

# PUBLICATIONS

## Data Repository Items

DRI2012001 (re-release)

Whole-rock geochemistry of the Burntwood Lake alkali-feldspar syenite, west-central Manitoba (part of NTS 63N8)

by T. Martins

*Microsoft® Excel® file supplements:*

Martins, T., Couëslan, C.G. and Böhm, C.O. 2011: The Burntwood Lake alkali-feldspar syenite revisited, west-central Manitoba (part of NTS 63N8); *in* Report of Activities 2011, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 79–85.

DRI2017004 (re-release)

Whole-rock and mineral geochemistry as exploration tools for rare-element pegmatite in Manitoba: examples from the Cat Lake–Winnipeg River and Wekusko Lake pegmatite fields (parts of NTS 52L6, 63J13)

by T. Martins and R.L. Linnen

*Microsoft® Excel® file supplements:*

Martins, T., Linnen, R.L., Fedikow, M.A.F. and Singh, J. 2017: Whole-rock and mineral geochemistry as exploration tools for rare-element pegmatite in Manitoba: examples from the Cat Lake–Winnipeg River and Wekusko Lake pegmatite fields (parts of NTS 52L6, 63J13); *in* Report of Activities 2017, Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, p. 42–51.

DRI2018001 (re-release)

Kimberlite-indicator–mineral data derived from glacial sediments (till) in the Kaskattama highland area of northeastern Manitoba (parts of NTS 53N, O, 54B, C)

by T.J. Hodder

*Microsoft® Excel® file supplements:*

Hodder, T.J. and Kelley, S.E. 2018: Kimberlite-indicator minerals and clast-lithology composition of till, Kaskattama highland region, northeastern Manitoba (parts of NTS 53N, O, 54B, C); *in* Report of Activities 2018, Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, p. 150–165.

DRI2019007 (re-release)

Whole rock geochemistry compilation of the Oxford Lake–Knee Lake greenstone belt, northwestern Superior Province, Manitoba (parts of NTS 53L6, 12–15, 53M2, 63I9, 16)

by S. Anderson and T. Martins

*Microsoft® Excel® file supplements:*

Anderson, S.D., Kremer, P.D. and Martins, T. 2012: Preliminary results of bedrock mapping at Oxford Lake, northwestern Superior Province, Manitoba (parts of NTS 53L12, 13, 63I9, 16); *in* Report of Activities 2012, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 6–22.

Anderson, S.D., Kremer, P.D. and Martins, T. 2013: Preliminary results of bedrock mapping at Oxford Lake, northwestern Superior province, Manitoba (parts of NTS 53L13, 14); *in* Report of Activities 2013, Manitoba Mineral Resources, Manitoba Geological Survey, p. 7–22.

Anderson, S.D., Syme, E.C., Corkery, M.T., Bailes, A.H. and Lin, S. 2015: Preliminary results of bedrock mapping at southern Knee Lake, northwestern Superior province, Manitoba (parts of NTS 53L14, 15); *in* Report of Activities 2015, Manitoba Mineral Resources, Manitoba Geological Survey, p. 9–23.

Anderson, S.D. 2016: Preliminary results of bedrock mapping at central Knee Lake, northwestern Superior province, Manitoba (parts of NTS 53L15, 53M2); *in* Report of Activities 2016, Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, p. 1–15.

Anderson, S.D. 2016: Alkaline rocks at Oxford Lake and Knee Lake, northwestern Superior province, Manitoba (NTS 53L13, 14, 15): preliminary results of new bedrock mapping and litho-geochemistry; *in* Report of Activities 2016, Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, p. 16–27.

Anderson, S.D. 2017: Preliminary geology of the diamond occurrence at southern Knee Lake, Oxford Lake–Knee Lake greenstone belt, Manitoba (NTS 53L15); Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Open File OF2017-3, 27 p.

DRI2020028 (re-release)

Litho geochemistry of drillcore from the Huzyk Creek property, central Manitoba (NTS 63J6)

by C.G. Couëslan

DRI2020029

Compilation of Sm-Nd isotopic results from the Seal River–Great Island area, southeast Hearne craton margin, northern Manitoba (parts of NTS 54L, M, 64I, P)

by C.O. Böhm, S.D. Anderson and E.C. Syme

*Microsoft® Excel® file supplements:*

Anderson, S.D. and Böhm, C.O. 2008: Far North Mapping Initiative: reconnaissance bedrock mapping and sampling of the Great Island Domain, Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2008, Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, p. 144–153.

Anderson, S.D., Böhm, C.O. and Syme, E.C. 2010: Far North Geomapping Initiative: bedrock geological investigations in the Seal River region, northeastern Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2010, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 6–22.

Anderson, S.D., Böhm, C.O. and Syme, E.C. 2010: Precambrian geology of the Seal River region, Manitoba (parts of NTS 54L, M, 64I, P); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2010-1, scale 1:175 000.

Anderson, S.D., Böhm, C.O., Syme, E.C., Carlson, A.R. and Murphy, L.A. 2009: Bedrock geology of the Great Island area, Manitoba (parts of NTS 54L13, 54M4, 64I15, 16, 64P1, 2); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2009-4, scale 1:75 000.

Anderson, S.D., Böhm, C.O., Syme, E.C., Carlson, A.R. and Murphy, L.A. 2009: Far North Geomapping Initiative: geological investigations in the Great Island area, Manitoba (parts of NTS 54L13, 54M4, 64I15, 16, 64P1, 2); *in* Report of Activities 2009, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 132–147.

Rayner, N. 2010: Far North Geomapping Initiative: new U-Pb geochronological results from the Seal River region, northeastern Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2010, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 23–35.

DRI2020030

Whole-rock geochemistry compilation of the Seal River–Great Island area, southeast Hearne craton margin, northern Manitoba (parts of NTS 54L, M, 64I, P)

by C.O. Böhm, S.D. Anderson, E.C. Syme, A.R. Carlson and L.A. Murphy

*Microsoft® Excel® file supplements:*

Anderson, S.D. and Böhm, C.O. 2008: Far North Mapping Initiative: reconnaissance bedrock mapping and sampling of the Great Island Domain, Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2008, Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, p. 144–153.

Anderson, S.D., Böhm, C.O. and Syme, E.C. 2010: Far North Geomapping Initiative: bedrock geological investigations in the Seal River region, northeastern Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2010, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 6–22.

Anderson, S.D., Böhm, C.O. and Syme, E.C. 2010: Precambrian geology of the Seal River region, Manitoba (parts of NTS 54L, M, 64I, P); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2010-1, scale 1:175 000.

Anderson, S.D., Böhm, C.O., Syme, E.C., Carlson, A.R. and Murphy, L.A. 2009: Bedrock geology of the Great Island area, Manitoba (parts of NTS 54L13, 54M4, 64I15, 16, 64P1, 2); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2009-4, scale 1:75 000.

Anderson, S.D., Böhm, C.O., Syme, E.C., Carlson, A.R. and Murphy, L.A. 2009: Far North Geomapping Initiative: geological investigations in the Great Island area, Manitoba (parts of NTS 54L13, 54M4, 64I15, 16, 64P1, 2); *in* Report of Activities 2009, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 132–147.

Rayner, N. 2010: Far North Geomapping Initiative: new U-Pb geochronological results from the Seal River region, northeastern Manitoba (parts of NTS 54L, M, 64I, P); *in* Report of Activities 2010, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 23–35.

DRI2021001

Whole-rock geochemistry results of Bear Lake, Superior province, east-central Manitoba (parts of NTS 53M4, 63P1)

by C.O. Böhm, R.P. Hartlaub and T. Martins

*Microsoft® Excel® file supplements:*

Böhm, C.O. and Hartlaub, R.P. 2006: Bedrock geology of the Bear Lake area, Manitoba (parts of NTS 53M4 and 63P1); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2006-2, scale 1:50 000.

Hartlaub, R.P. and Böhm, C.O. 2006: Preliminary results from geological mapping of the Bear Lake greenstone belt, Manitoba (parts of NTS 53M4 and 63P1); *in* Report of Activities 2006, Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, p. 65–73.

DRI2021002

Whole-rock geochemistry results for Utik Lake, Superior province, east-central Manitoba (parts of NTS 53M4, 5, 63P1, 8)

by C.O. Böhm, P.D. Kremer, E.C. Syme and T. Martins

*Microsoft® Excel® file supplements:*

Böhm, C.O. and Kremer, P.D. 2007: Bedrock geology of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5 and 63P1, 8); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2007-4, scale 1:25 000.

Böhm, C.O., Kremer, P.D. and Syme, E.C. 2007: Nature, evolution and gold potential of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5, 63P1, 8): preliminary field results; *in* Report of Activities 2007, Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, p. 98–113.

DRI2021003

Compilation of Sm-Nd isotope results from Utik Lake, Superior province, east-central Manitoba (parts of NTS 53M4, 5, 63P1, 8)

by C.O. Böhm, P.D. Kremer, E.C. Syme and T. Martins

*Microsoft® Excel® file supplements:*

Böhm, C.O. and Kremer, P.D. 2007: Bedrock geology of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5 and 63P1, 8); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2007-4, scale 1:25 000.

Böhm, C.O., Kremer, P.D. and Syme, E.C. 2007: Nature, evolution and gold potential of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5, 63P1, 8): preliminary field results; *in* Report of Activities 2007, Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, p. 98–113.

DRI2021004

Whole-rock geochemistry of bedrock samples along East Side Road, southeastern Manitoba (parts of NTS 62P1, 7, 8, 10, 15, 63A2, 7)

by M.L. Rinne

*Microsoft® Excel® file supplements:*

Rinne, M.L. 2020: Results of reconnaissance bedrock mapping along East Side Road, southeastern Manitoba (parts of NTS 62P1, 7, 8, 10, 15, 63A2, 7); *in* Report of Activities 2020, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 1–8.

DRI2021005

Compilation of Sm-Nd isotope results from the Manitoba Geological Survey 2020/2021 season

by Manitoba Geological Survey

DRI2021006

Till geochemistry from Manigotagan to Berens River, southeastern Manitoba (parts of NTS 62P1, 7, 8, 10, 15, 63A2, 7)

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

DRI2021007

Till-matrix geochemistry data, Machichi–Kettle rivers area, far northeastern Manitoba (parts of NTS 54A–C)

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

DRI2021008

Compilation of Sm-Nd isotope results and accompanying whole-rock geochemistry (to 2017) for the Trans-Hudson orogen, Manitoba (parts of NTS 63F, J, K, 63N–P, 64A–C, 64F–H)

by Manitoba Geological Survey

DRI2021009

Whole-rock geochemistry results for Sharpe Lake, Superior province, east-central Manitoba (parts of NTS 53K5, 6)

by Manitoba Geological Survey

*Microsoft® Excel® file supplements:*

Beaumont-Smith, C.J., Anderson, S.D., Bailes, A.H. and Corkery, M.T. 2003: Preliminary results and economic significance of geological mapping and structural analysis at Sharpe Lake, northern Superior Province, Manitoba (parts of NTS 53K5 and 6); *in* Report of Activities 2003, Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, p. 140–158.

Corkery, M.T., Beaumont-Smith, C.J., Anderson, S.D. and Bailes, A.H. 2003: Geology of the eastern Sharpe Lake area, Manitoba (NTS 53K6); Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Preliminary Map PMAP2003-5, scale 1:50 000.

Corkery, M.T., Beaumont-Smith, C.J., Anderson, S.D. and Bailes, A.H. 2003: Geology of the western Sharpe Lake area, Manitoba (NTS 53K5); Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Preliminary Map PMAP2003-4, scale 1:50 000.

DRI2021010

Till geochemistry and heavy mineral analyses of the western Fox River greenstone belt area, northeastern Manitoba (NTS 53M15, 16), plus 4 samples from the Gillam area (parts of 54D7, 11)

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

DRI2021011

Whole-rock geochemistry of bedrock samples from the Snyder Lake area, northwestern Manitoba (part of NTS 64N5)

by P.D. Kremer, C.O. Böhm and T. Martins

*Microsoft® Excel® file supplements:*

Kremer, P.D., Böhm, C.O. and Rayner, N. 2011: Far North Geomapping Initiative: bedrock geology of the Snyder Lake area, northwestern Manitoba (part of NTS 64N5); *in* Report of Activities 2011, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 6–17.

DRI2021012

Whole-rock geochemistry results of bedrock samples from the Misty Lake area, Manitoba (parts of NTS 64K12, 13, 64N4)

by P.D. Kremer, A.R. Carlson, C.G. Couëslan and T. Martins

*Microsoft® Excel® file supplements:*

Kremer, P.D., Carlson, A.R. and Couëslan, C. 2010: Far North Geomapping Initiative: geological mapping in the Misty Lake area, Manitoba (parts of NTS 64K12, 13, 64N4); *in* Report of Activities 2010, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 50–61.

DRI2021013

Laser-ablation, multicollector, inductively coupled plasma–mass spectrometry U-Pb isotopic analyses of detrital zircon grains from the Ospwagan group, Setting formation metagreywacke sample 12-04-4462, Setting Lake, central Manitoba (part of NTS 63O2)

by H.V. Zwanzig, C.O. Böhm and C.G. Couëslan

DRI2021015

Litho-geochemistry of drillcore from the Phillips Lake area, and samples from the Paint Lake area, Thompson nickel belt, central Manitoba (NTS 63O1, 8, 63P5)

by C.G. Couëslan

DRI2021016

Lithogeochemistry of iron formation, calcsilicate, marble, and mafic dikes from the Thompson nickel belt, central Manitoba (NTS 63O8, 9, 63P5, 12, 15)

by C.G. Couëslan

DRI2021017

Lithogeochemistry of metasedimentary rocks of uncertain affinity from the Joey Lake area, and Ospwagan group and related rocks, Thompson nickel belt, central Manitoba (NTS 63O8, 9, 63P12)

by C.G. Couëslan

*Microsoft® Excel® file supplements:*

Couëslan, C.G. 2021: Collection of samples for high-resolution detrital-zircon geochronology and lithogeochemistry in the Thompson nickel belt, central Manitoba (parts of NTS 63O8, 9, 63P12); *in* Report of Activities 2021, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 18–28.

DRI2021018

Kimberlite-indicator-mineral data derived from glacial sediments (till) in the Machichi–Kettle rivers area, far northeastern Manitoba (parts of NTS 54A–C)

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

*Microsoft® Excel® file supplements:*

Hodder, T.J. and Gauthier, M.S. 2021: Kimberlite-indicator-mineral results from till sampled in the Machichi–Kettle rivers area, far northeastern Manitoba (parts of NTS 54A–C); *in* Report of Activities 2021, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 77–83.

DRI2021019

Updates to the Manitoba Mineral Deposits Database, east-central Manitoba (NTS 53E, F)

by M.L. Rinne

*Microsoft® Excel® file supplements:*

Rinne, M.L. 2021: Updates to the Manitoba Mineral Deposits Database, east-central and northwestern Manitoba (NTS 53E, F, 64J, K, N, O); *in* Report of Activities 2021, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 1–7.

DRI2021020

Kimberlite-indicator-mineral data derived from glacial sediments (till) in the Russell–McCallum lakes area of northwestern Manitoba (parts of NTS 64C3–6)

by T.J. Hodder

*Microsoft® Excel® file supplements:*

Hodder, T.J. 2019: Till sampling and ice-flow mapping in the Russell–McCallum lakes area, northwestern Manitoba (parts of NTS 64C3–6); *in* Report of Activities 2019, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 90–96.

## Database

Lynn Lake Bedrock Compilation Map Database

by Manitoba Agriculture and Resource Development

Includes maps in PDF of the following areas:

- Barrington Lake, Manitoba (NTS 64C16)
- Cockeram Lake, Manitoba (NTS 64C15)
- Fraser Lake, Manitoba (NTS 64B13)
- Laurie Lake, Manitoba (NTS 64C12)

- Lynn Lake, Manitoba (NTS 64C14)
- McGavock Lake, Manitoba (NTS 64C11)
- McMillan Lake, Manitoba (NTS 64C13)
- Sickle Lake, Manitoba (NTS 64C10)

## Geoscientific Maps

MAP2021-1

Bedrock topography of southern Manitoba

by G.R. Keller and G.L.D. Matile (scale 1:1 000 000)

MAP2021-2

Drift thickness of southern Manitoba

by G.R. Keller and G.L.D. Matile (scale 1:1 000 000)

## Geoscientific Reports

GR2020-1

Geology of the Cat Creek–Euclid Lake area, Bird River greenstone belt, southeastern Manitoba (parts of NTS 52L11, 12)

by X.M. Yang and M.G. Houlé

GR2021-1

Bedrock geology of the central Sipiwesk Lake area, Pikwitonei granulite domain, central Manitoba (part of NTS 63P4)

by C.G. Couëslan

## Open File

OF2021-1

Manitoba radiocarbon ages: update

by M.S. Gauthier

## Preliminary Maps

PMAP2021-1

Bedrock geology of the Stuart Bay–Chickadee Lake area (east of Wekusko Lake), north-central Manitoba (parts of NTS 63J12, 13)

by K.D. Reid (scale 1:15 000)

PMAP2021-2

Bedrock geology of the Ralph Lake area, Lynn Lake greenstone belt, northwestern Manitoba (parts of NTS 64C14)

by X.M. Yang (scale 1:10 000)

## EXTERNAL PUBLICATIONS

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- Benn, D., Linnen, R. and Martins, T. in press: Evaluating white mica as an indicator mineral for Lithium bearing pegmatites, Wekusko Lake pegmatite field, Manitoba Canada; *in Targeted Geoscience Initiative 5: grant program final reports (2018-2020)*, Geological Survey of Canada, Open File 8755.
- Bute, S.I., Yang, X., Yang, X., Girei, M.B., Kayode, A.A. and Lu, Y. 2021: Geochemistry, zircon U-Pb ages and Hf isotopes of granites and pegmatites from Gubrunde region in the eastern Nigeria Terrane: insight into magmatism and tectonic evolution of the late Pan-African orogeny; *Geochemistry*, v. 81, art. 125809, URL <<https://doi.org/10.1016/j.chemer.2021.125809>>.
- Chen, F., Cui, X., Lin, S., Wang, J., Yang, X., Ren, G. and Pang, W. 2021: The 1.14 Ga mafic intrusions in the SW Yangtze block, south China: records of late Mesoproterozoic intraplate magmatism; *Journal of Asian Earth Sciences*, v. 205, art. 104603, URL <<https://doi.org/10.1016/j.jseaes.2020.104603>>.
- Fabre, C., Ourti, N.E., Mercadier, J., Cardoso-Fernandes, J., Dias, F., Perrotta, M., Koerting, F., Lima, A., Kaestner, F., Koellner, N., Linnen, R., Benn, D., Martins, T. and Cauzid, J. 2021: Analyses of Li-rich minerals using handheld LIBS Tool; *Data*, v. 6, no. 6, p. 68, URL <<https://doi.org/10.3390/data6060068>>.
- Hodder, T.J., Gauthier, M.S., Ross, M. and Lian, O.B. 2021: New stratigraphic and chronological constraints in western Hudson Bay Lowland, Canada, and their implications for the Laurentide Ice Sheet evolution; *Geological Society of America, Annual Meeting*, October 10–13, 2021, Portland, Oregon, Abstracts with Programs.
- Kilmury, A.A., Brink, K.S. and Nicolas, M.P.B. 2021: Chrono-, chemo-, litho-, cyclo-, and biostratigraphy of the Late Cretaceous Manitoba escarpment in Saskatchewan and Manitoba, Canada; *Geological Society of America Connects 2021*, October 10–13, 2021, Oregon, Portland, poster presentation.
- Kilmury, A.A., Brink, K.S. and Nicolas, M.P.B. 2021: Chrono-, chemo-, litho-, cyclo-, and biostratigraphy of the Late Cretaceous Manitoba escarpment in Saskatchewan and Manitoba, Canada; *Geological Society of America, Joint 55<sup>th</sup> annual North-Central/South-Central Section Meeting*, April 18–20, 2021, virtual event, poster presentation, URL <<http://dx.doi.org/10.1130/abs/2021NC-362757>>.
- Mohammadi, N., Lentz, D.R., McFarlane, C.R.M. and Yang, X.-M. 2021: Biotite composition as a tool for exploration: an example from Sn-W-Mo-bearing Mount Douglas granite, New Brunswick, Canada; *Lithos*, v. 382-383, art. 105926, URL <<https://doi.org/10.1016/j.lithos.2020.105926>>.
- Nicolas, M.P.B. 2021: A sedimentary geologist's journey from petroleum to critical minerals; *Women in Mining, Winnipeg Chapter lunch series*, October 19, 2021, oral presentation.
- Nicolas, M.P.B. 2021: Helium and lithium brine potential of Manitoba, Canada; *IMAGE '21: International Meeting for Applied Geoscience & Energy*, September 26–October 1, 2021, Denver, Colorado, Technical Program, poster presentation.
- Nicolas, M.P.B., Yurkowski, M. and Branscombe, P. 2021: Critical minerals: endowment and future growth in three provinces; *Reservoir Magazine, Canadian Society of Petroleum Geologists*, September/October 2021, issue 5, p. 34–35.
- Yang, X.M. 2021: Estimating crystallization pressure(s) of granites: analysis of equilibrium, consideration of redox, textural aspects, emplacement processes with implications for metallogenesis; *General Annual Meeting of the Volcanology and Igneous Petrology Division, Geological Association of Canada*, May 27, 2021, URL <[https://www.youtube.com/watch?v=fOq8DPbNFz8&t=2259s&ab\\_channel=GACVIP](https://www.youtube.com/watch?v=fOq8DPbNFz8&t=2259s&ab_channel=GACVIP)> [June 2021].
- Yang, X.M., Lentz, D.R. and Chi, G. 2021: Ferric-ferrous iron oxide ratios: effect on crystallization pressure of granites estimated by Qtz-geobarometry; *Lithos*, v. 380–381, art. 105920, URL <<https://doi.org/10.1016/j.lithos.2020.105920>>.
- Zhao, Y., Lin, S., Zhang, P., Yang, X., Gu, Y., Bi, Z. and Kou, L. 2021: Geochronology and geochemical characteristics of Paleoproterozoic syn-orogenic granitoids and constraints on the geological evolution of the Jiao-Liao-Ji orogenic Belt, North China Craton; *Precambrian Research*, v. 365, art. 106386, URL <<https://doi.org/10.1016/j.precamres.2021.106386>>.