Niels C Munksgaard

List of Publications by Year
in descending order

75 papers	2,152 citations	201674 27 h-index	254184 43 g-index
75 all docs	75 docs citations	75 times ranked	3090 citing authors

#	Article	IF	Citations
1	Stable isotopes in leaf water of terrestrial plants. Plant, Cell and Environment, 2016, 39, 1087-1102.	5.7	256
2	Identification of environmental lead sources and pathways in a mining and smelting town: Mount Isa, Australia. Environmental Pollution, 2013, 180, 304-311.	7.5	97
3	Trace metals, arsenic and lead isotopes in dissolved and particulate phases of North Australian coastal and estuarine seawater. Marine Chemistry, 2001, 75, 165-184.	2.3	95
4	Rare earth elements as provenance indicators in North Australian estuarine and coastal marine sediments. Estuarine, Coastal and Shelf Science, 2003, 57, 399-409.	2.1	80
5	Extreme shortâ€term stable isotope variability revealed by continuous rainwater analysis. Hydrological Processes, 2012, 26, 3630-3634.	2.6	71
6	Evidence for mantle metasomatism: an oxygen and strontium isotope study of the Vulsinian District, Central Italy. Earth and Planetary Science Letters, 1982, 60, 376-388.	4.4	70
7	Determination of Trace Metals in Sea-water by Inductively Coupled Plasma Mass Spectrometry After Off-line Dithiocarbamate Solvent Extraction. Journal of Analytical Atomic Spectrometry, 1997, 12, 1277-1280.	3.0	65
8	Continuous analysis of Î´¹⁸O and Î´D values of water by diffusion sampling cavity ringâ€down spectrometry: a novel sampling device for unattended field monitoring of precipitation, ground and surface waters. Rapid Communications in Mass Spectrometry, 2011, 25, 3706-3712.	1.5	64
9	High ?18O and possible pre-eruptional Rb-Sr isochrons in cordierite-bearing Neogene volcanics from SE Spain. Contributions To Mineralogy and Petrology, 1984, 87, 351-358.	3.1	50
10	Early Last Interglacial ocean warming drove substantial ice mass loss from Antarctica. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3996-4006.	7.1	50
11	Stable Isotope Anatomy of Tropical Cyclone Ita, North-Eastern Australia, April 2014. PLoS ONE, 2015, 10, e0119728.	2.5	49
12	Lead isotope ratios determined by ICP-MS: Investigation of anthropogenic lead in seawater and sediment from the Gulf of Carpentaria, Australia. Marine Pollution Bulletin, 1998, 36, 527-534.	5.0	44
13	Microwave extractionâ€“isotope ratio infrared spectroscopy (MEâ€IRIS): a novel technique for rapid extraction and inâ€line analysis of Î´¹⁸O and Î´²H values of water in plants, soils and insects. Rapid Communications in Mass Spectrometry, 2014, 28, 2151-2161.	1.5	44
14	Decoding fingerprints: elemental composition of vertebrae correlates to age-related habitat use in two morphologically similar sharks. Marine Ecology - Progress Series, 2011, 434, 133-142.	1.9	43
15	Monitoring of labile metals in turbid coastal seawater using diffusive gradients in thin-films. Journal of Environmental Monitoring, 2003, 5, 145-149.	2.1	42
16	Source of the Cooma Granodiorite, New South Wales â€” a possible role of fluidâ€rock interactions. Australian Journal of Earth Sciences, 1988, 35, 363-377.	1.0	41
17	Leaf vein fraction influences the PÃ©clet effect and ¹⁸O enrichment in leaf water. Plant, Cell and Environment, 2016, 39, 2414-2427.	5.7	41
18	Data Descriptor: Daily observations of stable isotope ratios of rainfall in the tropics. Scientific Reports, 2019, 9, 14419.	3.3	40

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19	Hydroperiod, soil moisture and bioturbation are critical drivers of greenhouse gas fluxes and vary as a function of landuse change in mangroves of Sulawesi, Indonesia. Science of the Total Environment, 2019, 654, 365-377.	8.0	40
20	The biogeochemistry of insectivorous cave guano: a case study from insular Southeast Asia. Biogeochemistry, 2015, 124, 163-175.	3.5	37
21	Lead isotope ratios determined by ICP-MS: Monitoring of mining-derived metal particulates in atmospheric fallout, Northern Territory, Australia. Science of the Total Environment, 1998, 217, 113-125.	8.0	35
22	Groundwaterâ€Derived DIC and Carbonate Buffering Enhance Fluvial CO₂ Evasion in Two Australian Tropical Rivers. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 312-327.	3.0	34
23	What Drives the Occurrence of the Melioidosis Bacterium Burkholderia pseudomallei in Domestic Gardens?. PLoS Neglected Tropical Diseases, 2015, 9, e0003635.	3.0	33
24	Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. Scientific Reports, 2017, 7, 39979.	3.3	33
25	Spatial and Temporal Microbial Patterns in a Tropical Macrotidal Estuary Subject to Urbanization. Frontiers in Microbiology, 2017, 8, 1313.	3.5	31
26	A global database of water vapor isotopes measured with high temporal resolution infrared laser spectroscopy. Scientific Data, 2019, 6, 180302.	5.3	31
27	Title is missing!. Marine and Freshwater Research, 2002, 53, 719.	1.3	30
28	Do ²H and ¹⁸O in leaf water reflect environmental drivers differently?. New Phytologist, 2022, 235, 41-51.	7.3	29
29	Biogeochemistry of Pbâ€“Zn gossans, northwest Queensland, Australia: Implications for mineral exploration and mine site rehabilitation. Applied Geochemistry, 2008, 23, 723-742.	3.0	28
30	Trace metal concentrations in the tropical sponge Spheciospongia vagabunda at a sewage outfall: synchrotron X-ray imaging reveals the micron-scale distribution of accumulated metals. Hydrobiologia, 2012, 687, 275-288.	2.0	26
31	First continuous shipboard Î´18O and Î´D measurements in sea water by diffusion samplingâ€”cavity ring-down spectrometry. Environmental Chemistry Letters, 2012, 10, 301-307.	16.2	25
32	ISOâ€CADICA: Isotopic â€“ continuous, automated dissolved inorganic carbon analyser. Rapid Communications in Mass Spectrometry, 2012, 26, 639-644.	1.5	25
33	Large scale hot water migration systems around salt diapirs in the Danish Central Trough and their impact on diagenesis of chalk reservoirs. Geochimica Et Cosmochimica Acta, 1989, 53, 79-87.	3.9	22
34	Continuous monitoring of stream Î´¹⁸O and Î´²H and stormflow hydrograph separation using laser spectrometry in an agricultural catchment. Hydrological Processes, 2016, 30, 648-660.	2.6	22
35	Loss and gain of carbon during char degradation. Soil Biology and Biochemistry, 2017, 106, 80-89.	8.8	21
36	Radioactive and radiogenic isotopes in sediments from Cooper Creek, Western Arnhem Land. Journal of Environmental Radioactivity, 2008, 99, 468-482.	1.7	20

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37	Mobility and potential bioavailability of traffic-derived trace metals in a â€˜wetâ€“dryâ€™ tropical region, Northern Australia. Environmental Earth Sciences, 2010, 60, 1447-1458.	2.7	20
38	The isotopic signature of monsoon conditions, cloud modes, and rainfall type. Hydrological Processes, 2018, 32, 2296-2303.	2.6	20
39	Southern Ocean carbon sink enhanced by sea-ice feedbacks at the Antarctic Cold Reversal. Nature Geoscience, 2020, 13, 489-497.	12.9	20
40	Recognising and responding to the obvious: the source of lead pollution at Mount Isa and the likely health impacts. Medical Journal of Australia, 2010, 193, 131-132.	1.7	19
41	Phosphate amendment of metalliferous tailings, Cannington Agâ€“Pbâ€“Zn mine, Australia: implications for the capping of tailings storage facilities. Environmental Earth Sciences, 2013, 68, 33-44.	2.7	18
42	Tracerâ€Aided Modeling in the Lowâ€Relief, Wetâ€Dry Tropics Suggests Water Ages and DOC Export Are Driven by Seasonal Wetlands and Deep Groundwater. Water Resources Research, 2020, 56, e2019WR026175.	4.2	18
43	Impact of an extreme monsoon on CO2 and CH4 fluxes from mangrove soils of the Ayeyarwady Delta, Myanmar. Science of the Total Environment, 2021, 760, 143422.	8.0	17
44	Fertilizer Amendment of Mining-Impacted Soils from Broken Hill, Australia: Fixation or Release of Contaminants?. Water, Air, and Soil Pollution, 2011, 215, 373-397.	2.4	15
45	Continuous shipboard measurements of oceanic Î´18O, ÎD and Î´13CDIC along a transect from New Zealand to Antarctica using cavity ring-down isotope spectrometry. Journal of Marine Systems, 2014, 137, 21-27.	2.1	15
46	Seasonal Shift From Biogenic to Geogenic Fluvial Carbon Caused by Changing Water Sources in the Wetâ€Dry Tropics. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005384.	3.0	15
47	The Use of Lead Isotopes in Monitoring Environmental Impacts of Uranium and Lead Mining in Northern Australia. Australian Journal of Chemistry, 2003, 56, 233.	0.9	15
48	Prolonged Testing of Metal Mobility in Mining-Impacted Soils Amended with Phosphate Fertilisers. Water, Air, and Soil Pollution, 2012, 223, 2237-2255.	2.4	14
49	Reply to: a criticism of the Holm-Munksgaard oxygen and strontium isotope study of the Vulsinian District, Central Italy. Earth and Planetary Science Letters, 1986, 78, 454-459.	4.4	13
50	Cadmium uptake and zinc-cadmium antagonism in Australian tropical rock oysters: Potential solutions for oyster aquaculture enterprises. Marine Pollution Bulletin, 2017, 123, 47-56.	5.0	13
51	Laser Ablation ICP-MS Analysis of Faviidae Corals for Environmental Monitoring of a Tropical Estuary. Environmental Chemistry, 2004, 1, 188.	1.5	12
52	Small-scale spatial variation in the elemental composition of otoliths of Stegastes nigricans (Pomacentridae) in French Polynesia. Coral Reefs, 2005, 24, 646-653.	2.2	12
53	Leaky savannas: the significance of lateral carbon fluxes in the seasonal tropics. Hydrological Processes, 2016, 30, 873-887.	2.6	12
54	Coupled rainfall and water vapour stable isotope time series reveal tropical atmospheric processes on multiple timescales. Hydrological Processes, 2020, 34, 111-124.	2.6	12

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55	Effects of Wood Bark and Fertilizer Amendment on Trace Element Mobility in Mine Soils, Broken Hill, Australia: Implications for Mined Land Reclamation. Journal of Environmental Quality, 2010, 39, 2054-2062.	2.0	11
56	Anomalous lead isotope ratios and provenance of offshore sediments, Gulf of Carpentaria, northern Australia. Australian Journal of Earth Sciences, 2000, 47, 771-777.	1.0	10
57	Trace Element Uptake by Mitchell Grasses Grown on Mine Wastes, Cannington Agâ€“Pbâ€“Zn Mine, Australia: Implications for Mined Land Reclamation. Water, Air, and Soil Pollution, 2009, 203, 243-259.	2.4	8
58	Identifying drivers of leaf water and cellulose stable isotope enrichment in Eucalyptus in northern Australia. Oecologia, 2017, 183, 31-43.	2.0	8
59	Functional traits of lianas in an Australian lowland rainforest align with postâ€disturbance rather than dry season advantage. Austral Ecology, 2019, 44, 983-994.	1.5	8
60	Environmental challenges in a near-pristine mangrove estuary facing rapid urban and industrial development: Darwin Harbour, Northern Australia. Regional Studies in Marine Science, 2019, 25, 100438.	0.7	8
61	Oxygen-isotope systematics of a strongly recrystallized granitic rock complex, Grenvillian Belt, SW Sweden. Contributions To Mineralogy and Petrology, 1984, 85, 67-73.	3.1	7
62	Identifying groundwaterâ€fed climate refugia in remote arid regions with citizen science and isotope hydrology. Freshwater Biology, 2021, 66, 35-43.	2.4	7
63	Land transformation in tropical savannas preferentially decomposes newly added biomass, whether C₃ or C₄ derived. Ecological Applications, 2020, 30, e02192.	3.8	6
64	Sand Dynamics as a Tool for Coastal Erosion Management: A Case Study in Darwin Harbour, Northern Territory, Australia. Procedia Engineering, 2015, 125, 220-228.	1.2	5
65	Multiple approaches to assess the safety of artisanal marine food in a tropical estuary. Environmental Monitoring and Assessment, 2017, 189, 125.	2.7	5
66	Pre-Dalslandian deformation and recrystallization in the basement of the Dalslandian supracrustals, Grenvillian (Sveconorwegian) Belt, south-west Sweden. Gff, 1983, 105, 205-212.	0.4	4
67	Oxygen isotope systematics indicating large-scale circulation of fluids in granitic rocks from southwest Sweden. Chemical Geology, 1985, 51, 239-246.	3.3	4
68	Stable isotopes in biota reflect the graduated influence of sewage effluent along a tropical macro-tidal creek. Marine and Freshwater Research, 2017, 68, 1855.	1.3	4
69	Microbial diversity and distribution differ between water column and biofilm assemblages in arid-land waterbodies. Freshwater Science, 2019, 38, 869-882.	1.8	4
70	Bio-Monitoring using Lead Isotope Ratios in Seagrass and Oysters. Marine Technology Society Journal, 2002, 36, 52-54.	0.4	3
71	Partitioning of Microbially Respired CO2 Between Indigenous and Exogenous Carbon Sources During Biochar Degradation Using Radiocarbon and Stable Carbon Isotopes. Radiocarbon, 2019, 61, 573-586.	1.8	3
72	Automated calibration of laser spectrometer measurements of Î´ 18 O and Î´ 2 H values in water vapour using a Dew Point Generator. Rapid Communications in Mass Spectrometry, 2018, 32, 1008-1014.	1.5	2

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73	Comments on manuscriptâ€"Zheng, J., Huynh, T., Gasparon, M., Ng, J. and Noller, B., 2013. Human health risk assessment of lead from mining activities at semi-arid locations in the context of total lead exposure. Environmental Science and Pollution Research, 20, 8404â€"8416. Environmental Science and Pollution Research, 2015, 22, 19307-19312.	5.3	1
74	Coupled Polymer-Membrane Equilibration and Cavity Ring-down Spectrometry for the Highly Sensitive Determination of Dissolved Methane in Environmental Waters. Analytical Letters, 2021, 54, 430-441.	1.8	0
75	Trace metal concentrations in the tropical sponge Spheciospongia vagabunda at a sewage outfall: synchrotron X-ray imaging reveals the micron-scale distribution of accumulated metals. , 2011, , 275-288.		0