

LIFETIME PUBLICATIONS: (i)

Peer-Reviewed:

(c) *Published Journal Articles:*

(* denotes supervised student)

Dickin A, Herrell, M,* Moore E,* Cooper D,* Pearson S.* (2014). Nd isotope mapping of allochthonous Grenvillian klippen: evidence for widespread 'ramp-flat' thrust geometry in the SW Grenville Province. *PRECAMB. RES.* 246, 268-280.

Moretton, K.* and **Dickin, A.P.** (2013). Nd isotope mapping of the Dysart gneiss complex: evidence for a rifted block within the Central Metasedimentary Belt of the Grenville Province. *PRECAMB. RES.* 228, 1223-232.

Zelek, M.* and **Dickin, A.P.** (2013). Nd isotope mapping of crustal terranes in the Parent-Clova area, Quebec: implications for the evolution of the Laurentian margin in the central Grenville Province. *GEOSCIENCES* 3, 448-465.

Dickin, A.P., Cooper, D*., Guo, A.* , Hutton, C.* , Martin, C.* , Sharma, K.N.M. and Zelek, M.* (2012). Nd isotope mapping of the Lac Dumoine thrust sheet: implications for large-scale crustal structure in the SW Grenville Province. *TERRA NOVA.* 24, 363-372.

McNutt, R.H. and **Dickin, A.P.** (2012). A Comparison of Nd Model ages and U-Pb zircon ages of Grenville granitoids: constraints on the evolution of the Laurentian margin from 1.5 to 1.0 Ga. *TERRA NOVA* 24, 7-15.

O'Connell-Cooper, C.D.* , **Dickin, A.P.** and Spray, J.G. (2012). The Manicouagan impact melt sheet: evidence for isotopic homogenization with limited assimilation. *EARTH PLANET. SCI. LETT.* 335, 48-58.

Lidiak, E.G., Jolly, W.T. and **Dickin, A.P.** (2011). Pre-arc basement complex and overlying early island arc strata, Southwestern Puerto Rico: overview, geologic evolution, and revised data bases. *GEOLOGICA ACTA* 9, 273-287.

Moore, E.S* . and **Dickin, A.P.** (2011). Evaluation of Nd isotope data for the Grenville Province of the Laurentian Shield using a Geographic Information System (GIS). *GEOSPHERE* 7, 1-14.

Thomson, S.D.* , **Dickin, A.P.** and Spray, J.G. (2011). Nd isotope mapping of crustal terranes in the vicinity of the Manicouagan Impact Structure, Grenville Province of Quebec. *PRECAMB. RES.* 191, 184-193.

Dickin, A.P. (2010). Scientific comment on "Isotopic heterogeneity in the Sudbury impact melt sheet" [*EPSL* 289 (2010) 347–356]. *EARTH PLANET. SCI. LETT.* 299, 334-335.

Dickin, A.P.; McNutt, R.H.; Martin, C.* and Guo, A.* (2010). The extent of juvenile crust in the Grenville Province: Nd isotope evidence. *GEOL. SOC. AMERICA BULL.* 122, 870-883.

Rios, D.C.* , Davis, D.W., Conceicao, H, Davis, W.J., Rosa, M.L.S. and **Dickin A.P.** (2009). Geologic evolution of the Serrinha nucleus granite-greenstone terrane (NE Bahia, Brazil) constrained by U-Pb single zircon geochronology. *PRECAMB. RES.* 170, 175-201.

Dickin, A.P., Moretton, K.* and North, R.* (2008). Isotopic mapping of the Allochthon Boundary Thrust in the Grenville Province of Ontario, Canada. *PRECAMB. RES.* 167, 260-266.

Jolly, W.T., Lidiak, E.G. and **Dickin, A.P.** (2008). Bimodal volcanism in northeast Puerto Rico and the Virgin Islands (Greater Antilles Island Arc): Genetic links with Cretaceous subduction of the mid-Atlantic ridge Caribbean spur. *LITHOS* 103, 393-414.

Jolly, W.T., Lidiak, E.G. and **Dickin, A.P.** (2008). The case for persistent southwest-dipping Cretaceous convergence in the northeast Antilles: Geochemistry, melting models, and tectonic implications. *GEOL. SOC. AMERICA BULL.* 120, 1036-1052.

Rios, D.C*., Davis, D.W., Conceicao, H., Rosa, M.L.S., Davis, W.J., **Dickin, A.P.**, Marinho, M.M. and Stern, R. (2008). 3.65-2.10Ga history of crust formation from zircon geochronology and isotope geochemistry of the Quijingue and Euclides plutons, Serrinha nucleus, Brazil. *PRECAMB. RES.* 167, 53-70.

Dickin, A.P. and McNutt, R.H. (2007). The Central Metasedimentary Belt (Grenville Province) as a failed back-arc rift zone: Nd isotope evidence. *EARTH PLANET. SCI. LETT.* 259, 97-106

Jolly, W.T., Schellekens, J.H. and **Dickin, A.P.** (2007). High-Mg andesites and related lavas from southwest Puerto Rico (Greater Antilles Island Arc): Petrogenetic links with emplacement of the Late Cretaceous Caribbean mantle plume. *LITHOS* 98, 1-26.

Thompson, R.N., Riches, A.J.V., Antoshechkina, P.M., Pearson, D.G., Nowell, G.M., Ottley, C.J., **Dickin, A.P.**, V.L., Nguno, A.-K. and Niku-Paavola, V. (2007). Origin of CFB Magmatism: Multi-tiered Intracrustal Picrite–Rhyolite Magmatic Plumbing at Spitzkoppe, Western Namibia, during Early Cretaceous Etendeka Magmatism. *J. PETROL.* 48, 1119-1154.

Herrell, M.K.* , **Dickin, A.P.** and Morris, W.A. (2006). A test of detailed Nd isotope mapping in the Grenville Province: delineating a duplex thrust sheet in the Kipawa-Mattawa region. *CANADIAN JOURNAL OF EARTH SCIENCES* 43, 421-432.

Jolly, W.T., Lidiak, E.G. and **Dickin, A.P.** (2006). Cretaceous to Mid-Eocene pelagic sediment budget in Puerto Rico and the Virgin Islands (northeast Antilles Island arc). *GEOLOGICA ACTA* 4, 35-62.

Tollo, R.P., Aleinikoff, J.N., Borduas, E.A., **Dickin, A.P.**, McNutt, R.H. and Fanning, C.M. (2006). Grenvillian magmatism in the northern Virginia Blue Ridge: Petrologic implications of episodic granitic magma production and the significance of postorogenic A-type charnockite. *PRECAMB. RES.* 151, 224-264.

Martin, C.* and **Dickin, A.P.** (2005). Styles of Proterozoic crustal growth on the southeast margin of Laurentia: evidence from the central Grenville Province northwest of Lac St.-Jean, Quebec. *CANADIAN JOURNAL OF EARTH SCIENCES* 42, 1643-1652.

Gibson, S.A., Thompson, R.N., Day, J.A., Humphris, S.E. and **Dickin, A.P.** (2005). Melt-generation processes associated with the Tristan mantle plume: Constraints on the origin of EM-1. *EARTH AND PLANETARY SCIENCE LETTERS* 237, 744-767.

Thompson, R.N., Ottley, C.J., Smith, P.M., Pearson, D.G., **Dickin, A.P.**, Morrison, M.A., Leat, P.T. and Gibson, S.A. (2005). Source of the quaternary alkalic basalts, picrites and basanites of the Potrillo Volcanic Field, New Mexico, USA: Lithosphere or convecting mantle? *JOURNAL OF PETROLOGY* 46, 1603-1643.

- Rao, N.V.C., Gibson, S.A., Pyle, D.M. and **Dickin, A.P.** (2004). Petrogenesis of Proterozoic lamproites and kimberlites from the Cuddapah Basin and Dharwar Craton, southern India. *JOURNAL OF PETROLOGY* 45, 907-948.
- Anand, M., Gibson, S.A., Subbarao, K.V., Kelley, S.P. and **Dickin, A.P.** (2003). Early Proterozoic melt generation processes beneath the intra-cratonic Cuddapah Basin, Southern India. *J. PETROL.* 44, 2139-2171.
- Dickin, A.P.** and McNutt, A.P. (2003). An application of Nd isotope mapping in structural geology: delineating an allochthonous Grenvillian terrane at North Bay, Ontario. *GEOL. MAG.* 140, 539-548.
- Conceicao, H., Rios, D.C., Rosa, M.D.D., Davis, D.W., **Dickin, A.P.**, McReath, I., Marinho, M.M. and Macambira, M.J.B. (2002). Zircon geochronology and petrology of alkaline-potassic syenites, southwestern Serrinha Nucleus, East Sao Francisco craton, Brazil. *INTERNAT. GEOL. REVIEW* 44, 117-136.
- Dickin, A.P.** and Durant, G.P. (2002). The Blackstones Bank igneous complex: geochemistry and crustal context of a submerged Tertiary igneous centre in the Scottish Hebrides. *GEOL. MAG.* 139, 199-207.
- Jolly, W.T., Lidiak, E.G., **Dickin, A.P.** and Wu, T.S. (2002). Recycling in the Puerto Rican mantle wedge, Greater Antilles island arc. *ISLAND ARC* 11, 10-24.
- Thompson, R.N., Smith, P.M., Gibson, S.A., Matthey, D.P. and **Dickin, A.P.** (2002). Ankerite carbonatite from Swartbooisdrif, Namibia: the first evidence for magmatic ferrocyanatite. *CONTRIB. MINERAL. PETROL.* 143, 377-395.
- Dickin, A.P.** and Guo, A.* (2001). The location of the Allochthon Boundary Thrust and the Archean-Proterozoic suture in the Mattawa area of the Grenville Province: Nd isotope evidence. *PRECAMB. RES.* 107, 31-43.
- Jolly, W.T., Lidiak, E.G., **Dickin, A.P.** and Wu, T.S. (2001). Secular geochemistry of central Puerto Rican island arc lavas: constraints on Mesozoic tectonism in the eastern Greater Antilles. *J. PETROL.* 42, 2197-2214.
- Thompson, R.N., Gibson, S.A., **Dickin, A.P.** and Smith, P.M. (2001). Early Cretaceous basalt and picrite dykes of the southern Etendeka region, NW Namibia: windows into the role of the Tristan mantle plume in Parana-Etendeka magmatism. *J. PETROL.* 42, 2049-2081.
- Dickin, A.P.** (2000). Crustal formation in the Grenville Province: Nd isotope evidence. *CAN. J. EARTH SCI.* 37, 165-181.
- Gibson, S.A., Thompson, R.N. and **Dickin, A.P.** (2000). Ferropicrites: geochemical evidence for Fe-rich streaks in upwelling mantle plumes? *EARTH PLANET. SCI. LETT.* 174, 355-374.
- McMillan, N.J., **Dickin, A.P.** and Haag, D. (2000). Evolution of magma source regions in the Rio Grange Rift, Southern New Mexico. *GEOL. SOC. AMERICA BULL.* 112, 1582-1593.
- Gibson, S.A., Thompson, R.N., Leonardos, O.H., **Dickin, A.P.** and Mitchell, J.G. (1999). The limited extent of plume-lithosphere interactions during continental flood-basalt genesis: geochemical evidence from Cretaceous magmatism in southern Brazil. *CONTRIB. MINERAL. PETROL.* 137, 147-169.

Chalapathi, N.V., Gibson, S.A., Pyle, D.M. and **Dickin, A.P.** (1998) Contrasting isotopic mantle sources for Proterozoic lamproites and kimberlites from the Cuddapah Basin and Eastern Dharwar Craton: implication for Proterozoic mantle heterogeneity beneath southern India. *J. GEOL. SOC. INDIA* 52, 683-694.

Dickin, A.P. (1998). Pb isotope mapping of the burial and uplift history of ancient crust: a case study from the Grenville Province. *PRECAMB. res.* 91, 445-454.

Dickin, A.P. (1998). Nd isotope mapping of a cryptic continental suture, Grenville Province of Ontario. *PRECAMB. res.* 91, 433-444.

Thompson, R.N., Gibson, S.A., Mitchell, J.G., **Dickin, A.P.**, Leonardos, O.H., Brod, J.A. and Greenwood, J.C. (1998). Migrating Cretaceous-Eocene magmatism in the Serra do Mar alkaline province, SE Brazil: the dog-legged track of a devious Trindade mantle plume. *J. PETROL* 39, 1493-1526.

Gibson, S.A., Thompson, R.N., Weska, R., **Dickin, A.P.** and Leonardos, O.H. (1997) Late Cretaceous rift-related upwelling and melting of the Trindade starting mantle plume head beneath western Brazil. *CONTRIB. mineral. petrol.*, 126, 303-14.

Thompson, R.N., Velde, D., Leat, P.T., Morrison, M.A. Mitchell, J.G., **Dickin, A.P.** and Gibson, S.A. (1997) An Oligocene lamproite containing a new biotite variant, Middle Park, northwest Colorado, USA, *MIN. MAG.* 61, 557-72.

Dickin, A.P., Artan, M.A.* and Crocket, J.H. (1996) Isotopic evidence for distinct crustal sources of North and South range ores, Sudbury Intrusive Complex. *GEOCHIM. COSMOCHIM. ACTA* 60, 1605-1613.

Heikoop, J. M., Tsujita, C. J., Heikoop, C. E.*, Risk, M. J., and **Dickin, A. P.** (1996) Effects of volcanic ashfall recorded in ancient marine benthic communities: comparison of a nearshore and an offshore environment. *Lethaia* 29, 125-139.

Gibson, S.A., Thompson, R.N., **Dickin, A.P.** and Leonardos, O.H. (1996) High-Ti and low-Ti mafic potassic magmas: key to plume-lithosphere interactions and continental flood basalt genesis. *EARTH PLANET. SCI. LETT.* 141, 325-341.

Guo, A.* and **Dickin, A.P.** (1996) The southern limit of Archean crust and significance of rocks with Paleoproterozoic model ages: Nd model age mapping in the Grenville Province of western Quebec. *PRECAMB. RES.* 77, 231-241.

Dickin, A.P. (1995) Comment on "Lead isotope analyses of leached feldspars: constraints on the early crustal history of the Grenville orogen by C.P. DeWolf and K. Mezger". *GEOCHIM. COSMOCHIM. ACTA* 59, 5233-5234.

Gibson, S.A., Thompson, R.N., Leonardos, O.H., **Dickin, A.P.** and Mitchell, J.G. (1995b). The late Cretaceous impact of the Trindade mantle plume: evidence from large-volume mafic potassic magmatism in SE Brazil. *J. PETROL.* 36, 189-229.

Holmden, C.* and **Dickin, A.P.** (1995) Paleoproterozoic crustal history of the southwestern Grenville Province: evidence from Nd isotopic mapping. *CAN. J. EARTH SCI.* 32, 472-485.

Stone, W.E., Crocket, J.H., **Dickin, A.P.** and Fleet, M.E. (1995) Origin of Archean ferropicrites: geochemical constraints from the Boston Creek Flow, Abitibi greenstone belt, Ontario, Canada. *CHEM. GEOL.* 121, 51-71.

Dickin, A.P. (1994) Nd isotope chemistry of Tertiary igneous rocks from Arran, Scotland: implications for magma evolution and crustal structure. *GEOL. MAG.* 131, 329-333.

Gibson, S.A., Thompson, R.N., Leonardos, O.H., Turner, S.E., Mitchell, J.G. and **Dickin, A.P.** (1994) The Serra do Bueno potassic diatreme: a possible hypabyssal equivalent of the ultra-mafic alkaline volcanics in the Late Cretaceous Alto Paranaíba Igneous Province, SE Brazil. *MIN. MAG.* 58, 357-73.

Shaw, D.M., **Dickin, A.P.**, Li, H., McNutt, R.H., Schwarcz, H.P. and Truscott, M.G. (1994) Crustal geochemistry in the Wawa-Foley region, Ontario. *CAN. J. EARTH SCI.* 31, 1104-1121.

Gibson, S.A., Thompson, R.N., Leat, P.T., Morrison, M.A., Hendry, G.L., **Dickin, A.P.** and Mitchell, J.G. (1993) Ultrapotassic magmas along the flanks of the Oligo-Miocene Rio Grande Rift: monitors of the Zone of lithospheric mantle extension and thinning beneath a continental rift. *J. PETROL.* 34, 187-228.

Halliday, A.N., **Dickin, A.P.**, Hunter, R.N., Davies, G.R., Dempster, T.J., Hamilton, P.J. and Upton, B.G.J. (1993) Formation and composition of the lower continental crust: evidence from Scottish xenolith suites. *J. GEOPHYS. RES.* 98, 581-607.

Thompson, R.N., Gibson, S.A., Leat, P.T., Mitchell, J.G., Morrison, M.A., Hendry, G.L. and **Dickin, A.P.** (1993) Early-Miocene continental extension-related basaltic magmatism at Walton Peak, Northwest Colorado: further evidence on continental basalt genesis. *J. GEOL. SOC. LOND.* 150, 277-291.

Dickin, A.P. (1992) Evidence for an Early Proterozoic crustal province in the North Atlantic region. *J. GEOL. SOC. LOND.* 149, 483-486.

Dickin, A.P. and Bowes, D.R. (1992) Reply to: Muir, R.J., Fitches, W.R. and Maltman, A.J. (1992) Discussion of isotopic evidence for the extent of early Proterozoic basement in Scotland and northwest Ireland. *Geol. Mag.* 129, 501-504.

Dickin, A.P. and Higgins, M. (1992) Sm/Nd evidence for a major 1.5 Ga crust-forming event in the central Grenville Province. *GEOLOGY* 20, 137-140.

Dickin, A.P., Richardson, J.M.*, Crocket, J.H., McNutt, R.H. and Peredery, W.V. (1992) Osmium isotope evidence for a crustal origin of platinum group elements in the Sudbury nickel ore. *GEOCHIM. COSMOCHIM. ACTA* 56, 3531-3537.

Jolly, W.T., **Dickin, A.P.** and Wu, T.W. (1992) Geochemical stratigraphy of the Huronian volcanics at Thessalon, Ontario: contributions of two-stage crustal fusion. *CONTRIB. MINERAL. PETROL.* 110, 411-428.

Dickin, A.P. and Bowes, D.R. (1991) Isotopic evidence for the extent of Early Proterozoic basement in Scotland and northwest Ireland. *GEOL. MAG.* 128, 385-388.

Dickin, A.P., Halliday, A.N. and Bowden, P. (1991) A Pb, Sr and Nd isotope study of the basement and Mesozoic ring complexes of the Jos Plateau, Nigeria. *CHEM. GEOL. (ISOT. GEOSCI.)* 94, 23-32.

Duncker, K.E., Wolff, J.A., Harmon, R.S., Leat, P.T., **Dickin, A.P.** and Thompson, R.N. (1991) Diverse mantle and crustal components in lavas of the NW Cerros del Rio volcanic field, Rio Grande Rift, New Mexico. *CONTRIB. MINERAL. PETROL.* 108, 331-345.

Gibson, S.A., Thompson, R.N., Leat, P.T., Morrison, M.A., Hendry, G.L. and **Dickin, A.P.** (1991) The Flat Tops Volcanic Province, NW Colorado 1: Lower Miocene open-system multi-source magmatism at Flander. *J. GEOPHYS. RES.* 96, 13,609-13,627.

Leat, P.T., Thompson, R.N., Morrison, M.A., Hendry, G.L. and **Dickin, A.P.** (1991) Alkaline hybrid mafic magmas of the Yampa area, NW Colorado, and their relationship to the Yellowstone plume and lithospheric mantle domains. *CONTRIB. MINERAL. PETROL.* 107, 310-327.

Aspen, P., Upton, E.L.G. and **Dickin, A.P.** (1990) Anorthoclase, sanidine and associated megacrysts in Scottish alkali basalts: high-pressure syenitic debris from upper mantle sources? *EUR. J. MINERAL.* 2, 503-17.

Dickin, A.P., McNutt, R.H. and Clifford, P.M. (1990) A neodymium isotope study of plutons near the Grenville Front in Ontario, Canada. *CHEM. GEOL.* 83, 315-324.

Halliday, A.N., Shepherd, T.J., **Dickin, A.P.** and Chesley, J.T. (1990) Sm-Nd evidence for the age and origin of a Mississippi Valley Type ore deposit. *NATURE* 344, 54-56.

Lundberg, J.*, Ford, D.C., Schwarcz, H.P., **Dickin, A.P.** and Li, W.X.* (1990) Dating sea level in caves. *NATURE* 343, 217-218.

Marcantonio, F.*, McNutt, R.H., **Dickin, A.P.** and Heaman, L. (1990) Isotopic evidence for the crustal evolution of the Frontenac Arch in the Grenville province of Ontario, Canada. *CHEM. GEOL.* 83, 297-314.

Moritz, R.P.*, Crocket, J.H. and **Dickin, A.P.** (1990) Source of lead in the gold-bearing quartz-fuchsite vein at the Dome mine, Timmins area, Ontario, Canada. *MINERAL. DEPOS.* 25, 272-280.

Dickin, A. P. and McNutt, R.H. (1989) Nd model age mapping of the southeast margin of the Archean foreland in the Grenville Province of Ontario. *Geology*, 17; 299-302.

Leat, P. T., Thompson, R. N., **Dickin, A. P.**, Morrison, M. A. and Hendry, G. L. (1989) Quaternary volcanism in northwestern Colorado: implication for the roles of asthenosphere and lithosphere in the genesis of continental basalts. *J. Volcanol. Geotherm. Res.*, 37: 291-310.

Li, W. X.*, Lundberg, J.*, **Dickin, A. P.**, Ford, D.C., Schwarcz, H. P., McNutt, R. H. and Williams, D. (1989) High-precision mass spectrometric uranium series dating of cave deposits and implications for palaeoclimate studies. *Nature*, 339: 534-536.

Richardson, J. M.*, **Dickin, A. P.**, McNutt, R. H., McAndrew, J. I. And Beneteau, S. B. (1989) Optimisation of ICP-MS analyses of a rhenium-osmium spike in solid solution. *J. Anal. Atom. Spectr.*, 4: 465-471.

Tanner, P. W., Dempster, T. J. and **Dickin, A. P.** (1989) Short Paper: Time of docking of the Connemara terrane with the delaney Dome Formation, western Ireland. *J. Geol. Soc. Lond.*, 146: 389-392.

Leat, P. T., Thompson, R. N., Morrison, M. A., Hendry, G. L. and **Dickin, A. P.** (1988) Silicic magmas derived by fractional crystallization from Miocene minette, elkhead Mountains, Colorado, *Mineral Mag.*, 52: 577-585.

Marcantonio, F.*, **Dickin, A. P.**, McNutt, R. H. and Heaman, L. (1988) A 1,800-million-year-old Proterozoic gneiss terrane in Islay with implications for the crustal structure and evolution of Britain. *Nature*, 335: 62-64.

Dickin, A. P. (1988) Mantle and crustal Ce/Nd isotope systematics. Discussion of : Tanaka et al., Combined La-Ce and Sm-Nd isotope systematics in petrogenetic studies. *Nature*, 333: 403-404.

Dickin, A. P., McNutt, R. H. and McAndrew, J. I. (1988) Osmium isotope analysis by ICP-MS. *J. Anal. Atomic Spectrometry*, 3: 337-342.

Halliday, A. N., **Dickin, A. P.**, Fallick, A. E. and Fitton, J. G. (1988) Mantle dynamics: a Nd, Sr, Pb and O isotopic study of the Cameroon Line volcanic chain. *J. Petrol.*, 29: 181-211.

Dickin, A. P., Jones, N. W., Thirwall, M. F. and Thompson, R. N. (1987) A Ce/Nd isotope study of crustal contamination processes affecting Palaeocene magmas in Skye, NW Scotland. *Contrib. Mineral. Petrol.*, 96: 455-464.

Dickin, A. P. (1987) Cerium isotope geochemistry of ocean island basalts. *Nature*, 326: 283-284.

Dickin, A. P. (1987) La/Ce dating of Lewisian granulites to constrain the ¹³⁸La beta decay half-life. *Nature*, 325: 337-338.

Halliday, A. N., Aftalion, M., Parsons, I. and **Dickin, A. P.** (1987) Syn-orogenic alkaline magmatism and its relationship to the Moine thrust Zone and the thermal state of the lithosphere in North-west Scotland. *J. Geol. Soc. Lond.*, 144: 611-617.

Dickin, A. P., Fallick, A. E., Halliday, A. N., McIntyre, M. and Stephens, W. E. (1986) An isotopic and geochronological investigation of the younger igneous rocks of the Seychelles microcontinent. *Earth Planet. Sci. Lett.*, 81: 46-56.

Dickin, A. P., Rice, C. M. and Harmon, R. S. (1986) A Sr and O-isotope study of Laramide intrusions and associated mineralization near Central City, Colorado. *Econ. Geol.*, 81: 904-914.

Thompson, R. N. , Morrison, M. A., **Dickin, A. P.**, Gibson, I. L. and Harmon, R. S. (1986) Two contrasting styles of interaction between basic magmas and continental crust in the British tertiary Volcanic Province. *J. Geophys.*, 91: 5985-5997.

Morrison, M. A. , Thompson, R. N. and **Dickin, A. P.** (1985) Geochemical evidence for complex magmatic plumbing during development of a continental volcanic centre. *Geology*, 13: 581-584.

Halliday, A. N., Stephens, W. E., Hunter, R. H., Menzies, M. A., **Dickin, A. P.** and Hamilton, P. J. (1985) Isotopic and chemical constraints on the building of the deep Scottish lithosphere. *Scott. J. Geol.*, 21: 465-491.

Dickin, A. P., Gibb, F. G. F. and Henderson, C. M. B. (1984) Hydrothermal Sr contamination of the Dippin sill, Isle of Arran, Western Scotland. *Mineral. Mag.*, 48: 311-322.

Dickin, A. P. (1984) Provenance of the Old Red Stonestone: Pb isotope evidence from Arran. *Trans Roy. Soc. Edin Earth Sci.*, 75: 239-241.

Halliday, A.N. , Fallick, A. E., **Dickin, A. P.**, Mackenzie, A. B., Stephens, W. E. and Hildreth, W. (1983). The isotopic and chemical evolution of Mount St. Helens. *Earth Planet. Sci. Lett.*, 63: 241-256.

Dickin, A. P. (1983) Hydrothermal fluid pathways at the contact of the Beinn and Dubhaich epigranite, Isle of Skye. *Scott. J. Geol.*, 19: 235-242.

Dickin, A. P. and Jones, N. W. (1983) Isotopic evidence for the age and origin of pitchstones and felsites, Isle of Eigg, NW Scotland. *J. Geol. Soc. Lond.*, 140: 691-700.

Dickin, A. P. and Jones, N. W. (1983) Relative elemental mobility during hydrothermal alteration of a basic sill, Isle of Skye, NW Scotland. *Contrib. Mineral. Petrol.*, 82: 147-153.

Dickin, A. P. and Whyte, F. (1983) Hydrothermal Sr exchange at the contact of the Dumbarton Rock basalt. *Scott. J. Geol.*, 19: 81-86.

Thompson, R. N., **Dickin, A. P.**, Gibson, I. L. and Morrison, M. A. (1982) Elemental fingerprints of isotopic contamination of Hebridean Palaeocene mantle-derived magmas by Archaean Sial. *Contrib. Mineral. Petrol.*, 79: 159-168.

Dickin, A. P. (1981) Hydrothermal leaching of phylite glass in the environment has implications for nuclear waste disposal. *Nature*, 294: 342-347.

Dickin, A. P. (1981) Isotope geochemistry of Tertiary Igneous rocks from the Isle of Skye, NW Scotland. *J. Petrol.*, 22: 155-189.

Dickin, A. P. and Exley, R. A. (1981) Isotopic and geochemical evidence for magma mixing in the petrogenesis of the Coire Uaigneich Granophyre, Isle of Skye, NW Scotland. *Contrib. Mineral. Petrol.*, 76: 98-108.

Dickin, A. P., Moorbath, S. and Welke, H. J. (1981) Isotope, trace element and major element geochemistry of tertiary igneous rocks. Isle of Arran, Scotland. *Trans. Roy. Soc. Edinb. Earth Sci.*, 72: 159-710.

Dickin, A. P., Exley, R. A. and Smith, B. M. (1980) Isotopic measurement of Sr- and O-exchange between meteoric hydrothermal fluid and the Coire Uaigneich Granophyre, Isle of Skye, NW Scotland. *Earth Planet. Sci. Lett.*, 51: 58-70.

Thompson, R. N., Morrison, M. A., Matthey, D. P., **Dickin, A. P.** and Moorbath, S. (1980) An assessment of the Th-Hf-Ta diagram as a discriminant for tectonomagmatic classifications and in the detection of crustal contamination of magmas. *Earth Planet. Sci. Lett.*, 50: 1-10.