James Morfey Scott

EMPLOYMENT

2024 – *Associate Professor*, Aarhus University
2024 – *Honorary Professor*, University of Otago, New Zealand
2022 – 2024 *Professor,* University of Otago, New Zealand
2022 – 2024 *Alexander von Humboldt Experienced Researcher,* Universität zu Köln
2019 – 2022 *Associate Professor,* University of Otago, New Zealand
2017 – 2019 *Senior Lecturer,* University of Otago, New Zealand
2014 – 2017 *Lecturer,* University of Otago, New Zealand
2011 – 2013 *Post-doctoral fellow*, Foundation for Research Science and Technology, NZ
2010 – 2011 *Exploration geologist*, Oceana Gold, NZ
2009 – 2010 *Post-doctoral fellow*, Universität Potsdam, Germany
2008 – 2008 *Exploration geologist*, Pacific Porphyry, Solomon Islands
2005 – 2008 *PhD*, University of Otago, New Zealand (conferred 1 May 2009)
2001 – 2004 *BSc (1st Class Honours)*, University of Otago, New Zealand

LEADERSHIP ROLES

2024 – *Director of the Nordic Fireball Network***,** Denmark's meteor camera network
2022 – *Director of Fireballs Aotearoa*, New Zealand's meteor camera network
2022 – *Editor-in-Chief*, New Zealand Journal of Geology and Geophysics
2022 – *Editorial Advisory Board member*, Journal of Metamorphic Geology
2022 – *Editorial Advisory Board member*, Journal of Petrology
2019 – 2021 *President*, Geoscience Society of New Zealand
2017 – 2021 *Committee Member*, Geoscience Society of New Zealand
2017 – 2018 *President,* Otago Institute for the Arts and Sciences, NZ
2016 – 2020 *Committee Member, Secretary*, Otago Institute for the Arts and Sciences, NZ

AWARDS

2024 *Bright Star Award, Royal Astronomical Society of New Zealand*
2021 *Excellence in Teaching Award, University of Otago*
2019 *Exceptional Reviewer Award, Lithosphere*
2017 *University of Otago Early Career Award for Distinction in Research, U. of Otago*
2017 *Division of Sciences Early Career Teacher of the Year, University of Otago*
2014 *Division of Sciences Postgraduate Supervisor of the Year, University of Otago*
2014 *Division of Sciences Postgraduate Top 10 Superviser, University of Otago*

FUNDING

(PI, primary investigator; AI, associate investigator)

2024 *Perpetual Guardian Endowment Fund*. PI. 160,000 dkk equivalent
2022 *Alexander von Humboldt Experienced Researcher Fellowship*. PI. 700,000 dkk
2022 *Ministry for Business Innovation and Employment PSP***.** PI. 80,000 dkk
2019, 2018, 2017, 2016, 2015, 2014 *University of Otago Research Grants*. PI, 1,500,000 dkk total
2019 *Ministry of Business Innovation and Employment* AI 20,000,000 dkk
2018 *Marsden Fund.* AI, 4,000,000 dkk
2018 *Australian Synchrotron*. PI. 30,000 dkk
2016 *Committee for the Advancement of Learning and Teaching* PI, 80,000 dkk
2016 *GNS Science sub-contract.* PI, 80,000 dkk
2014 *Ministry of Business Innovation and Employment*. AI 20,000,000 dkk

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SERVICE

2009 – Journal reviewer for: *American Mineralogist; Australian Journal of Earth Science; Basin Research; Cretaceous Research; Earth and Planetary Science Letters; Economic Geology; Geology; Geochemica et Cosmochimica Acta; Geological Society London; Geosphere; Journal of Geology; Journal of Metamorphic Geology; Journal of Petrology; Journal of Structural Geology; Lithos; Lithosphere; NZ J Geology and Geophysics; Ore Geology Reviews; Mineralogy and Petrology; Mineralium Deposita; AUSIMM monograph*

2024 *External Reviewer,* professorial position at Goethe Universität, Mainz

2021 - 2022 *Coordinator of revision to Otago GEOL Minor and all undergraduate papers*

2020 - 2022 *Outreach Coordinator for the Otago Geology Department.*

2019 *Compiler of the Otago Geology Department 6-yearly self-review*

2019 *Division of Sciences Strategic Planning Teaching Imperatives*

2016 *External evaluator of the Canterbury University Earth Science program*

2016, 2017, 2023 Reviewer for *National Science Foundation* grant (USA)

2016 Reviewer for *Natural Sciences and Engineering Research Council of Canada* grant

2014, 2020, 2021 *Panelist, University of Otago Research Grant Physical Science* panel

STUDENT PROJECTS MENTORED (active)

Post-doctoral	PhD	MSc	BSc Hons	Bachelor and summer students
3	**11 (1)**	**15 (2)**	**32**	**31 (5)**

PUBLICATIONS

h-index = 32; Google Scholar; i10-index = 65)

Journal articles	Popular Science articles	Extended abstracts and reports
123	**4**	**34**

** = student-led

123. **Aitken, E., Rufaut, C., **Scott, J**., Read, S., Craw, D., & Pillai, D. (2025, in press). Otago Schist tor lithology controls on lizard habitats, East Otago, New Zealand. *New Zealand journal of Geology and Geophysics*, 1-14.

122. **Cooper, N. P., **Scott, J. M**., Pearson, D. G., Azzone, R. G., Leitzke, F. P., Woodland, S., ... & Schaeffer, A. J. (2025, in press). Extent of the São Francisco Craton, South America: a mantle perspective. *Mineralogy and Petrology*, 1-24.

121. **Liu, Y., Tian, G., Xu Yong., **Scott, J.M**., Pearson., D.G. (2025, in press). Evolution of the subcontinental lithospheric mantle beneath accretionary orogens: implications for the stabilization of cratons. Earth and Planetary Science Letters.

120. **Scott J.M.,** Palmer M.C., le Roux, P.J., Harris C., Craw D. (2025, in press). Possible Pliocene loess formation caused by tectonic uplift and aridification in Central Otago, New Zealand. New Zealand Journal of Geology and Geophysics.

119. **Sun, X., Wang, C. **Scott, J. M.**, Müntener O., Yu Z., Yang, W., Liu L., Li H. (2025, in press). Tracking magmatism and metasomatism in continental arc crust root: Significance from western Central Qilian belt in NE Tibet, China. Journal of Petrology.

118. **Bonnington, S. J., **Scott, J. M**., Palmer, M. C., Cooper, N. P., Reid, M. R., & Stirling, C. H. (2024). Composition and Miocene deformation of the lithospheric mantle adjacent to the Marlborough Fault System in North Canterbury. New Zealand Journal of Geology & Geophysics. Advance online publication. doi: 10.1080/00288306.2023.2218101

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117. **Cooper, N. P., **Scott, J. M.**, Brenna, M., Palmer, M. C., le Roux, P. J., Cooper, A. F., Reid, M. R., & Stirling, C. H. (2024). Hydrous veined mantle lithosphere and implications for the source of Zealandia intraplate magmas. Lithos. doi: 10.1016/j.lithos.2024.107608
116. **Ireland, M. T., Palmer, M. C., **Scott, J. M.**, le Roux, P. J., Reid, M. R., & Stirling, C. H. (2024). Microscale geochemical variations in metamorphic-hydrothermal scheelite and insights into trace element sources (Otago Schist, New Zealand). New Zealand Journal of Geology & Geophysics. Advance online publication. doi: 10.1080/00288306.2024.2377420
115. Jenniskens, P., Odeh, M., Johannink, C., Breukers, M., Baggaley, J., **Scott, J. M.** ... & Samuels, D. (2024). 51-Sagittids meteor shower confirmed by CAMS. *eMeteorNews*, *9*(4), 231-233.
114. Jenniskens, P., Estrada, P. R., Pilorz, S., Gural, P. S., Samuels, D., Rau, S., … **Scott, J. M.**, … Lauretta, D. S. (2024). Properties of outer solar system pebbles during planetesimal formation from meteor observations. Icarus. doi: 10.1016/j.icarus.2024.116229
113. Jenniskens, P., Pilorz, S., Gural, P. S., Samuels, D., Rau, S., Abbott, T. M. C., … **Scott, J. M.**, … Lauretta, D. S. (2024). Lifetime of cm-sized zodiacal dust from the physical and dynamical evolution of meteoroid streams. Icarus, 415, 116034. doi: 10.1016/j.icarus.2024.116034
112. Roggemans, P., Campbell-Burns, P., Kalina, M., McIntyre, M., **Scott, J. M.**, Šegon, D., ... & Vida, D. (2024). Global Meteor Network report 2023. *eMeteorNews*, *9*(2), 56-89.
111. Roggemans,, P., Vida, D., **Scott, J. M.**, Jenniskens, P., Šegon, D., Rollinson, D., (2024). First observed meteors from comet 46P/Wirtanen (lambda-Sculptorids, LSC). eMeteorNews, 9.
110. **Scott, J. M.,** (2024). Strategic changes to the New Zealand Journal of Geology and Geophysics. New Zealand Journal of Geology and Geophysics 67, 8 p.
109. **Scott, J. M.**, Cooper, A. F., Craw, D., le Roux, P. J., Dalton, H. B., & Palmer, M. C. (2024). Basanite cobbles in Pleistocene sediments in Central Otago and their implications for intraplate volcanism and Clutha River paleo-drainage. New Zealand Journal of Geology & Geophysics, 67(4), 451-466. doi: 10.1080/00288306.2023.2224579
108. **Scott, J. M.**, Brenna, M., Pearson, D. G., Auer, A., Faure, K., Harris, C., … van der Meer, Q. H. A. (2024). Garnet pyroxenite cumulates from Cretaceous alkaline intraplate magmas underplate the Zealandia mantle lithosphere. Journal of Petrology. Advance online publication. doi: 10.1093/petrology/egae085
107. **Scott, J. M.**, Vida, D., Behan, D., Boothroyd, M. R., Burgin, D. L., Grieg, D., … Wyn-Harris, S. (2024). New Zealand's meteor camera network leads to recovery of the Tekapo/Takapō meteorite. eMetN Meteor Journal, 9(3), 155-158.
106. Šegon, D., Vida, D., Roggemans, P., Rollinson, D., & **Scott, J. M**. (2024). New meteor shower in Fornax. eMeteorNews, 9(5), 279-285.
105. Vida, D., **Scott, J. M.**, Egal, A., Vaubaillon, J., Ye, Q. Z., Rollinson, D., ... & Moser, D. E. (2024). Observations of the new meteor shower from comet 46P/Wirtanen. Astronomy & Astrophysics, 682, L20.
104. **Aucamp, T., Howarth, G. H., Peel, C. J., Costin, G., Day, J. M., le Roux, P., **Scott, J. M.**, Bartoschewitz, R. (**2023**). Petrogenesis of the Dar al Gani (DaG) 1.1 Ma ejection-paired olivine-phyric shergottites and implications for~ 470 Ma Martian volcanism. *Meteoritics & Planetary Science*, *58*(11), 1654-1676.
103. **Burgin, D. L., **Scott, J. M.**, le Roux, P. J., Howarth, G., Palmer, M. C., Czertowicz, T. A., Negrini, M., Reid, M. R., & Stirling, C. H. (2023). Rapid characterisation of Mars' mantle reservoirs by in situ laser ablation $^{87}Sr/^{86}Sr$ analysis of shocked feldspar (maskelynite). Geochimica et Cosmochimica Acta, 341, 46-61. doi: 10.1016/j.gca.2022.11.011
102. **Cudby, J., **Scott, J. M.**, Craw, D., Hesson, M., & Rufaut, C. (2023). Surficial redistribution of gold and arsenic from the Rise and Shine Shear Zone, Otago, New Zealand. New Zealand Journal of Geology & Geophysics, 66(1), 12-26. doi: 10.1080/00288306.2021.1996402

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101. Delpech, G., **Scott, J. M.**, Grégoire, M., Moine, B. N., Li, D., Liu, J., … Giret, A. (2023). The subantarctic lithospheric mantle. In A. P. Martin & W. van der Wal (Eds.), The geochemistry and geophysics of the Antarctic mantle: Geological Society Memoir (Vol. 56). (pp. 115-132). Bath, UK: Geological Society of London. doi: 10.1144/M56-2020-13
100. He, Q., Lang, X., Wang, X., Deng, Y., Xie, F., **Scott, J. M.**, & Lou, Y. (2023). Volcanic and sedimentary rocks reveal the Paleozoic tectonic evolution of the Lhasa Terrane, Tibet. International Geology Review, 65(14), 2212-2234. doi: 10.1080/00206814.2022.2132302
99. Palmer, M. C., **Scott, J. M.**, Smith, S. A. F., le Roux, P. J., Harris, C., Negrini, M., & Tarling, M. S. (2023). Sr isotopes in metasomatized fault rocks constrain the age of juxtaposition of oceanic and continental lithosphere (Dun Mountain Ophiolite, New Zealand). Earth & Planetary Science Letters, 614, 118188. doi: 10.1016/j.epsl.2023.118188
98. **Scott, J. M.**, Negrini, M., Faure, K., Palmer, M. C., Knaack, D. R., & Leybourne, M. I. (2023). Multi-zone fusion crust formation and classification of the 2004 Auckland meteorite (L6, S5, and W0). Meteoritics & Planetary Science. Advance online publication. doi: 10.1111/maps.13955
97. Šegon, D., Vida, D., Roggemans, P., Wood, J., Boothroyd, M., Fraser, R., Hanigan, G., Poulton, D., Scott, G., **Scott, J.,** (2023). 2023 activity omega-Carinids (OCR# 1033). eMeteorNews, 8, 74-76.
96. **Wang, T., Zheng, J., **Scott, J. M.**, Xiong, Q., & Ping, X. (2023). Zircon-bearing metasomatized peridotite from early Paleozoic Tongbai Orogen sub-arc mantle trapped between the North China and Yangtze cratons. Contributions to Mineralogy & Petrology, 178, 24. doi: 10.1007/s00410-023-02006-y
95. **Wilson, L. J. E., Giacalone, E., **Scott, J. M.**, Brenna, M., White, J. D. L., le Roux, P. J., … Palmer, M. C., Read, S. E., Reid, M. R., & Stirling, C. H. (2023). Contemporaneous alkaline and subalkaline intraplate magmatism in the Dunedin Volcanic Group, NZ, caused by mantle heterogeneity. New Zealand Journal of Geology & Geophysics. Advance online publication. doi: 10.1080/00288306.2023.2277443
94. **Chang, Z., Dong, G., & **Scott, J. M.** (2022). Early Cretaceous basalts record the modification of the North China Craton lithospheric mantle: Implications for lithospheric thinning. International Geology Review, 64(9), 1330-1346. doi: 10.1080/00206814.2021.1931968
93. Elongo, V., Falcke, H., Rasmussen, K. L., Robbins, L. J., Creaser, R. A., Luo, Y., … Palmer, M. C., **Scott, J. M.**, … Lecumberri-sanchez, P. (2022). Ancient roots of tungsten in western North America. Geology, 50(7), 791-795. doi: 10.1130/G49801.1
92. **Li, D., Ionov, D. A., Xu, Y., **Scott, J. M.**, & Liu, J. (2022). Subduction-related mantle accretion and makeover revealed by mantle xenoliths at the Pacific margin of NE Eurasia. Lithos, 434-435, 106943. doi: 10.1016/j.lithos.2022.106943
91. **Li, J., Liu, J., **Scott, J. M.**, Wu, C., Zhu, D.-C., & Zhang, L. (2022). Early Permian magmatism above a slab window in Inner Mongolia, North China: Implications for the Paleo-Asian Ocean subduction processes and accretionary crustal growth. Solid Earth Sciences, 7, 87-103. doi: 10.1016/j.sesci.2022.02.001
90. **Lilley, H. C., **Scott, J. M.**, Schwartz, J. J., Turnbull, R. E., & Tulloch, A. J. (2022). Cretaceous tungsten-tin mineralisation in the Tin Range, Stewart Island, New Zealand. New Zealand Journal of Geology & Geophysics, 65(2), 283-298. doi: 10.1080/00288306.2020.1855216
89. **Palmer, M. C., Scanlan, E. J., **Scott, J. M.**, Farmer, L., Pickering, D., Wilson, V. J., … Craw, D., … Reid, M. R., & Stirling, C. H. (2022). Distinct scheelite REE geochemistry and $^{87}Sr/^{86}Sr$ isotopes in proximally- and distally-sourced metamorphogenic hydrothermal systems, Otago Schist, New Zealand. Ore Geology Reviews, 144, 104800. doi: 10.1016/j.oregeorev.2022.104800
88. Rufaut, C., Weightman, E., Craw, D., Pillai, D., Kerr, G., & **Scott, J.** (2022). Potential for pastoral irrigation using sulphate-rich waters at Macraes Gold Mine, southern New Zealand. Water, Air & Soil Pollution, 233, 391. doi: 10.1007/s11270-022-05838-9

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87. **Shao, Y., Prior, D. J., **Scott, J. M.**, Kidder, S. B., & Negrini, M. (2022). Alpine fault-related microstructures and anisotropy of the mantle beneath the Southern Alps, New Zealand. Journal of Geophysical Research: Solid Earth, 127(11), e2022JB024950. doi: 10.1029/2022JB024950
86. **Wang, T., Zheng, J., **Scott, J. M.**, Ping, X., Ma, Q., Xiong, Q., & Zhang, S. (2022). Coronitic and symplectitic textures in meta-troctolite reveal the transition from magmatism to granulite-facies metamorphism in the Early Paleozoic Tongbai Orogen, Central China. Journal of Petrology, 63(7), egac060. doi: 10.1093/petrology/egac060
85. Kidder S., Prior D.J., **Scott J.M.**, Solymani H., Shao Y. (2021) Localized mantle lithosphere deformation during Alpine fault initiation, New Zealand. Geology, 490: 1102-1106
84. **Palmer, M. C., **Scott, J. M.**, Luo, Y., Sakar, C., & Pearson, D. G. (2021). In-situ scheelite LASS-ICPMS reconnaissance Sm-Nd isotope characterisation and prospects for dating. Journal of Geochemical Exploration, 224, 106760. doi: 10.1016/j.gexplo.2021.106760
83. Pearson, D. G., **Scott, J. M.**, Liu, J., Schaeffer, A., Wang, L. H., van Hunen, J., … Kelemen, P. B. (2021). Deep continental roots and cratons. Nature, 596, 199-210. doi: 10.1038/s41586-021-03600-5
82. **Pontesilli, A., Brenna, M., Ubide, T., Mollo, S., Masotta, M., Caulfield, J., … **Scott, J. M.**, & Scarlato, P. (2021). Intraplate basalt alkalinity modulated by a lithospheric mantle filter at the Dunedin Volcano (New Zealand). Journal of Petrology, 62(10), egab062. doi: 10.1093/petrology/egab062
81. **Radclyffe, C. J. T., Summerhayes, G. R., **Scott, J. M.**, & Walter, R. (2021). Pottery production and exchange in the last millennium in the western Solomon Islands: A ceramic sequence for Choiseul. Journal of Pacific Archaeology, 12(1), 25-46. Retrieved from https://pacificarchaeology.org/
80. **Scott, J. M.** (2021). Introduction to the special issue on Volcanism in Zealandia and the SW Pacific. New Zealand Journal of Geology & Geophysics, 64(2-3), 147-152. doi: 10.1080/00288306.2021.1919155
79. **Scott, J. M.**, Pearson, D. G., Liu, J., Auer, A., Cooper, A. F., Li, D., Palmer, M. C., Read, S. E., Reid, M. R., & Woodland, S. J. (2021). Osmium isotopes in peridotite xenoliths reveal major mid-Proterozoic lithosphere formation under the Transantarctic Mountains. Geochimica et Cosmochimica Acta, 312, 25-43. doi: 10.1016/j.gca.2021.08.009
78. **Shao, Y., Prior, D. J., Toy, V. G., Negrini, M., & **Scott, J. M.** (2021). Does second phase content control the evolution of olivine CPO type and deformation mechanisms? A case study of paired harzburgite and dunite bands in the Red Hills Massif, Dun Mountain Ophiolite. Lithos, 406-407, 106532. doi: 10.1016/j.lithos.2021.106532
77. **Shao, Y., Prior, D. J., **Scott, J. M.**, & Negrini, M. (2021). Pre-Alpine Fault fabrics in mantle xenoliths from East Otago, South Island, New Zealand. Journal of Geophysical Research: Solid Earth, 126, e2020JB020196. doi: 10.1029/2020JB020196
76. **Tay, S. L., **Scott, J. M.**, & Craw, D. (2021). Natural rehabilitation of arsenic-rich historical tailings at the Alexander mine, Reefton, New Zealand. New Zealand Journal of Geology & Geophysics, 64(4), 558-569. doi: 10.1080/00288306.2020.1840402
75. **Tay, S. L., **Scott, J. M.**, Palmer, M. C., Reid, M. R., & Stirling, C. H. (2021). Occurrence, geochemistry and provenance of REE-bearing minerals in marine placers on the West Coast of the South Island, New Zealand. New Zealand Journal of Geology & Geophysics, 64(1), 89-106. doi: 10.1080/00288306.2020.1736585
74. Allibone, A., Blakemore, H., Jongens, R., **Scott, J. M.** Moore, J., MacKenzie, D., & Craw, D. (2020). Structural settings of gold deposits within the Reefton goldfield, western New Zealand. New Zealand Journal of Geology & Geophysics, 63(3), 342-362. doi: 10.1080/00288306.2020.1717554
73. Auer, A., Brenna, M., & **Scott, J. M.** (2020). Influence of host magma alkalinity on trachytic melts formed during incongruent orthopyroxene dissolution in mantle xenoliths. New Zealand Journal of Geology & Geophysics, 63(4), 547-561. doi: 10.1080/00288306.2020.1766519

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72. **Holbek, S. C., Frank, M., **Scott, J. M**., Smith, S. A. F., le Roux, P. J., Waight, T. E., Van Hale, R., Reid, M. R., & Stirling, C. H. (2020). Structural controls on shallow cenozoic fluid flow in the Otago Schist, New Zealand. Geofluids, 2020, 9647197. doi: 10.1155/2020/9647197
71. **Montheil, L., Toy, V. G., **Scott, J. M**., Mitchell, T. M., & Dobson, D. P. (2020). Impact of coseismic frictional melting on particle size, shape distribution and chemistry of experimentally-generated pseudotachylite. Frontiers in Earth Science, 8, 596116. doi: 10.3389/feart.2020.596116
70. Mortimer, N., & **Scott, J. M**. (2020). Volcanoes of Zealandia and the Southwest Pacific. New Zealand Journal of Geology & Geophysics, 63(4), 371-377. doi: 10.1080/00288306.2020.1713824
69. **Scanlan, E. J., **Scott, J. M**., & le Roux, P. J. (2020). Pyrometamorphosed Otago Schist xenoliths cause minor contamination of Dunedin Volcanic Group basanite. New Zealand Journal of Geology & Geophysics, 63(4), 530-546. doi: 10.1080/00288306.2020.1767659
68. **Scott, J. M**. (2020). An updated catalogue of New Zealand's mantle peridotite and serpentinite. New Zealand Journal of Geology & Geophysics, 63(4), 428-449. doi: 10.1080/00288306.2020.1776738
67. **Scott, J. M**., White, J. D. L., & le Roux, P. J. (2020). Intraplate volcanism on the Zealandia Eocene-Early Oligocene continental shelf: The Waiareka-Deborah Volcanic Field, North Otago. New Zealand Journal of Geology & Geophysics, 63(4), 450-468. doi: 10.1080/00288306.2020.1785896
66. **Scott, J. M**., Pontesilli, A., Brenna, M., White, J. D. L., Giacalone, E., Palin, J. M., & le Roux, P. J. (2020). The Dunedin Volcanic Group and a revised model for Zealandia's alkaline intraplate volcanism. New Zealand Journal of Geology & Geophysics, 63(4), 510-529. doi: 10.1080/00288306.2019.1707695
65. **Serre, S. H., van der Meer, Q. H. A., Waight, T. E., **Scott, J. M**., Münker, C., Thomsen, T. B., & le Roux, P. J. (2020). Petrogenesis of amphibole megacrysts in lamprophyric intraplate magmatism in southern New Zealand. New Zealand Journal of Geology & Geophysics, 63(4), 489-509. doi: 10.1080/00288306.2020.1801771
64. **Tian, G., Liu, J., **Scott, J. M**., Chen, L.-H., Pearson, D. G., Chu, Z., … Luo, Y. (2020). Architecture and evolution of the lithospheric roots beneath circum-cratonic orogenic belts: The Xing'an Mongolia Orogenic Belt and its relationship with adjacent North China and Siberian cratonic roots. Lithos, 376-377, 105798. doi: 10.1016/j.lithos.2020.105798
63. **Weightman, E., Craw, D., Rufaut, C., Kerr, G., & **Scott, J**. (2020). Chemical evolution and evaporation of shallow groundwaters discharging from a gold mine, southern New Zealand. Applied Geochemistry, 122, 104766. doi: 10.1016/j.apgeochem.2020.104766
62. **Xu, Y., Liu, J., Xiong, Q., Su, B.-X., **Scott, J. M**., Xu, B., … Pearson, D. G. (2020). The complex life cycle of oceanic lithosphere: A study of Yarlung-Zangbo ophiolitic peridotites, Tibet. Geochimica et Cosmochimica Acta, 277, 175-191. doi: 10.1016/j.gca.2020.03.024
61. **Blake, F., Grant, K., MacKenzie, D., **Scott, J. M.** & Craw, D. (2019). Surficial arsenic redistribution above gold-mineralised zones in East Otago, New Zealand. New Zealand Journal of Geology & Geophysics, 62(4), 573-587. doi: 10.1080/00288306.2019.1647854
60. **Dickie, J. E., **Scott, J. M**., Sagar, M. W., & Blakemore, H. (2019). Cretaceous igneous-related mineralisation in the Reefton Goldfield, New Zealand. New Zealand Journal of Geology & Geophysics, 62(1), 87-99. doi: 10.1080/00288306.2018.1529684
59. **Dwight, T., **Scott, J. M**., & Schwartz, J. J. (2019). Emplacement and Paleozoic and Cretaceous recrystallisation of the Broughton Arm Peridotite in Western Fiordland, New Zealand. New Zealand Journal of Geology & Geophysics, 62(1), 72-86. doi: 10.1080/00288306.2018.1528989
58. Liu, J., Cai, R., Pearson, D. G., & **Scott, J. M**. (2019). Thinning and destruction of the lithospheric mantle root beneath the North China Craton: A review. Earth-Science Reviews, 196, 102873. doi: 10.1016/j.earscirev.2019.05.017
57. **Ritchie, T. W., **Scott, J. M**., & Craw, D. (2019). Garnet compositions track longshore migration of beach placers in western New Zealand. Economic Geology, 114(3), 513-540. doi: 10.5382/econgeo.4647

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56. **Robinson, B. A., & **Scott, J. M**. (2019). Late Devonian contact metamorphism and a possible upper age to gold mineralisation in the northernmost portion of the Reefton Goldfield. New Zealand Journal of Geology & Geophysics, 62(1), 121-130. doi: 10.1080/00288306.2018.1534745
55. **Scott, J. M**., & Turnbull, I. M. (2019). Geology of New Zealand's Sub-Antarctic Islands. New Zealand Journal of Geology & Geophysics, 62(3), 291-317. doi: 10.1080/00288306.2019.1600557
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POPULAR SCIENCE ARTICLES

4. **Scott, J. M.,** Stayte J., Boothroyd, M., McKellar P., Vida D. (2023) Exploding comets in Earth's atmosphere imaged by NZ fireball cameras. Southern Stars *62, 4p.*
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NON-REFEREED EXTENDED CONFERENCE ABTRACTS OR REPORTS

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1. **Blake, F. **Scott J.M**., MacKenzie D., Craw D. (**2018**) Arsenic mobility in loess above the Hyde-Macraes Shear Zone in Otago, New Zealand. *Proceedings of the 51st Australasian Institute of Mining and Metallurgy Conference 10p*
2. **Grant K, **Scott J.M**., Craw D (**2018**) Mobilisation of gold in the shallow levels of the Otago Schist at Coronation North, Macraes Mine. *Proceedings of the 51st Australasian Institute of Mining and Metallurgy Conference. 10p*
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