

PUBLICATIONS

Data Repository Items

DRI2025001

Laser-ablation inductively coupled plasma–mass spectrometry analyses of detrital zircon grains from metasedimentary rocks of the Thompson nickel belt, Manitoba (parts of NTS 63O1; 63P5, 12)

by C.G. Couëslan

DRI2025002

Quaternary stratigraphy from the Gillam area, northeastern Manitoba: additional 2022 and 2023 data (NTS 54D5, 7, 8; 64A2)

by M.S. Gauthier and T.J. Hodder

Microsoft® Excel® file supplements:

Gauthier, M.S. 2024: Till-clast–lithology data, Gillam area, northeastern Manitoba (parts of NTS 54C, D, 64A), Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, DRI2024006, Microsoft® Excel® file, 1 appendix.

DRI2025003

Geochemical data of whole-rock samples collected in the 2024 summer from the Lynn Lake greenstone belt, northwestern Manitoba (parts of NTS 64C11–12, 14–16)

by X.M. Yang

DRI2025004

Geochemical data of 737 whole-rock samples from the Lynn Lake greenstone belt, northwestern Manitoba (parts of NTS 64C10–12, 14–16)

by X.M. Yang

Microsoft® Excel® file supplements:

Yang, X.M. 2024: Precise U–Pb zircon age and geochemical constraints on the geodynamic settings of the Falcon Lake intrusive complex and S-type Caddy Lake granite intrusion in the western Superior province, southeastern Manitoba (parts of NTS 52E11, 14); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 49–65.

DRI2025005

Till-matrix geochemistry data from the 2022–2024 field seasons in southeastern Manitoba (parts of NTS 52L, 62P, 63A)

by T.J. Hodder

DRI2025006

Gold and indicator-mineral data derived from glacial sediments (till) in southeastern Manitoba (parts of NTS 52L, M, 62P, 63A)

by T.J. Hodder

Microsoft® Excel® file supplements:

Hodder, T.J. and Lian, O.B. 2024: Reconnaissance-scale Quaternary geology investigations to support lithium exploration in southeastern Manitoba (parts of NTS 52L, M, 62P, 63A); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 200–208.

DRI2025007

Field-based ice-flow-indicator data between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10, 11, 12, 13, 14, 15 and 54M5, 6, 12)

by M.S. Gauthier

Microsoft® Excel® file supplements:

Gauthier, M. S. and Bergen, S. 2024: Quaternary site data, till composition and ice-flow indicators between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10–15, 54M5, 6, 12); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 209–218.

DRI2025008

Whole-rock lithogeochemistry, assay, and Sm-Nd isotope geochemistry for the Armstrong assemblage and spatially associated rocks from the Armstrong and Natawahunan lakes area, central Manitoba (NTS 63P10, 11, 14)

by C.G. Couëslan and J. Janssens

DRI2025009

Whole rock geochemistry results from field work in the Cat Lake–Winnipeg River pegmatite field, southeastern Manitoba (parts of NTS 52L5, 6, 11, 12, 14)

by T. Martins, C. Nambaje and J. Janssens

Microsoft® Excel® file supplements:

Nambaje, C., Martins, T., McFarlane, C.R.M., Kaczmer, M., Rinne, M.L. and Groat, L. 2024: Preliminary results from field investigations in the Cat Lake–Winnipeg River pegmatite field, southeastern Manitoba (parts of NTS 52L5, 6, 11, 12); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 10–26.

DRI2025010

Whole-rock lithogeochemistry for select samples from the northwestern Burntwood Lake area, Kiseynew domain, west-central Manitoba (part of NTS 63N7, 8, 10)

by C.G. Couëslan and J. Janssens

Microsoft® Excel® file supplements:

Couëslan, C.G. and Friesen, M.A. 2024: Bedrock mapping in the northwestern Burntwood Lake area, Kiseynew domain, west-central Manitoba (part of NTS 63N7); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 116–126.

DRI2025011

Whole-rock lithogeochemistry and assays for samples from the Halfway Lake area, Thompson nickel belt, central Manitoba (parts of NTS 63O1, 2)

by C.G. Couëslan and J. Janssens

Microsoft® Excel® file supplements:

Couëslan, C.G. 2023: Logging of archived drillcore and re-interpretation of stratigraphy from the Halfway Lake area, Thompson nickel belt, central Manitoba (parts of NTS 63O1, 2); *in* Report of Activities 2023, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 27–39.

DRI2025012

Whole-rock lithogeochemistry and assays for samples along the eastern margin of the sub-Phanerozoic Thompson nickel belt, central Manitoba (part of NTS 63J3)

by C.G. Couëslan and J. Janssens

Microsoft® Excel® file supplements:

Couëslan, C.G. 2024: Investigation of volcanic rocks along the eastern margin of the sub-Phanerozoic Thompson nickel belt, central Manitoba (part of NTS 63J3); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 104–115.

DRI2025013

Whole-rock lithogeochemistry of samples from the Suwannee River syenite intrusion, west-central Manitoba (part of NTS 64B4)

by C.G. Couëslan, J. Janssens, T. Martins

Microsoft® Excel® file supplements:

Martins, T. and Couëslan, C.G. 2022: Critical minerals scoping study of the Suwannee River syenite intrusion, west-central Manitoba (part of NTS 64B4); *in* Report of Activities 2022, Manitoba Natural Resources and Northern Development, Manitoba Geological Survey, p. 36–41.

DRI2025014

Lithogeochemistry of samples from the Thompson nickel belt, central Manitoba (parts of NTS 63P5, 12; 63O8)

by C.G. Couëslan and J. Janssens

DRI2025017

Gold, rare element and other indicator-mineral data derived from glacial sediments (till) in between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10–15, 54M5, 6, 12)

by M.S. Gauthier

Microsoft® Excel® file supplements:

Gauthier, M. S. and Bergen, S. 2024: Quaternary site data, till composition and ice-flow indicators between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10–15, 54M5, 6, 12); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 209–218.

Gauthier, M. S. 2025: Field-based ice-flow–indicator data between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10, 11, 12, 13, 14, 15 and 54M5, 6, 12); Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, Data Repository Item DRI2025007, Microsoft® Excel® file.

DRI2025015

Geochemistry from the File Lake and Wekusko Lake area (parts of NTS 63K16, 63J13)

by K.D. Reid

Microsoft® Excel® file supplements:

Reid, K.D. 2024: Geochronological update of sedimentary, volcanic and plutonic rocks in the Snow Lake area, north-central Manitoba (parts of NTS 63J13, 63K16); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 92–97.

DRI2025016

Bedrock geochemistry from Wekusko Lake and Niblock Lake (parts of NTS 63J13, 14)

by K.D. Reid

Microsoft® Excel® file supplements:

Reid, K.D. 2023: Geological investigations in the areas of Niblock Lake and Crowduck Bay (Wekusko Lake), north-central Manitoba (parts of NTS 63J13, 14); *in* Report of Activities 2023, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 64–72.

DRI2025018

Whole rock geochemistry from wall rock and Li-bearing pegmatites from the Cat Lake-Winnipeg River pegmatite field, southeastern Manitoba (parts of NTS 52L6, 11)

by T. Martins, S. Chinaglia and J. Janssens

DRI2025019

Bedrock geochemical data from the Bird River domain, southeastern Manitoba (parts of NTS 52L5, 6, 11, 12)

by M.L. Rinne and T. Martins

Microsoft® Excel® file supplements:

Nambaje, C., Martins, T., McFarlane, C.R.M., Kaczmer, M., Rinne, M.L. and Groat, L. 2024: Preliminary results from field investigations in the Cat Lake–Winnipeg River pegmatite field, southeastern Manitoba (parts of NTS 52L5, 6, 11, 12); *in* Report of Activities 2024, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 10–26.

Martins, T., Rinne, M.L., Breasley, C. and Adediran, H. 2023: Preliminary results from field investigations in the Bird River domain of the Archean Superior province, Manitoba (parts of NTS 52L5, 6, 11, 12); *in* Report of Activities 2023, Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, p. 4–13.

DRI2025020

Whole rock geochemistry results from Cretaceous outcrops along the Vermillion River and drill cuttings from an oil well, southwestern Manitoba (parts of NTS 62F11 and 62K16)

by M.P.B. Nicolas and J.D. Bamburak

DRI2025021

Rock Volatiles Stratigraphy data from drill cuttings from four oil wells in southwestern Manitoba (parts of NTS 62K6, 7, 11)

by M.P.B. Nicolas, C.M. Smith and M.P. Smith

Microsoft® Excel® file supplements:

Nicolas, M.P.B., Smith, C.M. and Smith, M.P. 2025: Effects of drill-cutting size and age on the reliability of measuring helium and other volatiles in samples, southwestern Manitoba (parts of NTS 62K6, 7, 11); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 110–119.

DRI2025022

Lithogeochemistry of Precambrian core samples from beneath the Williston Basin, southwestern Manitoba (parts of NTS 62G, J, K, O, 63B, C, G, K)

by M.P.B. Smith, D. Coutts and O.H. Ardakani

Microsoft® Excel® file supplements:

Nicolas, M.P.B., Coutts, D. and Ardakani, O.H. 2025: Preliminary investigation into the natural hydrogen generation potential of Precambrian rocks beneath the Williston Basin, southwestern Manitoba (parts of NTS 62G, J, K, O, 63B, C, G, K); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 104–109.

DRI2025023

Lithogeochemistry of the Duperow Formation in the Manitoba Potash Corporation core at 3-29-20-29W1, southwestern Manitoba (part of NTS 62K11)

by P.E. Fraino

Microsoft® Excel® file supplements:

Fraino, P.E. 2025: Pilot study of lithium concentrations in mudstone intervals from the Manitoba Potash Corporation core at 3-29-20-29W1, southwestern Manitoba (part of NTS 62K11); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 128–134.

DRI2025024

Whole-rock lithogeochemistry and assays for samples collected from archived drillcore east of Stephens Lake, northeastern Manitoba (parts of NTS 54C, D)

by J. Macdonald

Microsoft® Excel® file supplements:

Macdonald, J. 2025: Preliminary observations and whole-rock geochemistry of archived drillcore east of Stephens Lake, northeastern Manitoba (parts of NTS 54C, D); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 73–86.

DRI2025025

2024 granular-aggregate field visits—Quaternary site data, sample composition and ice-flow indicators—in southern Manitoba (parts of NTS 62H7, 10, 15, 16, 62I2, 6)

by M.S. Gauthier

Microsoft® Excel® file supplements:

Gauthier, M.S. 2025: Complex Quaternary geology around Grunthal, south-central Manitoba (parts of NTS 62H7); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 181–190.

DRI2025026

Oil and water analysis for one sample of produced fluid, Manson oil field, southwestern Manitoba (part of NTS 62K3)

by P.J. Fulton-Regula

Microsoft® Excel® file supplements:

Fulton-Regula, P.J. 2025: Critical minerals in oil and produced water, Manson oil field, southwestern Manitoba (parts of NTS 62F14, 15, K2, 3); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 155–161.

DRI2025028

Sieve and geochemical analyses data from samples of the Winnipeg Formation in southern Manitoba (parts of NTS 62H, P)

by V.L. Markstrom

Microsoft® Excel® file supplements:

Markstrom, V.L. 2025: Geochemistry of the Carman Sand and lower unit sand of the Winnipeg Formation, southern Manitoba (parts of NTS 62H, P); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 120–127.

DRI2025029

Whole-rock lithogeochemistry and assays for drillcore samples from the Halfway Lake area, Thompson nickel belt, central Manitoba (parts of NTS 63O1, 2)

by C.G. Couëslan

Microsoft® Excel® file supplements:

Couëslan, C.G. 2025: Lithogeochemistry and isotopic analyses of rocks from the Halfway Lake area, Thompson nickel belt, central Manitoba (parts of NTS 63O1, 2); *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 33–47.

DRI2025030

Till geochemistry in between the North Knife River and the Seal River, and in the Gross Lake area, far northeastern Manitoba (parts of NTS 54L10–15, 54M5, 6, 12)

by M.S. Gauthier

DRI2025031

Gamma-ray spectrometric data of granitoid rocks and related rocks from the terrane boundary zone between the Bird River and Winnipeg River domains, southeastern Manitoba (parts of NTS 52L3–6, 62I8)

by X.M. Yang, D.R. Lentz and T. Martins

Microsoft® Excel® file supplements:

Yang, X.M., Lentz, D.R. and Martins, T. 2025: Unveiling high-heat–production granites in the terrane boundary zone between the Bird River and Winnipeg River domains, southeastern Manitoba (parts of NTS 52L3–6, 62I8): a gamma-ray spectrometry approach; *in* Report of Activities 2025, Manitoba Business, Mining, Trade and Job Creation, Manitoba Geological Survey, p. 7–19.

GeoFiles

GeoFile 4-2024

Compilation on lithogeochemistry from Precambrian rocks in Manitoba
by Manitoba Geological Survey

GeoFile 8-2024

Manitoba till-matrix geochemistry compilation: visible gold grains in the heavy mineral (<2 mm) size fraction
by M.S. Gauthier

GeoFile 7-2025

Manitoba till-matrix geochemistry compilation: total carbonate of the silt plus clay (<63 µm) size-fraction
by M.S. Gauthier

GeoFile 8-2025

Manitoba till-matrix geochemistry compilation: visible gold grains in the heavy mineral (<2 mm) size fraction
by M.S. Gauthier

GeoFile 2-2025

Manitoba till-matrix geochemistry compilation: silt plus clay (<63 µm) size fraction by inductively coupled plasma–mass spectrometry after an aqua-regia or modified aqua-regia digestion
by M.S. Gauthier

Open Files

OF2024-3

The Tanco pegmatite: geological setting, internal zonation, mineralogy and mining of a world-class rare-element pegmatite deposit
by T. Martins, C. Breasley, L. Groat, R. Linnen, C. Deveau and S. Rankmore

OF20254-5

Palynological analyses of submill sediments from eleven sites in the western Hudson Bay Lowland region of Manitoba (parts of NTS 54B, 54C, 54E, 54F)
by A.S. Dalton, S.A. Finkelstein, T.J. Hodder and M.S. Gauthier

OF2025-1

Quaternary site, till composition and ice-flow indicator data for the Little Churchill to Churchill rivers area, northeastern Manitoba (part of NTS 54E)
by T.J. Hodder and M.S. Gauthier

OF2025-2

Quaternary site, till composition and ice-flow indicator datasets in the Nelson River Estuary–Black Duck River area, northeastern Manitoba (parts of NTS 54A, B, C, F)
by T.J. Hodder and M.S. Gauthier

EXTERNAL PUBLICATIONS

- Breasley, C.M., Martins, T., Linnen, R. L. and Groat, L.A. in press: Compositional evolution of tourmalines and exploration implications in the petalite subtype Prof pegmatite, Revelstoke, British Columbia, Canada; Canadian Journal of Mineralogy and Petrology.
- Breasley, C.M., Martins, T., Linnen, R. L., Deveau, C., Groat, L. Al., Koopmans, L., Landry, E. and Moser, D. 2025: The geochemistry, origins and metallurgical implications of different textural types of spodumene-quartz intergrowths (SQUI) from the Tanco pegmatite, Manitoba, Canada; Ore Geology Reviews, URL <<https://doi.org/10.1016/j.oregeorev.2025.106577>>.
- Cawood, T.K., Beyer, S., and Martins, T. 2025: How to form large LCT pegmatites: Clues from the western Superior Province of Canada; Society of Geology Applied to Mineral Deposits biennial meeting, August 3–7, 2025, Colorado, USA, abstract and oral presentation.
- Cardenas-Vera, A., Santos, A.C., Bravo, J., Annesley, I.R., Martins, T. and Partin, C.A. 2025: A synthesis of known pegmatite fields in the Wollaston Domain and their REE potential, northern Saskatchewan: what we know and what we aim to know; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Chinaglia, S., Miles, A., Martins, T., Goodenough, K. and Groat, L. 2025: Multi-Stage Fluid Alteration of the Agua Santa Pegmatite (Brazil): Implications for Mineral Zonation and Exploration; Society of Economic Geologists (SEG) conference, September 26–29, 2025, Brisbane, Australia, Abstract and poster presentation.
- Chingalia, S., Miles, A., Martins, T., Goodenough, K., and Groat, L. 2025: Insights into the magmatic and metasomatic evolution of the Eagle pegmatite (Manitoba, Canada) from textural analyses; Volcanic and Magmatic Studies Group– Mineral Deposits Studies Group, first joint conference, January 5–9, 2025, Dublin, Ireland, abstract and poster presentation.
- Couëslan, C., Martins, T., Chakhmouradian, A., Hnatiuk and T., Friesen, M. 2025: The Trans-Hudson alkaline-carbonatite suite: An alkaline-carbonatite province in the Reindeer zone of Manitoba; Prospectors and Developers Association of Canada, annual convention, March 2–5, 2025, Toronto, Ontario, presentation.
- Couëslan, C., Chakhmouradian, A., Martins, T., Hnatiuk, T., Friesen, M. and Böhm, C. 2025: The Trans-Hudson alkaline-carbonatite suite: An alkaline-carbonatite province in the Reindeer Zone of Manitoba; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Dias, F., Ribeiro, R., Gonçalves, F., Lima, A., Roda-Robles, E. and Martins, T. in press: K-Feldspar geochemistry as an indicator of lithium mineralization in the B Barroso–Alvão Aplite-Pegmatite Field, Northern Portugal; Canadian Journal of Mineralogy and Petrology.
- Fraino, P. E. and Nicolas, M.P.B. 2025: Carbonate-Evaporite Cycles in the Upper Devonian Duperow Formation: A Geological Framework for Lithium Brine Resource Assessment in Southwestern Manitoba; Canadian Energy Geoscience Association–Canadian Society of Exploration Geophysicists Annual Convention (Geoconvention 2025), May 12–14, 2025, Calgary, Alberta.
- Gauthier, M. S., Hodder, T. J., Hathaway, J., Ross, M., Schaarschmidt, M., Lian, O. B. and Finkelstein, S. A. in press: Extending the western Hudson Bay Lowland Quaternary stratigraphy, in Manitoba Canada, to at least Marine Isotope Stage 10; Canadian Journal of Earth Sciences.
- Gauthier, M. S., Hodder, T. J., Dalton, A. S., Brewer, V., Lian, O. B., Finkelstein, S. A., Schaarschmidt, M. and Merghetti, A. 2025: South-central Laurentide Ice Sheet dynamics and the formation of proglacial Lake Vita during MIS 3; Quaternary Research, v. 123, p. 83–105, URL <<https://doi.org/10.1017/qua.2024.34>>.
- Groat, L.A., Martins, T. and Linnen, R. 2025: Lithium Resources in Canada; 2025 Goldschmidt Conference, July 6–11, 2025, Prague, Czech Republic, abstract and poster presentation.
- Martins, T. 2025: Impact of the TGI programs for the advancement of geological knowledge in Manitoba; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, oral presentation.
- Martins, T., McFarlane, C.R.M., Nambaje, C., Roush, J. and Groat, L.A. 2025: Voluminous lithium mineralization in the Cat Lake-Winnipeg River pegmatite field, Manitoba, Canada: insights for its origin and tectonic processes; Goldschmidt Conference, July 6–11, 2025, Prague, Czech Republic, abstract and poster presentation.

- McFarlane, C.R.M., Roush, J. and Martins, T. 2025: The role of garnet in LCT pegmatite petrogenesis; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Nambaje, C., McFarlane, C.R.M., Martins, T. Roush, J. and Groat, L.A. 2025: Exploration of rare-element pegmatites: Insights from the Cat Lake-Winnipeg River pegmatite field, Manitoba, Canada; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Nicolas, M.P.B. 2025: Geologic hydrogen potential mapping in Manitoba’s sedimentary basins; Canadian Energy Geoscience Association–Canadian Society of Exploration Geophysicists Annual Convention (Geoconvention 2025), May 12–14, 2025, Calgary, Alberta, oral presentation and extended abstract.
- Nicolas, M.P.B., Smith, C. and Smith, M. 2025: Understanding the subsurface helium system in Manitoba and evaluating the potential for economic concentrations by analysing entrained volatiles in legacy cuttings; Rocky Mountain Association of Geologists, North American Helium and Hydrogen Conference 2025, April 9-10, 2025, Denver, Colorado, oral presentation and abstract volume.
- Nicolas, M.P.B., Smith, C. and Smith, M. 2025: Understanding the subsurface helium system in Manitoba and evaluating the potential for economic concentrations by analysing entrained volatiles in legacy cuttings; Canadian Society of Exploration Geophysicists Annual Convention (Geoconvention 2025), May 12–14, 2025, Calgary, Alberta, oral presentation and extended abstract.
- Parsa, M., Lawley, C. J. M., Cawood, T., Martins, T., Cumani, R., Zhang, S.E., Thompson, A., Schetselaar, E, Beyer, S., Lentz, D.R., Harris, J., Fam, H. J. A. and Voinet, A. 2025: Pan-Canadian Predictive Modeling of Lithium-Cesium-Tantalum Pegmatites with Deep Learning and Natural Language Processing; Natural Resources Research, v.34, p. 639–668, URL < <https://doi.org/10.1007/s11053-024-10438-x>>.
- Pastula, C., Partin, C.A., McDonald, B., Hodder, T. and Martins, T. 2025: Using whole rock geochemistry and detrital zircon U-Pb geochronology of the Omarolluk Formation of Nunavut and omars of Manitoba to test the ‘omar hypothesis’; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Roda-Robles, E, Garate-Olave, I., Lima, A., Martins, T., Santos-Loyola, N. and Errandonea-Martin, J. 2025: From igneous to hydrothermal stages: Lithium mineralization types in the Central Iberian Zone (Spain & Portugal) and its implications for the European Variscan Belt; Goldschmidt Conference, July 6–11, 2025, Prague, Czech Republic, abstract and keynote presentation.
- Roush, J., McFarlane, C.R.M., Martins and Groat, L.A. 2025: Monazite and holmquistite from host rock at the Eagle Pegmatite, Cat Lake pegmatite field, southeastern Manitoba – Evidence of exsolved pegmatitic fluids and metasomatism; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and poster presentation.
- Santos, A.C., Cardenas-Vera, A., Bravo, J., Annesley, I.R., Martins, T. and Partin, C.A. 2025: Towards understanding enrichment mechanisms of REE-bearing pegmatites at Fraser Lakes Zone B and Kulyk Lake in northern Saskatchewan, Canada; Geological Association of Canada–Mineralogical Association of Canada, annual meeting 2025, May 11–14, 2025, Ottawa, Ontario, abstract and oral presentation.
- Silva, D., Groat, L.A., Martins, T. and Linnen, R. 2025: Unusual K/Rb and Li-Rb-Cs trends in muscovite and feldspars indicate multi-stage anatexis origin for pegmatites in the Wekusko Lake pegmatite field, central Manitoba, Canada; Goldschmidt Conference, July 6–11, 2025, Prague, Czech Republic, abstract and oral presentation.
- Silva, D., Groat, L. Martins, T. and Linnen, R. 2025: Magmatic and tectonic controls on crystal fabric in spodumene-rich pegmatites: a case study from Wekusko Lake, Manitoba, Canada; Volcanic and Magmatic Studies Group– Mineral Deposits Studies Group, first joint conference, January 5–9, 2025, Dublin, Ireland, abstract and oral presentation.
- Strong, J.W.D., Couëslan, C.G., McFarlane, C.R.M., Ross, K., Marsh, J., Simmons, J. and Thurston, P. 2025: Crustal reworking and Eo-Paleoarchean metamorphism of the northern Pikwitonei domain, Superior Province: U-Pb-Hf-TE analysis of 3.9–3.2 Ga detrital zircon; Chemical Geology, v. 690, art. 122886, URL <<https://doi.org/10.1016/j.chemgeo.2025.122886>>.
- Yang, X.M. 2025: Fertility of gabbroic intrusions in the Paleoproterozoic Lynn Lake Greenstone Belt, Manitoba, Canada: Insights from field relationships, geochemical and metallogenic characteristics; Minerals, v. 15, art. 448, URL <<https://doi.org/10.3390/min15050448>> [May 2025].

- Yang, X.M., Lentz, D.R., Yousefi, F. and Lawley, C.J.M. 2025: Linking Alkali-Lime Index (ALI) to Rittmann Serial Index (s): Insights into magmatic alkalinity and petrogenesis of alkaline rocks [abstract]; Geological Association of Canada–Mineralogical Association of Canada, Joint Annual Meeting, Ottawa, Ontario, May 11–14, 2025, program with abstracts, oral presentation; Geoscience Canada, v. 52, p. 261, URL <<https://doi.org/10.12789/geocanj.2025.52.223>> [September 2025].
- Yousefi, F., Lentz, D.R. and Yang, E. 2025a: Geochemical Characteristics of Pantellerite and Comendite: Insights into petrogenesis and metallogenesis of peralkaline A-type granites with implications for their sources [abstract]; Geological Association of Canada–Mineralogical Association of Canada, Joint Annual Meeting, Ottawa, Ontario, May 11–14, 2025, Program with Abstracts, oral presentation; Geoscience Canada, v. 52, p. 263, URL <<https://doi.org/10.12789/geocanj.2025.52.223>> [September 2025].
- Yousefi, F., Lentz, D.R. and Yang, X.M. 2025b: Petrogenesis and geochemical features of peralkaline A-type granites: reconciling insights from comendite and pantellerite - peralkaline rhyolitic systems [abstract]; Goldschmidt 2025 Conference, Prague, the Czech Republic, July 6–11, 2025, program with abstracts, poster presentation, URL <<https://conf.goldschmidt.info/goldschmidt/2025/meetingapp.cgi/Paper/29781>> [August 2025].