

Lennart Jan de Nooijer

List of Publications by Year in descending order

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67
papers

2,731
citations

147726
31
h-index

189801
50
g-index

77
all docs

77
docs citations

77
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Foraminifera promote calcification by elevating their intracellular pH. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15374-15378.	3.3	301
2	Biom mineralization in perforate foraminifera. Earth-Science Reviews, 2014, 135, 48-58.	4.0	193
3	A new model for biom mineralization and trace-element signatures of Foraminifera tests. Biogeosciences, 2013, 10, 6759-6767.	1.3	118
4	Proton pumping accompanies calcification in foraminifera. Nature Communications, 2017, 8, 14145.	5.8	111
5	A novel salinity proxy based on Na incorporation into foraminiferal calcite. Biogeosciences, 2013, 10, 6375-6387.	1.3	90
6	Incorporation of Mg and Sr in calcite of cultured benthic foraminifera: impact of calcium concentration and associated calcite saturation state. Biogeosciences, 2010, 7, 869-881.	1.3	86
7	TRANSCRIPTOME ANALYSES REVEAL DIFFERENTIAL GENE EXPRESSION PATTERNS BETWEEN THE LIFE-CYCLE STAGES OF EMILIANIA HUXLEYI (HAPTOPHYTA) AND REFLECT SPECIALIZATION TO DIFFERENT ECOLOGICAL NICHES1. Journal of Phycology, 2011, 47, 829-838.	1.0	69
8	Trends in element incorporation in hyaline and porcelaneous foraminifera as a function of $\delta^{13}C$ and $\delta^{18}O$. Biogeosciences, 2017, 14, 497-510.	1.3	67
9	Asian monsoons and aridification response to Paleogene sea retreat and Neogene westerly shielding indicated by seasonality in Paratethys oysters. Earth and Planetary Science Letters, 2018, 485, 99-110.	1.8	66
10	Effect of ocean acidification on the benthic foraminifera <i>Ammonia</i> sp. is caused by a decrease in carbonate ion concentration. Biogeosciences, 2013, 10, 6185-6198.	1.3	65
11	A high resolution study of trace elements and stable isotopes in oyster shells to estimate Central Asian Middle Eocene seasonality. Chemical Geology, 2014, 363, 200-212.	1.4	62
12	Physiological controls on seawater uptake and calcification in the benthic foraminifer <i>Ammonia tepida</i> . Biogeosciences, 2009, 6, 2669-2675.	1.3	61
13	Incorporation of uranium in benthic foraminiferal calcite reflects seawater carbonate ion concentration. Geochemistry, Geophysics, Geosystems, 2013, 14, 102-111.	1.0	60
14	Intracellular pH distribution in foraminifera determined by the fluorescent probe HPTS. Limnology and Oceanography: Methods, 2008, 6, 610-618.	1.0	56
15	Salinity controls on Na incorporation in Red Sea planktonic foraminifera. Paleoceanography, 2016, 31, 1562-1582.	3.0	56
16	Copper incorporation in foraminiferal calcite: results from culturing experiments. Biogeosciences, 2007, 4, 493-504.	1.3	54
17	Interindividual variability and ontogenetic effects on Mg and Sr incorporation in the planktonic foraminifer <i>Globigerinoides sacculifer</i> . Geochimica Et Cosmochimica Acta, 2011, 75, 520-532.	1.6	50
18	Mg/Ca and $\delta^{18}O$ in the brackish shallow-water benthic foraminifer <i>Ammonia beccarii</i> . Marine Micropaleontology, 2011, 78, 113-120.	0.5	50

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19	Variability in calcitic Mg/Ca and Sr/Ca ratios in clones of the benthic foraminifer <i>Ammonia tepida</i> . <i>Marine Micropaleontology</i> , 2014, 107, 32-43.	0.5	50
20	Independent impacts of calcium and carbonate ion concentration on Mg and Sr incorporation in cultured benthic foraminifera. <i>Marine Micropaleontology</i> , 2011, 81, 122-130.	0.5	48
21	Effect of different seawater Mg ²⁺ concentrations on calcification in two benthic foraminifers. <i>Marine Micropaleontology</i> , 2014, 113, 56-64.	0.5	48
22	Profiling planktonic foraminiferal crust formation. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2409-2430.	1.0	48
23	Exploring foraminiferal Sr/Ca as a new carbonate system proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 202, 374-386.	1.6	46
24	ON THE ROLE OF THE CYTOSKELETON IN COCCOLITH MORPHOGENESIS: THE EFFECT OF CYTOSKELETON INHIBITORS ¹ . <i>Journal of Phycology</i> , 2010, 46, 1252-1256.	1.0	44
25	Combining benthic foraminiferal ecology and shell Mn/Ca to deconvolve past bottom water oxygenation and paleoproductivity. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 294-306.	1.6	44
26	Element banding and organic linings within chamber walls of two benthic foraminifera. <i>Scientific Reports</i> , 2019, 9, 3598.	1.6	42
27	Real-time visualization of calcium ion activity in shallow benthic foraminiferal cells using the fluorescent indicator Fluo-3 AM. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	39
28	LIVING (STAINED) DEEP-SEA FORAMINIFERA OFF HACHINOHE (NE JAPAN, WESTERN PACIFIC): ENVIRONMENTAL INTERPLAY IN OXYGEN-DEPLETED ECOSYSTEMS. <i>Journal of Foraminiferal Research</i> , 2014, 44, 281-299.	0.1	38
29	Impact of salinity on element incorporation in two benthic foraminiferal species with contrasting magnesium contents. <i>Biogeosciences</i> , 2018, 15, 2205-2218.	1.3	37
30	Encrustation and trace element composition of <i>Neogloboquadrina dutertrei</i> ; assessed from single chamber analyses – implications for paleotemperature estimates. <i>Biogeosciences</i> , 2012, 9, 4851-4860.	1.3	35
31	A reappraisal of the vital effect in cultured benthic foraminifer <i>Bulimina marginata</i> ; on Mg/Ca values: assessing temperature uncertainty relationships. <i>Biogeosciences</i> , 2012, 9, 3693-3704.	1.3	34
32	Unexpected biotic resilience on the Japanese seafloor caused by the 2011 Tōhoku-Oki tsunami. <i>Scientific Reports</i> , 2014, 4, 7517.	1.6	33
33	Mn-Ca intra- and inter-test variability in the benthic foraminifer <i>Ammonia tepida</i> . <i>Biogeosciences</i> , 2018, 15, 331-348.	1.3	33
34	Impacts of pH and [CO ₂ ∞] on the incorporation of Zn in foraminiferal calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 263-277.	1.6	32
35	Seasonality variations in the Central Mediterranean during climate change events in the Late Holocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 418, 304-318.	1.0	31
36	Mg/Ca in fossil oyster shells as palaeotemperature proxy, an example from the Palaeogene of Central Asia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 611-626.	1.0	27

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37	Salinity control on Na incorporation into calcite tests of the planktonic foraminifera <i>Trilobatus sacculifer</i> : evidence from culture experiments and surface sediments. <i>Biogeosciences</i> , 2018, 15, 5991-6018.	1.3	26
38	The ecology of benthic foraminifera across the Frisian Front, southern North Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 715-726.	0.9	24
39	Robust multi-proxy data integration, using late Cretaceous paleotemperature records as a case study. <i>Earth and Planetary Science Letters</i> , 2018, 500, 215-224.	1.8	24
40	The impact of Mg contents on Sr partitioning in benthic foraminifers. <i>Chemical Geology</i> , 2015, 412, 92-98.	1.4	23
41	Anti-cyclonic eddy imprint on calcite geochemistry of several planktonic foraminiferal species in the Mozambique Channel. <i>Marine Micropaleontology</i> , 2014, 113, 20-33.	0.5	20
42	Impact of seawater $[Ca^{2+}]$ on the calcification and calcite Mg / Ca of <i>Amphistegina lessonii</i> . <i>Biogeosciences</i> , 2015, 12, 2153-2162.	1.3	20
43	Benthic foraminiferal Mn/Ca ratios reflect microhabitat preferences. <i>Biogeosciences</i> , 2017, 14, 3067-3082.	1.3	20
44	Ba incorporation in benthic foraminifera. <i>Biogeosciences</i> , 2017, 14, 3387-3400.	1.3	18
45	Coupled calcium and inorganic carbon uptake suggested by magnesium and sulfur incorporation in foraminiferal calcite. <i>Biogeosciences</i> , 2019, 16, 2115-2130.	1.3	18
46	Population dynamics of benthic shallow-water foraminifera: effects of a simulated marine snow event. <i>Marine Ecology - Progress Series</i> , 2005, 285, 29-42.	0.9	18
47	NOVEL APPLICATION OF MTT REDUCTION: A VIABILITY ASSAY FOR TEMPERATE SHALLOW-WATER BENTHIC FORAMINIFERA. <i>Journal of Foraminiferal Research</i> , 2006, 36, 195-200.	0.1	15
48	The Impacts of Seawater Mg/Ca and Temperature on Element Incorporation in Benthic Foraminiferal Calcite. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3617-3630.	1.0	15
49	Taphonomic and Ontogenetic Effects on Na/Ca and Mg/Ca in Spinose Planktonic Foraminifera From the Red Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4174-4194.	1.0	13
50	High precipitation rates characterize biomineralization in the benthic foraminifer <i>Ammonia beccarii</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 70-82.	1.6	13
51	Sr partitioning in the benthic foraminifera <i>Ammonia aomoriensis</i> and <i>Amphistegina lessonii</i> . <i>Chemical Geology</i> , 2016, 440, 306-312.	1.4	12
52	Evaluation of oxygen isotopes and trace elements in planktonic foraminifera from the Mediterranean Sea as recorders of seawater oxygen isotopes and salinity. <i>Climate of the Past</i> , 2020, 16, 2401-2414.	1.3	12
53	Reconciling single-chamber Mg / Ca with whole-shell $\delta^{18}O$ in surface to deep-dwelling planktonic foraminifera from the Mozambique Channel. <i>Biogeosciences</i> , 2015, 12, 2411-2429.	1.3	11
54	Carbonic anhydrase is involved in calcification by the benthic foraminifer <i>Amphistegina lessonii</i> . <i>Biogeosciences</i> , 2021, 18, 393-401.	1.3	11

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55	A Saltier Glacial Mediterranean Outflow. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 179-197.	1.3	10
56	Foraminiferal Ultrastructure: A perspective From Fluorescent and Fluorogenic Probes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2823-2850.	1.3	10
57	The long-term impact of magnesium in seawater on foraminiferal mineralogy: Mechanism and consequences. <i>Global Biogeochemical Cycles</i> , 2016, 30, 438-446.	1.9	9
58	Evaluation and application of foraminiferal element/calcium ratios: Assessing riverine fluxes and environmental conditions during sapropel S1 in the Southeastern Mediterranean. <i>Marine Micropaleontology</i> , 2019, 153, 101783.	0.5	9
59	Comparing Seawater Temperature Proxy Records for the Past 90 Myrs From the Shallow Shelf Record Bass River, New Jersey. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 455-475.	1.3	7
60	COMBINED IMPACTS OF OCEAN ACIDIFICATION AND DYSOXIA ON SURVIVAL AND GROWTH OF FOUR AGGLUTINATING FORAMINIFERA. <i>Journal of Foraminiferal Research</i> , 2017, 47, 294-303.	0.1	6
61	New Calcium Carbonate Nano-particulate Pressed Powder Pellet (NFHS-2-NP) for LA-ICP-AES, LA-ICP-MS and μ XRF. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 411-432.	1.7	6
62	Planktonic foraminiferal spine versus shell carbonate Na incorporation in relation to salinity. <i>Biogeosciences</i> , 2019, 16, 1147-1165.	1.3	5
63	Mn Incorporation in Large Benthic Foraminifera: Differences Between Species and the Impact of pCO ₂ . <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	5
64	Temperature Impact on Magnesium Isotope Fractionation in Cultured Foraminifera. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	5
65	In-situ incubation of a coral patch for community-scale assessment of metabolic and chemical processes on a reef slope. <i>PeerJ</i> , 2018, 6, e5966.	0.9	5
66	BENTHIC FORAMINIFERAL EFFECT ON NITROGEN AND CARBON CYCLING. <i>Journal of Foraminiferal Research</i> , 2009, 39, 97-111.	0.1	2
67	Light Impacts Mg Incorporation in the Benthic Foraminifer <i>Amphistegina lessonii</i> . <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	2