Ole Pedersen

List of Publications by Year
in descending order

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122	6,394	66343	74163
papers	citations	42 h-index	75 g-index

125	125	125	4965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Leading trait dimensions in flood-tolerant plants. Annals of Botany, 2022, 130, 383-392.	2.9	4
3	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
4	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
5	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
6	Lateral roots, in addition to adventitious roots, form a barrier to radial oxygen loss in Zea nicaraguensis and a chromosome segment introgression line in maize. New Phytologist, 2021, 229, 94-105.	7.3	35
7	Key root traits of Poaceae for adaptation to soil water gradients. New Phytologist, 2021, 229, 3133-3140.	7.3	49
8	Two <scp>Brassica napus</scp> cultivars differ in gene expression, but not in their response to submergence. Physiologia Plantarum, 2021, 171, 400-415.	5.2	7
9	Keeping the shoot above water â€“ submergence triggers antithetical growth responses in stems and petioles of watercress (Nasturtium officinale). New Phytologist, 2021, 229, 140-155.	7.3	25
10	Root length is proxy for high-throughput screening of waterlogging tolerance in Urochloa spp. grasses. Functional Plant Biology, 2021, 48, 411.	2.1	8
11	Novel functions of the root barrier to radial oxygen loss â€“ radial diffusion resistance to H₂ and water vapour. New Phytologist, 2021, 231, 1365-1376.	7.3	21
12	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. New Phytologist, 2021, 229, 42-49.	7.3	134
13	Radial Oxygen Loss from Plant Rootsâ€”Methods. Plants, 2021, 10, 2322.	3.5	11
14	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
15	Root O₂ consumption, CO₂ production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. New Phytologist, 2020, 226, 373-384.	7.3	17
16	Drivers of plant traits that allow survival in wetlands. Functional Ecology, 2020, 34, 956-967.	3.6	26
17	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
18	Global patterns of the leaf economics spectrum in wetlands. Nature Communications, 2020, 11, 4519.	12.8	29

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19	Jack of all trades â€“ C4 photosynthesis, CAM and HCO3â¯ use in the same tissue. A commentary on: â€˜Structural basis for C4 photosynthesis without Kranz anatomy in leaves of the submerged freshwater plant Ottelia alismoidesâ€™. Annals of Botany, 2020, 125, iv-vi.	2.9	3
20	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
21	Aquatic plants are influenced by the surrounding landscape. TheScienceBreaker, 2020, 06, .	0.0	0
22	Catchment properties and the photosynthetic trait composition of freshwater plant communities. Science, 2019, 366, 878-881.	12.6	80
23	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€˜Snorkellingâ€™ during Submergence. Plant and Cell Physiology, 2019, 60, 973-985.	3.1	16
24	An apical hypoxic niche sets the pace of shoot meristem activity. Nature, 2019, 569, 714-717.	27.8	137
25	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
26	Rice leaf hydrophobicity and gas films are conferred by a wax synthesis gene (<scp>LGF</scp>1) and contribute to flood tolerance. New Phytologist, 2018, 218, 1558-1569.	7.3	68
27	Physiology, gene expression, and metabolome of two wheat cultivars with contrasting submergence tolerance. Plant, Cell and Environment, 2018, 41, 1632-1644.	5.7	32
28	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
29	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
30	Leaf gas films contribute to rice (Oryza sativa) submergence tolerance during saline floods. Plant, Cell and Environment, 2018, 41, 885-897.	5.7	13
31	Flow reversals in groundwaterâ€“lake interactions: A natural tracer study using Î´18O. Limnologica, 2018, 68, 26-35.	1.5	10
32	Five decades of dramatic changes in submerged vegetation in Lake Constance. Aquatic Botany, 2018, 144, 31-37.	1.6	33
33	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. Plant Physiology, 2018, 176, 1118-1130.	4.8	218
34	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
35	Catchment tracers reveal discharge, recharge and sources of groundwater-borne pollutants in aÂnovel lake modelling approach. Biogeosciences, 2018, 15, 1203-1216.	3.3	6
36	Rhizome, Root/Sediment Interactions, Aerenchyma and Internal Pressure Changes in Seagrasses. , 2018, , 393-418.		12

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37	CO2 and O2 dynamics in leaves of aquatic plants with C3 or CAM photosynthesis â€“ application of a novel CO2 microsensor. Annals of Botany, 2018, 122, 605-615.	2.9	15
38	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
39	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. New Phytologist, 2017, 214, 1403-1407.	7.3	146
40	Flood tolerance of wheat â€“ the importance of leaf gas films during complete submergence. Functional Plant Biology, 2017, 44, 888.	2.1	14
41	Uptake of inorganic phosphorus by the aquatic plant Isoetes australis inhabiting oligotrophic vernal rock pools. Aquatic Botany, 2017, 138, 64-73.	1.6	5
42	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
43	Flooding and low oxygen responses in plants. Functional Plant Biology, 2017, 44, iii.	2.1	62
44	Contrasting oxygen dynamics in Limonium narbonense and Sarcocornia fruticosa during partial and complete submergence. Functional Plant Biology, 2017, 44, 867.	2.1	11
45	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
46	Leaf gas film retention during submergence of 14 cultivars of wheat (Triticum aestivum). Functional Plant Biology, 2017, 44, 877.	2.1	8
47	Leaf gas films, underwater photosynthesis and plant species distributions in a flood gradient. Plant, Cell and Environment, 2016, 39, 1537-1548.	5.7	33
48	Photosynthetic response to globally increasing CO₂ of coâ€occurring temperate seagrass species. Plant, Cell and Environment, 2016, 39, 1240-1250.	5.7	54
49	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
50	Heat stress of two tropical seagrass species during low tides â€“ impact on underwater net photosynthesis, dark respiration and diel inÂsitu internal aeration. New Phytologist, 2016, 210, 1207-1218.	7.3	101
51	Impact of Roots and Rhizomes on Wetland Archaeology: A Review. Conservation and Management of Archaeological Sites, 2015, 17, 370-391.	0.5	14
52	Oxygen deficiency and salinity affect cellâ€specific ion concentrations in adventitious roots of barley (<scp>H</scp>ordeum vulgare). New Phytologist, 2015, 208, 1114-1125.	7.3	59
53	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
54	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

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55	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
56	Leaf gas films delay salt entry and enhance underwater photosynthesis and internal aeration of <scp>M</scp>elilotus siculus submerged in saline water. Plant, Cell and Environment, 2014, 37, 2339-2349.	5.7	16
57	Partial versus complete submergence: snorkelling aids root aeration in <scp>R</scp>umex palustris but not in <scp>R</scp>.â€‰acetosa. Plant, Cell and Environment, 2014, 37, 2381-2390.	5.7	28
58	Microhabitat influence on chironomid community structure and stable isotope signatures in West Greenland lakes. Hydrobiologia, 2014, 730, 59-77.	2.0	13
59	Eelgrass fairy rings: sulfide as inhibiting agent. Marine Biology, 2014, 161, 351-358.	1.5	21
60	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
61	Role of a groundwaterâ€“lake interface in controlling seepage of water and nitrate. Journal of Hydrology, 2014, 517, 791-802.	5.4	33
62	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
63	Underwater Photosynthesis and Internal Aeration of Submerged Terrestrial Wetland Plants. Plant Cell Monographs, 2014, , 315-327.	0.4	3
64	Shoot atmospheric contact is of little importance to aeration of deeper portions of the wetland plant Meionectes brownii; submerged organs mainly acquire O₂ from the water column or produce it endogenously in underwater photosynthesis. Plant, Cell and Environment, 2013, 36, 213-223.	5.7	22
65	Internal aeration of paddy field rice (<scp>O</scp>ryza sativa) during complete submergence â€“ importance of light and floodwater <scp>O</scp>₂. New Phytologist, 2013, 197, 1193-1203.	7.3	96
66	Two Rumex Species from Contrasting Hydrological Niches Regulate Flooding Tolerance through Distinct Mechanisms. Plant Cell, 2013, 25, 4691-4707.	6.6	133
67	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
68	Underwater Photosynthesis of Submerged Plants â€“ Recent Advances and Methods. Frontiers in Plant Science, 2013, 4, 140.	3.6	206
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	Physical gills prevent drowning of many wetland insects, spiders and plants. Journal of Experimental Biology, 2012, 215, 705-709.	1.7	41
71	Elevated alkalinity and sulfate adversely affect the aquatic macrophyte Lobelia dortmanna. Aquatic Ecology, 2012, 46, 283-295.	1.5	15
72	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

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73	Root aeration via aerenchymatous phellem: threeâ€dimensional microâ€imaging and radial O₂ profiles in Melilotus siculus. New Phytologist, 2012, 193, 420-431.	7.3	58
74	Groundwater seepage stimulates the growth of aquatic macrophytes. Freshwater Biology, 2012, 57, 907-921.	2.4	20
75	Leaf gas films of Spartina anglica enhance rhizome and root oxygen during tidal submergence. Plant, Cell and Environment, 2011, 34, 2083-2092.	5.7	55
76	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
77	Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant Isoetes australis. New Phytologist, 2011, 190, 332-339.	7.3	40
78	Aquatic adventitious roots of the wetland plant Meionectes brownii can photosynthesize: implications for root function during flooding. New Phytologist, 2011, 190, 311-319.	7.3	32
79	Natural variation of submergence tolerance among Arabidopsis thaliana accessions. New Phytologist, 2011, 190, 299-310.	7.3	114
80	Molecular characterization of the submergence response of the Arabidopsis thaliana ecotype Columbia. New Phytologist, 2011, 190, 457-471.	7.3	184
81	A perspective on underwater photosynthesis in submerged terrestrial wetland plants. AoB PLANTS, 2011, 2011, plr030.	2.3	72
82	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
83	Submergence tolerance in Hordeum marinum: dissolved CO2 determines underwater photosynthesis and growth. Functional Plant Biology, 2010, 37, 524.	2.1	17
84	Species pool versus site limitations of macrophytes in urban waters. Aquatic Sciences, 2010, 72, 379-389.	1.5	10
85	Tolerance of combined submergence and salinity in the halophytic stem-succulent Tecticornia pergranulata. Annals of Botany, 2009, 103, 303-312.	2.9	30
86	Sulfide intrusion in the tropical seagrasses Thalassia testudinum and Syringodium filiforme. Estuarine, Coastal and Shelf Science, 2009, 85, 319-326.	2.1	42
87	Surviving floods: leaf gas films improve O₂ and CO₂ exchange, root aeration, and growth of completely submerged rice. Plant Journal, 2009, 58, 147-156.	5.7	139
88	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
89	Underwater photosynthesis and respiration in leaves of submerged wetland plants: gas films improve CO₂ and O₂ exchange. New Phytologist, 2008, 177, 918-926.	7.3	169
90	Oxygen dynamics in submerged rice (Oryza sativa). New Phytologist, 2008, 178, 326-334.	7.3	135

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91	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
92	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
93	Submergenceâ€induced leaf acclimation in terrestrial species varying in flooding tolerance. New Phytologist, 2007, 176, 337-345.	7.3	64
94	Oxygen Movement in Seagrasses. , 2007, , 255-270.		14
95	Sulfur cycling and sulfide intrusion in mixed Southeast Asian tropical seagrass meadows. Botanica Marina, 2006, 49, .	1.2	38
96	Increased CO2 in the water around Littorella uniflora raises the sediment O2 concentration. Aquatic Botany, 2006, 84, 294-300.	1.6	7
97	Oxygen dynamics during submergence in the halophytic stem succulent Halosarcia pergranulata. Plant, Cell and Environment, 2006, 29, 1388-1399.	5.7	65
98	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
99	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
100	Nutrient concentrations in a Littorella uniflora community at higher CO2 concentrations and reduced light intensities. Freshwater Biology, 2005, 50, 1178-1189.	2.4	17
101	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
102	Flow velocity affects internal oxygen conditions in the seagrass Cymodocea nodosa. Aquatic Botany, 2005, 83, 239-247.	1.6	45
103	Sulphide intrusion in eelgrass (Zostera marina L.). Plant, Cell and Environment, 2004, 27, 595-602.	5.7	214
104	Acclimation of a terrestrial plant to submergence facilitates gas exchange under water. Plant, Cell and Environment, 2004, 27, 1281-1287.	5.7	81
105	Chironomids (Diptera) and oxyâ€regulatory capacity: An experimental approach to paleolimnological interpretation. Limnology and Oceanography, 2004, 49, 1549-1559.	3.1	105
106	Sustainable management of shellfish resources in Bandon Bay, Gulf of Thailand. Journal of Coastal Conservation, 2003, 9, 135.	1.6	18
107	Meristematic oxygen variability in eelgrass (Zostera marina). Limnology and Oceanography, 2003, 48, 210-216.	3.1	225
108	Interactions between light and CO2 enhance the growth of Riccia fluitans. Hydrobiologia, 2002, 477, 163-170.	2.0	22

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109	Velocity gradients and turbulence around macrophyte stands in streams. Freshwater Biology, 1999, 42, 315-328.	2.4	143
110	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
111	Oxygen dynamics in the rhizosphere of Cymodocea rotundata. Marine Ecology - Progress Series, 1998, 169, 283-288.	1.9	183
112	Regulation and role of photosynthesis in the colonial symbiotic ciliate Ophrydium versatile. Limnology and Oceanography, 1997, 42, 866-873.	3.1	10
113	Title is missing!. Hydrobiologia, 1997, 350, 1-11.	2.0	32
114	Through-flow of water in leaves of a submerged plant is influenced by the apical opening. Planta, 1997, 202, 43-50.	3.2	33
115	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
116	Diel Pulses of O_2 and CO_2 in Sandy Lake Sediments Inhabited by Lobelia Dortmanna. Ecology, 1995, 76, 1536-1545.	3.2	127
117	Size dependence of composition, photosynthesis and growth in the colony-forming freshwater ciliate, Ophrydium versatile. Freshwater Biology, 1994, 31, 121-130.	2.4	9
118	Acropetal Water Transport in Submerged Plants. Botanica Acta, 1994, 107, 61-65.	1.6	32
119	Water transport in submerged macrophytes. Aquatic Botany, 1993, 44, 385-406.	1.6	60
120	Long-Distance Water Transport in Aquatic Plants. Plant Physiology, 1993, 103, 1369-1375.	4.8	63
121	Adaptations of Submerged Lobelia dortmanna to Aerial Life Form: Morphology, Carbon Sources and Oxygen Dynamics. Oikos, 1992, 65, 89.	2.7	53
122	Oxygen Movement in Seagrasses. , 0, , 255-270.		48