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Employment

Postdoc

The Geological Survey of Denmark and Greenland (GEUS)
Denmark
1 Jan 2017 → 1 Dec 2017

Postdoc

Stanford University
Stanford, United States
1 Sep 2014 → 1 Dec 2016

Postdoc

Columbia University
New York City, United States
1 Sep 2012 → 1 Aug 2014

Research output

Chromitites from an Archean layered intrusion in the Western Dharwar Craton, southern India

Santosh, M., He, X., Waterton, Pedro, Szilas, Kristoffer & Pearson, D. G., 1 Dec 2020, In : *Lithos*. 376-377, 15 p., 105772.

Geodynamic implications of synchronous norite and TTG formation in the 3 Ga Maniitsoq Norite Belt, West Greenland

Waterton, Pedro, Hyde, W. R., Tusch, J., Hollis, J. A., Kirkland, C. L., Kinney, C., Yakymchuk, C., Gardiner, N. J., Zakharov, D., Olierook, H. K., Lightfoot, P. C. & Szilas, Kristoffer, 22 Sep 2020, In : *Frontiers in Earth Science*. 8, 562062.

Differentiating between inherited and autocrystic zircon in granitoids

Olierook, H. K. H., Kirkland, C. L., Szilas, Kristoffer, Hollis, J. A., Gardiner, N. J., Steinfeld, A., Jiang, Q., Yakymchuk, C., Evans, N. J. & McDonald, B. J., 1 Aug 2020, (Accepted/In press) In : *Journal of Petrology*.

>2.7 Ga metamorphic peridotites from southeast Greenland record the oxygen isotope composition of Archean seawater

Peters, S. T. M., Szilas, Kristoffer, Sengupta, S., Kirkland, C. L., Garbe-Schönberg, D. & Pack, A., 2020, In : *Earth and Planetary Science Letters*. 544, 116331.

Mesoarchean partial melting of mafic crust and tonalite production during high-T–low-P stagnant tectonism, Akia Terrane, West Greenland

Yakymchuk, C., Kirkland, C., Hollis, J., Kendrick, J., Gardiner, N. & Szilas, Kristoffer, 2020, In : *Precambrian Research*. 105615.

Metasomatic Reactions between Archean Dunite and Trondhjemite at the Seqi Olivine Mine in Greenland

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North Atlantic Craton Architecture revealed by kimberlite-hosted crustal zircons

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Ruthenium isotope vestige of Earth's pre-late-veener mantle preserved in Archaean rocks

Fischer-Gödde, M., Elfers, B., Münker, C., Szilas, Kristoffer, Maier, W. D., Messling, N., Morishita, T., Van Kranendonk, M. & Smithies, H., 2020, In : Nature. 579, 7798, p. 240-244 5 p.

The Mesoarchean Amikoq Layered Complex of SW Greenland: Part 1. Constraints on the PT evolution from igneous, metasomatic and metamorphic amphiboles

Aarestrup, E., Jørgensen, T. R., Armitage, P. E., Nutman, A. P., Christiansen, O. & Szilas, Kristoffer, 2020, In : Mineralogical Magazine.

Titanite petrochronology linked to phase equilibrium modelling constrains tectono-thermal events in the Akia Terrane, West Greenland

Kirkland, C., Yakymchuk, C., Gardiner, N., Szilas, Kristoffer, Hollis, J., Olierook, H. & Steenfelt, A., 2020, In : Chemical Geology. 15 p., 119467.

Two metamorphic gold mineralization events confirmed by Lu-Hf isotope dating of garnet in the Late Archean Storø Au deposit, Nuuk region of SW Greenland

Szilas, Kristoffer, Tusch, J., Herwartz, D. & Fonseca, R. O., 2020, In : Ore Geology Reviews. 121, 103476.

Building Mesoarchean crust upon Eoarchean roots: the Akia Terrane, West Greenland

Gardiner, N. J., Kirkland, C. L., Hollis, J., Szilas, Kristoffer, Steenfelt, A., Yakymchuk, C. & Heide-Jørgensen, H., 2019, In : Contributions to Mineralogy and Petrology. 174, 3, 19 p., 20.

Implications for the origins of Eoarchean ultramafic rocks of the North Atlantic Craton: a study of the Tussaap Ultramafic complex, Itsaq Gneiss complex, southern West Greenland

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Titanian Clinohumite-Bearing Peridotite from the Ulamertoq Ultramafic Body in the 3.0 Ga Akia Terrane of Southern West Greenland

Nishio, I., Morishita, T., Szilas, Kristoffer, Pearson, G., Tani, K., Tamura, A., Harigane, Y. & Guotana, J. M., 2019, In : Geosciences (Switzerland). 9, 4, 21 p., 153.

Pressure–Temperature History of the > 3 Ga Tartoq Greenstone Belt in Southwest Greenland and Its Implications for Archaean Tectonics

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A geochemical overview of mid-Archaean metavolcanic rocks from southwest Greenland

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Archaean chromitites show constant $Fe_3+/\Sigma Fe$ in Earth's asthenospheric mantle since 3.8 Ga

Rollinson, H., Adetunji, J., Lenaz, D. & Szilas, Kristoffer, 2017, In : *Lithos*. 282-283, p. 316-325 10 p.

Hafnium isotope constraints on the origin of Mesoarchaeoan andesites in southern West Greenland, North Atlantic craton

Szilas, Kristoffer, Tusch, J., Hoffmann, J. E., Garde, A. A. & Münker, C., 2017, *Crust-Mantle Interactions and Granitoid Diversification: Insights from Archaean Cratons*. Halla, J., Whitehouse, M. J., Ahmad, T. & Bagai, Z. (eds.). London: Geological Society of London, p. 19-38 20 p. (The Geological Society, London, Special Publications, Vol. 449).

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Sm-Nd and Lu-Hf isotope and trace-element systematics of Mesoarchaeoan amphibolites, inner Ameralik fjord, southern West Greenland

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The geochemical composition of serpentinites in the Mesoarchaeoan Tartoq Group, SW Greenland: harzburgitic cumulates or melt-modified mantle?

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Mesoarchaeal aluminous rocks at Storø, southern West Greenland: New age data and evidence of premetamorphic seafloor weathering of basalts

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Highly depleted cratonic mantle in West Greenland extending into diamond stability field in the Proterozoic

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Remnants of arc-related Mesoarchaeal oceanic crust in the Tartoq Group of SW Greenland

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Origin of Mesoarchaeal arc-related rocks with boninite/komatiite affinities from southern West Greenland

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Gold-hosting supracrustal rocks on Storø, southern West Greenland: Lithologies and geological environment

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