

# Lars Peter Nielsen

## List of Publications by Year in Descending Order

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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.

98  
papers

8,095  
citations

48  
h-index

89  
g-index

100  
ext. papers

8,989  
ext. citations

8.5  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
98	Pili for nanowires. <i>Nature Microbiology</i> , <b>2021</b> , 6, 1347-1348	26.6	1
97	Long-distance electron transfer in a filamentous Gram-positive bacterium. <i>Nature Communications</i> , <b>2021</b> , 12, 1709	17.4	7
96	Cable bacteria at oxygen-releasing roots of aquatic plants: a widespread and diverse plant-microbe association. <i>New Phytologist</i> , <b>2021</b> , 232, 2138-2151	9.8	7
95	Efficient long-range conduction in cable bacteria through nickel protein wires. <i>Nature Communications</i> , <b>2021</b> , 12, 3996	17.4	9
94	Oxygen consumption of individual cable bacteria. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	8
93	How to grow your cable bacteria: Establishment of a stable single-strain culture in sediment and proposal of Candidatus <i>Electronema aureum</i> GS. <i>Systematic and Applied Microbiology</i> , <b>2021</b> , 44, 126236	4.2	2
92	Cable bacteria extend the impacts of elevated dissolved oxygen into anoxic sediments. <i>ISME Journal</i> , <b>2021</b> , 15, 1551-1563	11.9	11
91	Cable bacteria reduce methane emissions from rice-vegetated soils. <i>Nature Communications</i> , <b>2020</b> , 11, 1878	17.4	14
90	The rhizosphere of aquatic plants is a habitat for cable bacteria. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	20
89	Biogas upgrading with hydrogenotrophic methanogenic biofilms. <i>Bioresource Technology</i> , <b>2019</b> , 287, 121422	11	24
88	On the evolution and physiology of cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19116-19125	11.5	61
87	Intracellular calcite and sulfur dynamics of <i>Achromatium</i> cells observed in a lab-based enrichment and aerobic incubation experiment. <i>Antonie Van Leeuwenhoek</i> , <b>2019</b> , 112, 263-274	2.1	6
86	Removal of hydrogen sulphide from pig house using biofilter with fungi. <i>Biosystems Engineering</i> , <b>2018</b> , 167, 32-39	4.8	7
85	In vitro single-cell dissection revealing the interior structure of cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8517-8522	11.5	30
84	Long-distance electron transport in individual, living cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5786-5791	11.5	62
83	The Cell Envelope Structure of Cable Bacteria. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 3044	5.7	30
82	In situ measurements reveal extremely low pH in soil. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 115, 63-65	7.5	6

81	Sediment Denitrification in Two Contrasting Tropical Shallow Lagoons. <i>Estuaries and Coasts</i> , <b>2016</b> , 39, 657-663	2.8	6
80	Ecology: Electrical Cable Bacteria Save Marine Life. <i>Current Biology</i> , <b>2016</b> , 26, R32-3	6.3	4
79	Controls of Sediment Nitrogen Dynamics in Tropical Coastal Lagoons. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155586	3.7	9
78	Long-distance electron transfer by cable bacteria in aquifer sediments. <i>ISME Journal</i> , <b>2016</b> , 10, 2010-9	11.9	68
77	Motility of Electric Cable Bacteria. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 3816-21	4.8	29
76	Cable Bacteria in Freshwater Sediments. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 6003-11	4.8	68
75	Cable bacteria associated with long-distance electron transport in New England salt marsh sediment. <i>Environmental Microbiology Reports</i> , <b>2015</b> , 7, 175-9	3.7	44
74	Rethinking sediment biogeochemistry after the discovery of electric currents. <i>Annual Review of Marine Science</i> , <b>2015</b> , 7, 425-42	15.4	60
73	The geochemical fingerprint of microbial long-distance electron transport in the seafloor. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 152, 122-142	5.5	65
72	Hot moments of N <sub>2</sub> O transformation and emission in tropical soils from the Pantanal and the Amazon (Brazil). <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 75, 26-36	7.5	15
71	Electric coupling between distant nitrate reduction and sulfide oxidation in marine sediment. <i>ISME Journal</i> , <b>2014</b> , 8, 1682-90	11.9	82
70	Mapping electron sources and sinks in a marine biogeochemical battery. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1475-1486	3.7	52
69	Electric potential microelectrode for studies of electrobiogeophysics. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1906-1917	3.7	30
68	Succession of cable bacteria and electric currents in marine sediment. <i>ISME Journal</i> , <b>2014</b> , 8, 1314-22	11.9	100
67	Molecular dissection of bacterial nanowires. <i>MBio</i> , <b>2013</b> , 4, e00270-13	7.8	46
66	Seasonal methane oxidation potential in manure crusts. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 407-10	4.8	15
65	Filamentous bacteria transport electrons over centimetre distances. <i>Nature</i> , <b>2012</b> , 491, 218-21	50.4	364
64	Sulfur, iron-, and calcium cycling associated with natural electric currents running through marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 92, 1-13	5.5	123

63	Extreme emission of n(2)o from tropical wetland soil (pantanal, South america). <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 433	5.7	21
62	Shell biofilm nitrification and gut denitrification contribute to emission of nitrous oxide by the invasive freshwater mussel <i>Dreissena polymorpha</i> (zebra mussel). <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 4505-9	4.8	35
61	Transient N2O accumulation and emission caused by O2 depletion in soil after liquid manure injection. <i>European Journal of Soil Science</i> , <b>2011</b> , 62, 541-550	3.4	44
60	Bacterial community structure of a full-scale biofilter treating pig house exhaust air. <i>Systematic and Applied Microbiology</i> , <b>2011</b> , 34, 344-52	4.2	29
59	Regulation of ammonia oxidation in biotrickling airfilters with high ammonium load. <i>Chemical Engineering Journal</i> , <b>2011</b> , 167, 198-205	14.7	31
58	Application of the isotope pairing technique in sediments where anammox and denitrification co-exist. <i>Limnology and Oceanography: Methods</i> , <b>2011</b> , 1, 63-73	2.6	72
57	Distribution, ecology and molecular identification of <i>Thioploca</i> from Danish brackish water sediments. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 73, 110-20	4.3	19
56	Electric currents couple spatially separated biogeochemical processes in marine sediment. <i>Nature</i> , <b>2010</b> , 463, 1071-4	50.4	341
55	Oxygen distribution and potential ammonia oxidation in floating, liquid manure crusts. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 1813-20	3.4	32
54	Widespread occurrence of nitrate storage and denitrification among Foraminifera and Gromiida. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 1148-53	11.5	203
53	Nitrous oxide emission by aquatic macrofauna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 4296-300	11.5	74
52	Distribution and rate of microbial processes in an ammonia-loaded air filter biofilm. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 3705-13	4.8	45
51	A Method for Estimating Mass-Transfer Coefficients in a Biofilter from Membrane Inlet Mass Spectrometer Data. <i>Journal of the Air and Waste Management Association</i> , <b>2009</b> , 59, 155-162	2.4	14
50	Physiology and behaviour of marine <i>Thioploca</i> . <i>ISME Journal</i> , <b>2009</b> , 3, 647-57	11.9	54
49	Observations on microbial activity in acidified pig slurry. <i>Biosystems Engineering</i> , <b>2009</b> , 102, 291-297	4.8	63
48	Greenhouse gas microbiology in wet and dry straw crust covering pig slurry. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 1311-9	3.4	30
47	Denitrification, nitrate turnover, and aerobic respiration by benthic foraminiferans in the oxygen minimum zone off Chile. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2008</b> , 359, 85-91	2.1	102
46	Microsensor for in situ flow measurements in benthic boundary layers at submillimeter resolution with extremely slow flow. <i>Limnology and Oceanography: Methods</i> , <b>2007</b> , 5, 185-191	2.6	8

45	Methods for measuring denitrification: diverse approaches to a difficult problem <b>2006</b> , 16, 2091-122		644
44	Evidence for complete denitrification in a benthic foraminifer. <i>Nature</i> , <b>2006</b> , 443, 93-6	50.4	323
43	Nitrogen transformations in stratified aquatic microbial ecosystems. <i>Antonie Van Leeuwenhoek</i> , <b>2006</b> , 90, 361-75	2.1	40
42	Impact of bacterial NO <sub>3</sub> (-) transport on sediment biogeochemistry. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 7575-7	4.8	93
41	Nitrogen transformations in microenvironments of river beds and riparian zones. <i>Ecological Engineering</i> , <b>2005</b> , 24, 447-455	3.9	52
40	Kinetics, diffusional limitation and microscale distribution of chemistry and organisms in a CANON reactor. <i>FEMS Microbiology Ecology</i> , <b>2005</b> , 51, 247-56	4.3	149
39	Effects of zinc pyriithione and copper pyriithione on microbial community function and structure in sediments. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 921-8	3.8	53
38	The Lotus japonicus ndx gene family is involved in nodule function and maintenance. <i>Plant Molecular Biology</i> , <b>2003</b> , 52, 303-16	4.6	17
37	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2003</b> , 63, 107-14	5.7	143
36	Phylogeny and distribution of nitrate-storing Beggiatoa spp. in coastal marine sediments. <i>Environmental Microbiology</i> , <b>2003</b> , 5, 523-33	5.2	81
35	Improved nitrogen removal by application of new nitrogen-cycle bacteria. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2002</b> , 1, 51-63	13.9	77
34	Methane microprofiles in a sewage biofilm determined with a microscale biosensor. <i>Water Research</i> , <b>2001</b> , 35, 1379-86	12.5	33
33	Ecology of Thioploca spp.: nitrate and sulfur storage in relation to chemical microgradients and influence of Thioploca spp. on the sedimentary nitrogen cycle. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 5530-7	4.8	89
32	Massive developments of microbial mats following phytoplankton blooms in a naturally eutrophic bay: Implications for nitrogen cycling. <i>Limnology and Oceanography</i> , <b>2001</b> , 46, 821-832	4.8	48
31	Denitrification in exposed intertidal mud-flats, measured with a new <sup>15</sup> N-ammonium spray technique. <i>Marine Ecology - Progress Series</i> , <b>2001</b> , 209, 35-42	2.6	17
30	Denitrification in a soft bottom lake: evaluation of laboratory incubations. <i>Aquatic Microbial Ecology</i> , <b>1999</b> , 17, 279-287	1.1	16
29	Direct and indirect measurements of nitrification and denitrification in the rhizosphere of aquatic macrophytes. <i>Aquatic Microbial Ecology</i> , <b>1999</b> , 19, 81-91	1.1	68
28	Denitrification and degassing in groundwater estimated from dissolved dinitrogen and argon. <i>Journal of Hydrology</i> , <b>1998</b> , 208, 16-24	6	73

27	Simultaneous measurement of benthic denitrification, with the isotope pairing technique and the N <sub>2</sub> flux method in a continuous flow-through system. <i>Water Research</i> , <b>1998</b> , 32, 3371-3377	12.5	22
26	A novel microsensor for determination of apparent diffusivity in sediments. <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 986-992	4.8	35
25	Spatial and temporal variability of denitrification in the sediments of the northern Baltic Proper. <i>Marine Ecology - Progress Series</i> , <b>1998</b> , 172, 13-24	2.6	71
24	Nitrogen balance of a temperate eelgrass <i>Zostera marina</i> bed. <i>Marine Ecology - Progress Series</i> , <b>1998</b> , 174, 281-291	2.6	61
23	Reply to the note by Middelburg et al. <i>Limnology and Oceanography</i> , <b>1996</b> , 41, 1845-1846	4.8	9
22	Nitrification and Coupled Nitrification-Denitrification Associated with a Soil-Manure Interface. <i>Soil Science Society of America Journal</i> , <b>1996</b> , 60, 1829-1840	2.5	41
21	Resilience of Pelagic and Benthic Microbial Communities to Sediment Resuspension in a Coastal Ecosystem, Knebel Vig, Denmark. <i>Estuarine, Coastal and Shelf Science</i> , <b>1996</b> , 42, 405-415	2.9	48
20	Denitrification in a coastal sediment measured in situ by the nitrogen isotope pairing technique applied to a benthic flux chamber. <i>Marine Ecology - Progress Series</i> , <b>1996</b> , 137, 181-186	2.6	41
19	Concentration and transport of nitrate by the mat-forming sulphur bacterium <i>Thioploca</i> . <i>Nature</i> , <b>1995</b> , 374, 713-715	50.4	346
18	Estuarine nitrogen retention independently estimated by the denitrification rate and mass balance methods: a study of Norsminde Fjord, Denmark. <i>Marine Ecology - Progress Series</i> , <b>1995</b> , 119, 275-283	2.6	72
17	Seasonal variation in nitrification and denitrification in estuarine sediment colonized by benthic microalgae and bioturbating infauna. <i>Marine Ecology - Progress Series</i> , <b>1995</b> , 126, 111-121	2.6	176
16	Diurnal variation of denitrification and nitrification in sediments colonized by benthic microphytes. <i>Limnology and Oceanography</i> , <b>1994</b> , 39, 573-579	4.8	132
15	Denitrification in estuarine sediment stimulated by the irrigation activity of the amphipod <i>Corophium volutator</i> . <i>Marine Ecology - Progress Series</i> , <b>1994</b> , 105, 285-290	2.6	112
14	Denitrification, nitrification and nitrogen assimilation in photosynthetic microbial mats <b>1994</b> , 319-324		4
13	Pathways of organic carbon oxidation in three continental margin sediments. <i>Marine Geology</i> , <b>1993</b> , 113, 27-40	3.3	580
12	Denitrification measurements in aquatic sediments: A comparison of three methods. <i>Biogeochemistry</i> , <b>1993</b> , 23, 147-167	3.8	186
11	Microscale distribution of nitrification activity in sediment determined with a shielded microsensors for nitrate. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 3287-96	4.8	101
10	Nitrification and denitrification in lake and estuarine sediments measured by the N dilution technique and isotope pairing. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 2093-8	4.8	142

9	Denitrification in sediment determined from nitrogen isotope pairing. <i>FEMS Microbiology Ecology</i> , <b>1992</b> , 9, 357-361	4.3	48
8	Denitrification in sediment determined from nitrogen isotope pairing. <i>FEMS Microbiology Letters</i> , <b>1992</b> , 86, 357-362	2.9	411
7	Denitrification in nitrate-rich streams: Diurnal and seasonal variation related to benthic oxygen metabolism. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 640-651	4.8	163
6	Denitrification and photosynthesis in stream sediment studied with microsensor and wholecore techniques. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 1135-1144	4.8	86
5	Denitrification by sulphur oxidizing <i>Beggiatoa</i> spp. mats on freshwater sediments. <i>Nature</i> , <b>1990</b> , 344, 762-763	50.4	95
4	Denitrification and oxygen respiration in biofilms studied with a microsensor for nitrous oxide and oxygen. <i>Microbial Ecology</i> , <b>1990</b> , 19, 63-72	4.4	136
3	Denitrification in a trickling filter biofilm studied by a microsensor for oxygen and nitrous oxide. <i>Water Research</i> , <b>1989</b> , 23, 867-871	12.5	48
2	Microzonation of denitrification activity in stream sediments as studied with a combined oxygen and nitrous oxide microsensor. <i>Applied and Environmental Microbiology</i> , <b>1989</b> , 55, 1234-41	4.8	98
1	Combined oxygen and nitrous oxide microsensor for denitrification studies. <i>Applied and Environmental Microbiology</i> , <b>1988</b> , 54, 2245-9	4.8	93