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Professor Emeritus

**Refereed Publications:**

Shellnutt, J.G. and Dostal, J. 2019. *Derivation of the Early Carboniferous Wedgeport pluton by crystal fractionation of a mafic parental magma: a rare case of an A-type granite within the Meguma terrane (Nova Scotia, Canada)*. Geological Magazine (in press).

Dostal, J., Murphy, J.B. and Shellnutt, J.G. 2019. *Secular isotopic variation in lithospheric mantle through the Variscan orogen: Neoproterozoic to Cenozoic magmatism in continental Europe*. Geology, 47, 637-640.

Jutras, P. and Dostal, J. 2019. *The Upper Visean Magdalen Islands basalts of Eastern Quebec, Canada*. Journal of Geology, 127, 505-526.

Keppie, J.D., Shellnutt, J.G., Dostal, J. and Keppie, D.F. 2019. *Silurian U-Pb zircon intrusive ages for the Red River anorthosite (northern Cape Breton Island): Implication for the Laurentia-Avalonia boundary in Atlantic Canada*. Gondwana Research 73, 54-64.

Jutras, P., Dostal, J. and Kamo, S. 2019. *Trace element enriched mid-Visean dykes in the New Carlisle area of Quebec, Canada: unusual products of a tholeiitic melt sourced from metasomatized mantle rocks and fractionated in a brine-rich upper crustal environment*. Geological Society of America Bulletin, 131, 2079-2093.

Dostal, J., Murphy, J.B., Shellnutt, J.G., Ulrych, J. and Fediuk, F. 2019. *Neoproterozoic to Cenozoic magmatism in the central part of the Bohemian Massif (Czech Republic): Isotopic tracking of the evolution of the mantle through the Variscan orogeny*. Lithos, 326-327, 358-369.

Dostal, J., Shellnutt, J.G., and Church, B.N. 2019. *Petrogenesis of an Eocene syenitic intrusion from south-central British Columbia: Evidence of increasing influence of cratonic Laurentia on alkaline magmatism of western North America*. Lithos, 332-333, 67-82.

Shellnutt, J.G., Owen, J.V., Yeh, M.W., Dostal, J. and Nguyen, D.T. 2019. *Long-lived association between Avalonia and the Meguma terrane deduced from zircon geochronology of metasedimentary granulites*. Scientific Reports, 2019, 9, 4065.

Shellnutt, J.G. and Dostal, J. 2019. *Haida Gwaii (British Columbia, Canada): a Phanerozoic analogue of a subduction-unrelated Archean greenstone belt*. Scientific Reports, 2019, 9, 3251.

Murphy, J.B., Nance R.D., Keppie, J.D., and Dostal J. 2019. *Role of Avalonia in the development of tectonic paradigms*. Geological Society of London, Special Publications, 470, 265-287.

Jutras, P., Dostal, J., Kamo, S., and Matheson, Z. 2018. *Tectonostratigraphic and petrogenetic setting of late Mississippian volcanism in eastern Canada*. Canadian Journal of Earth Sciences, 55, 356-372.

- Dostal, J., Keppie, J.D., and Church, B.N. 2018. *Generation of Eocene volcanic rocks from the Cordilleran arc of south-central British Columbia (Canada) during subduction of the Farallon and Resurrection plates and Yellowstone oceanic plateau*. Geological Journal, 54, 540-604.
- Dostal, J. and MacRae, A. 2018. *Cretaceous basalts of the High Arctic large igneous province at Axel Heiberg Island (Canada): Volcanic stratigraphy, geodynamic setting, and origin*. Geological Journal, 53, 2918-2934.
- Shellnutt, J.G., Dostal, J. and Yeh, M.W. 2018. *Mantle source heterogeneity of the Early Jurassic basalt of eastern North America*. International Journal of Earth Sciences, 107, 1033-1058.
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