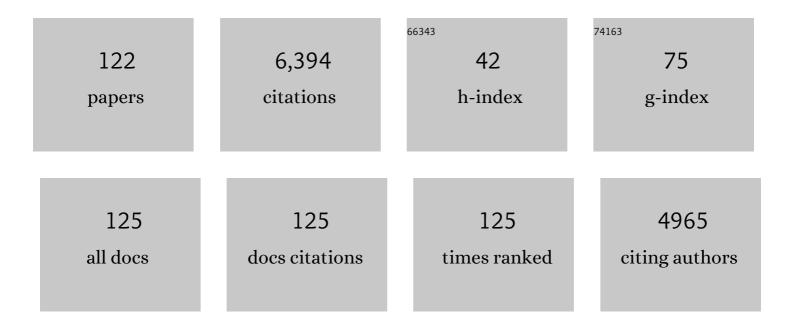
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The potential role of plant oxygen and sulphide dynamics in die-off events of the tropical seagrass, Thalassia testudinum. Journal of Ecology, 2005, 93, 148-158.	4.0	252
2	Mechanisms of waterlogging tolerance in wheat – a review of root and shoot physiology. Plant, Cell and Environment, 2016, 39, 1068-1086.	5.7	229
3	Meristematic oxygen variability in eelgrass (Zostera marina). Limnology and Oceanography, 2003, 48, 210-216.	3.1	225
4	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. Plant Physiology, 2018, 176, 1118-1130.	4.8	218
5	Sulphide intrusion in eelgrass (Zostera marina L.). Plant, Cell and Environment, 2004, 27, 595-602.	5.7	214
6	Underwater Photosynthesis of Submerged Plants – Recent Advances and Methods. Frontiers in Plant Science, 2013, 4, 140.	3.6	206
7	Molecular characterization of the submergence response of the <i>Arabidopsis thaliana</i> ecotype Columbia. New Phytologist, 2011, 190, 457-471.	7.3	184
8	Oxygen dynamics in the rhizosphere of Cymodocea rotundata. Marine Ecology - Progress Series, 1998, 169, 283-288.	1.9	183
9	Underwater photosynthesis and respiration in leaves of submerged wetland plants: gas films improve CO ₂ and O ₂ exchange. New Phytologist, 2008, 177, 918-926.	7.3	169
10	Microsensor analysis of oxygen and pH in the rice rhizosphere under field and laboratory conditions. Biology and Fertility of Soils, 1999, 29, 379-385.	4.3	160
11	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. New Phytologist, 2017, 214, 1403-1407.	7.3	146
12	Velocity gradients and turbulence around macrophyte stands in streams. Freshwater Biology, 1999, 42, 315-328.	2.4	143
13	Surviving floods: leaf gas films improve O ₂ and CO ₂ exchange, root aeration, and growth of completely submerged rice. Plant Journal, 2009, 58, 147-156.	5.7	139
14	An apical hypoxic niche sets the pace of shoot meristem activity. Nature, 2019, 569, 714-717.	27.8	137
15	Oxygen dynamics in submerged rice (<i>Oryza sativa</i>). New Phytologist, 2008, 178, 326-334.	7.3	135
16	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. New Phytologist, 2021, 229, 42-49.	7.3	134
17	Two Rumex Species from Contrasting Hydrological Niches Regulate Flooding Tolerance through Distinct Mechanisms. Plant Cell, 2013, 25, 4691-4707.	6.6	133
18	Diel Pulses of O_2 and CO_2 in Sandy Lake Sediments Inhabited by Lobelia Dortmanna. Ecology, 1995, 76, 1536-1545.	3.2	127

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19	Natural variation of submergence tolerance among <i>Arabidopsis thaliana</i> accessions. New Phytologist, 2011, 190, 299-310.	7.3	114
20	Chironomids (Diptera) and oxyâ€regulatory capacity: An experimental approach to paleolimnological interpretation. Limnology and Oceanography, 2004, 49, 1549-1559.	3.1	105
21	Heat stress of two tropical seagrass species during low tides – impact on underwater net photosynthesis, dark respiration and diel <i>inÂsitu</i> internal aeration. New Phytologist, 2016, 210, 1207-1218.	7.3	101
22	Internal aeration of paddy field rice (<i><scp>O</scp>ryza sativa</i>) during complete submergence – importance of light and floodwater <scp>O</scp> ₂ . New Phytologist, 2013, 197, 1193-1203.	7.3	96
23	Contrasting Oxygen Dynamics in the Freshwater Isoetid Lobelia dortmanna and the Marine Seagrass Zostera marina. Annals of Botany, 2005, 96, 613-623.	2.9	92
24	Acclimation of a terrestrial plant to submergence facilitates gas exchange under water. Plant, Cell and Environment, 2004, 27, 1281-1287.	5.7	81
25	Catchment properties and the photosynthetic trait composition of freshwater plant communities. Science, 2019, 366, 878-881.	12.6	80
26	Respiration of midges (Diptera; Chironomidae) in British Columbian lakes: oxyâ€regulation, temperature and their role as palaeoâ€indicators. Freshwater Biology, 2008, 53, 593-602.	2.4	77
27	A perspective on underwater photosynthesis in submerged terrestrial wetland plants. AoB PLANTS, 2011, 2011, plr030.	2.3	72
28	Rice leaf hydrophobicity and gas films are conferred by a wax synthesis gene (<i><scp>LGF</scp>1</i>) and contribute to flood tolerance. New Phytologist, 2018, 218, 1558-1569.	7.3	68
29	Oxygen dynamics during submergence in the halophytic stem succulent Halosarcia pergranulata. Plant, Cell and Environment, 2006, 29, 1388-1399.	5.7	65
30	Submergenceâ€induced leaf acclimation in terrestrial species varying in flooding tolerance. New Phytologist, 2007, 176, 337-345.	7.3	64
31	Gas film retention and underwater photosynthesis during field submergence of four contrasting rice genotypes. Journal of Experimental Botany, 2014, 65, 3225-3233.	4.8	64
32	Long-Distance Water Transport in Aquatic Plants. Plant Physiology, 1993, 103, 1369-1375.	4.8	63
33	Flooding and low oxygen responses in plants. Functional Plant Biology, 2017, 44, iii.	2.1	62
34	Water transport in submerged macrophytes. Aquatic Botany, 1993, 44, 385-406.	1.6	60
35	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
36	Root aeration via aerenchymatous phellem: threeâ€dimensional microâ€imaging and radial O ₂ profiles in <i>Melilotus siculus</i> . New Phytologist, 2012, 193, 420-431.	7.3	58

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37	Sediment Resuspension and Deposition on Seagrass Leaves Impedes Internal Plant Aeration and Promotes Phytotoxic H2S Intrusion. Frontiers in Plant Science, 2017, 8, 657.	3.6	56
38	Leaf gas films of <i>Spartina anglica</i> enhance rhizome and root oxygen during tidal submergence. Plant, Cell and Environment, 2011, 34, 2083-2092.	5.7	55
39	Photosynthetic response to globally increasing CO ₂ of coâ€occurring temperate seagrass species. Plant, Cell and Environment, 2016, 39, 1240-1250.	5.7	54
40	Adaptations of Submerged Lobelia dortmanna to Aerial Life Form: Morphology, Carbon Sources and Oxygen Dynamics. Oikos, 1992, 65, 89.	2.7	53
41	Key root traits of Poaceae for adaptation to soil water gradients. New Phytologist, 2021, 229, 3133-3140.	7.3	49
42	Oxygen Movement in Seagrasses. , 0, , 255-270.		48
43	Flow velocity affects internal oxygen conditions in the seagrass Cymodocea nodosa. Aquatic Botany, 2005, 83, 239-247.	1.6	45
44	Sulfide intrusion in the tropical seagrasses Thalassia testudinum and Syringodium filiforme. Estuarine, Coastal and Shelf Science, 2009, 85, 319-326.	2.1	42
45	A multidisciplinary approach to understanding the recent and historical occurrence of the freshwater plant, Littorella uniflora. Freshwater Biology, 2006, 51, 865-877.	2.4	41
46	Physical gills prevent drowning of many wetland insects, spiders and plants. Journal of Experimental Biology, 2012, 215, 705-709.	1.7	41
47	Rice acclimation to soil flooding: Low concentrations of organic acids can trigger a barrier to radial oxygen loss in roots. Plant, Cell and Environment, 2019, 42, 2183-2197.	5.7	41
48	Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant <i>Isoetes australis</i> . New Phytologist, 2011, 190, 332-339.	7.3	40
49	Sulfur cycling and sulfide intrusion in mixed Southeast Asian tropical seagrass meadows. Botanica Marina, 2006, 49, .	1.2	38
50	Transpiration does not control growth and nutrient supply in the amphibious plant Mentha aquatica. Plant, Cell and Environment, 1997, 20, 117-123.	5.7	37
51	The mechanism of improved aeration due to gas films on leaves of submerged rice. Plant, Cell and Environment, 2014, 37, 2433-2452.	5.7	37
52	In situ O2 dynamics in submerged Isoetes australis: varied leaf gas permeability influences underwater photosynthesis and internal O2. Journal of Experimental Botany, 2011, 62, 4691-4700.	4.8	36
53	Oxygen dynamics in a salt-marsh soil and in Suaeda maritima during tidal submergence. Environmental and Experimental Botany, 2013, 92, 73-82.	4.2	36
54	Lateral roots, in addition to adventitious roots, form a barrier to radial oxygen loss in <i>Zea nicaraguensis</i> and a chromosome segment introgression line in maize. New Phytologist, 2021, 229, 94-105.	7.3	35

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55	Through-flow of water in leaves of a submerged plant is influenced by the apical opening. Planta, 1997, 202, 43-50.	3.2	33
56	Role of a groundwater–lake interface in controlling seepage of water and nitrate. Journal of Hydrology, 2014, 517, 791-802.	5.4	33
57	Leaf gas films, underwater photosynthesis and plant species distributions in a flood gradient. Plant, Cell and Environment, 2016, 39, 1537-1548.	5.7	33
58	Five decades of dramatic changes in submerged vegetation in Lake Constance. Aquatic Botany, 2018, 144, 31-37.	1.6	33
59	Acropetal Water Transport in Submerged Plants. Botanica Acta, 1994, 107, 61-65.	1.6	32
60	Title is missing!. Hydrobiologia, 1997, 350, 1-11.	2.0	32
61	Aquatic adventitious roots of the wetland plant <i>Meionectes brownii</i> can photosynthesize: implications for root function during flooding. New Phytologist, 2011, 190, 311-319.	7.3	32
62	Physiology, gene expression, and metabolome of two wheat cultivars with contrasting submergence tolerance. Plant, Cell and Environment, 2018, 41, 1632-1644.	5.7	32
63	Tolerance of combined submergence and salinity in the halophytic stem-succulent Tecticornia pergranulata. Annals of Botany, 2009, 103, 303-312.	2.9	30
64	Global patterns of the leaf economics spectrum in wetlands. Nature Communications, 2020, 11, 4519.	12.8	29
65	Influence of quantity and lability of sediment organic matter on the biomass of two isoetids, Littorella uniflora and Echinodorus repens. Freshwater Biology, 2011, 56, 939-951.	2.4	28
66	Partial versus complete submergence: snorkelling aids root aeration in <scp><i>R</i></scp> <i>umex palustris</i> but not in <scp><i>R</i></scp> <i>. acetosa</i> . Plant, Cell and Environment, 2014, 37, 2381-2390.	5.7	28
67	Hypersalinity as a trigger of seagrass (Thalassia testudinum) die-off events in Florida Bay: Evidence based on shoot meristem O 2 and H 2 S dynamics. Journal of Experimental Marine Biology and Ecology, 2018, 504, 47-52.	1.5	27
68	Drivers of plant traits that allow survival in wetlands. Functional Ecology, 2020, 34, 956-967.	3.6	26
69	Stable isotopes reveal that chironomids occupy several trophic levels within West Greenland lakes: Implications for food web studies. Limnology and Oceanography, 2013, 58, 1023-1034.	3.1	25
70	Keeping the shoot above water – submergence triggers antithetical growth responses in stems and petioles of watercress (<i>Nasturtium officinale</i>). New Phytologist, 2021, 229, 140-155.	7.3	25
71	Microsensors in plant biology: in vivo visualization of inorganic analytes with high spatial and/or temporal resolution. Journal of Experimental Botany, 2020, 71, 3941-3954.	4.8	24
72	Interactions between light and CO2 enhance the growth of Riccia fluitans. Hydrobiologia, 2002, 477, 163-170.	2.0	22

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73	Shoot atmospheric contact is of little importance to aeration of deeper portions of the wetland plant <i>Meionectes brownii</i> ; submerged organs mainly acquire O ₂ from the water column or produce it endogenously in underwater photosynthesis. Plant, Cell and Environment, 2013, 36, 213-223.	5.7	22
74	Turf algal epiphytes metabolically induce local pH increase, with implications for underlying coralline algae under ocean acidification. Estuarine, Coastal and Shelf Science, 2015, 164, 463-470.	2.1	22
75	Eelgrass fairy rings: sulfide as inhibiting agent. Marine Biology, 2014, 161, 351-358.	1.5	21
76	Novel functions of the root barrier to radial oxygen loss – radial diffusion resistance to H ₂ and water vapour. New Phytologist, 2021, 231, 1365-1376.	7.3	21
77	Groundwater seepage stimulates the growth of aquatic macrophytes. Freshwater Biology, 2012, 57, 907-921.	2.4	20
78	Waterlogging tolerance, tissue nitrogen and oxygen transport in the forage legume Melilotus siculus: a comparison of nodulated and nitrate-fed plants. Annals of Botany, 2018, 121, 699-709.	2.9	19
79	Coupled UV-exposure and microbial decomposition improves measures of organic matter degradation and light models in humic lake. Ecological Engineering, 2018, 118, 191-200.	3.6	19
80	Sustainable management of shellfish resources in Bandon Bay, Gulf of Thailand. Journal of Coastal Conservation, 2003, 9, 135.	1.6	18
81	Nutrient concentrations in a Littorella uniflora community at higher CO2 concentrations and reduced light intensities. Freshwater Biology, 2005, 50, 1178-1189.	2.4	17
82	Submergence tolerance in Hordeum marinum: dissolved CO2 determines underwater photosynthesis and growth. Functional Plant Biology, 2010, 37, 524.	2.1	17
83	Root O ₂ consumption, CO ₂ production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. New Phytologist, 2020, 226, 373-384.	7.3	17
84	Leaf gas films delay salt entry and enhance underwater photosynthesis and internal aeration of <scp><i>M</i></scp> <i>elilotus siculus</i> submerged in saline water. Plant, Cell and Environment, 2014, 37, 2339-2349.	5.7	16
85	Diel O2 Dynamics in Partially and Completely Submerged Deepwater Rice: Leaf Gas Films Enhance Internodal O2 Status, Influence Gene Expression and Accelerate Stem Elongation for â€~Snorkelling' during Submergence. Plant and Cell Physiology, 2019, 60, 973-985.	3.1	16
86	Oxygen in the air and oxygen dissolved in the floodwater both sustain growth of aquatic adventitious roots in rice. Journal of Experimental Botany, 2021, 72, 1879-1890.	4.8	16
87	Elevated alkalinity and sulfate adversely affect the aquatic macrophyte Lobelia dortmanna. Aquatic Ecology, 2012, 46, 283-295.	1.5	15
88	Visualisation by high resolution synchrotron X-ray phase contrast micro-tomography of gas films on submerged superhydrophobic leaves. Journal of Structural Biology, 2014, 188, 61-70.	2.8	15
89	CO2 and O2 dynamics in leaves of aquatic plants with C3 or CAM photosynthesis $\hat{a} \in $ application of a novel CO2 microsensor. Annals of Botany, 2018, 122, 605-615.	2.9	15
90	Impact of Roots and Rhizomes on Wetland Archaeology: A Review. Conservation and Management of Archaeological Sites, 2015, 17, 370-391.	0.5	14

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#	Article	IF	CITATIONS
91	Flood tolerance of wheat – the importance of leaf gas films during complete submergence. Functional Plant Biology, 2017, 44, 888.	2.1	14
92	Oxygen Movement in Seagrasses. , 2007, , 255-270.		14
93	In situ oxygen dynamics in rhizomes of the seagrass Posidonia sinuosa: impact of light, water column oxygen, current speed and wave velocity. Marine Ecology - Progress Series, 2018, 590, 67-77.	1.9	14
94	Microhabitat influence on chironomid community structure and stable isotope signatures in West Greenland lakes. Hydrobiologia, 2014, 730, 59-77.	2.0	13
95	Leaf gas films contribute to rice (<i>Oryza sativa</i>) submergence tolerance during saline floods. Plant, Cell and Environment, 2018, 41, 885-897.	5.7	13
96	Microsensor for in situ flow measurements in benthic boundary layers at submillimeter resolution with extremely slow flow. Limnology and Oceanography: Methods, 2007, 5, 185-191.	2.0	12
97	Improved prediction of vegetation composition in NW European softwater lakes by combining location, water and sediment chemistry. Aquatic Sciences, 2012, 74, 351-360.	1.5	12
98	Rhizome, Root/Sediment Interactions, Aerenchyma and Internal Pressure Changes in Seagrasses. , 2018, , 393-418.		12
99	Contrasting oxygen dynamics in Limonium narbonense and Sarcocornia fruticosa during partial and complete submergence. Functional Plant Biology, 2017, 44, 867.	2.1	11
100	Radial Oxygen Loss from Plant Roots—Methods. Plants, 2021, 10, 2322.	3.5	11
101	Regulation and role of photosynthesis in the colonial symbiotic ciliate Ophrydium versatile. Limnology and Oceanography, 1997, 42, 866-873.	3.1	10
102	Species pool versus site limitations of macrophytes in urban waters. Aquatic Sciences, 2010, 72, 379-389.	1.5	10
103	Flow reversals in groundwater–lake interactions: A natural tracer study using δ18O. Limnologica, 2018, 68, 26-35.	1.5	10
104	Size dependence of composition, photosynthesis and growth in the colony-forming freshwater ciliate, Ophrydium versatile. Freshwater Biology, 1994, 31, 121-130.	2.4	9
105	Hypersalinity affects leaf and meristem O2 dynamics exposing meristems to H2S in the dominant tropical seagrass Thalassia testudinum. Journal of Experimental Marine Biology and Ecology, 2020, 533, 151458.	1.5	8
106	Root length is proxy for high-throughput screening of waterlogging tolerance in Urochloa spp. grasses. Functional Plant Biology, 2021, 48, 411.	2.1	8
107	Leaf gas film retention during submergence of 14 cultivars of wheat (Triticum aestivum). Functional Plant Biology, 2017, 44, 877.	2.1	8
108	Increased CO2 in the water around Littorella uniflora raises the sediment O2 concentration. Aquatic Botany, 2006, 84, 294-300.	1.6	7

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#	Article	IF	CITATIONS
109	Two <scp><i>Brassica napus</i></scp> cultivars differ in gene expression, but not in their response to submergence. Physiologia Plantarum, 2021, 171, 400-415.	5.2	7
110	Contrasting submergence tolerance in two species of stem-succulent halophytes is not determined by differences in stem internal oxygen dynamics. Annals of Botany, 2015, 115, 409-418.	2.9	6
111	Flood tolerance of Glyceria fluitans: the importance of cuticle hydrophobicity, permeability and leaf gas films for underwater gas exchange. Annals of Botany, 2017, 120, 521-528.	2.9	6
112	Catchment tracers reveal discharge, recharge and sources of groundwater-borne pollutants in aÂnovel lake modelling approach. Biogeosciences, 2018, 15, 1203-1216.	3.3	6
113	Uptake of inorganic phosphorus by the aquatic plant Isoetes australis inhabiting oligotrophic vernal rock pools. Aquatic Botany, 2017, 138, 64-73.	1.6	5
114	Removal of chromophoric dissolved organic matter under combined photochemical and microbial degradation as a response to different irradiation intensities. Journal of Environmental Sciences, 2022, 118, 76-86.	6.1	5
115	Irradiance, Water Column O2, and Tide Drive Internal O2 Dynamics and Meristem H2S Detection in the Dominant Caribbean-Tropical Atlantic Seagrass, Thalassia testudinum. Estuaries and Coasts, 2022, 45, 2543-2559.	2.2	5
116	Leading trait dimensions in flood-tolerant plants. Annals of Botany, 2022, 130, 383-392.	2.9	4
117	Jack of all trades – C4 photosynthesis, CAM and HCO3â^' use in the same tissue. A commentary on: †Structural basis for C4 photosynthesis without Kranz anatomy in leaves of the submerged freshwater plant Ottelia alismoides'. Annals of Botany, 2020, 125, iv-vi.	2.9	3
118	Underwater Photosynthesis and Internal Aeration of Submerged Terrestrial Wetland Plants. Plant Cell Monographs, 2014, , 315-327.	0.4	3
119	Using Reefcheck Monitoring Database to Develop the Coral Reef Index of Biological Integrity. Journal of Fisheries and Aquatic Science, 2009, 4, 90-102.	0.1	2
120	Hypersalinity effects on O2 flux across the diffusive boundary layer of leaves in the tropical seagrass Thalassia testudinum. Journal of Experimental Marine Biology and Ecology, 2022, 555, 151780.	1.5	2
121	Low irradiance disrupts the internal O2 dynamics of seagrass (Thalassia testudinum) leading to shoot meristem H2S intrusion. Aquatic Botany, 2022, 181, 103532.	1.6	1
122	Aquatic plants are influenced by the surrounding landscape. TheScienceBreaker, 2020, 06, .	0.0	0