

Apatite in early Archean Isua supracrustal rocks, southern West Greenland : its origin, association with graphite and potential as a biomarker

Lepland, Aivo; Arrhenius, Gustaf; Cornell, David Precambrian research 2002 / p. 221-241 : ill [https://doi.org/10.1016/S0301-9268\(02\)00106-7](https://doi.org/10.1016/S0301-9268(02)00106-7)

Archaean phosphates: a case study of transformation processes in apatite from the Barberton greenstone belt

Birski, Łukasz; Slaby, Ewa; Wirth, Richard; Koch-Müller, M.; Simon, K.; Wudarska, Alicja; **Lepland, Aivo** Contributions to mineralogy and petrology 2019 / 25 p. : ill <https://doi.org/10.1007/s00410-019-1560-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Authigenesis of biomorphic apatite particles from Benguela upwelling zone sediments off Namibia: The role of organic matter in sedimentary apatite nucleation and growth

Mänd, Kaarel; Kirsimäe, Kalle; **Lepland, Aivo**; Lumiste, Kaarel Geobiology 2018 / p. 640-658 : ill <https://doi.org/10.1111/gbi.12309> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

(Ca-Y)-phosphate inclusions in apatite crystals from Archean rocks from the Barberton Greenstone Belt and Pilbara Craton : First report of natural occurrence

Birski, Łukasz; Wirth, Richard; Slaby, Ewa; Wudarska, Alicja; **Lepland, Aivo** American mineralogist 2018 / p. 307–313 : ill <https://doi.org/10.2138/am-2018-6150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chlorine isotope composition of apatite from the >3.7 Ga isua supracrustal belt, SW Greenland

Wudarska, Alicja; Slaby, Ewa; Wiedenbeck, Michael; Birski, Łukasz; Wirth, Richard; Götze, Jens; **Lepland, Aivo**; Kusebauch, Christof; Kocjan, Izabela Minerals 2020 / Art. 27 <https://doi.org/10.3390/min10010027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cryptic secondary cementation of Ordovician limestones in the Baltoscandian Basin, northern Europe, revealed through trace-element mapping and U-Pb dating by LA-ICP-MS

Hagen-Peter, Graham; Wang, Yue; **Hints, Olle**; **Lepland, Aivo** EGU General Assembly 2021 2021 / art. EGU21-12547 <https://doi.org/10.5194/egusphere-egu21-12547>

Dating the termination of the Palaeoproterozoic Lomagundi-Jatuli carbon isotopic event in the North Transfennoscandian Greenstone Belt

Martin, Adam P.; Condon, Dan J.; Prave, Anthony R.; Melezhik, Victor A.; **Lepland, Aivo**; Fallick, Anthony Edward Precambrian Research 2013 / p. 160 - 168 <https://doi.org/10.1016/j.precamres.2012.09.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Diagenetic Mg-calcite overgrowths on foraminiferal tests in the vicinity of methane seeps

Panieri, Giuliana; **Lepland, Aivo**; Whitehouse, Martin J.; Wirth, Richard Earth and planetary science letters 2017 / p. 203-212 : ill <https://doi.org/10.1016/j.epsl.2016.10.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Direct dating of deposition and rift-related alteration of fossil-barren red bed units in the North Sea

Hodgskiss, Malcolm S.W.; Roberts, Nick M.W.; Paiste, Päärn; Rameil, Niels; Hammer, Erik; Brunstad, Harald; **Lepland, Aivo** Journal of the Geological Society 2024 / art. jgs2023-052 <https://www.lyellcollection.org/doi/abs/10.1144/jgs2023-052> <https://doi.org/10.1144/jgs2023-052> [Journal metrics at scopus](#) [Article at scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Discharge of meteoric water in the eastern Norwegian Sea since the last glacial period

Hong, WeiLi; **Lepland, Aivo**; Himmler, Tobias; **Martma, Tõnu** Geophysical research letters 2019 / p. 8194-8204 : ill <https://doi.org/10.1029/2019GL084237> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of early marine diagenesis and site-specific depositional controls on carbonate-associated sulfate: Insights from paired S and O isotopic analyses

Richardson, Jocelyn A.; **Lepland, Aivo**; **Hints, Olle**; Prave, Anthony R.; Gilhooly III, William P.; **Bradley, Alexander S.**; Fike, David A Chemical geology 2021 / art. 120525 <https://doi.org/10.1016/j.chemgeo.2021.120525> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fluid source and methane-related diagenetic processes recorded in cold seep carbonates from the Alvheim channel, central North Sea

Cremlere, Antoine; **Lepland, Aivo**; Chand, Shyam; **Martma, Tõnu** Chemical geology 2016 / p. 16-33 : ill <https://doi.org/10.1016/j.chemgeo.2016.03.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fossilisation by Mg-calcite: mineralized microbes in methane-derived carbonates from the Vestnesa Ridge, off western Svalbard

Himmler, Tobias; Wirth, Richard; **Martma, Tõnu**; Bohrmann, Gerhard; Bünz, Stefan; Knies, Jochen; **Lepland, Aivo** Geophysical research abstracts 2018 / p. EGU2018-14291 <https://meetingorganizer.copernicus.org/EGU2018/EGU2018-14291.pdf>

Geological maps of the Gulf of Finland sea bottom as a basis for assessing the state of marine environment

Suuroja, Sten; Kask, Andres; **Petersell, Valter; Alliksaar, Tiit; Lips, Urmas; Lepland, Aivo** The 13th Colloquium on Baltic Sea Marine Geology : September 12-16, 2016, Gdansk, Poland : abstract volume & field trip guidebook 2016 / p. 75
<https://www.pgi.gov.pl/dokumenty-pig-pib-all/publikacje-2/materialy-konferencyjne/4007-baltic-2016/file.html>

Geoloogid leidsid seosed merepõhja metaanilekete ja jääaegade vahel

Horisont 2019 / lk. 9 : ill http://www.ester.ee/record=b1072243*est

Halogen chemistry and hydrogen isotopes of apatite from the >3.7 Ga Isua supracrustal belt, SW Greenland

Wudarska, Alicja; Wiedenbeck, Michael; Slaby, Ewa; **Lepland, Aivo** Precambrian research 2018 / p. 153-164 : ill
<https://doi.org/10.1016/j.precamres.2018.02.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-CO₂, acidic and oxygen-starved weathering at the Fennoscandian Shield at the Archean-Proterozoic transition

Soomer, Sigrid; Somelar, Peeter; Mänd, Kaarel; Driese, Steven G.; **Lepland, Aivo**; Kirsimäe, Kalle Precambrian research 2019 / p. 68-80 : ill <https://doi.org/10.1016/j.precamres.2019.03.001>

Hydrothermal regeneration of ammonium as a basin-scale driver of primary productivity

Stüeken, Eva E.; Kirsimäe, Kalle; **Lepland, Aivo**; Prave, Anthony R. Astrobiology 2023 / p. 195-212
<https://doi.org/10.1089/ast.2021.0203> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Increased barium levels in recent marine sediments from the Norwegian and Barents Seas suggest impact of hydrocarbon drilling and production

Haanes, Hallvard; Jensen, Henning K.B.; **Lepland, Aivo**; Heldal, Hilde Elise Marine Pollution Bulletin 2023 / art. 114478
<https://doi.org/10.1016/j.marpolbul.2022.114478>

Insights into the REY inventory of seep carbonates from the Northern Norwegian margin using geochemical screening

Schier, Katharina; Himmler, Tobias; **Lepland, Aivo**; Kraemer, Dennis; Schoenenberger, Jasmin; Bau, Michael Chemical geology 2021 / art. 119857, 15 p. : ill <https://doi.org/10.1016/j.chemgeo.2020.119857> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Iron isotopes reveal a benthic iron shuttle in the palaeoproterozoic Zaonega formation : basinal restriction, euxinia, and the effect on global palaeoredox proxies

Mänd, Kaarel; Lalonde, Stefan V.; Paiste, Kärt; Thoby, Marie; Lumiste, Kaarel; Robbins, Leslie J; Kreitsmann, Timmu; Romashkin, Alexander E.; Kirsimäe, Kalle; **Lepland, Aivo** Minerals 2021 / art. 368, 25 p. : ill <https://doi.org/10.3390/min11040368> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Late diagenetic evolution of Ordovician limestones in the Baltoscandian basin revealed through trace-element mapping and in situ U–Pb dating of calcite

Hagen-Peter, Graham; Wang, Yue; **Hints, Olle**; Prave, Anthony R.; **Lepland, Aivo** Chemical geology 2021 / art. 120563
<https://doi.org/10.1016/j.chemgeo.2021.120563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Latest Ordovician to early Silurian integrated bio-and chemostratigraphy in northern Lithuania, central East Baltic

Hints, Olle; Ainsaar, Leho; **Lepland, Aivo**; Männik, Peep; Meidla, Tõnu; **Nõlvak, Jaak**; Radzevičius, Sigitaš Lille 2021 : Ordovician of the World : programme with abstracts 2021 / p. 40-41 <https://docplayer.net/219093593-Programme-with-abstracts-2021-virtual-annual-meeting-of-igcp-virtual-annual-meeting-of-igcp-735.html>

Lithostratigraphic analysis of a new stromatolite-thrombolite reef from across the rise of atmospheric oxygen in the Paleoproterozoic Turee Creek Group, Western Australia

Barlow, E.; van Kranendonk, M. J.; Yamaguchi, K. E.; Ikehara, M.; **Lepland, Aivo** Geobiology 2016 / p. 317-343 : ill
<https://doi.org/10.1111/gbi.12175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Long-term fluid expulsion revealed by carbonate crusts and pockmarks connected to subsurface gas anomalies and palaeo-channels in the central North Sea

Chand, Shyam; Cremiere, Antoine; **Lepland, Aivo**; Thorsnes, Terje; Brunstad, Harald; Stoddart, Daniel Geo-marine letters 2017 / p. 215-227 : ill <https://doi.org/10.1007/s00367-016-0487-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Marine base maps : Tailoring geological information to marine spatial planners

Elvenes, S.; **Lepland, Aivo**; Bøe, R. Vinterkonferansen 2019 : Bergen, January 7th-9th, 2019 : NGF abstracts and proceedings of the Geological Society of Norway 2019 / p. 19-20
https://www.geologi.no/konferanser/vinterkonferansen/item/download/72_6cdecc52529e2c144ddf98991fba2d8f

Marine mine tailings disposal at Lillebukt, Stjernsundet, North Norway

Bøe, Reidulv; Sandøy, Roar; Baeten, Nicole J.; **Lepland, Aivo** Vinterkonferansen 2019 : Bergen, January 7th-9th, 2019 : NGF abstracts and proceedings of the Geological Society of Norway 2019 / p. 10-11
https://www.geologi.no/konferanser/vinterkonferansen/item/download/72_6cdecc52529e2c144ddf98991fba2d8f

Marine mine tailings disposal at Lillebukt, Stjernsundet, North Norway : distribution, sedimentary processes and

depositional impacts

Bøe, Reidulv; Sandøy, Roar; Baeten, Nicole J.; **Lepland, Aivo** Norwegian journal of geology 2018 / p. 461-482 : ill
<https://dx.doi.org/10.17850/njg98-3-08>

Metaanileke ja jääaeg käivad käsikäes

Imeline Teadus 2019 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Metal enrichments in Paleoproterozoic black shales : global or regional controls?

Lepland, Aivo Goldschmidt Conference abstracts : 2016 2016 / p. 1730 <http://goldschmidt.info/2016/uploads/abstracts/finalPDFs/A-Z.pdf>

Methane seepage at Vestnesa Ridge (NW Svalbard) since the LastGlacial Maximum

Schneider, A.; Panieri, Giuliana; **Lepland, Aivo** Quaternary science reviews 2018 / p. 98-117 : ill
<https://doi.org/10.1016/j.quascirev.2018.06.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methanotrophy in a Paleoproterozoic oil field ecosystem, Zaonega Formation, Karelia, Russia

Qu, Y.; Črne, A. E.; **Lepland, Aivo**; van Zuilen, Mark A. Geobiology 2012 / p. 467-478 : ill
https://www.researchgate.net/publication/231177487_Methanotrophy_in_a_Paleoproterozoic_oil_field_ecosystem_Zaonega_Formation_Karelia_Russia

Mineral-templated growth of natural graphite films

Van Zuilen, Mark A.; **Lepland, Aivo** Geochimica et cosmochimica acta 2012 / p. 252-262 : ill
<https://www.sciencedirect.com/science/article/pii/S0016703711007654>

Morphology-dependent magnetic properties in shallow-water ferromanganese concretions

Wasiljeff, Joonas; Salminen, Johanna M.; Roberts, Andrew P.; Hu, Pengxiang; Brown, Maxwell; Kuva, Jukka; Lukkari, Sari; Jolis, Ester M.; **Heinsalu, Atko**; **Lepland, Aivo** Geochemistry, Geophysics, Geosystems 2024 / art. e2023GC011366, 21 p. : ill
<https://doi.org/10.1029/2023GC011366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multiple Palaeoproterozoic carbon burial episodes and excursions

Martin, Adam P.; Prave, Anthony R.; Condon, Dan J.; **Lepland, Aivo**; Fallick, Anthony Edward; Romashkin, Alexander E.; Medvedev, Pavel V.; Rychanchik, Dmitry V. Earth and Planetary Science Letters 2015 / p. 226 - 236 <https://doi.org/10.1016/j.epsl.2015.05.023>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A 160,000-year-old history of tectonically controlled methane seepage in the Arctic

Himmler, Tobias; Sahy, Diana; **Martma, Tõnu**; **Lepland, Aivo** Science advances 2019 / art. eaaw1450, 8 p. : ill
<https://doi.org/10.1126/sciadv.aaw1450> TTÜ geoloogid: merepõhjast lekkinud metaani ja jääaegade vahel on seos [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The oxygen isotope composition of earth's oldest rocks and evidence of a terrestrial magma ocean

Rumble, Douglas; Bowring, Samuel A.; Iizuka, Tsuyoshi; Komiya, Tsuyoshi I.; **Lepland, Aivo**; **Rosing, Minik T.**; Ueno, Yuichiro
Geochemistry, Geophysics, Geosystems 2013 / p. 1929 - 1939 <https://doi.org/10.1002/ggge.20128> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxygen isotope compositions of conodonts – analytical challenges of in situ SIMS studies

Wudarska, Alicja; Wiedenbeck, Michael; **Hints, Olle**; **Männik, Peep**; **Lepland, Aivo**; Joachimski, Michael M.; Couffignal, Frederic;
Scicchitano, Maria Rosa; Wilke, Franziska D. H. Estonian journal of earth sciences 2023 / p. 166 <https://doi.org/10.3176/earth.2023.39>

Oxygenated conditions in the aftermath of the Lomagundi-Jatuli Event: The carbon isotope and rare earth element signatures of the Paleoproterozoic Zaonega Formation, Russia

Kreitsmann, Timmu; **Lepland, Aivo**; Bau, M.; Prave, A.R.; Paiste, Kärt; Mänd, Kaarel; Sepp, Holar; **Martma, Tõnu**; **Romashkin, A.E.**;
Kirsimäe, Kalle Precambrian research 2020 / art. 105855, 16 p. : ill <https://doi.org/10.1016/j.precamres.2020.105855> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paired carbon isotope chemostratigraphy across the Ordovician–Silurian boundary in central East Baltic: Regional and global signatures

Hints, Olle; Ainsaar, Leho; **Lepland, Aivo**; **Liiv, Merlin**; **Männik, Peep**; Meidla, Tõnu; **Nõlvak, Jaak**; Radzevičius, Sigitas
Palaeogeography, palaeoclimatology, palaeoecology 2023 / art. 111640, 17 p. : ill <https://doi.org/10.1016/j.palaeo.2023.111640> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paired carbonate and organic carbon isotope records from the Ordovician of Estonia: Local, regional or global drivers?

Hints, Olle; **Lepland, Aivo**; **Liiv, Merlin**; Meidla, Tõnu; Ainsaar, Leho Zooming in on the GOBE : 2020 virtual annual meeting of IGCP 653 : International Geoscience Programme Project 653 : The onset of the Great Ordovician Biodiversification Event, September 7-10, 2020 : Abstracts 2020 / p. 24 "Programme"

Paired organic and carbonate carbon isotope records through the Middle and Upper Ordovician of Estonia

Hints, Olle; **Kaljo, Dimitri**; **Lepland, Aivo**; **Liiv, Merlin**; **Martma, Tõnu**; Ainsaar, Leho 13th International Symposium on the Ordovician System : Novosibirsk, Russia (July 19-22, 2019) : contributions 2019 / p. 75-77 <http://www.igcp653.org/wp->

Palaeoproterozoic oxygenated oceans following the Lomagundi–Jatuli Event

Mänd, Kaarel; Lalonde, Stefan V.; Robbins, Leslie J.; Thoby, Marie; Paiste, Kärt; Kreitsmann, Timmu; **Paiste, Päärn**; Reinhard, Christopher T.; Romashkin, Alexandr E.; Planavsky, Noah J.; Kirsimäe, Kalle; **Lepland, Aivo**; Konhauser, Kurt O. Nature geoscience 2020 / p. 302-306 <https://doi.org/10.1038/s41561-020-0558-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Petrography and geochemistry of carbonate rocks of the Paleoproterozoic Zaonega Formation, Russia: Documentation of ^{13}C -depleted non-primary calcite

Črne, A. E.; Melezhik, Victor A.; **Lepland, Aivo**; Fallick, Anthony Edward; Prave, Anthony R.; Brasier, A.T. Precambrian research 2014 / p. 79-93 : ill <https://doi.org/10.1016/j.precamres.2013.10.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Petrography and geochemistry of seep carbonates from the Barents Sea

Himmler, Tobias; **Martma, Tõnu**; Bünz, Stefan; Panieri, Giuliana; Knies, Jochen; **Lepland, Aivo** 34th IAS Meeting of Sedimentology - Abstract Submission and Conference Registration, 10-13 September 2019, Rome, Italy 2019 / 1 p <https://iasroma2019.exordo.com/programme/presentation/1235>

Petrography and geochemistry of seep carbonates from the Barents Sea

Himmler, Tobias; **Martma, Tõnu**; Bünz, Stefan; Panieri, Giuliana; Knies, Jochen; **Lepland, Aivo** IAS 2019 : 34th International Association of Sedimentologists 2019 Meeting of Sedimentology, Rome, Italy, 10-13 September 2019 2019 / 1 p <https://iasroma2019.exordo.com/programme/presentation/1235>

Petrography and the REE-composition of apatite in the Paleoproterozoic Pilgūjärvi Sedimentary Formation, Pechenga Greenstone Belt, Russia

Joosu, Lauri; **Lepland, Aivo**; Kreitsmann, Timmu Geochimica et cosmochimica acta 2016 / p. 135-153 : ill <https://doi.org/10.1016/j.gca.2016.04.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Potential influence of sulphur bacteria on Palaeoproterozoic phosphogenesis

Lepland, Aivo; Joosu, Lauri; Kirsimäe, Kalle Nature geoscience 2014 / p. 20-24 : ill <https://doi.org/10.1038/ngeo2005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Protracted post-glacial hydrocarbon seepage in the Barents Sea revealed by U–Th dating of seep carbonates

Himmler, Tobias; Wagner, Doris; Sahy, Diana; Vadakkepuliymbatta, Sunil; Chand, Shyam; **Martma, Tõnu**; Kirsimäe, Kalle; Mattingdal, Rune; Panieri, Giuliana; **Lepland, Aivo** Frontiers in earth science 2024 / art. 1355621, 11 p. : ill <https://doi.org/10.3389/feart.2024.1355621> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reconstruction of Phanerozoic climate using carbonate clumped isotopes and implications for the oxygen isotopic composition of seawater

Thiagarajan, Nivedita; **Lepland, Aivo**; Ryb, Uri; Torsvik, Trond H.; Ainsaar, Leho; Hints, Olle; Eiler, John Proceedings of the National Academy of Sciences of the United States of America 2024 / art. e2400434121 : ill <https://doi.org/10.1073/pnas.2400434121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Redox fluctuations, trace metal enrichment and phosphogenesis in the ~2.0 Ga Zaonega Formation

Kipp, Michael A.; **Lepland, Aivo**; Buick, Roger Precambrian Research 2020 / Art. 105716 <https://doi.org/10.1016/j.precamres.2020.105716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The REE-composition and petrography of apatite in 2Ga Zaonega Formation, Russia: The environmental setting for phosphogenesis

Joosu, Lauri; **Lepland, Aivo**; Kirsimäe, Kalle; Romashkin, Alexander E.; Roberts, Nick M.W.; Martin, Adam P.; Črne, Alenka E. Chemical Geology 2015 / p. 88-107 <https://doi.org/10.1016/j.chemgeo.2014.11.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A refined late-Cryogenian - Ediacaran earth history of South China: Phosphorous-rich marbles of the Dabie and Sulu orogens

Prave, Anthony R.; Meng, Fanwei; **Lepland, Aivo**; Kirsimäe, Kalle; Kreitsmann, Timmu; Jiang, Clancy Zhijian Precambrian research 2018 / p. 166-176 : ill <https://doi.org/10.1016/j.precamres.2017.11.022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review of temporal constraints for the Palaeoproterozoic large, positive carbonate carbon isotope excursion (the Lomagundi–Jatuli Event)

Martin, Adam P.; Condon, Daniel J.; Prave, Anthony R.; **Lepland, Aivo** Earth-Science Reviews 2013 / p. 242 - 261 <https://doi.org/10.1016/j.earscirev.2013.10.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Sequential Leaching Protocol for $\delta^{11}\text{B}$ and Trace Element Analyses of Multi-Phase Carbonate Rocks

Hong, Wei-Li; **Lepland, Aivo**; Cremiere, Antoine; Kirsimäe, Kalle; Stueken, Eva E.; Dumont, Matthew; Block, Heidi E.; Rae, James

W. B. Paleoceanography and Paleoclimatology 2024 / art. e2023PA004658, 22p. : ill <https://doi.org/10.1029/2023PA004658> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Silurian records of carbon and sulfur cycling from Estonia : The importance of depositional environment on isotopic trends

Richardson, Jocelyn A.; Keating, Colin; **Lepland, Aivo**; **Hints, Olle** Earth and planetary science letters 2019 / p. 71-82 : ill <https://doi.org/10.1016/j.epsl.2019.01.055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Soome lahe keskkonnaseisundi hinnang lähtuvalt merepõhja setetest

Suuroja, Sten; Kask, Andres; Petersell, Valter; Karimov, Mark; **Alliksaar, Tiiu**; Tõnisson, Hannes; **Lips, Urmas**; Lepland, Aivo XXIII aprillikonverents "Eesti maapõue strateegia" : teesid 2015 / lk. 30-32 : ill

Soome lahe merepõhja geoloogilised kaardid merekeskkonna seisundi hindamiseks

Suuroja, Sten; Kask, Andres; Petersell, Valter; Karimov, Mark; **Alliksaar, Tiiu**; Tõnisson, Hannes; **Lips, Urmas**; Lepland, Aivo XXIV aprillikonverents "Maapõuekasutus ja keskkonnahoid" : teesid 2016 / lk. 46-47 : ill

Stratigraphic framework for zechstein carbonates on the utsira high, Norwegian North Sea

Stemmerik, Lars; Blinkenberg, Kasper H.; Gianotten, Ingrid P.; Hodgskiss, Malcolm S.W.; **Lepland, Aivo**; **Paiste, Päärn**; Polonio, Israel; Roberts, Nicholas M.W.; Rameil, Niels Journal of Petroleum Geology 2023 / p. 257 - 274 <https://doi.org/10.1111/jpg.12838>

Structural controls on seepage of thermogenic and microbial methane since the last glacial maximum in the Harstad Basin, southwest Barents Sea

Crémière, Antoine; Chand, Shyam; Sahy, Diana; Thorsnes, Terje; **Martma, Tõnu**; Noble, Stephen R.; Pedersen, Jon Halvard; Brunstad, Harald; **Lepland, Aivo** Marine and Petroleum Geology 2018 / p. 569-581 <https://doi.org/10.1016/j.marpetgeo.2018.07.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sulfur isotope mass-independent fractionation in impact deposits of the 3.2billion-year-old Mapepe Formation, Barberton Greenstone Belt, South Africa

Van Zuilen, Mark A.; Philippot, P.; Whitehouse, Martin J.; **Lepland, Aivo** Geochimica et cosmochimica acta 2014 / p. 429-441 : ill <https://doi.org/10.1016/j.gca.2014.07.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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3D modelling of the Onega Basin, northwestern Russia, from gravity and magnetic data and borehole information

Frey, Matthis; Ebbing, Jörg; **Lepland, Aivo** Norwegian journal of geology 2018 / 12 p. : ill <https://dx.doi.org/10.17850/njg98-4-03>

Timescales of methane seepage on the Norwegian margin following collapse of the Scandinavian Ice Sheet

Crémière, Antoine; **Lepland, Aivo**; Chand, Shyam; **Martma, Tõnu** Nature communications 2016 / p. 1-10 : ill <https://doi.org/10.1038/ncomms11509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Two-billion-year-old evaporites capture Earth's great oxidation

Blättler, C.L.; Kirsimäe, Kalle; Kreitsmann, Timmu; **Lepland, Aivo** Science 2018 / p. 320-323 <https://doi.org/10.1126/science.aar2687> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

U-Th chronology and formation controls of methane-derived authigenic carbonates from the Hola trough seep area, northern Norway

Sauer, Simone; Crémière, Antoine; Knies, Jochen; **Lepland, Aivo**; **Martma, Tõnu** Chemical geology 2017 / p. 164-179 : ill <https://doi.org/10.1016/j.chemgeo.2017.09.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

U–Th dating of seep carbonates reveals episodic methane release from the Vestnesa Ridge off west Svalbard over the last ~170,000 years

Himma, T.; Sahy, D.; **Martma, Tõnu**; **Lepland, Aivo** Vinterkonferansen 2019 : Bergen, January 7th-9th, 2019 : NGF abstracts and proceedings of the Geological Society of Norway 2019 / p. 37 https://www.geologi.no/konferanser/vinterkonferanser/item/download/72_6cdecc52529e2c144ddf98991fba2d8f