pathogens?. Plant and Soil, 2016, 405, 289-298.	3.7	20
48	Trade-off between seed number and weight: Influence of a grassâ€“endophyte symbiosis. Basic and Applied Ecology, 2012, 13, 32-39.	2.7	19
49	Inferring field performance from drought experiments can be misleading: The case of symbiosis between grasses and EpichloÃ« fungal endophytes. Journal of Arid Environments, 2016, 132, 60-62.	2.4	19
50	Searching for Evidence against the Mutualistic Nature of Hereditary Symbioses: A Comment on Faeth. American Naturalist, 2010, 176, 99-103.	2.1	18
51	Impact of ozone on the viability and antioxidant content of grass seeds is affected by a vertically transmitted symbiotic fungus. Environmental and Experimental Botany, 2015, 113, 40-46.	4.2	18
52	Symbiosis with systemic fungal endophytes promotes host escape from vector-borne disease. Oecologia, 2017, 184, 237-245.	2.0	18
53	Symbiotic interactions as drivers of trade-offs in plants: effects of fungal endophytes on tall fescue. Fungal Diversity, 2013, 60, 5-14.	12.3	17
54	Protection offered by leaf fungal endophytes to an invasive species against native herbivores depends on soil nutrients. Journal of Ecology, 2020, 108, 1592-1604.	4.0	17

#	Article	IF	Citations
55	Direct and indirect effects of the fungal endophyte EpichloÃ« uncinatum on litter decomposition of the host grass, Schedonorus pratensis. Plant Ecology, 2017, 218, 1107-1115.	1.6	16
56	Getting ready for the ozone battle: Vertically transmitted fungal endophytes have transgenerational positive effects in plants. Plant, Cell and Environment, 2021, 44, 2716-2728.	5.7	16
57	Occurrence of EpichloÃ« fungal endophytes in the sheep-preferred grass Hordeum comosum from Patagonia. Journal of Arid Environments, 2015, 115, 19-26.	2.4	15
58	Role of foliar fungal endophytes in litter decomposition among species and population origins. Fungal Ecology, 2016, 21, 50-56.	1.6	15
59	Ontogenetic and transâ€generational dynamics of a vertically transmitted fungal symbiont in an annual host plant in ozoneâ€polluted settings. Plant, Cell and Environment, 2020, 43, 2540-2550.	5.7	15
60	Interaction between plant genotype and the symbiosis with EpichloÃ« fungal endophytes in seeds of red fescue (Festuca rubra). Crop and Pasture Science, 2011, 62, 1010.	1.5	14
61	Antioxidants in Festuca rubra L. seeds affected by the fungal symbiont EpichloÃ« festucae. Symbiosis, 2012, 58, 73-80.	2.3	14
62	Effects of systemic fungal endophytes on the performance of meadow fescue and tall fescue in mixtures with red clover. Grass and Forage Science, 2015, 70, 465-473.	2.9	13
63	Assessing the impacts of intra- and interspecific competition betweenTriticum aestivumandTrifolium repenson the speciesâ€™ responses to ozone. Botany, 2017, 95, 923-932.	1.0	13
64	Forage production in natural and afforested grasslands of the Pampas: ecological complementarity and management opportunities. Agroforestry Systems, 2011, 83, 201-211.	2.0	12
65	Geographic Variation in Festuca rubra L. Ploidy Levels and Systemic Fungal Endophyte Frequencies. PLoS ONE, 2016, 11, e0166264.	2.5	12
66	Ozone Exposure of a Weed Community Produces Adaptive Changes in Seed Populations of Spergula arvensis. PLoS ONE, 2013, 8, e75820.	2.5	11
67	Simulated folivory increases vertical transmission of fungal endophytes that deter herbivores and alter tolerance to herbivory inPoa autumnalis. Annals of Botany, 2020, 125, 981-991.	2.9	10
68	Episodes of high tropospheric ozone reduce nodulation, seed production and quality in soybean (Glycine max (L.) merr.) on low fertility soils. Environmental Pollution, 2021, 269, 116117.	7.5	10
69	Seed-borne fungal endophytes constrain reproductive success of host plants under ozone pollution. Environmental Research, 2021, 202, 111773.	7.5	10
70	EpichloÃ« Fungal Endophytes Influence Seed-Associated Bacterial Communities. Frontiers in Microbiology, 2021, 12, 795354.	3.5	10
71	Hardening Blueberry Plants to Face Drought and Cold Events by the Application of Fungal Endophytes. Agronomy, 2022, 12, 1000.	3.0	10
72	Threshold modelling Lolium multiflorum seed germination: effects of Neotyphodium endophyte infection and storage environment. Seed Science and Technology, 2012, 40, 51-62.	1.4	9

#	Article	IF	Citations
73	Maternal Exposure to Ozone Modulates the Endophyte-Conferred Resistance to Aphids in Lolium multiflorum Plants. Insects, 2020, 11, 548.	2.2	9
74	Sipha maydissensitivity to defences ofLolium multiflorumand its endophytic fungusEpichloÃ«occultans. PeerJ, 2019, 7, e8257.	2.0	9
75	Morphological and growth responses to water stress of two sub-populations of Bromus pictus from soils with contrasting water availability. Revista Chilena De Historia Natural, 2006, 79, 65.	1.2	8
76	The negative effect of a vertically-transmitted fungal endophyte on seed longevity is stronger than that of ozone transgenerational effect. Environmental and Experimental Botany, 2020, 175, 104037.	4.2	8
77	The role of plant size in the selection of glyphosate resistance in <scp>Sorghum halepense</scp>. Pest Management Science, 2018, 74, 2460-2467.	3.4	7
78	A fungal endophyte of a palatable grass affects preference of large herbivores. Austral Ecology, 2018, 43, 172-179.	1.5	7
79	Molecular and structural characterization of expansins modulated by fungal endophytes in the Antarctic Colobanthus quitensis (Kunth) Bartl. Exposed to drought stress. Plant Physiology and Biochemistry, 2021, 168, 465-476.	5.8	7
80	Loss of fungal symbionts at the arid limit of the distribution range in a native Patagonian grassâ€"Resource ecoâ€physiological relations. Functional Ecology, 2022, 36, 583-594.	3.6	7
81	Herbicide Selection of Italian Ryegrass under Different Levels of UVB Radiation. Journal of Environmental Quality, 2004, 33, 1376.	2.0	6
82	Limits to recruitment of tall fescue plants in poplar silvopastoral systems of the Pampas, Argentina. Agroforestry Systems, 2010, 80, 275-282.	2.0	6
83	Can seed-borne endophytes promote grass invasion by reducing host dependence on mycorrhizas?. Fungal Ecology, 2021, 52, 101077.	1.6	6
84	Germination requirements of two sheep-preferred grasses (Hordeum comosum and Koeleria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T 78, 183-186.	2.4	5
85	The enhancement of invasion ability of an annual grass by its fungal endophyte depends on recipient community structure. Biological Invasions, 2016, 18, 1853-1865.	2.4	5
86	Ecotypeâ€specific effects of fungal endophytes on germination responses of seeds of the South American wild forage grass <scp>Bromus auleticus</scp>. Annals of Applied Biology, 2022, 180, 247-258.	2.5	5
87	Legacy of historic ozone exposure on plant community and food web structure. PLoS ONE, 2017, 12, e0182796.	2.5	4
88	Editorial: Seed Microbiome Research. Frontiers in Microbiology, 0, 13, .	3.5	4
89	HERBIVORY MEDIATES GRASSâ€"ENDOPHYTE RELATIONSHIPS: COMMENT. Ecology, 2008, 89, 3542-3545.	3.2	3
90	Systemic fungal endophytes and ploidy level in Festuca vivipara populations in North European Islands. Plant Systematics and Evolution, 2014, 300, 1683-1691.	0.9	2

#	Article	IF	Citations
91	Data on litter quality of host grass plants with and without fungal endophytes. Data in Brief, 2016, 7, 1469-1472.	1.0	1
92	Fungal endophyte mediated occurrence of seminiferous and pseudoviviparous panicles in Festuca rubra. Fungal Diversity, 2014, 66, 69-76.	12.3	0
93	A fungal endophyte of an annual weed reduces host competitive ability and confers associational protection to wheat. Basic and Applied Ecology, 2021, 50, 16-24.	2.7	0
94	Diversity, Ecology, and Applications of EpichloÃ« Fungal Endophytes of Grasses in South America. , 2021, , 11-36.		0
95	Examples Help Demonstrate the Mechanisms Underlying the Development of Solutions. Ecology and Society, 2003, 7, .	0.9	0
96	How and when fungal endophytes can eliminate the plant growthâ€“defence tradeâ€•off: mechanistic perspectives. New Phytologist, 2022, 235, 388-390.	7.3	0