

ALEXANDER NORMAN HALLIDAY

MAIN PUBLICATIONS (NO ABSTRACTS)

1976

1. Halliday, A.N. and Mitchell, J.G. 1976 Structural, K-Ar and ^{40}Ar - ^{39}Ar age studies of adularia K-feldspars from the Lizard Complex, England. *Earth Planet. Sci. Lett.* 29, 227-237.
2. Mitchell, J.B. and Halliday, A.N. 1976 Extent of Triassic/Jurassic hydrothermal ore deposits on the north Atlantic margins. *Trans. Instn. Min. Metall. Sect. B.* 85, B159-B161.

1977

3. Halliday, A.N. 1977 K-Ar dating of mineralisation episodes - a discussion. *Econ. Geol.* 72, 870-871.
4. Halliday, A.N., McAlpine, A. and Mitchell, J.G. 1977 The age of the Hoy Lavas, Orkney. *Scott. J. Geol.* 13, 43-52.

1978

5. Halliday, A.N. 1978 ^{40}Ar - ^{39}Ar stepheating studies of clay concentrates from Irish orebodies. *Geochim. Cosmochim. Acta* 42, 1851-1858
6. van Breemen, O., Halliday, A.N., Johnson, M.R.W. and Bowes, D.R. 1978 Crustal additions in Late Precambrian times. In: Leake, B.E. and Bowes, D.R. (eds), *Crustal Processes and Evolution in N.W. Britain and Adjacent Regions*. Geol. J. Spec. Iss., 81-106.

1979

7. Halliday, A.N., Aftalion, M., van Breemen, O. and Jocelyn, J. 1979 Petrogenetic significance of Rb-Sr and U-Pb isotopic systems in the ca 400 Ma old British Isles granitoids and their hosts. In: Harris, A.L., Holland, C.H. and Leake, B.E. (eds.), *The Caledonides of the British Isles - Reviewed*. Geol. Soc. Lond. Spec. Pub., 753-662.
8. Stephens, W.E. and Halliday, A.N. 1979 Compositional variation in the Galloway plutons. In: Atherton, M.P. and Tarney, J. (eds.), *The origin of granite batholiths - geochemical evidence*. Shiva, 9-17.
9. Titterington, D.M. and Halliday, A.N. 1979 On the fitting of parallel isochrons and the method of maximum likelihood. *Chem. Geol.* 26, 183-195.

1980

10. Bluck, B.J., Halliday, A.N., Aftalion, M. and Macintyre, R.M. 1980 Age and origin of Ballantrae ophiolite and its significance to the Caledonian orogeny and Ordovician time scale. *Geology* 8, 492-495.
11. Clarke, D.B. and Halliday, A.N. 1980 Strontium isotope geology of the South Mountain Batholith, Nova Scotia. *Geochim. Cosmochim. Acta* 44, 1045-1058.
12. Halliday, A.N. 1980 The timing of early and main stage ore mineralisation in S.W. Cornwall. *Econ. Geol.* 75, 752-759.
13. Halliday, A.N., Aftalion, M. and Leake, B.E. 1980 A revised age for the Donegal granites. *Nature* 284, 542-543.
14. Halliday, A.N., Stephens, W.E. and Harmon, R.S. 1980 Rb-Sr and O isotopic relationships in three zoned Caledonian granitic plutons, Southern Uplands, Scotland: Evidence for varying sources and hydridisation of magmas. *J. Geol. Soc. Lond.* 137, 329-348.
15. Harmon, R.S. and Halliday, A.N. 1980 Oxygen and strontium isotope relationships in the British Caledonian granites. *Nature* 283, 21-25.
16. Leake, B.E., Brown, G.C. and Halliday, A.N. 1980 The origin of granite magmas: a discussion. *J. Geol. Soc. Lond.* 137, 93-97.
17. Stephens, W.E. and Halliday, A.N. 1980 Discontinuities in the composition surface of a zoned pluton, Criffell, Scotland. *Bull. Geol. Soc. Amer.* 91, 165-170.

1981

18. **Halliday, A.N.** 1981 On the sources of uranium in some Scottish Caledonian granites. *Mineral. Mag.* 44, 437-442.
19. **Halliday, A.N.**, Stephens, W.E. and Harmon, R.S. 1981 Isotopic and chemical constraints on the development of peraluminous Caledonian - Acadian granites. *Can. Mineral.* 19, 205-216.

1982

20. Bluck, B.J. and **Halliday, A.N.** 1982 Reply to comments on "Age and origin of Ballantrae ophiolite and its significance to the Caledonian orogeny and the Ordovician time scale." *Geology* 10, 331-333.
21. Bluck, B.J., **Halliday, A.N.**, Aftalion, M. and Macintyre, R.M. 1982 Age determinations for the Middle Arenig. In: Odin, G.S. (ed.), *Numerical Dating in Stratigraphy*, Wiley, 806.
22. **Halliday, A.N.**, McAlpine, A. and Mitchell, J.G. 1982 $^{40}\text{Ar}/^{39}\text{Ar}$ age of the Hoy Lavas, Orkney. In: Odin, G.S. (ed.), *Numerical Dating in Stratigraphy*, Wiley, 928-931.
23. Jackson, N.J., **Halliday, A.N.**, Sheppard, S.M.F. and Mitchell, J.G. 1982 Hydrothermal activity in the St. Just mining district, Cornwall, England. In: Evans, A.M. (ed.), *Metallisation Associated with Acid Magmatism*. Wiley, 137-179.
24. O'Connor, P.J., Long, C.B., Kennan, P.S., **Halliday, A.N.**, Max, M.D. and Roddick, J.C. 1982 Rb-Sr isochron study of the Thorr and Main Donegal granites, Ireland. *Geol. J.* 17, 279-295.

1983

25. **Halliday, A.N.** 1983 Crustal melting and the genesis of isotopically and chemically zoned plutons in the Southern Uplands of Scotland. In: Atherton, M.P. and Gribble, C.D. (eds.), *Migmatites and Crustal Melting*. Shiva, 54-61.
26. **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.
27. **Halliday, A.N.** and Mitchell, J.G. 1983 K-Ar ages of clay concentrates in Irish orebodies and their bearing on the timing of mineralisation. *Trans. R. Soc. Edinb.: Earth Sci.* 74, 1-14.
28. Hopgood, A.M., Bowes, D.R., Kouvo, O. and **Halliday, A.N.** 1983 U-Pb and Rb-Sr isotopic study of polyphase deformed migmatites in the Svecokareides, southern Finland. In: Atherton, M.P. and Gribble, C.D. (eds.), *Migmatites and Crustal Melting*. Shiva, 80-92.
29. Leake, B.E., Tanner, P.W.G., Singh, D. and **Halliday, A.N.** 1983 Major southward thrusting of the Dalradian rocks of Connemara, western Ireland. *Nature* 305, 210-213.

1984

30. Dickin, A.P., Brown, L., Thompson, R.N., **Halliday, A.N.** and Morrison, M.A. 1984 Crustal contamination and the granite problem in the British Tertiary Volcanic Province. *Phil. Trans. R. Soc. Lond.* A310, 755-780.
31. **Halliday, A.N.** 1984 Coupled Sm-Nd and U-Pb systematics in late Caledonian granites and the basement under northern Britain. *Nature* 307, 229-233.
32. **Halliday, A.N.**, Aftalion, M., Upton, B.G.J., Aspen, P. and Jocelyn, J. 1984a U-Pb isotopic ages from a granulite facies xenolith from Partan Craig in the Midland Valley of Scotland. *Trans. R. Soc. Edinb.: Earth Sci.* 75, 71-74.
33. **Halliday, A.N.**, Fallick, A.E., Hutchinson, J. and Hildreth, W. 1984b A Nd, Sr and O isotopic investigation into the causes of chemical and isotopic zonation in the Bishop Tuff, California. *Earth Planet. Sci. Lett.* 68, 379-391.
34. **Halliday, A.N.** and Mitchell, J.G. 1984 K-Ar ages of clay-size concentrates from the mineralisation of the Pedrosches Batholith, Spain and evidence for Mesozoic hydrothermal activity associated with the break-up of Pangaea. *Earth Planet. Sci. Lett.* 68, 229-239.
35. **Halliday, A.N.** and Stephens, W.E. 1984 Crustal controls on the genesis of the 400 Ma old Caledonian granites. *Phys. Earth Plan. Inter.* 35, 89-104.
36. Hamilton, P.J., Bluck, B.J. and **Halliday, A.N.** 1984 Sm-Nd ages from the Ballantrae Ophiolite Complex, S.W. Scotland. *Trans. R. Soc. Edinb.: Earth Sci.* 75, 183-188.

37. Harmon, R.S., **Halliday, A.N.**, Stephens, W.E. and Clayburn, J.A.P. 1984 Chemical and isotopic systematics of the British Caledonian granites: a guide to magma sources and magma-crust interaction. *Phil. Trans. R. Soc. Lond. A310*, 709-742.
38. Stephens, W.E. and **Halliday, A.N.** 1984 Geochemical contrasts between late Caledonian granitoid plutons of northern, central and southern Scotland. *Trans. R. Soc. Edinb.: Earth Sci.* 75, 259-274.

1985

39. Clarke, D.B. and **Halliday, A.N.** 1985 Sm-Nd isotopic investigation of the age and origin of the Meguma Zone metasedimentary rocks. *Can. J. Earth Sci.* 22, 102-107.
40. **Halliday, A.N.** 1985 Contamination or source region heterogeneity? *Nature (News and Views)* 315, 274.
41. **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. *150th Anniv. Geol. Soc. Edinb. Spec. Iss. Scott. J. Geol.* 21, 465-491.
42. Hutton, D.H.W., Aftalion, M. and **Halliday, A.N.** 1985 An Ordovician ophiolite in County Tyrone, Ireland. *Nature* 315, 210-212.
43. Stephens, W.E., Whitley, J.E., Thirlwall, M.F. and **Halliday, A.N.** 1985 The Criffell zoned pluton: correlated behaviour of rare earth element abundances with isotopic systems. *Contrib. Mineral. Petrol.* 89, 226-238.

1986

44. Dickin, A.P., Fallick, A.E., **Halliday, A.N.**, Macintyre, R.M. and Stephens, W.E. 1986 An isotopic and geochronological study of the younger igneous rocks of the Seychelles. *Earth Planet. Sci. Lett.* 81, 46-56.
45. Donohoe, H.V., **Halliday, A.N.** and Keppie, J.D. 1986 Two new Rb-Sr isochrons from plutons in the Cobequid Highlands, Nova Scotia, Canada. *Mar. Sed. Atlant. Geol.* 22, 148-151.
46. Keppie, J.D. and **Halliday, A.N.** 1986 Rb-Sr isotopic data for three suites of igneous rocks in Cape Breton Island, Nova Scotia, Canada. *Mar. Sed. Atlant. Geol.* 22, 162-171.

1987

47. Gibson, D., McCormick, A.G., Meighan, I.G. and **Halliday, A.N.** 1987 The British Tertiary Igneous Province: Rb-Sr ages of the Mourne Mountains granites. *Scott. J. Geol.* 23, 221-225.
48. **Halliday, A.N.**, Aftalion, M., Dickin, A.P., Johnson, M.R.W. and Parsons, I. 1987 Synorogenic alkaline magmatism and its relationship to the Moine Thrust Zone in North-West Scotland. *J. Geol. Soc. Lond.* 144, 611-617.
49. Holden, P., **Halliday, A.N.** and Stephens, W.E. 1987 Microdiorite enclaves: Nd and Sr isotope evidence for a mantle input to granitoid production. *Nature* 330, 53-56.
50. Menzies, M., **Halliday, A.N.**, Palacz, Z., Hunter, R.H., Upton, B.G.J., Aspen, P. and Hawkesworth, C.J. 1987 Enriched Hebridean mantle xenoliths in Tertiary alkaline dyke at Loch Roag, Outer Hebrides. *Nature* 325, 44-47.
51. Mills, H., **Halliday, A.N.**, Ashton, J.H., Anderson, I.K. and Russell, M.J. 1987 Navan: the origin of a giant orebody. *Nature* 327, 223-226.

1988

52. Clarke, D.B., **Halliday, A.N.**, Hamilton, P.J. 1988 Neodymium isotopic constraints on the origin of the peraluminous granitoids of the South Mountain Batholith, Nova Scotia. *Isotope Geosc.* 9, 15-24.
53. **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.
54. Mahood, G. and **Halliday, A.N.** 1988 The generation of high-silica rhyolite: a Nd, Sr and O isotopic study of Sierra La Primavera, Mexican Volcanic Belt. *Contrib. Mineral. Petrol.* 100, 183-191.
55. Menzies, M. and **Halliday, A.N.** 1988 Chemical provinciality in the Scottish sub-crustal lithosphere. in: Menzies, M.A. and Cox, K.G. (eds.), *Oceanic and Continental Lithosphere: Similarities and Differences*, Spec. Iss. J. Petrol., 275-302.

56. Parsons, I., Rex, D.C., Guise, P. and **Halliday, A.N.** 1988 Argon loss by alkali feldspars. *Geochim. Cosmochim. Acta* 52, 1097-1112.

1989

57. **Halliday, A.N.**, Graham, C.M., Aftalion, M. and Dymoke, P. 1989 The depositional age of the Dalradian Supergroup: U-Pb and Sm-Nd isotopic studies of the Tayvallich Volcanics, Scotland. *J. Geol. Soc. Lond.* 146, 3-6.
58. **Halliday, A.N.**, Luukkonen, E.J. and Bowes, D.R. 1989 Rb-Sr whole rock isotopic study of late Archaean and early Proterozoic granitoid intrusions, Kainuu, eastern Finland. *Bull. Geol. Soc. Finland* 60, 107-113.
59. **Halliday, A.N.**, Mahood, G.A., Holden, P., Metz, J.M., Dempster, T.J. and Davidson, J.P. 1989 Evidence for long residence times of rhyolitic magma in the Long Valley magmatic system: the isotopic record in precaldera rhyolite lavas of Glass Mountain. *Earth Planet. Sci. Lett.* 94, 274-290.

1990

60. Davidson, J.P., deSilva, S.L., Holden, P. and **Halliday, A.N.** 1990 An investigation of small scale disequilibrium in a magmatic inclusion and its more silicic host. *J. Geophys. Res.*, 95, 17661-17675.
61. Dempsey, C.S., **Halliday, A.N.** and Meighan, I.G. 1990 Combined Sm-Nd and Rb-Sr isotope systematics in the Donegal granitoids and their petrogenetic implications. *Geol. Mag.*, 127, 75-80.
62. **Halliday, A.N.** 1990 Reply to comments by R.S.J. Sparks, H.E. Hubbert and C.J.N. Wilson on "Evidence for long residence times of rhyolitic magma in the Long Valley magmatic system: the isotopic record in precaldera rhyolite lavas of Glass Mountain." *Earth Planet. Sci. Lett.* 99, 390-394.
63. **Halliday, A.N.**, Davidson, J.P., Holden, P., DeWolf, C., Lee, D-C. and Fitton, J.G. 1990a Trace element fractionation in plumes and the origin of HIMU mantle beneath the Cameroon line. *Nature*, 347, 523-528.
64. **Halliday, A.N.**, Shepherd, T.J., Dickin, A.P. and Chesley, J.T. 1990b Sm-Nd evidence for the age and origin of a Mississippi Valley Type ore deposit. *Nature*, 344, 54-56.
65. Haughton, P.D.W., Rogers, G. and **Halliday, A.N.** 1990 Provenance of the Lower ORS conglomerates, Kincardineshire: evidence for the timing of Caledonian terrane accretion in central Scotland. *J. Geol. Soc. Lond.*, 147, 105-120.
66. Higgins, N.C., **Halliday, A.N.** and Mitchell, J.G. 1990 Age of the Burgeo Granite and timing of tungsten mineralization at Greys River, southern Newfoundland. *Can. J. Earth Sci.*, 27, 893-902.
67. Hutton, D.H.W., Stephens, W.E., Yardley, B., McErlean, M. and **Halliday, A.N.** 1990 The Ratagain Plutonic Complex. *Technical Report WA/90/79 British Geological Survey*.
68. Nakai, S., **Halliday, A.N.**, Kesler, S.E. and Jones, H.D. 1990 Rb-Sr dating of sphalerites and the genesis of Mississippi Valley Type ore deposits. *Nature*, 346, 354-357.
69. Neal, C.R., Taylor, L.A., Davidson, J.P., Holden, P., **Halliday, A.N.**, Paces, J.B., Clayton, R.N. and Mayeda, T. 1990 Eclogites with oceanic crustal and mantle signatures from the Bellsbank Kimberlite, South Africa, Part 2: Sr, Nd, and O isotope chemistry. *Earth Planet. Sci. Lett.* 99, 362-379.

1991

70. Barrera, E., Barron, J. and **Halliday, A.N.** 1991 Strontium isotope stratigraphy of the Oligocene - Lower Miocene section at Site 744, southern Indian Ocean. *Proc. Ocean Drill. Prog. Scient. Res.* 119, 731-738.
71. Carpenter, S.J., Lohmann, K.C., Holden, P., Walter, L.M., Huston, T., and **Halliday, A.N.** 1991 $\delta^{18}\text{O}$, $^{87}\text{Sr}/^{86}\text{Sr}$ and Sr/Mg ratios of late Devonian abiotic marine calcite: Implications for the composition of ancient seawater. *Geochim. Cosmochim. Acta*, 55, 1991-2010.
72. Chesley, J.T., **Halliday, A.N.**, Shepherd, T.J. and Scrivener, R.C. 1991 Sm-Nd direct dating of fluorite mineralization. *Science*, 252, 949-951.
73. DeWolf, C.P. and **Halliday, A.N.** 1991 U-Pb dating of a remagnetized Paleozoic limestone. *Geophys. Res. Lett.*, 18, 1445-1448.
74. Dickin, A.P., **Halliday, A.N.**, and Bowden, P.E. 1991 A Pb, Sr and Nd isotope study of the basement and Mesozoic ring complexes of the Jos Plateau, Nigeria. *Chem. Geol. (Isotope Geoscience)* 94, 23-32.

75. **Halliday, A.N.**, Davidson, J., Hildreth, W. and Holden, P. 1991a Modelling the petrogenesis of high Rb/Sr silicic magmas. *Chem. Geol.* 92, 107-114.
76. **Halliday, A.N.**, Ohr, M., Mezger, K., Chesley, J.T., Nakai, S., DeWolf, C.P. 1991b Recent developments in dating ancient crustal fluid flow. *Reviews Geophys.*, 29, 577-584.
77. Haughton, P.D.W. and **Halliday, A.N.** 1991 Significance of late Caledonian igneous complex revealed by clasts in Lower Old Red Sandstone conglomerates, Scotland. *Bull. Geol. Soc. Amer.*, 103, 1476-1492.
78. Hildreth, W., **Halliday, A.N.** and Christiansen, R.L. 1991 Isotopic and chemical evidence concerning the genesis and contamination of basaltic and rhyolitic magma beneath the Yellowstone Plateau Volcanic Field. *J. Petrol.*, 32, 63-138.
79. Holden, P., **Halliday, A.N.**, Stephens, W.E. and Henney, P. 1991 Chemical and isotopic evidence for major mass transfer between mafic enclaves and felsic magma. *Chem. Geol.* 92, 135-152.
80. Mezger, K., van der Pluijm, B.A., Essene, E.J. and **Halliday, A.N.** 1991 The synorogenic collapse of a Proterozoic Orogen: Evidence from the Grenville Terrane. *Science*, 254, 695-698.
81. Ohr, M., **Halliday, A.N.** and Peacor, D.R. 1991 Sr and Nd isotopic evidence for punctuated clay diagenesis, Texas Gulf Coast. *Earth Planet. Sci. Lett.* 105, 110-126.
82. Paces, J.B., Nakai, S., Neal, C.R., Taylor, L.A., **Halliday, A.N.** and Lee, D-C. 1991 A Sr and Nd isotopic study of Apollo 17 high Ti mare basalts: Resolution of ages, evolution of magmas and origins of source heterogeneities. *Geochim. Cosmochim. Acta*, 55, 2025-2043.
83. Quinn, T.M., Lohmann, K.C. and **Halliday, A.N.** 1991 Sr isotopic variation in shallow water carbonate sequences: Stratigraphic, chronostratigraphic and eustatic implications of the record at Enewetak Atoll. *Paleoceanography*, 6, 371-385.
84. Reavy, R.J., Stephens, W.E., Fallick, A.E., **Halliday, A.N.** and Godhine, M.M. 1991 Geochemical and isotopic constraints on granite petrogenesis: the Portuguese Hercynian. *Bull. Geol. Soc. Amer.*, 103, 392-401.

1992

85. **Halliday, A.N.** 1992 "Dating the pages of Earth history" Chapter 14 of *Holmes' Principles of Physical Geology* 4th Edition, Chapman and Hall.
86. **Halliday, A.N.**, Davidson, J.P., Holden, P.E., Owen, R.M. and Olivarez, A.M. 1992a Metalliferous sediments and the scavenging residence time of Nd near hydrothermal vents. *Geophys. Res. Lett.*, 19, 761-764.
87. **Halliday, A.N.**, Davies, G.R., Lee, D-C., Tomassini, S., Paslick, C.R., Fitton, J.G. and James, D. 1992b Lead isotopic evidence for young trace element enrichment in the oceanic upper mantle. *Nature*, 359, 623-627.
88. Koch, P.L., **Halliday, A.N.**, Walter, L.M., Stearley, R.F., Huston, T.J. and Smith, G.R. 1992 Sr isotopes in hydroxyapatite from recent and fossil salmon: Migration during life and diagenetic alteration. *Earth Planet. Sci. Lett.* 108, 277-287.
89. Mezger, K., Essene, E.J. and **Halliday, A.N.** 1992 Closure temperature of the Sm-Nd system in metamorphic garnets. *Earth Planet. Sci. Lett.* 113, 397-409.
90. Mezger, K., van der Pluijm, B.A., Essene, E.J. and **Halliday, A.N.** 1992 The Carthage-Colton Mylonite Zone (Adirondack Mountains, New York): the site of a cryptic suture in the Grenville Orogen?. *J. Geol.*, 100, 630-638.

1993

91. Chesley, J.T., **Halliday, A.N.**, Snee, L.W., Mezger, K., Shepherd, T.J. and Scrivener, R.C. 1993 Thermochronology of the Cornubian Batholith: Implications for pluton emplacement and protracted hydrothermal mineralization. *Geochim. Cosmochim. Acta*, 57, 1817-1835.
92. **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 lower continental crust: evidence from Scottish xenolith suites. *J. Geophys. Res.*, B98, 581-607.
93. Lee, D-C., **Halliday, A.N.**, Hunter, R.H., Holden, P., and Upton, B.G.J. 1993 Rb-Sr and Sm-Nd isotopic variations in dissected crustal xenoliths. *Geochim. Cosmochim. Acta*, 57, 219-230.

94. Mezger, K., van der Pluijm, B.A., Essene, E.J. and **Halliday, A.N.** 1993 Ancient crustal tectonics: U-Pb geochronology of the Grenville Orogen in Ontario. *Contrib. Mineral. Petrol.*, 114, 13-26.
95. Nakai, S., **Halliday, A.N.**, Kesler, S.E., Jones, H.D., Kyle, J.R. and Lane, T.E. 1993a Rb-Sr dating of sphalerites from Mississippi Valley Type (MVT) ore deposits. *Geochim. Cosmochim. Acta*, 57, 417-427.
96. Nakai, S., **Halliday, A.N.** and Rea, D.K. 1993b Provenance of dust in the Pacific Ocean. *Earth Planet. Sci. Lett.* 119, 143-157.
97. Paslick, C.R., **Halliday, A.N.**, Davies, G.R., Mezger, K. and Upton, B.G.J. 1993 Timing of Proterozoic magmatism in the Gardar Province, Southern Greenland. *Bull. Geol. Soc. Amer.*, 105, 272-278.
98. Snyder, G.A., Jerde, E.A., Taylor, L.A., **Halliday, A.N.**, Sobolev, V.N. and Sobolev, N.V. 1993 Nd and Sr isotopes from diamondiferous eclogites, Udachnaya kimberlite pipe, Yakutia, Siberia: Evidence of differentiation in the early Earth? *Earth Planet. Sci. Lett.* 118, 91-100.

1994

99. Chesley, J.T., **Halliday, A.N.**, Kyser, T.K. and Spry, P.G. 1994 Direct dating of Mississippi Valley-type mineralization: Use of Sm-Nd in fluorite. *Econ. Geol.*, 89, 1192-1199.
100. Davies, G.R., **Halliday, A.N.**, Mahood, G.A. and Hall, C.M. 1994 Isotopic constraints on the production rates, crystallization histories and residence times of precaldera silicic magmas, Long Valley, California. *Earth Planet. Sci. Lett.* 125, 17-37.
101. Feldstein, S. N., **Halliday, A.N.**, Davies, G.R. and Hall, C.M. 1994 Isotope and chemical microsampling: Constraints on the history of an S-type rhyolite, San Vincenzo, Tuscany, Italy. *Geochim. Cosmochim. Acta*. 58, 943-958.
102. Jones, C.E., **Halliday, A.N.**, Rea, D.K. and Owen, R.M. 1994 Neodymium isotopic variations in North Pacific modern silicate sediments and the insignificance of detrital REE contributions to seawater. *Earth Planet. Sci. Lett.* 127, 55-66.
103. Lee, D.-C., **Halliday, A.N.**, Fitton, J.G. and Poli, G. 1994 Isotopic variations with distance and time in the oceanic sector of the Cameroon line: evidence for a mantle plume origin and rejuvenation of magma transport paths. *Earth Planet. Sci. Lett.* 123, 119-138.
104. Meert, J.G., Hargraves, R.B., Van der Voo, R., Hall, C.M. and **Halliday, A.N.** 1994 Paleomagnetic and $^{40}\text{Ar}/^{39}\text{Ar}$ studies of Late Kibaran intrusives in Burundi, East Africa: Implications for Late Proterozoic supercontinents. *J. Geology*, 102, 621-637.
105. Ohr, M., **Halliday, A.N.** and Peacor, D.R. 1994 Low temperature mobility and fractionation of rare earth elements in argillaceous sediments: potential for dating diagenesis and low-grade metamorphism. *Geochim. Cosmochim. Acta*, 58, 289-312.
106. Quinn, T.M., Taylor, F.W. and **Halliday, A.N.** 1994 Sr isotopic dating of neritic carbonates at Bougainville Guyot (ODP Site 831), New Hebrides island arc. *Proc. Ocean Drill. Prog. Scient. Res.* 134, 89-95.
107. Snyder, G.A., Lee, D.-C., Taylor, L.A., **Halliday, A.N.** and Jerde, E.A. 1994 Evolution of the upper mantle of the Earth's Moon: Nd and Sr isotopic constraints from High-Ti Mare Basalts. *Geochim. Cosmochim. Acta*, 58, 4795-4808.

1995

108. Christensen, J.N., **Halliday, A.N.** Lee, D.-C., and Hall, C.M. 1995 *In situ* Sr isotopic analyses by laser ablation, *Earth Planet. Sci. Lett.* 136, 79-85.
109. Christensen, J.N., **Halliday, A.N.** and Kesler, S.E. 1995 Age and genesis of the Polaris MVT deposit from direct Rb-Sr dating of sulfides, *Geochim. Cosmochim. Acta*. 59, 5191-5197.
110. Christensen, J.N., **Halliday, A.N.**, Verncombe, J.R. and Kesler, S.E. 1995c Testing models of large-scale crustal fluid flow using direct dating of sulfides: Rb-Sr evidence for early dewatering and formation of MVT deposits, Canning Basin, Australia, *Econ. Geol.*, 90, 877-884.
111. Dong, H., Hall, C.M., Peacor, D.R. and **Halliday, A.N.** 1995 Mechanisms of argon retention in clays revealed by laser $^{40}\text{Ar}-^{39}\text{Ar}$ dating. *Science*, 267, 355-359.

112. Graney, J.R., **Halliday, A.N.**, Keeler, G.J., Nriagu, J.O., Robbins, J.A. and Norton, S.A. 1995 Isotopic record of lead pollution in lake sediments from the northeastern United States. *Geochim. Cosmochim. Acta*, 59, 1715-1728.
113. **Halliday, A.N.** 1995 Review of "Radiogenic Isotope Geology" by A.P. Dickin. *Econ. Geol.* 90, 2099-2100.
114. **Halliday, A.N.**, Lee, D-C., Christensen, J.N., Walder, A.J., Freedman, P.A., Jones, C.E., Hall, C.M., Yi, W. and Teagle, D. 1995 Recent developments in inductively coupled plasma magnetic sector multiple collector mass spectrometry. *Int. J. Mass Spec. Ion Process.*, 146/147, 21-33.
115. **Halliday, A.N.**, Lee, D-C., Tomassini, S., Davies, G.R., Paslick, C.R., Fitton, J.G. and James, D. 1995 Incompatible trace elements in OIB and MORB and source enrichment in the sub-oceanic mantle. *Earth Planet. Sci. Lett.* 133, 379-395.
116. Jones, C.E., **Halliday, A.N.** and Lohmann, K.C. 1995 The impact of diagenesis on high precision U-Pb dating of ancient carbonates: an example from the late Permian of New Mexico. *Earth Planet. Sci. Lett.* 134, 409-423.
117. Lee, D.-C. and **Halliday, A.N.** 1995 Precise determinations of the isotopic compositions and atomic weights of molybdenum, tellurium, tin and tungsten using ICP source magnetic sector multiple collector mass spectrometry. *Int. J. Mass Spec. Ion Process.*, 146/147, 35-46.
118. Lee, D.-C. and **Halliday, A.N.** 1995 Hafnium-tungsten chronometry and the timing of terrestrial core formation. *Nature* 378, 771-774.
119. Paslick, C., **Halliday, A.N.**, James, D. and Dawson, J.B. 1995 Enrichment of the continental lithosphere by OIB melts: isotopic evidence from the volcanic province of Northern Tanzania. *Earth Planet. Sci. Lett.* 130, 109-126.
120. Snyder, G.A., Neal, C.R., Taylor, L.A. and **Halliday, A.N.** 1995 Processes involved in the formation of magnesian-suite plutonic rocks from the Earth's Moon. *J. Geophys. Res. - Planets*, 100, E5, 9365-9388,
121. Snyder, G.A., Taylor, L.A. and **Halliday, A.N.** 1995 Chronology and petrogenesis of the Lunar Highlands Alkali Suite: Cumulates from KREEP basalt crystallization. *Geochim. Cosmochim. Acta*, 59, 1185-1203.
122. Tommasini, S., Poli, G. and **Halliday, A.N.** 1995 The role of sediment subduction and recent crustal growth in Hercynian plutonism: isotopic and trace element evidence from the Sardinia Corsica Batholith. *J. Petrol.* 36, 1305-1332.
123. Yi, W., **Halliday, A.N.**, Lee, D.-C. and Christensen, J.N. 1995 Indium and tin in basalts, sulfides and the mantle, *Geochim. Cosmochim. Acta*. 24, 5081-5090.

1996

124. Alt, J.C., Teagle, D.A.H., Bach, W., **Halliday, A.N.** and Erzinger, J. 1996 Stable and Strontium Isotopic profiles through hydrothermally altered upper ocean crust, ODP Hole 504B. *in* Alt, J.C., Kinoshita, H., Stokking, L.M., and Michael, P. *et al.*, *Proc. ODP, Sci. Results*, 148, 57-69.
125. Boundy, T.M., Essene, E.J., Hall, C.M., Austrheim, H., and **Halliday, A.N.** 1996 Rapid exhumation of lower crust during continent-continent collision and late extension: evidence from $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating of hornblende and muscovite, Caledonian Orogen, western Norway. *Bull. Geol. Soc. Amer.*, 108, 1425-1437.
126. Christensen, J.N. and **Halliday, A.N.** 1996 Rb-Sr ages and Nd isotopic compositions of melt inclusions from the Bishop Tuff and the generation of silicic magma, *Earth Planet. Sci. Lett.* 144, 547-561.
127. DeWolf, C.P., Zeissler, C., **Halliday, A.N.**, Mezger, K. and Essene, E.J. 1996 The role of inclusions in U-Pb and Sm-Nd garnet geochronology: Stepwise dissolution experiments and trace uranium mapping by fission track analysis. *Geochim. Cosmochim. Acta* 60, 121-134.
128. **Halliday, A.N.**, Rehkämper, M., Lee, D-C. and Yi, W. 1996 Early evolution of the Earth and Moon: New constraints from Hf-W isotope geochemistry. *Earth Planet. Sci. Lett.* 142, 75-90.
129. Israelson, C., **Halliday, A.N.** and Buchardt, B. 1996 U-Pb dating of calcite concretions from black shales and the Phanerozoic time scale. *Earth Planet. Sci. Lett.* 141, 153-159.
130. Lee, D.-C. and **Halliday, A.N.** 1996 Hafnium-tungsten isotopic evidence for rapid accretion and differentiation in the early solar system. *Science*, 274, 1876-1879.

131. Lee, D.-C., **Halliday, A.N.**, Davies, G.R., Essene, E.J., Fitton, J.G. and Temdjim, R. 1996 Melt enrichment of shallow depleted mantle: a detailed petrological, trace element and isotopic study of mantle derived xenoliths and megacrysts from the Cameroon line. *J. Petrol.*, 37, 415-441.
132. Mahood, G.A., Nibler, G.E. and **Halliday, A.N.** 1996 Zoning patterns and petrologic processes in peraluminous magma chambers: Hall Canyon pluton, Panamint Mountains, California. *Bull. Geol. Soc. Amer.* 108, 437-453.
133. Paslick, C., **Halliday, A.N.**, Lange, R.A., James, D. and Dawson, J.B. 1996 Indirect crustal contamination: evidence from isotopic and chemical disequilibria in minerals from alkali basalts and nephelinites from northern Tanzania. *Contrib. Min. Petrol.* 125, 277-292.
134. Petford, N., Atherton, M.P. and **Halliday, A.N.** 1996 Rapid magma production rates, underplating and remelting in the Andes: isotopic evidence from northern-central Peru (9-11°S). *J. South Amer. Earth Sci.* 9, 69-78.
135. Poli, G., Tommasini, S. and **Halliday, A.N.** 1996 Trace element and isotopic exchange during acid-basic magma interaction processes. *Trans. R. Soc. Edinb. Hutton Volume* 87, 225-232.
136. Snyder, G.A., Hall, C.M., Lee, D.-C., Taylor, L.A. and **Halliday, A.N.** 1996 Oldest high-Ti volcanism on the Moon: ^{40}Ar - ^{39}Ar , Sm-Nd and Rb-Sr isotopic studies of Group D basalts from the Apollo 11 landing site. *Meteoritics and Planetary Sci.* 31, 328-334.
137. Teagle, D.A.H., Alt, J.C., Bach, W., **Halliday, A.N.** and Erzinger, J. 1996 Alteration of upper ocean crust in a ridge flank hydrothermal up-flow zone: mineral, chemical and isotopic constraints from ODP Hole 896A. In Alt, J.C., Kinoshita, H., Stokking, L.M., and Michael, P. (eds.) *Proc. ODP, Sci Results*, 148, 119-150.
138. Weber II, E.T., Owen, R.M., Dickens, G.R., **Halliday, A.N.**, Jones, C.E. and Rea, D.K. 1996 Quantitative resolution of continental eolian material and volcanic ash in North Pacific surface sediment. *Paleoceanography* 11, 115-127.

1997

139. Ballentine, C., Lee, D-C. and Halliday, A. N. 1997 Hafnium isotopic studies of the Cameroon line and new HIMU paradoxes. *Chem. Geol. A.W. Hofmann volume*, 139, 111-124.
140. Boundy, T.M., Hall, C.M., Li, G., Essene, E.J. and **Halliday, A.N.** 1997 Fine-scale fluid distribution in the deep crust: a combined ^{40}Ar / ^{39}Ar laser ablation and TEM study of single muscovites from a granulite-eclogite transition zone. *Earth Planet. Sci. Lett.*, 147, 223-242.
141. Christensen, J.N., **Halliday, A.N.**, Godfrey, L.V., Hein, J.R. and Rea, D.K. 1997a Climate and ocean dynamics and the lead isotopic records in Pacific ferro-manganese crusts, *Science*, 277, 913-918.
142. Christensen, J.N., **Halliday, A.N.** and Kesler, S.E. 1997b Rb-Sr dating of sphalerite and the ages of Mississippi-Valley-Type Pb-Zn deposits. In *Carbonate hosted lead-zinc deposits* ed: D.F. Sangster, Reviews in Economic Geology, Society of Economic Geologists Special Publication Number 4, 527-535.
143. Conway, F.M., Ferrill, D.A., Hall, C.M., Morris, A.P., Stamatakos, J.A., Connor, C.B., **Halliday, A.N.** and Condit, C., 1997 Timing of basaltic volcanism along the Mesa Butte Fault in the San Francisco Volcanic Field, Arizona, from ^{40}Ar / ^{39}Ar ages: Implications for longevity of cinder cone alignments. *J. Geophys. Res.*, 102, 815-824.
144. Dawson, J.B., James, D., Paslick, C. and **Halliday, A.N.** 1997 Ultrabasic potassic low-volume magmatism and continental rifting in north-central Tanzania; association with enhanced heat flow. *Russian Geology and Geophysics* 38, Special Issue, Proc. 6th Internat. Kimberlite Conf. 1, *Kimberlites, related rocks and mantle xenoliths*, 69-81.
145. Dong, H., Hall, C.M., **Halliday, A.N.** and Peacor, D.R. 1997a Laser ^{40}Ar - ^{39}Ar dating of microgram-size illite samples and implications for thin section dating. *Geochim. Cosmochim. Acta*, 61, 3803-3808.
146. Dong, H., Hall, C.M., Peacor, D.R., **Halliday, A.N.**, Merriman, R.J. and Roberts, B. 1997b ^{40}Ar - ^{39}Ar dating of metamorphism and cooling in bentonites and slates using anchizonal and epizonal illite. *Earth Planet. Sci. Lett.* 150, 337-351.

147. Godfrey, L.V., Lee, D-C., Sangrey, W.F., **Halliday, A.N.**, Salters, V.J.M., Hein, J.R. and White, W.M., 1997 The Hf isotopic composition of ferromanganese nodules and crusts and hydrothermal manganese deposits: Implications for seawater Hf. *Earth Planet. Sci. Lett.* 151, 91-105.
148. Hall, C.M., Higueras, P., Kesler, S.E., Hunar, R., Dong, H. and **Halliday, A.N.** 1997 Dating of alteration episodes related to mercury mineralization in the Almadén District, Spain. *Earth Planet. Sci. Lett.* 147, 287-298.
149. **Halliday, A.N.** 1997 Radioactivity, the discovery of time and the earliest history of the Earth. *Contemp. Physics*, 38, 103-114.
150. **Halliday, A.N.** and Robbins, J.A. 1997 Lead isotopes (geochemistry). In *Encyclopedia of Science and Technology* 8th Edition, McGraw Hill.
151. Lee, D.-C. and **Halliday, A.N.** 1997 Core formation on Mars and differentiated asteroids. *Nature*, 388, 854-857.
152. Lee, D.-C. **Halliday, A.N.**, Snyder, G.A. and Taylor, L.A. 1997 Age and origin of the Moon. *Science*, 278, 1098-1103.
153. Luo, X., Lee, D.-C., Rehkämper, M., and **Halliday, A.N.** 1997 High precision $^{230}\text{Th}/^{232}\text{Th}$ and $^{234}\text{U}/^{238}\text{U}$ measurements using energy-filtered ICP magnetic sector multiple collector mass spectrometry. *Int. J. Mass Spec. Ion Process.* 171, 105-117.
154. Rehkämper, M. and **Halliday, A.N.** 1997 Separation of Pt, Ir, Pd and other siderophile elements from geological samples with application to trace element geochemistry. *Talanta*, 44, 663-672.
155. Rehkämper, M., **Halliday, A. N.**, Barfod, D., Fitton, J.G. and Dawson, J.B. 1997 Platinum group element abundance patterns in different mantle environments. *Science*, 278, 1595-1598.
156. Snyder, G.A., Neal, C.R., Taylor, L.A. and **Halliday, A.N.** 1997 Anatexis of lunar cumulate mantle in time and space: clues from trace element, Sr, and Nd isotopic chemistry of parental, Apollo-12 basalts. *Geochim. Cosmochim. Acta*, 61, 2731-2747.
157. Snyder, G.A., Taylor, L.A., Crosaz, G., **Halliday, A.N.**, Beard, B.L., Sobolev, V.N. and Sobolev, N.V. 1997 The origins of Yakutian eclogite xenoliths. *J. Petrol.*, 38, 85-113.

1998

158. Alt, J.C., Teagle, D.A.H., Brewer, T., Shanks, W.C. III and **Halliday, A.N.** 1998 Alteration and mineralization of an oceanic forearc and the ophiolite-ocean crust analogy. *J. Geophys. Res.*, 103, 12365-12380.
159. Davies, G.R. and **Halliday, A.N.**, 1998 Development of the Long Valley rhyolitic magmatic system; Sr and Nd isotope evidence from glasses, individual phenocrysts and core-rim differences. *Geochim. Cosmochim. Acta*, 62, 3561-3574.
160. **Halliday, A.N.** 1998 Earth, age of. In *Encyclopedia of Science and Technology Yearbook*, McGraw Hill, 102-103.
161. **Halliday, A.N.**, Christensen, J.N., Lee, D-C., Hall, C.M., Ballentine, C.J., Rehkämper, M., Yi, W., Luo, X. and Barfod, D. 1998 ICP multiple collector mass spectrometry and *in situ* high precision isotopic analysis. In: *Applications of microanalytical techniques to understanding mineralizing processes* eds: M.A. McKibben, W.C.P. Shanks III and W.I. Ridley, Reviews in Economic Geology 7, Society of Economic Geologists, 37-51.
162. **Halliday, A.N.**, Lee, D-C., Christensen, J.N., Rehkämper, M., Yi, W., Luo, X., Hall, C.M., Ballentine, C.J., Pettke, T. and Stirling, C. 1998 Applications of multiple collector ICPMS to cosmochemistry, geochemistry and paleoceanography. (The 1997 Geochemical Society Presidential Address.) *Geochim. Cosmochim. Acta* 62, 919-940.
163. Rehkämper, M. and **Halliday, A.N.** 1998 Accuracy and long-term reproducibility of lead isotopic measurements by MC-ICPMS using an external method for correction of mass discrimination. *Int. J. Mass Spec. Ion Proc.*, 181, 123-133.
164. Rehkämper, M., **Halliday, A.N.** and Wentz, R.F. 1998 Low blank digestion of geological samples for platinum group element analysis using a modified Carius Tube design. *Fresenius J. Anal. Chem.*, 361, 217-219.

165. Snyder, G.A., Taylor, L.A., Beard, B.L., Crozaz, G., **Halliday, A.N.**, Sobolev, V.N. and Sobolev, N.V. 1998 Reply to a comment by D. Jacob et al. on "The Origins of Yakutian Eclogite Xenoliths", *J. Petrology* 39, 1535-1543.
166. Teagle, D.A.H., Alt, J.C., Chiba, H. and **Halliday, A.N.** 1998 Dissecting an active hydrothermal deposit: The strontium and oxygen isotopic anatomy of the TAG hydrothermal mound, Part II - anhydrite. *in* Herzig, P.M., Humphris, S.E., Miller, D.J. and Zierenberg, R.A. (Eds.) *Proc. ODP, Sci. Results*, 158, 129-141.
167. Teagle, D.A.H., Alt, J.C., Chiba, H., Humphris, S.E and **Halliday, A.N.** 1998 Strontium and oxygen isotopic constraints on fluid mixing, alteration and mineralization in the TAG hydrothermal deposit. *Chem. Geol.* 149, 1-24.
168. Teagle, D.A.H., Alt, J.C. and **Halliday, A.N.** 1998 Tracing the chemical evolution of fluids during hydrothermal recharge: Constraints from anhydrite recovered in ODP Hole 504B. *Earth Planet. Sci. Lett.* 155, 167-182.
169. Teagle, D.A.H., Alt, J.C. and **Halliday, A.N.** 1998 Tracing the evolution of hydrothermal fluids in the upper oceanic crust: Sr isotopic constraints from DSDP/ODP Hole 504B and 896A. *in Modern ocean floor processes and the geological record*, Eds. K. Harrison and R.A. Mills, Geol. Soc. Lond. Spec. Pub., 81-97.
170. Teagle, D.A.H., Alt, J.C., Humphris, S.E. and **Halliday, A.N.** 1998 Dissecting an active hydrothermal deposit: The strontium and oxygen isotopic anatomy of the TAG hydrothermal mound, Part I - whole rocks and silicate minerals. *in* Herzig, P.M., Humphris, S.E., Miller, D.J. and Zierenberg, R.A. (Eds.) *Proc. ODP, Sci. Results*, 158, 297-309.
171. Yi, W., **Halliday, A.N.**, Lee, D-C. and Rehkämper, M., 1998 Precise determination of cadmium, indium and tellurium using multiple collector ICP-MS. *Geostandards Newsletter: The Journal of Geostandards and Geoanalysis*, 22, 173-179.

1999

172. Amelin, Y., Lee, D-C., **Halliday, A.N.** and Pidgeon, R.T. 1999 Nature of the earth's earliest crust from hafnium isotopes in single detrital zircons *Nature* 399, 252-255.
173. Barfod, D., Ballentine, C.J., **Halliday, A.N.** and Fitton, J.G., 1999 Noble gases in the Cameroon line and the He, Ne, and Ar isotopic compositions of high mu (HIMU) mantle, *J. Geophys. Res.* 104, 25509-25527
174. Burton, K.W., Lee, D-C., Christensen, J.N. and **Halliday, A.N.** 1999 Actual timing of neodymium isotopic variations recorded by Fe-Mn crusts in the western North Atlantic. *Earth Planet. Sci. Lett.* 171, 149-156.
175. **Halliday, A.N.** 1999 Acceptance speech for the 1998 Bowen Award, American Geophysical Union, *Eos* 80, 143-145.
176. **Halliday, A.N.** 1999 Unmixing Hawaiian cocktails, *Nature (News and Views)* 399, 733-734.
177. **Halliday, A.N.** 1999 Excited atoms, planetary collisions and differences between Earth and Mars (in German: "Angeregte Atome, planetare Zusammenstöße und Unterschiede zwischen Erde und Mars"). *Naturforschende Gesellschaft in Zürich* 144/4, 159-168.
178. **Halliday, A.N.** and Drake, M. 1999 Origin of the earth and moon: colliding theories, *Science* 283, 1861-1863.
179. **Halliday, A.N.** and Drake, M. 1999 Scientists debate origin of the earth and moon, *Eos* 80, 215.
172. **Halliday, A.N.** and Lee, D-C. 1999 Tungsten isotopes and the early development of the Earth and Moon. *Geochim. Cosmochim. Acta*, (C.J. Allègre 60th Birthday Volume) 63, 4157-4179.
173. Lee, D-C., **Halliday, A.N.**, Hein, J.R., Burton, K.W., Christensen, J.N. and Gunther, D. 1999 Hafnium isotope stratigraphy of ferromanganese crusts. *Science* 285, 1052-1054.
174. Rehkämper, M. and **Halliday, A.N.** 1999 The precise measurement of Ti isotopic compositions by MC-ICPMS: Application to the analysis of geological materials and meteorites. *Geochim. Cosmochim. Acta* 63, 935-944.
175. Rehkämper, M., **Halliday, A.N.**, Alt, J., Fitton, J.G., Zipfel, J. and Takazawa, E. 1999 Non-chondritic platinum group element ratios in abyssal peridotites: petrogenetic signature of melt percolation? *Earth Planet. Sci. Lett.* 172, 65-81.

176. Rehkämper, M., **Halliday, A.N.**, Fitton, J.G., Lee, D-C, and Wieneke, M. 1999 Ir, Ru, Pt and Pd in basalts and komatiites: new constraints for the geochemical behavior of the platinum-group elements in the mantle. *Geochim. Cosmochim. Acta* 63, 3915-3934.
177. Snyder, G.A., Taylor, L.A., Beard, B.L., **Halliday, A.N.**, Sobolev, N.V. and Dimakov, S.K. 1999, The diamond-bearing Mir eclogites, Yakutia: Nd and Sr isotopic evidence for a possible early to mid-proterozoic depleted mantle source with arc affinity, *Proc. 7th Int'l Kimberlite Conf.*, Vol. 2, Ed. Gurney, Gurney, Pascoe, & Richardson, National Printers, So. Afr., 808-815.
178. Yi, W., Budd, P., McGill, R.A.R., Young, S.M.M., **Halliday, A.N.**, Haggerty, R., Scaife, B. and Pollard, A.M. 1999 Tin isotope studies of experimental and prehistoric bronzes. In Hauptmann, A., Pernicka, E., Rehren, T. & Yalcin, U. (eds) *The Beginnings of Metallurgy*, Der Anschnitt Beiheft 9. Deutschen berbau-Museum: Bochum, 285-290.
179. Zachos, J.C., Opdyke, B.N., Quinn, T.M., Jones, C.E., **Halliday, A.N.** and Salamy, K.A. 1999 Early Cenozoic glaciation, Antarctic weathering, and seawater $^{87}\text{Sr}/^{86}\text{Sr}$: is there a link? *Chem. Geol.*, 161, 165-180.

2000

180. Amelin, Y., Lee, D-C. and **Halliday, A.N.** 2000 Early-middle Archean crustal evolution deduced from Lu-Hf and U-Pb isotopic studies of single zircon grains, *Geochim. Cosmochim. Acta*, 64, 4205-4225.
181. Burton, K.W., Schiano, P., Birck, J-L., Allègre, C.J., Rehkämper, M. and **Halliday, A.N.** 2000 The distribution and behaviour of Re and Os amongst mantle minerals and the consequences of metasomatism and melting on mantle lithologies, *Earth Planet. Sci. Lett.* 183, 93-106.
182. Dong, H., Hall, C.M., Peacor, D.R., **Halliday, A.N.** and Pevear, D.R. 2000 $^{40}\text{Ar}/^{39}\text{Ar}$ dating of clay diagenesis in the Texas Gulf Coast using authigenic-detrital mixtures. *Earth Planet. Sci. Lett.* 175, 309-325.
183. **Halliday, A.N.** 2000 Terrestrial accretion rates and the origin of the Moon, *Earth Planet. Sci. Lett.* 176, 17-30.
184. **Halliday, A.N.** 2000 Hf-W chronometry and inner solar system accretion rates, in: W. Benz, R. Kallenbach and G. Lugmair (eds) *From Dust to Terrestrial Planets*, Space Science Reviews 92, 355-370.
185. **Halliday, A.N.**, Christensen, J.N., Lee, D-C., Rehkämper, M., Hall, C.M., and Luo, X. 2000 Multiple collector inductively coupled plasma mass spectrometry. In: *Inorganic mass spectrometry, fundamentals and applications* eds: C.B. Barshick, D.C. Duckworth and D.H. Smith, Marcel Dekker Inc., New York, Chapter 8, 291-328.
186. **Halliday, A.N.**, Lee, D-C. and Jacobsen, S.B. 2000 Tungsten isotopes, the timing of metal-silicate fractionation and the origin of the earth and moon, in: K. Righter and R. Canup (eds) *Origin of the Earth and Moon* Univ. Arizona Press, 45-62.
187. Jones, C.E., **Halliday, A.N.**, Rea, D.K. and Owen, R.M. 2000 Eolian inputs of lead to the North Pacific. *Geochim. Cosmochim. Acta* 64, 1405-1416.
188. Lee, D-C. and **Halliday, A.N.** 2000 Hf-W isotopic systematics of ordinary chondrites and the initial $^{182}\text{Hf}/^{180}\text{Hf}$ of the solar system. *Chem. Geol.* (G.J. Wasserburg Spec. Iss.) 169, 35-43.
189. Lee, D-C. and **Halliday, A.N.** 2000 Accretion of primitive planetesimals: Hf-W isotopic evidence from enstatite chondrites. *Science* 288, 1629-1631.
190. Leya, I., Wieler, R. and **Halliday, A.N.** 2000 Cosmic-ray production of tungsten isotopes in lunar samples and meteorites and its implications for Hf-W cosmochemistry, *Earth Planet. Sci. Lett.* 175, 1-12.
191. Müller, W., Aerden, D. and **Halliday, A.N.** 2000 Isotopic dating of strain fringe increments: Duration of deformation in natural fault zones. *Science* 288, 2195-2198.
192. Pettke, T., **Halliday, A.N.**, Hall, C.M. and Rea, D.K., 2000 Dust production and deposition in Asia and the North Pacific Ocean over the past 12 Myrs. *Earth Planet. Sci. Lett.* 178, 397-413.
193. Piotrowski, A. M., Lee, D-C., Christensen, J.N., Burton, K.W., **Halliday, A.N.**, Hein, J.R., and Gunther, D. 2000 Changes in erosion and circulation recorded in the Hf isotopic compositions of North Atlantic and Indian Ocean ferromanganese crusts. *Earth Planet. Sci. Lett.* 181, 315-325.

194. Stirling, C.H., Lee, D-C., Christensen, J.N. and **Halliday, A.N.**, 2000 High precision in situ ^{238}U - ^{234}U - ^{230}Th isotopic analysis using laser ablation multiple collector ICPMS. *Geochim. Cosmochim. Acta*, 64, 3737-3750.

195. Yi W., **Halliday A.N.**, Alt J., Lee D-C., Rehkämper M., Garcia M., Langmuir C. H. and Su, Y., 2000 Cadmium, indium, tin, tellurium and sulfur in oceanic basalts: implications for chalcophile element fractionation in the earth. *J. Geophys. Res.* 105, 18,927-18,948.

2001

196. **Halliday, A.N.** 2001 In the beginning..., *Nature (News and Views)* 409, 144-145.

197. **Halliday, A.N.**, Lee, D-C., Porcelli, D., Wiechert, U., Schönbächler, M. and Rehkämper, M. 2001 The rates of accretion, core formation and volatile loss in the early solar system, *Phil. Trans. R. Soc.* 359, 2111-2135.

198. **Halliday, A.N.** and Porcelli, D., 2001 In search of lost planets – the paleocosmochemistry of the inner solar system, *Earth Planet. Sci. Lett.* 192, 545-559.

199. **Halliday, A.N.**, Wänke, H., Birck, J-L. and Clayton, R.N. 2001 The accretion, bulk composition and early differentiation of Mars, in *Chronology and Evolution of Mars* Space Science Reviews 96, 197-230.

200. Hattendorf, B., Guenther, D., Schönbächler, M. and **Halliday, A.N.** 2001 Simultaneous ultra-trace determination of Zr and Nb in chromium matrices with ICP-DRCMS, *Anal. Chem.* 73, 5494-5498.

201. Porcelli, D. and **Halliday, A.N.** 2001 The possibility of the core as a source of mantle helium, *Earth Planet. Sci. Lett.* 192, 45-56.

202. Snyder, G.A., Lee, D.-C., Ruzicka, A.M., Prinz, M., Taylor, L.A., and **Halliday, A.N.**, 2001, Hf-W, Sm-Nd and Rb-Sr isotopic evidence of late impact fractionation and mixing of silicates on iron meteorite parent bodies. *Earth Planet. Sci. Lett.* 186, 311-324.

203. Spohn, T., Acuna, M.H., Breuer, D., Golombeck, M., Greeley, R., **Halliday, A.N.**, Hauber, E., Jaumann, R. and Sohl, F., 2001 Geophysical constraints on the evolution of Mars, in *Chronology and Evolution of Mars* Space Science Reviews 96, 231-262.

204. Stirling, C.H., Esat, T.M., Lambeck, K., McCulloch, M.T., Blake, S.G., Lee, D-C. and **Halliday, A.N.** 2001 Orbital forcing of the Stage 9 Interglacial: Evidence from U-series dating of Henderson Island corals, *Science* 291, 290-293.

205. Wiechert, U., **Halliday, A.N.**, Lee, D-C., Snyder, G.A., Taylor, L.A., Rumble, D., 2001 Oxygen isotopes and the Moon-forming Giant Impact, *Science*, 294, 345-348.

2002

206. **Halliday, A.N.** 2002 Preface: Noble gases – noble science, In: Noble gases in geochemistry and cosmochemistry (eds. D. Porcelli, C.J. Ballentine and R. Wieler) *Reviews in Mineralogy and Geochemistry* 47, v-vii.

207. **Halliday, A.N.** 2002 Harry H. Hess Medal citation for Albrecht W. Hofmann, (http://www.agu.org/inside/awards/bios/hoffman_albrechtw.html).

208. **Halliday A.N.** 2002 ZRIGL - The ETH Radiogenic Isotope Geochemistry Laboratory in Zürich, Switzerland. *The Geochemical News* 112, 9-13.

209. **Halliday A.N.** 2002 From Stars to Life - Goldschmidt 2002 The World's Geochemistry Conference, Davos, Switzerland, *The Geochemical News* 113, 8-13.

210. Lee, D-C., **Halliday, A.N.**, Leya, I., Wieler, R. and Wiechert, U. 2002 Cosmogenic tungsten and the origin and earliest differentiation of the Moon, *Earth Planet. Sci. Lett.* 198, 267-274.

211. Pettke, T., **Halliday, A.N.** and Rea, D.K., 2002 Cenozoic evolution of Asian climate and sources of Pacific seawater Pb and Nd derived from eolian dust of sediment core LL44-GPC3. *Paleoceanography* 17(3), art. no. 1031.

212. Pettke, T., Lee, D-C., **Halliday, A.N.** and Rea, D.K., 2002 Radiogenic Hf isotopic compositions of continental eolian dust from Asia, its variability and its implications for seawater Hf. *Earth Planet. Sci. Lett.* 202, 453-464.

213. Rehkämper, M., Frank, M., Hein, J.R., Porcelli, D., **Halliday, A.N.**, Ingri, J. and Liebetrau, V. 2001, Thallium isotope variations in seawater and hydrogenetic, diagenetic and hydrothermal ferromanganese crusts. *Earth Planet. Sci. Lett.* 197, 65-81.
214. Schönbächler M., Rehkämper M., **Halliday A.N.**, Lee D.C., Bourot-Denise M., Zanda B., Hattendorf B., Günther D. 2002 Niobium-zirconium chronometry and early solar system development. *Science*, 295, 1705-1708.
215. van de Flierdt, T., Frank, M., Lee, D-C. and **Halliday, A.N.**, 2002 Glacial weathering and the hafnium isotope composition of seawater. *Earth Planet. Sci. Lett.* 198, 167-175.

2003

216. Frank, M., van de Flierdt, T., **Halliday, A.N.**, Kubik, P.W., Hattendorf B. and Günther D. 2003 The evolution of Deep Water mixing and weathering Inputs in the Central Atlantic Ocean over the past 33 Myr. *Paleoceanography*, 18(4), 10.1029/2003PA 000919.
217. **Halliday, A.N.** 2003, The origin and earliest history of the Earth, pp 509-557. In: *Meteorites, comets and planets* (ed. A.M. Davis) Vol. 1 *Treatise on Geochemistry* (eds. H.D. Holland and K.K. Turekian), Elsevier-Pergamon, Oxford.
218. **Halliday, A.N.** 2003 Inside the cosmic blender, *Nature (News and Views)*, 425, 138-139.
219. **Halliday, A.N.** 2003 Citation for presentation of the C.C. Patterson Medal to Henry Elderfield, *Geochim. Cosmochim. Acta*, 67, 2309.
220. **Halliday, A.N.** 2003 Acceptance speech for the 2003 Murchison Medal of The Geological Society (http://www.geolsoc.org.uk/page2984_en.html).
221. **Halliday, A.N.** and Giardini, D.G. 2003 If Columbus had merely looked at North America..., *The Parliament Magazine* (invited comment on the need for sample return in EU space policy), 173, 53.
222. Hein, J.R., Koschinsky, A. and **Halliday, A.N.** 2003 Global occurrence of tellurium-rich ferromanganese crusts, *Geochim. Cosmochim. Acta*, 67, 1117-1127.
223. Leya, I., **Halliday, A.N.** and Wieler, R. 2003 The predictable collateral consequences of nucleosynthesis by spallation reactions in the early solar system, *Astrophysical Jl.* 594, 605-616.
224. Leya, I., Wieler, R. and **Halliday, A.N.** 2003 The influence of cosmic-ray production on extinct nuclide systems, *Geochim. Cosmochim. Acta*, 67, 527-541.
225. Müller, W., Fricke, H., **Halliday, A.N.**, McCulloch, M.T. 2003 Origin of the Alpine Iceman - constraints from isotope geochemistry. In: Fleckinger, A. (ed.): *Die Gletschermumie aus der Kupferzeit 2 / La mummia dell' età del rame 2 (Proceedings of scientific congress to celebrate the 10th anniversary of the discovery of the Iceman; Bolzano, Italy)*, Schriften des Südtiroler Archäologiemuseums / Collana del Museo Archeologico dell' Alto Adige 3: 75-90.
226. Müller, W., Fricke, H., **Halliday, A.N.**, McCulloch, M.T. and Wartho J-A. 2003 Origin and migration of the Neolithic Alpine Iceman, *Science*, 302, 862-866.
227. Schönbächler M., Lee D-C., Rehkämper M., **Halliday A.N.**, Fehr, M., Hattendorf B., Günther D. 2003 Zirconium isotope evidence for incomplete admixing of *r*-process components in the solar nebula. *Earth Planet. Sci. Lett.* 216, 467-481.
228. van de Flierdt, T., Frank, M., **Halliday, A.N.**, Hein, J.R., Hattendorf, B., Günther D. and Kubik, P.W. 2003 Lead isotopes in North Pacific Deep Water – implications for past changes in input sources and circulation patterns. *Earth Planet. Sci. Lett.* 209, 149-164.
229. Woodland, S.J., Rehkämper M., Lee D-C. and **Halliday A.N.** 2003 High Precision MC-ICPMS Measurement of Silver Isotopic Compositions In: *Plasma Source Mass Spectrometry: Applications and Emerging Technologies* (eds. G. P. Holland and S. D. Tanner) pp. 338-350. Royal Society of Chemistry

2004

230. Andersen M.B., Stirling C.H., Potter E.-K. and **Halliday A.N.** 2004 Toward epsilon levels of measurement precision on $^{234}\text{U}/^{238}\text{U}$ by using MC-ICPMS. *Int. J. Mass Spec.* 237, 107-118.

231. Fehr M., Rehkämper M. and **Halliday A.N.** 2004 Application of MC-ICPMS to the precise determination of tellurium isotopic compositions in chondrites, iron meteorites and sulfides, *Int. J. Mass Spec.* 232, 83-94.
232. **Halliday, A.N.** 2004, Mixing, volatile loss and compositional change during impact-driven accretion of the Earth, *Nature* 427, 505-509.
233. **Halliday, A.N.** 2004 Citation for presentation of the V.M. Goldschmidt Medal to Bernard J. Wood, *Geochim. Cosmochim. Acta*, 68, 1955-1956.
234. **Halliday, A.N.** 2004 The clock's second hand *Nature (News and Views)* 431, 253-254.
235. Heck, P.R., Schmitz, B., Baur, H., **Halliday, A.N.** and Wieler, R. 2004 Fast delivery of meteorites from a major asteroid collision, *Nature* 430, 323-325.
236. Levasseur, S., Frank, M., Hein, J.R. and **Halliday, A.N.** 2004 Global distribution in the iron isotope composition of marine hydrogenetic ferromanganese deposits: Implications for seawater chemistry? *Earth Planet. Sci. Lett.* 224, 91-105.
237. Magna, T., Wiechert, U. and **Halliday, A.N.** 2004 Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, *Int. J. Mass Spec.* 239, 67-76.
238. Nielsen S. G., Rehkämper, M., Baker, J. and **Halliday, A.N.** 2004 Precise and accurate determination of thallium isotope compositions and concentrations for water samples. *Chem Geol.* 204, 109-124.
239. Poitrasson, F., **Halliday, A.N.**, Lee, D-C., Levasseur, S. and Teutsch, N., 2004 Iron isotope differences between Earth, Moon, Mars and Vesta as possible records of contrasted accretion mechanisms. *Earth Planet. Sci. Lett.* 223, 253-266.
240. Rehkämper, M., Frank M., Hein, J.R. and **Halliday, A.N.** 2004, Cenozoic marine geochemistry of thallium deduced from isotopic studies of ferromanganese crusts and pelagic sediments. *Earth Planet. Sci. Lett.* 219, 77-91.
241. Schönbächler M., Lee, D-C., Rehkämper M. and **Halliday A.N.** 2004 Ion exchange chromatography and high precision isotopic measurements of zirconium by MC-ICPMS, *The Analyst*, 129, 32-37.
242. van de Flierdt, T., Frank, M., **Halliday, A.N.**, Hein, J.R., Hattendorf, B., Günther, D. and Kubik, P.W. 2004 Deep and bottom water export from the Southern Ocean to the Pacific Ocean over the past 38 million years. *Paleoceanography*, 19, PA1020, doi:10.1029/2003PA000923.
243. van de Flierdt, T., Frank, M., **Halliday, A.N.**, Hein, J.R., Hattendorf, B., Günther D. and Kubik, P.W. 2004 Tracing the history of submarine hydrothermal inputs and the significance of hydrothermal hafnium for the seawater budget – a combined Pb-Hf-Nd isotope approach. *Earth Planet. Sci. Lett.* 222, 259-273.
244. van de Flierdt, T., Frank, M., Lee, D-C., **Halliday, A.N.**, Reynolds, B.C. and Hein J.R. 2004 New constraints on the behavior of neodymium and hafnium in seawater from Pacific Ocean ferromanganese crusts. *Geochim. Cosmochim. Acta* 68, 3827-3843.
245. Vockenhuber, C., Oberli, F., Bichler, M., Ahmad, I., Quitté, G., Meier, M., **Halliday, A.N.**, Lee, D-C., Kutschera, W., Steier, P., Gehrke, R.J., and Helmer, R.G. 2004 A new half-life measurement of ^{182}Hf - sharpening a tool for the chronology of the early solar system, *Phys. Rev. Lett.* 93 (17): art. no. 172501.
246. Wiechert, U., **Halliday, A.N.**, Palme, H. and Rumble, D., 2004 Oxygen isotopes and the differentiation of planetary embryos. *Earth Planet. Sci. Lett.* 221, 373-382.
247. Williams, H.M., McCammon, C.A., Peslier, A.H., **Halliday, A.N.**, Teutsch, N., Levasseur, S. and Burg, J-P. 2004 Iron isotope fractionation and oxygen fugacity in the mantle. *Science* 304, 1656-1659.

2005

248. Fehr M., Rehkämper M., **Halliday A.N.**, Wiechert U., Hattendorf B., Günther D., Ono S., Eigenbrode J.L. and Rumble D. III 2005 The tellurium isotopic composition of the early solar system – A search for effects resulting from stellar nucleosynthesis, ^{126}Sn decay and mass independent fractionation. *Geochim. Cosmochim. Acta* 69, 5105-5118.
249. **Halliday, A.N.** 2005 Macelwane Award citation for Robin Canup, *Eos*. 86, 14.

250. Kleine T., Palme H., Mezger K. and **Halliday A.N.** 2005 Hf–W chronometry of lunar metals and the age and early differentiation of the Moon. *Science* 310, 1671-1674.
251. Klemm, V., Levasseur, S., Frank, M., Hein, J.R., **Halliday, A.N.**, 2005 Osmium isotope stratigraphy of a marine ferromanganese crust. *Earth Planet. Sci. Lett.*, 238, 42-48.
252. Markowski, A., Quitté, G. and **Halliday, A.N.** 2005 Meteorites, tungsten isotopes and the origin of the solar system (Meteoritical Society Best Student Paper Award), *Meteorite*, 11, 34-36.
253. Nielsen, S.G., Rehkämper M., Porcelli, D., Andersson, P., **Halliday A.N.**, Swarzenski, P., Latkoczy, C. and Günther D., 2005 The thallium isotopic composition of the upper continental crust and rivers – An investigation of the continental sources of dissolved marine thallium. *Geochim. Cosmochim. Acta*, 69, 2007-2019.
254. Potter E.-K., Stirling C.H., Andersen, M.B. and **Halliday, A.N.** 2005 High precision Faraday collector MC-ICPMS thorium isotope ratio determination. *Int. J. Mass Spec.* 247, 10-17.
255. Potter E.-K., Stirling C.H., Wiechert, U.H., **Halliday A.N.** and Spötl, C. 2005 Uranium-series dating of corals in situ using laser ablation MC-ICPMS. *Int. J. Mass Spec.* 240, 27–35.
256. Schönbächler M., Rehkämper M., Fehr, M. A., **Halliday A.N.**, Hattendorf B. and Günther D. 2005 Nucleosynthetic zirconium isotope anomalies in acid leachates of carbonaceous chondrites. *Geochim. Cosmochim. Acta* 69, 5119-5128.
257. Schönbächler M., Lee D-C., Rehkämper M., **Halliday A.N.**, Hattendorf B., Günther D. 2005 Nb/Zr fractionation on the Moon and the search for extinct ^{92}Nb . *Geochim. Cosmochim. Acta*, 69, 775-785.
258. Stirling, C.H., **Halliday, A.N.** and Porcelli, D. 2005 In search of live ^{247}Cm in the early solar system. *Geochim. Cosmochim. Acta* 69, 1059-1071.
259. Teutsch, N., von Gunten, U., Porcelli, D., Cirpka, O.A. and **Halliday, A.N.** 2005 Adsorption as a cause for iron isotope fractionation in reduced groundwater. *Geochim. Cosmochim. Acta*, 69, 4175–4185.
260. Williams, H.M., Peslier, A.H., McCammon, C.A., **Halliday, A.N.**, Teutsch, N., Levasseur, S. and Burg, J-P. 2005 Systematic iron isotope variations in mantle rocks and minerals: the effects of partial melting and oxygen fugacity. *Earth Planet. Sci. Lett.*, 235, 435–452.
261. Wood, B.J. and **Halliday, A.N.** 2005 Cooling of the Earth and core formation after the giant impact. *Nature* 437, 1345-1348.
262. Woodland, S.J., Rehkämper M., **Halliday A.N.**, Lee D-C., Hattendorf, B. and Günther D. 2005 Accurate measurement of silver isotopic compositions in geological materials including low Pd/Ag meteorites. *Geochim. Cosmochim. Acta* 69, 2153-2163.

2006

263. Cohen B.A., Levasseur S., Zanda B., Hewins R.H., **Halliday A.N.** and Robert, F. 2006 Kinetic isotope effect during reduction of iron from a silicate melt. *Geochim. Cosmochim. Acta*, 70, 3139-3148.
264. Fehr M., Rehkämper M., **Halliday A.N.**, Schönbächler M., Hattendorf B. and Günther D. 2006 Search for nucleosynthetic and radiogenic tellurium isotope anomalies in carbonaceous chondrites. *Geochim. Cosmochim. Acta* 70, 3436-3448.
265. Frank M., Marbler H., Koschinsky A., van de Flierdt T., Klemm V., Gutjahr, M., **Halliday A.N.**, Kubik P.W. and Halbach P. 2006 Submarine hydrothermal venting related to volcanism in the Lesser Antilles: Evidence from ferromanganese precipitates, *Geochemistry, Geophysics, Geosystems*, 7, 10.1029/2005GC001140.
266. Georg R.B., Reynolds B.C., Frank M. and **Halliday A.N.**, 2006 Mechanisms controlling the silicon isotopic compositions of river waters *Earth Planet. Sci. Lett.*, 249, 290-306.
267. Georg R.B., Reynolds B.C., Frank M. and **Halliday A.N.** 2006 New sample preparation techniques for the precise determination of the Si isotope composition of natural samples using MC-ICP-MS *Chem. Geol.*, 235, 95-104.
268. **Halliday, A.N.** 2006 The origin of the Earth – what's new? *Elements* 2, 205-210.

269. **Halliday, A.N.** 2006 Isotopic constraints on the formation of Earth-like planets. In: *Planetary systems and planets in systems (Michel Mayor 60th birthday volume)*, eds: Udry, S., Benz, W. and von Steiger, R., 59-75, International Space Science Institute, ESA Communications.
270. **Halliday A.N.** and Kleine, T. 2006 Meteorites and the timing, mechanisms and conditions of terrestrial planet accretion and early differentiation. In: *Meteorites and the Early Solar System II*, eds D. Lauretta, L. Leshin, H. MacSween., 775-801, Univ. Arizona Press.
271. Magna, T., Wiechert, U., Grove, T.L. and **Halliday, A.N.** 2006 Lithium isotope fractionation in the southern Cascadia subduction zone. *Earth Planet. Sci. Lett.* 250, 428-443.
272. Magna, T., Wiechert, U. and **Halliday, A.N.** 2006 New constraints on the lithium isotope compositions of the Moon and terrestrial planets. *Earth Planet. Sci. Lett.* 243, 336-353.
273. Markowski A, Leya I., Quitté G., Ammon K., **Halliday A.N.**, Wieler R. 2006 Correlated helium-3 and tungsten isotopes in iron meteorites: quantitative cosmogenic corrections and planetesimal formation times. *Earth Planet. Sci. Lett.* 250, 104-115.
274. Markowski, A., Quitté, G., **Halliday, A.N.** and Kleine, T. 2006 Tungsten isotopic compositions of iron meteorites: Chronological constraints vs. cosmogenic effects. *Earth Planet. Sci. Lett.* 242, 1-15.
275. Nash B.P., Perkins M.E., Christensen J.N., Lee D-C. and **Halliday A.N.**, 2006 The Yellowstone hotspot in space and time: Nd and Hf isotopes in silicic magmas. *Earth Planet. Sci. Lett.* 247, 143-156.
276. Nielsen, S.G., Rehkämper M. and **Halliday A.N.** 2006 Large thallium isotopic variations in iron meteorites and evidence for lead-205 in the early solar system. *Geochim. Cosmochim. Acta*, 70, 2643-2657.
277. Nielsen, S.G., Rehkämper M., Norman M.D. and **Halliday, A.N.** 2006 Thallium isotopic evidence for ferromanganese sediments in the mantle source of Hawaiian basalts, *Nature* 439, 314-317.
278. Nielsen, S.G., Rehkämper M., Teagle D.A.H., Butterfield D.A., Alt J.C. and **Halliday A.N.** 2006 Hydrothermal fluid fluxes calculated from the isotopic mass balance of thallium in the ocean crust. *Earth Planet. Sci. Lett.* 251, 120-133.
279. Quitté, G., Meier M., Latkoczy, C., **Halliday, A.N.** and Günther, D. 2006 Nickel isotopes in iron meteorites – nucleosynthetic anomalies in sulphides with no effects in metals and no trace of ⁶⁰Fe. *Earth Planet. Sci. Lett.* 242, 16-25.
280. Reynolds, B.C., Frank, M., and **Halliday, A.N.** 2006 Silicon isotope fractionation during nutrient utilization in the North Pacific. *Earth Planet. Sci. Lett.* 244, 431-443.
281. Reynolds B.C., Georg R.B., Oberli, F. and **Halliday A.N.** 2006 Re-assessment of silicon isotope reference materials using HR-MC-ICP-MS. *Jl. Analytical Atomic Spectroscopy* 21, 266-269.
282. Shearer CK, Hess PC, Wieczorek MA, Pritchard ME, Parmentier EM, Borg LE, Longhi J, Elkins-Tanton LT, Neal CR, Antonenko I, Canup RM, **Halliday AN**, Grove TL, Hager BH, Lee D-C, and Wiechert U 2006 Thermal and magmatic evolution of the Moon. In: *New Views of the Moon* (B. L. Jolliff, M. A. Wieczorek, C. K. Shearer, and C. R. Neal, eds), *Reviews in Mineralogy and Geochemistry*, Vol. 60, pp. 365-518, Mineralogical Society of America.
283. Stirling C.H., **Halliday A.N.**, Potter E-K., Andersen M.B. and Zanda B. 2006 A low initial abundance of ²⁴⁷Cm in the early solar system and implications for r-process nucleosynthesis, *Earth Planet. Sci. Lett.* 251, 386-397.
284. Wiederhold J.G., Kraemer S.M., Teutsch N., Borer P.M., **Halliday A.N.** and Kretzschmar R. 2006 Iron isotope fractionation during proton-promoted, ligand-controlled, and reductive dissolution of goethite. *Environmental Science & Technology*, 40, 3787-3793.
285. Williams H.M., Markowski A., Quitté G., **Halliday A.N.**, Teutsch N. and Levasseur S. 2006 Fe isotope fractionation in iron meteorites: New insights into metal-sulphide segregation and planetary accretion. *Earth Planet. Sci. Lett.* 250, 486-500.
286. Wood, B.J. and **Halliday, A.N.** 2006 Reply to Comment on “Cooling of the Earth and core formation after the giant impact.” *Nature* 443, E2-E3, doi:10.1038/nature05360.

287. Andersen M.B., Stirling C.H., Porcelli D., **Halliday A.N.**, Andersson P.S. and Baskaran M. 2007 High precision $^{234}\text{U}/^{238}\text{U}$ measurements of Arctic seawater and rivers: Implications for the transport and behaviour of riverine U in the marine environment. *Earth Planet. Sci. Lett.* 259, 171-185.
288. Andersen M.B., Stirling C.H., Potter, E-K., **Halliday A.N.**, Blake S.G, McCulloch M.T., Ayling B.F. and O'Leary M., 2007 High-precision U-series measurements of more than 500,000 year old fossil corals. *Earth Planet. Sci. Lett.* 265, 229-245.
289. Chambers, J. E. and **Halliday A.N.** 2007 The origin of the solar system. In: *Encyclopaedia of the Solar System*, Chapter 2, 29-52, Elsevier.
290. Georg, R.B., **Halliday, A.N.** Schauble E and Reynolds B.C. 2007 Silicon in the Earth's core, *Nature* 447, 1102-1106.
291. Georg, R.B., Reynolds B.C., West A.J., Burton, K.W., and **Halliday, A.N.** 2007 Silicon isotope variations accompanying basalt weathering in Iceland, *Earth Planet. Sci. Lett.* 261, 476-490.
292. Gutjahr, M., Frank, M., Stirling, C.H., Keigwin, L.D. and **Halliday A.N.** 2007 Tracing the Nd isotope evolution of North Atlantic Deep and Intermediate Waters in the western North Atlantic since the Last Glacial Maximum from Blake Ridge sediments. *Earth Planet. Sci. Lett.* 266, 61-77.
293. Gutjahr, M., Frank, M., Stirling, C.H., Klemm, V., van de Flierdt, T., Keigwin, L.D. and **Halliday A.N.** 2007 Extraction of a seawater trace metal signal from marine sediments: Some geochemical, radiogenic (Sr, Nd, Os, Pb, Th) isotope and mass balance considerations. *Chem. Geol.* 242, 351-370.
294. **Halliday, A.N.** 2007 Isotopic lunacy. *Nature (News and Views)* 450, 356-357.
295. **Halliday, A.N.** and Wood B.J. 2007 The composition and major reservoirs of the Earth around the time of the Moon-forming giant impact. In: *Evolution of the Earth* (ed. D. Stevenson) Vol. 9 *Treatise of Geophysics* (ed. G. Schubert), 13-50, Elsevier.
296. Keane, S.D., DeWolf, C.P., Essene, E.J., **Halliday, A.N.**, Hall, C.M. and Cosca, M.A. 2007 Isotopic constraints on the thermal history of the Wind River Range, Wyoming: implications for Archean metamorphism. *Can. J. Earth Sci. Spec. Vol.*, 43, 1511-1532.
297. Klemm, V., Reynolds, B., Frank, M., Pettke, T. and **Halliday, A.N.**, 2007 Cenozoic changes in atmospheric lead recorded in central Pacific ferromanganese crusts. *Earth Planet. Sci. Lett.* 253, 67-76.
298. Leya I., Schönbächler M., Wiechert U., Krähenbühl U. and **Halliday A.N.** 2007, High precision titanium isotope measurements on geological samples by high resolution MC-ICPMS, *Int. J. Mass Spec.* 262, 247-255.
299. Markowski A, Quitté G., Kleine, T., **Halliday A.N.**, Bizzarro, M., and Irving, A.J. 2007 Hafnium-tungsten chronometry of angrites and the earliest evolution of planetary objects, *Earth Planet. Sci. Lett.* 262, 214-229.
300. Quitté, G., **Halliday, A.N.**, Meyer B.S., Markowski, A., Latkoczy, C. and Günther, D. 2007 Correlated iron-60, nickel-62 and zirconium-96 in refractory inclusions and the origin of the Solar System. *Ap. J.* 655, 678-684.
301. Ripperger S., Rehkämper M., Porcelli D. and **Halliday A.N.** 2007 Cadmium isotope fractionation in seawater - a signature of biological activity *Earth Planet. Sci. Lett.* 261, 670-684.
302. Stirling C.H., Andersen M.B., Potter E-K. and **Halliday A.N.** 2007 Low temperature isotopic fractionation of uranium, *Earth Planet. Sci. Lett.* 264, 208-225.
303. van de Flierdt, T., Goldstein, S.L., Hemming S.R., Roy, M., Frank, M., and **Halliday, A.N.**, 2007 Global neodymium-hafnium isotope systematics - revisited *Earth Planet. Sci. Lett.* 259, 432-441.
304. Wiechert, U. and **Halliday, A.N.** 2007 Non-chondritic magnesium and the origins of the inner terrestrial planets *Earth Planet. Sci. Lett.* 256, 360-371.
305. Wiederhold J. G., Teutsch N., Kraemer S. M., **Halliday A.N.** and Kretzschmar R. 2007 Iron isotope fractionation during pedogenesis in redoximorphic soils. *Soil Sci. Soc. Am. J.* 71, 1840-1850.
306. Wiederhold J.G., Teutsch N., Kraemer S.M., **Halliday A.N.** and Kretzschmar R. 2007 Iron isotope fractionation in oxic soils by mineral weathering and podzolization. *Geochim. Cosmochim. Acta*, 71, 5822-5834.

307. Zahnle K., Arndt N., Cockell C., **Halliday A.N.**, Nesbit E., Selsis F. and Sleep N.H., 2007 Emergence of a Habitable Planet, *Space Science Reviews* 129, 35-78.

2008

308. Caro, G., Bourdon, B., **Halliday, A.N.** and Quitté, G. 2008 Super-chondritic Sm/Nd in Mars, the Earth, and the Moon, *Nature* 452, 336-339.
309. **Halliday A.N.** 2008 A young Moon-forming Giant Impact at 70 to 110 million years accompanied by late-stage mixing, core formation and degassing of the Earth. *Phil Trans. R. Soc. Lond. (Sect. A.)* 366, 4163–4181.
310. Jephcoat A.P. and **Halliday A.N.** 2008 Preface. In *Origin and differentiation of the Earth; Past to Present*, *Phil Trans. R. Soc. Lond. (Sect. A.)* 366, 4059-40.
311. Kleine T., Touboul M., Van Orman J.A., Bourdon B., Maden C., Mezger K. and **Halliday A.N.** 2008 Hf-W thermochronometry: Closure temperature and constraints on the accretion and cooling history of the H chondrite parent body, *Earth Planet. Sci. Lett.*, 270, 106-118.
312. Klemm V., Frank M., Levasseur S., **Halliday A.N.** and Hein J.R. 2008 Seawater osmium isotope evidence for a middle Miocene flood basalt event in ferromanganese crust records *Earth Planet. Sci. Lett.* 273, 175-183.
313. Leya I., Schönbächler M., Wiechert U., Krähenbühl U. and **Halliday A.N.** 2008, Titanium isotopes and the radial heterogeneity of the solar system, *Earth Planet. Sci. Lett.* 266, 233-244.
314. Muiños, S.B., Frank, M., Maden, C., Hein, J.R., Lebreiro, S.M., Gaspar, L., Monteiro, J.H., van de Flierdt, T., and **Halliday, A.N.**, 2008 New constraints on the Pb and Nd isotopic evolution of NE Atlantic water masses. *Geochem. Geophys. Geosyst.* 9, Q02007, doi:10.1029/2007GC001766.
315. Reynolds B.C., Jaccard S.L., Frank M. and **Halliday A.N.** 2008 Evidence for a major change in silicon cycling in the Subarctic North Pacific at 2.73 Ma, *Paleoceanography*, 23, PA4219, doi:10.1029/2007PA001563.
316. Ripperger, S., Schiebel, R., Rehkämper, M. and **Halliday, A.N.** 2008 The Cd/Ca ratios of in-situ collected foraminiferal tests. *Paleoceanography* 23, PA3209, doi:10.1029/2007PA001524.
317. Wood B.J., Nielsen S.G., Rehkämper M. and **Halliday A.N.** 2008 The effects of core formation on the Pb- and Tl- isotopic composition of the silicate Earth, *Earth Planet. Sci. Lett.* 269, 325-335.

2009

318. Fehr M.A., Rehkämper M., **Halliday A.N.**, Hattendorf B. and Günther D. 2009 Tellurium isotope compositions of calcium-aluminum-rich inclusions, *Meteoritics & Planetary Science* 44, 971-984.
319. Georg, R.B., West A.J., Basu, A.R., and **Halliday, A.N.** 2009 Silicon fluxes and isotope composition of direct groundwater discharge into the Bay of Bengal and the effect on the global ocean silicon isotope budget, *Earth Planet. Sci. Lett.* 283, 67-74.
320. Georg, R.B., Zhu, C., Reynolds B.C. and **Halliday, A.N.** 2009 Stable silicon isotopes of groundwater, feldspars, and clay coatings in the Navajo Sandstone aquifer, Black Mesa, Arizona, USA, *Geochim Cosmochim Acta* 73, 2229-2241.
321. Godfrey L.V., Zimmermann B., Lee D-C., King R.L., Vervoort J.D., Sherrell R.M. and **Halliday A.N.** 2009 Hafnium and neodymium isotope variations in NE Atlantic seawater, *Geochem. Geophys. Geosyst.*, 10, Q08015, doi:10.1029/2009GC002508.
322. Gutjahr, M., Frank, M., **Halliday A.N.** and Keigwin, L.D. 2009 Retreat of the Laurentide ice sheet tracked by the isotopic composition of Pb in western North Atlantic seawater during termination 1. *Earth Planet. Sci. Lett.*, 286, 546-555.
323. **Halliday A.N.** and Wood B.J. 2009 How did Earth accrete? *Science (Perspectives)* 325, 44-45.
324. Kleine T., Touboul M., Bourdon B., Nimmo F., Mezger K., Palme H., Yin Q.-Z., Jacobsen S.B. and **Halliday A.N.** 2009 Hf-W chronometry and the accretion and early evolution of asteroids and terrestrial planets, *Geochim. Cosmochim. Acta* 73, 5150-5178.

325. Lee, D-C, **Halliday AN**, Singletary SJ and Grove TL 2009 ^{182}Hf - ^{182}W chronometry and early differentiation of the ureilite parent body. *Earth Planet. Sci. Lett.* 288, 611-618.
326. Leya I., Schönbächler M., Krähenbühl U. and **Halliday A.N.** 2009, New titanium isotope data for Allende and Efremovka CAIs, *Astrophys J* 702 1118-1126.
327. Newman K., Freedman P.A., Williams J., Belshaw N.S. and **Halliday A.N.** 2009 High sensitivity skimmer cones and non-linear mass dependent fractionation in ICP-MS, *JAAS* DOI: 10.1039/b819065h.
328. Nielsen, S.G., Mar-Gerrison S., Gannoun A., LaRowe D., Klemm, V., **Halliday A.N.**, Burton K.W. and Hein J.R. 2009 Thallium isotope evidence for a permanent increase in marine organic carbon export in the early Eocene *Earth Planet. Sci. Lett.* 278, 297-307.
329. Rickli, J., Frank, M., and **Halliday A.N.** 2009 The hafnium-neodymium isotopic composition of Atlantic seawater. *Earth Planet. Sci. Lett.* 280, 118-127.
330. Teutsch N., Schmid M., Müller B., **Halliday A.N.**, Bürgmann H. and Wehrli B. 2009, Large iron isotope fractionation at the oxic-anoxic boundary in Lake Nyos *Earth Planet. Sci. Lett.*, 285, 52-60.
331. Williams H.M., Nielsen S.G., Renac C., Griffin W.L., O'Reilly S.Y., McCammon C.A., Pearson N., Viljoen F., Alt J.C. and **Halliday A.N.** 2009 Fractionation of oxygen and iron isotopes by partial melting processes: Implications for the interpretation of stable isotope signatures in mafic rocks. *Earth Planet. Sci. Lett.* 283, 156-166.
332. Zimmermann B., Porcelli, D., Frank M., Rickli J., Lee D-C. and **Halliday A.N.** 2009 Hafnium isotope compositions of Pacific Ocean water, *Geochim Cosmochim Acta* 73, 91-101.
333. Zimmermann B., Porcelli, D., Frank M., Andersson P.S., Baskaran M., Lee D-C. and **Halliday A.N.** 2009 Hafnium isotopes in Arctic Ocean water, *Geochim Cosmochim Acta* 73, 3218-3233.

2010

334. Andersen M.B., Stirling C.H., Potter, E-K., **Halliday A.N.**, Blake S.G, McCulloch M.T., Ayling B.F. and O'Leary M., 2010 The timing of sea-level high-stands during Marine Isotope Stages 7.5 and 9: Constraints from the uranium-series dating of fossil corals from Henderson Island. *Geochim Cosmochim Acta* 74, 3598-3620.
335. Andersen M.B., Stirling C.H., Zimmermann, B. and **Halliday A.N.**, 2010 Precise determination of the open ocean ^{234}U / ^{238}U composition. *Geochem. Geophys. Geosyst.*, 11, Q12003, doi:10.1029/2010GC003318.
336. Baker R.G.A., Schönbächler M., Rehkämper M., Williams H.M. and **Halliday A.N.** 2010 The thallium isotope composition of carbonaceous chondrites — New evidence for live ^{205}Pb in the early solar system. *Earth Planet. Sci. Lett.* 291, 39-47.
337. **Halliday A.N.**, Stirling C.H., Freedman P.A., Oberli F., Reynolds B., and Georg, R.B. 2010 High precision isotope ratio measurements using multiple collector inductively coupled plasma mass spectrometry. In: *Encyclopedia of Mass Spectrometry* Vol 5 Elemental and Isotope Ratio Mass Spectrometry, Chapter 17, 242-260, Elsevier.
338. Hendry K.R., Georg R.B., Rickaby R.E.M., Robinson L.F. and **Halliday A.N.** 2010 Deep ocean nutrients during the Last Glacial Maximum deduced from sponge silicon isotopic compositions, *Earth Planet. Sci. Lett.* 292, 290-300.
339. Hendry K.R., Leng M.J., Robinson L.F., Sloane H.J., Blusztjan J., Rickaby R.E.M., Georg R.B., and **Halliday A.N.** 2010 Silicon isotopes in Antarctic sponges: an interlaboratory comparison, *Antarctic Science*, 23, 34-42.
340. Horner T.J., Schönbächler M., Rehkämper M., Nielsen S., Williams H.M., **Halliday A.N.**, Xue Z. and Hein JR 2010 Ferromanganese crusts as archives of deep-water Cd isotope compositions. *Geochem Geophy Geosy*, 11, ISSN:1525-2027.
341. Rickli J., Frank M., Baker A.R., Aciego S., de Souza G., Georg R.B. and **Halliday A.N.** 2010 Hafnium and neodymium isotopes in surface waters of the eastern Atlantic Ocean: Implications for sources and inputs of trace metals to the ocean, *Geochim Cosmochim Acta* 74, 540-557.
342. Savage, P., Georg R.B., Armytage R., Williams H.M. and **Halliday A.N.** 2010 Silicon isotope homogeneity in the mantle, *Earth Planet. Sci. Lett.* 295, 139-146.

343. Wood, B.J. and **Halliday, A.N.** 2010 The lead isotopic age of the Earth can be explained by core formation alone. *Nature* 465, 767-770.
344. Wood B.J., **Halliday A.N.** and Rehkämper M., 2010 Volatile accretion history of the Earth. Comment on a paper by F. Albarède “Volatile accretion history of the terrestrial planets and dynamic implications”. *Nature*, 467, E6-E7, doi:10.1038/nature09484

2011

345. Armytage, R.M.G., Georg, R.B., Savage, P.S., Williams, H.M., **Halliday, A.N.** 2011 Silicon isotopes in meteorites and planetary core formation. *Geochim. Cosmochim. Acta* 75, 3662-3676.
346. Hendry K.R., Georg R.B., Rickaby R.E.M., Robinson L.F. and **Halliday A.N.** 2011 Erratum to “Deep ocean nutrients during the Last Glacial Maximum deduced from sponge silicon isotopic compositions” [*Earth Planet. Sci. Lett.* 292, 290-300]. *Earth Planet. Sci. Lett.* 302, 253-254.
347. Magna, T., Wiechert, U., Stuart F.M., **Halliday, A.N.** and Harrison D. 2011 Combined Li–He isotopes in Iceland and Jan Mayen basalts and constraints on the nature of the North Atlantic mantle. *Geochim Cosmochim Acta* 75, 922-936.
348. Nielsen, S., Prytulak, J. and **Halliday A.N.** 2011 Determination of precise and accurate $^{51}\text{V}/^{50}\text{V}$ isotope ratios by MC-ICP-MS, Part 1: Chemical separation of vanadium and mass spectrometric protocols, *Geostandards and Geoanalytical Research*, DOI: 10.1111/j.1751-908X.2011.00106.x.
349. Nielsen S.G., Gannoun A., Marnham C., Burton K.W., **Halliday A.N.** and Hein J.R. 2011 New age for ferromanganese crust 109D-C and implications for isotopic records of lead, neodymium, hafnium, and thallium in the Pliocene Indian Ocean, *Paleoceanography* 26, PA2213, doi:10.1029/2010PA002003.
350. Opfergelt, S., Eiriksdottir, E.S., Burton, K.W., Einarsson, A., Siebert, C., Gislason, S.R. and **Halliday, A.N.** 2011 Quantifying the impact of freshwater diatom productivity on silicon isotopes and silicon fluxes: Lake Myvatn, Iceland, *Earth Planet. Sci. Lett.* 305, 73-82.
351. Opfergelt, S., Georg, R.B., Burton, K.W., Guicharnaud, R., Siebert, C., Gislason, S.R. and **Halliday, A.N.**, 2011 Silicon isotopes in allophane as a proxy for successive mineral formation in volcanic soils, *Appl. Geochem.* 26, Supplement 1, S115-S118
352. Prytulak, J., Nielsen, S. and **Halliday A.N.** 2011 Determination of precise and accurate $^{51}\text{V}/^{50}\text{V}$ isotope ratios by multi-collector ICP-MS, Part 2: Isotopic composition of six reference materials plus the Allende chondrite and verification tests, *Geostandards and Geoanalytical Research*, DOI: 10.1111/j.1751-908X.2011.00105.x.
353. Quitté G., Latkoczy, C., Schönbächler M., **Halliday A.N.** and Günther D. 2011 $^{60}\text{Fe}-^{60}\text{Ni}$ systematics in the eucrite parent body: a case study of Bouvante and Juvinas, *Geochim Cosmochim Acta* 75, 7698-7706.
354. Savage, P., Georg R.B., Williams H.M., Burton K.W. and **Halliday A.N.** 2011 Silicon isotope fractionation during magmatic differentiation, *Geochim. Cosmochim. Acta* 75, 6124-6139.

2012

355. Armytage, R.M.G., Georg, R.B., Williams, H.M., **Halliday, A.N.** 2012 Silicon isotopes in lunar rocks: implications for the Moon’s formation and the early history of the Earth. *Geochim. Cosmochim. Acta* 77, 504-514.
356. Egan K., Rickaby R.E.M., Leng M.J., Hendry K.R., Hermoso M., Sloane H.J. and **Halliday A.N.** 2012 Diatom silicon isotopes as a proxy for silicic acid utilisation: A Southern Ocean core top calibration, *Geochim. Cosmochim. Acta* 96, 174-192.
357. Gall, L., Williams H.M., Siebert, C. and **Halliday A.N.** 2012 Determination of mass-dependent variations in nickel isotope compositions using double spiking and MC-ICPMS. *J. Anal. At. Spectrom.* 27, 137-145.
358. **Halliday A.N.** 2012 The origin of the Moon. *Science (Perspectives)* 338, 1040-1041.
359. Opfergelt, S., Georg, R.B., Delvaux B., Cabidoche Y-M., Burton K.W. and **Halliday A.N.**, 2012 Mechanisms of magnesium isotope fractionation in volcanic soil weathering sequences, Guadeloupe *Earth Planet. Sci. Lett.* 341-344, 176-185.

360. Opfergelt, S., Georg, R.B., Delvaux B., Cabidoche Y-M., Burton K.W. and **Halliday A.N.** 2012 Silicon isotopes and the tracing of desilication in volcanic soil weathering sequences, Guadeloupe, *Chem. Geol.* 326-327, 113-122.
361. Rickli J., Frank M., Stichel, T., Georg R.B., Vance, D. and **Halliday A.N.** 2012 Controls on the incongruent release of hafnium during weathering of metamorphic and sedimentary catchments *Geochim. Cosmochim. Acta* 101, 263-284.
362. Savage, P., Georg R.B., Williams H.M., Turner S., **Halliday A.N.** and Chappell B.W. 2012 The silicon isotope composition of granites. *Geochim. Cosmochim. Acta* 92, 184-202.

2013

363. Egan K., Rickaby R.E.M., Hendry K.R. and **Halliday A.N.** 2013 Opening the gateways for diatoms primes Earth for Antarctic glaciation, *Earth Planet. Sci. Lett.* 375, 37-43.
364. Gall, L., Williams H.M., Siebert, C., **Halliday A.N.**, Herrington, R.J. and Hein, J.R. 2013 Nickel isotopic compositions of ferromanganese crusts and the constancy of deep ocean inputs and continental weathering effects over the Cenozoic. *Earth Planet. Sci. Lett.* 375, 148-155.
365. Georg R.B., West J., Vance D., Newman K. and **Halliday A.N.** 2013 Is the marine osmium isotope record a probe for CO₂ release from sedimentary rocks? *Earth Planet. Sci. Lett.* 367, 28-38.
366. **Halliday, A.N.** 2013 The origins of volatiles in the terrestrial planets, *Geochim. Cosmochim. Acta* 105, 146–171.
367. **Halliday, A.N.** 2013 Small differences in sameness. *Nature (News and Views)* 497, 43-45.
368. Opfergelt, S., Burton K.W., Pogge von Strandmann, P.A.E., Gislason S.R. and **Halliday A.N.** 2013 Riverine silicon isotope variations in glaciated basaltic terrains: Implications for the Si delivery to the ocean over glacial-interglacial intervals, *Earth Planet. Sci. Lett.* 369–370, 211-219.
369. Opfergelt, S., Burton K.W., Pogge von Strandmann, P.A.E., Gislason S.R. and **Halliday A.N.** 2013 Corrigendum to “Riverine silicon isotope variations in glaciated basaltic terrains: Implications for the Si delivery to the ocean over glacial-interglacial intervals” *Earth Planet. Sci. Lett.* 375, 451-452.
370. Prytulak, J., Nielsen, S., Ionov, D.A., **Halliday, A.N.**, Harvey, J., Kelley, K.A., Niu, Y., Peate, D.W., Shimizu, K. and Sims, K.W.W. 2013 The stable vanadium isotope composition of the mantle and mafic lavas, *Earth Planet. Sci. Lett.*, 365, 177–189.
371. Savage, P., Georg R.B., Williams H.M. and **Halliday A.N.** 2013 The silicon isotope composition of the upper continental crust. *Geochim. Cosmochim. Acta* 109, 384–399.
372. Savage, P., Georg R.B., Williams H.M. and **Halliday A.N.** 2013 Silicon isotopes in granulite xenoliths: insights into isotopic fractionation during igneous processes and the composition of the deep continental crust. *Earth Planet. Sci. Lett.* 365, 221–231.

2014

373. Chambers, J. E. and **Halliday A.N.** 2014 The origin of the solar system. In: *Encyclopaedia of the Solar System 3rd Edition*, Chapter 2, 29-54, Elsevier.
374. Gutjahr, M., Frank, M., Lippold, J. and **Halliday A.N.** 2014 Peak last glacial weathering intensity on the North American continent recorded by the authigenic Hf isotope composition of North Atlantic deep-sea sediments. *Quaternary Science Reviews* 99, 97-111.
375. **Halliday A.N.** 2014 The origin and earliest history of the Earth. In: Holland H.D. and Turekian K.K. (eds.) *Treatise on Geochemistry, Second Edition*, vol. 2, 149-211. Oxford: Elsevier.
376. Nielsen, S., Prytulak, J., Wood, B.J. and **Halliday A.N.** 2014 Vanadium isotopic difference between the silicate Earth and meteorites. *Earth Planet. Sci. Lett.* 389, 167–175.
377. Opfergelt S., Burton K.W., Georg R.B., West A.J., Guicharnaud R., Sigfusson B., Siebert C., Gislason S.R., **Halliday A.N.** 2014 Magnesium retention on the soil exchange complex controlling Mg isotope variations in soils, soil solutions and vegetation in volcanic soils, Iceland. *Geochim. Cosmochim. Acta*, 125, 110-130.
378. Savage, P.S., Armytage, R.M.G., Georg R.B. and **Halliday A.N.** 2014 High temperature silicon isotope geochemistry. *Lithos* 190/191, 500-519.

379. Stevenson, D. and **Halliday, A.N.** 2014 The origin of the Moon. In *The Origin of the Moon*, *Phil Trans. R. Soc. Lond. (Sect. A.)* 372, 20140289.

2015

380. Abraham, K., Barling, J., Siebert, S., Belshaw, N., Gall, L. and **Halliday, A.N.** 2015 Determination of mass-dependent variations in tungsten stable isotope compositions of geological reference materials by double-spike and MC-ICPMS *J. Anal. At. Spectrom.* 30, 2334-2342.
381. Gannoun, A., Burton, K.W., Barfod, D.N., Schiano, P., Vlastelic, I. and **Halliday, A.N.** 2015 Resolving mantle and magmatic processes in basalts from the Cameroon volcanic line using the Re-Os isotope system *Lithos* 224–225, 1–12
382. **Halliday A.N.** and Wood B.J. 2015 The composition and major reservoirs of the Earth around the time of the Moon-Forming Giant Impact. In: Gerald Schubert (editor-in-chief) *Treatise on Geophysics*, 2nd edition, Oxford: Elsevier; pp. 11-42.
383. Horner, T.J., Williams, H.M., Hein, J.R., Saito, M.A., Burton, K.W., **Halliday, A.N.** and Nielsen, S.G. 2015 Persistence of deeply sourced iron in the Pacific Ocean, *PNAS* 112, 1292-1297.
384. Larner, F., Woodley, L.N., Shoushad, S., Moyese, A., Humphreys-Williams, E., Strekopytov, S., **Halliday, A.N.**, Rehkämper, M. and Coombes, C.R. 2015 Zinc isotopic compositions of breast cancer tissue, *Metalomics* 7, 107-112.
385. Siebert, C., Pett-Ridge, J., Opfergelt, S., Guicharnaud R.A., **Halliday, A.N.** and Burton, K. 2015 Molybdenum isotope fractionation in soils: influence of redox, organic matter, and atmospheric inputs, *Geochim. Cosmochim. Acta* 162, 1-24.
386. Stirling C.H., Andersen M.B., Warthmann, R. and **Halliday, A.N.** 2015 Isotope fractionation of ^{238}U and ^{235}U during biologically-mediated uranium reduction. *Geochim. Cosmochim. Acta* 163, 200-218.
387. Ventura, G.T., Gall, L., Siebert, C., Prytulak, J., Szatmari, P., Hürlimann, M. and **Halliday, A.N.** 2015 The stable isotope composition of vanadium, nickel, and molybdenum in crude oils, *Applied Geochem.*, 59, 104-117.
388. Yang, J., Siebert, C., Barling, J., Savage, P., Liang, Y-H. and **Halliday, A.N.** 2015 Absence of molybdenum isotope fractionation during magmatic differentiation at Hekla volcano, Iceland. *Geochim. Cosmochim. Acta*, 162, 126-136.

2016

389. Bonnand, P., Williams, H.M., Parkinson, I.J., Wood, B.J. and **Halliday, A.N.** 2016 Stable chromium isotopic composition of meteorites and metal-silicate experiments: implication for fractionation during core formation. *Earth Planet. Sci. Lett* 435, 14-25.
390. **Halliday, A.N.** 2016 Response to citation by D. Stevenson on receiving the Harry H. Hess Medal of the American Geophysical Union, in *Alex Halliday receives 2016 Harry H. Hess Medal*, *Eos*, 97, doi:10.1029/2016EO064159. Published on 23 December 2016.

2017

391. Bonnand, P., Williams, H.M., Parkinson, I.J., Wood, B.J. and **Halliday, A.N.** 2017 Correction to “Stable chromium isotopic composition of meteorites and metal-silicate experiments: implication for fractionation during core formation.” *Earth Planet. Sci. Lett* 460, 315-316.
392. Gall, L., Williams, H.M., **Halliday, A.N.** and Kerr, A.C. 2017 Nickel isotopic composition of the mantle *Geochim. Cosmochim. Acta* 199, 196-209.
393. **Halliday, A.N.** 2017 Bowen Award citation for Bernard Marty, <https://honors.agu.org/sfg-awardees/manning-and-marty-receive-2017-norman-l-bowen-award/marty-receives-2017-norman-l-bowen-award/>
394. **Halliday, A.N.** and Hacker, J. 2017 Brexit and European science. *Science* 358, 279
395. Liang, Y-H., **Halliday, A.N.**, Siebert, C., Fitton, J.G. Burton, K.W., Wang, K-L. and Harvey, J. 2017 Molybdenum isotope fractionation in the mantle *Geochim. Cosmochim. Acta*, 199, 91-111.

396. Opfergelt, S., Williams, H.M., Cornelis, J.T., Guicharnaud, R.A., Georg, R.B., Siebert, C., Gislason, S.R., **Halliday, A.N.** and Burton, K.W. 2017 Iron and silicon isotope behaviour accompanying weathering in Icelandic soils with implications for Fe mobilization from peat bearing soils, *Geochim. Cosmochim. Acta* 217, 273-291.
397. Prytulak, J., Sossi, P., **Halliday, A.N.**, Plank, T., Savage, P. and Woodhead, J. 2017 Stable vanadium isotopes as a redox proxy in magmatic systems? *Geochemical Perspectives Letters* 3, 75-84.
398. Yang, J., Barling, J., Siebert, C., Fietzke, J., Stephens, W.E. and **Halliday, A.N.** 2017 The molybdenum isotopic compositions of I-, S- and A-type granitic suites. *Geochim. Cosmochim. Acta* 205, 168-186.

2018

399. Bonnand, P. and **Halliday, A.N.** 2018 Oxidised conditions in iron meteorite parent bodies. *Nature Geoscience* 11, 401-404.

2019

400. DeFries R., Edenhofer O., **Halliday A.N.**, Heal G., Lenton T., Puma M., Rising J., Rockström J., Ruane A.C., Schellnhuber H.J., Stainforth D., Stern N., Tedesco M., Ward R. 2019 The missing economic risks in assessments of climate change impacts. *London School of Economics and Political Science, Policy Briefing* (<http://www.lse.ac.uk/GranthamInstitute/wp-content/uploads/2019/09/The-missing-economic-risks-in-assessments-of-climate-change-impacts-2.pdf>)
401. **Halliday, A.N.** and Wilton, L. 2019 International mobility, joint working and European research. *European Review* 27, 27-32.
402. Hopkins S.S., Prytulak, J., Barling J., Russell S.S., Coles B.J. and **Halliday, A.N.** 2019 The vanadium isotopic composition of lunar basalts. *Earth Planet. Sci. Lett* 511, 12-24.
403. Larner F., McLean C.A., **Halliday A.N.** and Roberts B.R. 2019 Copper isotope compositions of superoxide dismutase and metallothionein from post-mortem human frontal cortex. *Inorganics* 7, 86; doi:10.3390/inorganics7070086.

2020

404. Bonnand, P., Bruand, E., Matzen, E.K., Jerram, M., Schiavi, F., Wood, B.J., Boyet, M. and **Halliday, A.N.** 2020 Redox control on chromium isotope behaviour in silicate melts in contact with magnesiochromite. *Geochim. Cosmochim. Acta* 288, 282-300.
405. Gargano, A.M., Sharp, Z., Shearer, C.K., Simon, J., **Halliday, A.N.**, and Buckley, W. 2020 The Cl isotope composition and halogen contents of Apollo-return samples, *PNAS* 117, 23418-23425.
406. Jerram M., Bonnand P., Kerr A.C., Nisbet E.G., Puchtel I.S. and **Halliday, A.N.** 2020 The $\delta^{53}\text{Cr}$ isotope composition of komatiite flows and implications for the composition of the bulk silicate Earth. *Chem. Geol.* 551, 119761.
407. Saunders, N.J., Barling, J., Harvey, J. and **Halliday, A.N.** 2020 Heterogeneous nickel isotopic compositions in the terrestrial mantle - Part 1. *Geochim. Cosmochim. Acta* 285, 129-149.
408. Schilling K., Larner, F., Saadd, A., Roberts, R., Kocher, H.M., Blyuss, O., **Halliday, A.N.** and Crnogorac-Jurcevic, T. 2020 Urine metallomics signature as an indicator of pancreatic cancer, *Metallomics* 12, 752-757.

2021

409. Chen, H., Saunders, N.J., Jerram, M. and **Halliday, A.N.** 2021 High-precision potassium isotopic measurements by collision cell equipped MC-ICPMS. *Chem. Geol.* 578, 120281.
410. Schilling, K., Moore, R.E.T., Sullivan, K.V., Capper, M., Rehkämper, M., Goddard, K., Ion, C., Coombes, R.C., Vesty-Edwards, L., Lamb, A.D., **Halliday, A.N.** and Larner, F. 2021 Zinc stable isotopes in urine as diagnostic for cancer of secretory organs. *Metallomics* 13, mfab020.

2022

411. Basu, A., Schilling, K., **Halliday, A.N.**, Wasserman, N. and Johnson, T.M. 2022 Te(IV) immobilization by siderite: Reaction kinetics, mechanism, and Te isotopic fractionation, *Chem Geol.* 612, 121123.
412. Gargano, A.M., Dottin, J., Hopkins, S.S. Sharp, Z., Shearer, C.K., **Halliday, A.N.**, Larner, F., Farquhar, J., and Simon, J. 2022 The Zn, S, and Cl isotope compositions of mare basalts: implications for the effects of eruption style and pressure on volatile element stable isotope fractionation on the Moon. *Amer. Min.* 107, 1985–1994.
413. **Halliday, A.N.** and Canup, R.M. 2022 The accretion of planet Earth. *Nature Reviews – Earth and Environment*, <https://doi.org/10.1038/s43017-022-00370-0>.
414. Jerram, M., Bonnard, P., Harvey, J., Ionov, D. and **Halliday, A.N.** 2022 Stable chromium isotopic variations in peridotite mantle xenoliths: metasomatism vs. partial melting. *Geochim. Cosmochim. Acta* 317, 138-154.
415. Saunders, N.J., Barling, J., Harvey, J., Fitton J.G. and **Halliday, A.N.** 2022 Heterogeneous nickel isotopic compositions of the terrestrial mantle - Part 2: Mafic lithologies. *Geochim. Cosmochim. Acta*, 317, 349-364.
416. Schilling, K., Harris, A.L., **Halliday, A.N.**, Schofield, C., Sheldon, H., Syed, H. and Larner, F. 2022 Investigations on zinc isotope fractionation in breast cancer tissue using *in vitro* cell culture uptake-efflux experiments, *Front. Med.* 8:746532. doi: 10.3389/fmed.2021.746532

2023

417. Cai, Y., Chen, H., Li, B., Rasbury, T. and **Halliday, A.N.** 2023 New insights into the source of boron memory effect and implications for accurate boron isotope measurements on the MC-ICP-MS. *Rapid Communications in Mass Spectrometry* 37, e9526.
418. Hemming, S.R., Liu, T., Northrup, P., Nicholas, S., Rasbury, E.T., Chen, H., Warden, A., Chen, A., Li, R., Tappero, R.; Cox, S.E., Everard, J., Wang, S., Deluca, M., Bostick, B., **Halliday, A.N.** 2023 Synchrotron microanalytical characterization and K/Ar dating of the GL-O-1 glauconite reference material at the single pellet scale and reassessment of the age of visually mature pellets. *Minerals* 13, 773. <https://10.3390/min13060773>.
419. Wild, J.F., Chen, H., Liang, K., Liu, J., Cox, S.E., **Halliday, A.N.** and Yang, Y. 2023 Liquid solution centrifugation for highly efficient isotope enrichment, *Science Advances* 9, eadg8993.

2024

420. Schilling, K., Chen, H., Glabonjat, R.A., Debernardi, S., Blyuss, O., Navas-Acien, A., **Halliday, A.N.** and Crnogorac-Jurc, T. 2024 Comparison of urinary potassium isotope signature in cancerous and healthy pancreas, *Frontiers in Endocrinology*, *in press*.