

Ole Pedersen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

4,661
citations

39
h-index

64
g-index

125
ext. papers

5,490
ext. citations

5.9
avg, IF

5.85
L-index

#	Paper	IF	Citations
119	The potential role of plant oxygen and sulphide dynamics in die-off events of the tropical seagrass, <i>Thalassia testudinum</i> . <i>Journal of Ecology</i> , 2005 , 93, 148-158	6	222
118	Sulphide intrusion in eelgrass (<i>Zostera marina</i> L.). <i>Plant, Cell and Environment</i> , 2004 , 27, 595-602	8.4	181
117	Meristematic oxygen variability in eelgrass (<i>Zostera marina</i>). <i>Limnology and Oceanography</i> , 2003 , 48, 210-216	4.8	175
116	Molecular characterization of the submergence response of the <i>Arabidopsis thaliana</i> ecotype Columbia. <i>New Phytologist</i> , 2011 , 190, 457-71	9.8	144
115	Oxygen dynamics in the rhizosphere of <i>Cymodocea rotundata</i> . <i>Marine Ecology - Progress Series</i> , 1998 , 169, 283-288	2.6	141
114	Underwater photosynthesis of submerged plants - recent advances and methods. <i>Frontiers in Plant Science</i> , 2013 , 4, 140	6.2	138
113	Underwater photosynthesis and respiration in leaves of submerged wetland plants: gas films improve CO ₂ and O ₂ exchange. <i>New Phytologist</i> , 2008 , 177, 918-926	9.8	138
112	Mechanisms of waterlogging tolerance in wheat--a review of root and shoot physiology. <i>Plant, Cell and Environment</i> , 2016 , 39, 1068-86	8.4	131
111	Microsensor analysis of oxygen and pH in the rice rhizosphere under field and laboratory conditions. <i>Biology and Fertility of Soils</i> , 1999 , 29, 379-385	6.1	130
110	Velocity gradients and turbulence around macrophyte stands in streams. <i>Freshwater Biology</i> , 1999 , 42, 315-328	3.1	123
109	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. <i>Plant Physiology</i> , 2018 , 176, 1118-1130	6.6	122
108	Oxygen dynamics in submerged rice (<i>Oryza sativa</i>). <i>New Phytologist</i> , 2008 , 178, 326-334	9.8	121
107	Surviving floods: leaf gas films improve O ₂ and CO ₂ exchange, root aeration, and growth of completely submerged rice. <i>Plant Journal</i> , 2009 , 58, 147-56	6.9	111
106	Two <i>Rumex</i> species from contrasting hydrological niches regulate flooding tolerance through distinct mechanisms. <i>Plant Cell</i> , 2013 , 25, 4691-707	11.6	101
105	Diel Pulses of O ₂ and CO ₂ in Sandy Lake Sediments Inhabited by <i>Lobelia Dortmanna</i> . <i>Ecology</i> , 1995 , 76, 1536-1545	4.6	98
104	Natural variation of submergence tolerance among <i>Arabidopsis thaliana</i> accessions. <i>New Phytologist</i> , 2011 , 190, 299-310	9.8	87
103	Chironomids (Diptera) and oxy-regulatory capacity: An experimental approach to paleolimnological interpretation. <i>Limnology and Oceanography</i> , 2004 , 49, 1549-1559	4.8	87

102	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017 , 214, 1403-1407	9.8	84
101	Internal aeration of paddy field rice (<i>Oryza sativa</i>) during complete submergence---importance of light and floodwater O ₂ . <i>New Phytologist</i> , 2013 , 197, 1193-1203	9.8	78
100	Contrasting oxygen dynamics in the freshwater isoetid <i>Lobelia dortmanna</i> and the marine seagrass <i>Zostera marina</i> . <i>Annals of Botany</i> , 2005 , 96, 613-23	4.1	77
99	Heat stress of two tropical seagrass species during low tides - impact on underwater net photosynthesis, dark respiration and diel in situ internal aeration. <i>New Phytologist</i> , 2016 , 210, 1207-18	9.8	75
98	Acclimation of a terrestrial plant to submergence facilitates gas exchange under water. <i>Plant, Cell and Environment</i> , 2004 , 27, 1281-1287	8.4	73
97	An apical hypoxic niche sets the pace of shoot meristem activity. <i>Nature</i> , 2019 , 569, 714-717	50.4	69
96	Respiration of midges (Diptera; Chironomidae) in British Columbian lakes: oxy-regulation, temperature and their role as palaeo-indicators. <i>Freshwater Biology</i> , 2008 , 53, 593-602	3.1	64
95	A perspective on underwater photosynthesis in submerged terrestrial wetland plants. <i>AoB PLANTS</i> , 2011 , 2011, plr030	2.9	60
94	Oxygen dynamics during submergence in the halophytic stem succulent <i>Halosarcia pergranulata</i> . <i>Plant, Cell and Environment</i> , 2006 , 29, 1388-99	8.4	58
93	Submergence-induced leaf acclimation in terrestrial species varying in flooding tolerance. <i>New Phytologist</i> , 2007 , 176, 337-345	9.8	57
92	Long-Distance Water Transport in Aquatic Plants. <i>Plant Physiology</i> , 1993 , 103, 1369-1375	6.6	51
91	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. <i>New Phytologist</i> , 2021 , 229, 42-49	9.8	51
90	Gas film retention and underwater photosynthesis during field submergence of four contrasting rice genotypes. <i>Journal of Experimental Botany</i> , 2014 , 65, 3225-33	7	49
89	Root aeration via aerenchymatous phellem: three-dimensional micro-imaging and radial O ₂ profiles in <i>Melilotus siculus</i> . <i>New Phytologist</i> , 2012 , 193, 420-31	9.8	49
88	Water transport in submerged macrophytes. <i>Aquatic Botany</i> , 1993 , 44, 385-406	1.8	49
87	Leaf gas films of <i>Spartina anglica</i> enhance rhizome and root oxygen during tidal submergence. <i>Plant, Cell and Environment</i> , 2011 , 34, 2083-92	8.4	47
86	Rice leaf hydrophobicity and gas films are conferred by a wax synthesis gene (LGF1) and contribute to flood tolerance. <i>New Phytologist</i> , 2018 , 218, 1558-1569	9.8	46
85	Sediment Resuspension and Deposition on Seagrass Leaves Impedes Internal Plant Aeration and Promotes Phytotoxic HS Intrusion. <i>Frontiers in Plant Science</i> , 2017 , 8, 657	6.2	45

84	Catchment properties and the photosynthetic trait composition of freshwater plant communities. <i>Science</i> , 2019 , 366, 878-881	33.3	44
83	Oxygen deficiency and salinity affect cell-specific ion concentrations in adventitious roots of barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2015 , 208, 1114-25	9.8	44
82	Adaptations of Submerged <i>Lobelia dortmanna</i> to Aerial Life Form: Morphology, Carbon Sources and Oxygen Dynamics. <i>Oikos</i> , 1992 , 65, 89	4	42
81	Flow velocity affects internal oxygen conditions in the seagrass <i>Cymodocea nodosa</i> . <i>Aquatic Botany</i> , 2005 , 83, 239-247	1.8	40
80	Flooding and low oxygen responses in plants. <i>Functional Plant Biology</i> , 2017 , 44, iii-vi	2.7	37
79	Photosynthetic response to globally increasing CO ₂ of co-occurring temperate seagrass species. <i>Plant, Cell and Environment</i> , 2016 , 39, 1240-50	8.4	36
78	Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant <i>Isoetes australis</i> . <i>New Phytologist</i> , 2011 , 190, 332-9	9.8	34
77	Physical gills prevent drowning of many wetland insects, spiders and plants. <i>Journal of Experimental Biology</i> , 2012 , 215, 705-9	3	34
76	A multidisciplinary approach to understanding the recent and historical occurrence of the freshwater plant, <i>Littorella uniflora</i> . <i>Freshwater Biology</i> , 2006 , 51, 865-877	3.1	34
75	In situ O ₂ dynamics in submerged <i>Isoetes australis</i> : varied leaf gas permeability influences underwater photosynthesis and internal O ₂ . <i>Journal of Experimental Botany</i> , 2011 , 62, 4691-700	7	33
74	Sulfur cycling and sulfide intrusion in mixed Southeast Asian tropical seagrass meadows. <i>Botanica Marina</i> , 2006 , 49,	1.8	33
73	Sulfide intrusion in the tropical seagrasses <i>Thalassia testudinum</i> and <i>Syringodium filiforme</i> . <i>Estuarine, Coastal and Shelf Science</i> , 2009 , 85, 319-326	2.9	32
72	Oxygen dynamics in a salt-marsh soil and in <i>Suaeda maritima</i> during tidal submergence. <i>Environmental and Experimental Botany</i> , 2013 , 92, 73-82	5.9	29
71	Transpiration does not control growth and nutrient supply in the amphibious plant <i>Mentha aquatica</i> . <i>Plant, Cell and Environment</i> , 1997 , 20, 117-123	8.4	29
70	The mechanism of improved aeration due to gas films on leaves of submerged rice. <i>Plant, Cell and Environment</i> , 2014 , 37, 2433-52	8.4	28
69	Tolerance of combined submergence and salinity in the halophytic stem-succulent <i>Tecticornia pergranulata</i> . <i>Annals of Botany</i> , 2009 , 103, 303-12	4.1	27
68	Acropetal Water Transport in Submerged Plants. <i>Botanica Acta</i> , 1994 , 107, 61-65		27
67	Role of a groundwater-lake interface in controlling seepage of water and nitrate. <i>Journal of Hydrology</i> , 2014 , 517, 791-802	6	26

66	Through-flow of water in leaves of a submerged plant is influenced by the apical opening. <i>Planta</i> , 1997 , 202, 43-50	4.7	26
65	Oxygen Movement in Seagrasses 255-270		26
64	Influence of quantity and lability of sediment organic matter on the biomass of two isoetids, <i>Littorella uniflora</i> and <i>Echinodorus repens</i> . <i>Freshwater Biology</i> , 2011 , 56, 939-951	3.1	25
63	Stable isotopes reveal that chironomids occupy several trophic levels within West Greenland lakes: Implications for food web studies. <i>Limnology and Oceanography</i> , 2013 , 58, 1023-1034	4.8	24
62	Aquatic adventitious roots of the wetland plant <i>Meionectes brownii</i> can photosynthesize: implications for root function during flooding. <i>New Phytologist</i> , 2011 , 190, 311-9	9.8	24
61	Leaf gas films, underwater photosynthesis and plant species distributions in a flood gradient. <i>Plant, Cell and Environment</i> , 2016 , 39, 1537-48	8.4	24
60	Macrophyte development and resuspension regulate the photosynthesis and production of benthic microalgae. <i>Hydrobiologia</i> , 1997 , 350, 1-11	2.4	23
59	Five decades of dramatic changes in submerged vegetation in Lake Constance. <i>Aquatic Botany</i> , 2018 , 144, 31-37	1.8	20
58	Partial versus complete submergence: snorkelling aids root aeration in <i>Rumex palustris</i> but not in <i>R. acetosa</i> . <i>Plant, Cell and Environment</i> , 2014 , 37, 2381-90	8.4	20
57	Interactions between light and CO ₂ enhance the growth of <i>Riccia fluitans</i> . <i>Hydrobiologia</i> , 2002 , 477, 163-170	2.1	20
56	Groundwater seepage stimulates the growth of aquatic macrophytes. <i>Freshwater Biology</i> , 2012 , 57, 907-921	3.2	19
55	Hypersalinity as a trigger of seagrass (<i>Thalassia testudinum</i>) die-off events in Florida Bay: Evidence based on shoot meristem O ₂ and H ₂ S dynamics. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018 , 504, 47-52	2.1	18
54	Rice acclimation to soil flooding: Low concentrations of organic acids can trigger a barrier to radial oxygen loss in roots. <i>Plant, Cell and Environment</i> , 2019 , 42, 2183-2197	8.4	17
53	Turf algal epiphytes metabolically induce local pH increase, with implications for underlying coralline algae under ocean acidification. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 164, 463-470	2.9	17
52	Physiology, gene expression, and metabolome of two wheat cultivars with contrasting submergence tolerance. <i>Plant, Cell and Environment</i> , 2018 , 41, 1632-1644	8.4	17
51	Waterlogging tolerance, tissue nitrogen and oxygen transport in the forage legume <i>Melilotus sicus</i> : a comparison of nodulated and nitrate-fed plants. <i>Annals of Botany</i> , 2018 , 121, 699-709	4.1	16
50	Submergence tolerance in <i>Hordeum marinum</i> : dissolved CO ₂ determines underwater photosynthesis and growth. <i>Functional Plant Biology</i> , 2010 , 37, 524	2.7	16
49	Nutrient concentrations in a <i>Littorella uniflora</i> community at higher CO ₂ concentrations and reduced light intensities. <i>Freshwater Biology</i> , 2005 , 50, 1178-1189	3.1	16

48	Eelgrass fairy rings: sulfide as inhibiting agent. <i>Marine Biology</i> , 2014 , 161, 351-358	2.5	15
47	CO ₂ and O ₂ dynamics in leaves of aquatic plants with C ₃ or CAM photosynthesis - application of a novel CO ₂ microsensor. <i>Annals of Botany</i> , 2018 , 122, 605-615	4.1	14
46	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. <i>Plant, Cell and Environment</i> , 2013 , 36, 213-23	8.4	14
45	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. <i>New Phytologist</i> , 2021 , 229, 94-103	9.8	14
44	Microsensors in plant biology: in vivo visualization of inorganic analytes with high spatial and/or temporal resolution. <i>Journal of Experimental Botany</i> , 2020 , 71, 3941-3954	7	13
43	Drivers of plant traits that allow survival in wetlands. <i>Functional Ecology</i> , 2020 , 34, 956-967	5.6	13
42	Visualisation by high resolution synchrotron X-ray phase contrast micro-tomography of gas films on submerged superhydrophobic leaves. <i>Journal of Structural Biology</i> , 2014 , 188, 61-70	3.4	12
41	Leaf gas films delay salt entry and enhance underwater photosynthesis and internal aeration of <i>Melilotus siculus</i> submerged in saline water. <i>Plant, Cell and Environment</i> , 2014 , 37, 2339-49	8.4	12
40	Sustainable management of shellfish resources in Bandon Bay, Gulf of Thailand. <i>Journal of Coastal Conservation</i> , 2003 , 9, 135	1.9	12
39	Root O ₂ consumption, CO ₂ production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. <i>New Phytologist</i> , 2020 , 226, 373-384	9.8	12
38	Diel O ₂ Dynamics in Partially and Completely Submerged Deepwater Rice: Leaf Gas Films Enhance Internodal O ₂ Status, Influence Gene Expression and Accelerate Stem Elongation for SnorkellingT during Submergence. <i>Plant and Cell Physiology</i> , 2019 , 60, 973-985	4.9	10
37	Microhabitat influence on chironomid community structure and stable isotope signatures in West Greenland lakes. <i>Hydrobiologia</i> , 2014 , 730, 59-77	2.4	10
36	Improved prediction of vegetation composition in NW European softwater lakes by combining location, water and sediment chemistry. <i>Aquatic Sciences</i> , 2012 , 74, 351-360	2.5	10
35	Species pool versus site limitations of macrophytes in urban waters. <i>Aquatic Sciences</i> , 2010 , 72, 379-389	2.5	10
34	Global patterns of the leaf economics spectrum in wetlands. <i>Nature Communications</i> , 2020 , 11, 4519	17.4	10
33	Key root traits of Poaceae for adaptation to soil water gradients. <i>New Phytologist</i> , 2021 , 229, 3133-3140	9.8	10
32	Keeping the shoot above water - submergence triggers antithetical growth responses in stems and petioles of watercress (<i>Nasturtium officinale</i>). <i>New Phytologist</i> , 2021 , 229, 140-155	9.8	10
31	Coupled UV-exposure and microbial decomposition improves measures of organic matter degradation and light models in humic lake. <i>Ecological Engineering</i> , 2018 , 118, 191-200	3.9	10

30	Flood tolerance of wheat - the importance of leaf gas films during complete submergence. <i>Functional Plant Biology</i> , 2017 , 44, 888-898	2.7	9
29	Rhizome, Root/Sediment Interactions, Aerenchyma and Internal Pressure Changes in Seagrasses 2018 , 393-418		9
28	Impact of Roots and Rhizomes on Wetland Archaeology: A Review. <i>Conservation and Management of Archaeological Sites</i> , 2015 , 17, 370-391	0.5	9
27	Regulation and role of photosynthesis in the colonial symbiotic ciliate <i>Ophrydium versatile</i> . <i>Limnology and Oceanography</i> , 1997 , 42, 866-873	4.8	8
26	Microsensor for in situ flow measurements in benthic boundary layers at submillimeter resolution with extremely slow flow. <i>Limnology and Oceanography: Methods</i> , 2007 , 5, 185-191	2.6	8
25	In situ oxygen dynamics in rhizomes of the seagrass <i>Posidonia sinuosa</i> : impact of light, water column oxygen, current speed and wave velocity. <i>Marine Ecology - Progress Series</i> , 2018 , 590, 67-77	2.6	8
24	Leaf gas films contribute to rice (<i>Oryza sativa</i>) submergence tolerance during saline floods. <i>Plant, Cell and Environment</i> , 2018 , 41, 885-897	8.4	7
23	Flow reversals in groundwater-lake interactions: A natural tracer study using $\delta^{18}O$. <i>Limnologica</i> , 2018 , 68, 26-35	2	7
22	Elevated alkalinity and sulfate adversely affect the aquatic macrophyte <i>Lobelia dortmanna</i> . <i>Aquatic Ecology</i> , 2012 , 46, 283-295	1.9	7
21	Increased CO ₂ in the water around <i>Littorella uniflora</i> raises the sediment O ₂ concentration. <i>Aquatic Botany</i> , 2006 , 84, 294-300	1.8	7
20	Size dependence of composition, photosynthesis and growth in the colony-forming freshwater ciliate, <i>Ophrydium versatile</i> . <i>Freshwater Biology</i> , 1994 , 31, 121-130	3.1	7
19	Contrasting oxygen dynamics in <i>Limonium narbonense</i> and <i>Sarcocornia fruticosa</i> during partial and complete submergence. <i>Functional Plant Biology</i> , 2017 , 44, 867-876	2.7	6
18	Contrasting submergence tolerance in two species of stem-succulent halophytes is not determined by differences in stem internal oxygen dynamics. <i>Annals of Botany</i> , 2015 , 115, 409-18	4.1	6
17	Leaf gas film retention during submergence of 14 cultivars of wheat (<i>Triticum aestivum</i>). <i>Functional Plant Biology</i> , 2017 , 44, 877-887	2.7	5
16	Catchment tracers reveal discharge, recharge and sources of groundwater-borne pollutants in a novel lake modelling approach. <i>Biogeosciences</i> , 2018 , 15, 1203-1216	4.6	5
15	Uptake of inorganic phosphorus by the aquatic plant <i>Isoetes australis</i> inhabiting oligotrophic vernal rock pools. <i>Aquatic Botany</i> , 2017 , 138, 64-73	1.8	4
14	Flood tolerance of <i>Glyceria fluitans</i> : the importance of cuticle hydrophobicity, permeability and leaf gas films for underwater gas exchange. <i>Annals of Botany</i> , 2017 , 120, 521-528	4.1	4
13	Hypersalinity affects leaf and meristem O ₂ dynamics exposing meristems to H ₂ S in the dominant tropical seagrass <i>Thalassia testudinum</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2020 , 533, 151458	2.1	4

12	Novel functions of the root barrier to radial oxygen loss - radial diffusion resistance to H and water vapour. <i>New Phytologist</i> , 2021 , 231, 1365-1376	9.8	4
11	Two Brassica napus cultivars differ in gene expression, but not in their response to submergence. <i>Physiologia Plantarum</i> , 2021 , 171, 400-415	4.6	3
10	Jack of all trades - C4 photosynthesis, CAM and HCO ₃ ⁻ use in the same tissue. A commentary on: Structural basis for C4 photosynthesis without Kranz anatomy in leaves of the submerged freshwater plant <i>Ottelia alismoides</i> <i>Annals of Botany</i> , 2020 , 125, iv-vi	4.1	2
9	Oxygen in the air and oxygen dissolved in the floodwater both sustain growth of aquatic adventitious roots in rice. <i>Journal of Experimental Botany</i> , 2021 , 72, 1879-1890	7	2
8	Using Reefcheck Monitoring Database to Develop the Coral Reef Index of Biological Integrity. <i>Journal of Fisheries and Aquatic Science</i> , 2009 , 4, 90-102	0	2
7	Radial Oxygen Loss from Plant Roots-Methods. <i>Plants</i> , 2021 , 10,	4.5	2
6	Root length is proxy for high-throughput screening of waterlogging tolerance in <i>Urochloa</i> spp. grasses. <i>Functional Plant Biology</i> , 2021 , 48, 411-421	2.7	2
5	Oxygen Movement in Seagrasses 2007 , 255-270		2
4	Removal of chromophoric dissolved organic matter under combined photochemical and microbial degradation as a response to different irradiation intensities.. <i>Journal of Environmental Sciences</i> , 2022 , 118, 76-86	6.4	1
3	Irradiance, Water Column O ₂ , and Tide Drive Internal O ₂ Dynamics and Meristem H ₂ S Detection in the Dominant Caribbean-Tropical Atlantic Seagrass, <i>Thalassia testudinum</i> . <i>Estuaries and Coasts</i> , 1	2.8	1
2	Underwater Photosynthesis and Internal Aeration of Submerged Terrestrial Wetland Plants. <i>Plant Cell Monographs</i> , 2014 , 315-327	0.6	0
1	Low irradiance disrupts the internal O ₂ dynamics of seagrass (<i>Thalassia testudinum</i>) leading to shoot meristem H ₂ S intrusion. <i>Aquatic Botany</i> , 2022 , 103532	1.8	