

Supplementary Material

David Headley Green 1936–2024

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David Headley Green – Honours and Publications

Honours

- 1967 – Edgeworth David Medal, the Royal Society of New South Wales
- 1977 – F. L. Stillwell Medal, Geological Society of Australia
- 1982 – Mawson Medal and Lecture, Australian Academy of Science
- 1990 – Jaeger Medal, Australian Academy of Science
- 1993 – Royal Society of Tasmania Medal
- 1994 – Honorary Doctorate of Letters (Honours), University of Tasmania
- 1998 – Abraham Gottlieb Werner Medal, Deutsche Mineralogische Gesellschaft
- 2000 – Murchison Medal, Geological Society of London
- 2001 – Humboldt Research Prize, Humboldt Foundation, Germany
- 2001 – Centenary Medal for service to Australian society and science in petrology and geochemistry
- 2006 – Member of the Order of Australia (AM) for ‘service to the earth sciences, particularly in the fields of petrology and geochemistry through research, educational and advisory roles and contributions to public policy formulation’
- 2007 – The International Gold Medal, Geological Society of Japan
- 2011 – The International Mineralogical Society medal
- 2016 – RM Johnston Memorial Medal, Royal Society of Tasmania

Membership of scientific societies

- 1974 – Fellow, Australian Academy of Science (FAA)
- 1985 – Honorary Foreign Fellow, European Union of Geosciences
- 1986 – Honorary Foreign Fellow, Geological Society of America
- 1987 – Fellow, Australasian Institute of Mining and Metallurgy
- 1991 – Fellow, The Royal Society, London, in recognition of his work on the 'origin of magmas and the nature of Earth and Moon interiors'.
- 2003 – Member, Russian Academy of Sciences
- 2004 – Honorary Fellow, Mineralogical Society, London
- 2004 – Honorary Fellow, American Geophysical Union
- 2008 – Honorary Fellow, Geological Society of Australia

Publications

List of peer-reviewed publications authored or co-authored by David Green in chronological order.

1. Ahmad, N., Bartlett, H.A., and Green, D.H. (1959), The glaciation of the King Valley, western Tasmania, *Proceedings of the Royal Society of Tasmania*, 93, 11-17.
2. Green, D. H. (1959), Geology of the Beaconsfield District, including the Anderson's Creek ultrabasic complex, *Records Queen Victoria Museum, Launceston, Tasmania, New Series 10*, 1-27.
3. Miller, J. A., and Green, D. H. (1960), *Preliminary age determinations in the Lizard area*, *Nature*, 191, 159-160.
4. Green, D. H. (1961), Ultramafic breccias from the Musa Valley, Eastern Papua, *Geological Mag.*, 98, 1-17.
5. Miller, J. A., and Green, D. H. (1961), Age determinations of rocks in the Lizard (Cornwall) area, *Nature*, 192, 1175-1176.
6. Smith, J. W., and Green, D. H. (1961), Geology of the Musa River area, Papua, *Bureau of Mineral Resources of Australia Report*, 52, 1-41.
7. Green, D. H. (1963), Alumina content of enstatite in a Venezuelan high temperature peridotite, *Geological Society of America Bulletin*, 74, 1397-1402.
8. Green, D. H., and Ringwood, A. E. (1963), Mineral assemblages in a model mantle composition, *Journal of Geophysical Research*, 68, 937-945.
9. Green, D. H. (1964), The petrogenesis of the high-temperature peridotite intrusion in the Lizard area, Cornwall, *Journal of Petrology*, 5, 134-188.
10. Green, D. H. (1964), The metamorphic aureole of the peridotite at the Lizard, Cornwall, *Journal of Geology*, 72, 543-563.
11. Green, D. H. (1964), A re-study and re-interpretation of the geology of the Lizard peninsula, Cornwall, in *Present Views on Some Aspects of the Geology of Cornwall and Devon*, Eds, K.F.G. Hoskins and J.G. Shrimpton, pp.87-114, Royal Geological Society of Cornwall.
12. Green, D. H., and Ringwood, A. E. (1964), Fractionation of basalt magmas at high pressures, *Nature*, 201, 1276-1279.
13. McDougall, I., and Green, D. H. (1964), Excess radiogenic argon in pyroxenes and isotopic ages in minerals from Norwegian eclogites, *Norsk geologisk Tidsskrift*, 4, 183-186.
14. Ringwood, A. E., and Green, D. H. (1964), Experimental investigations bearing on the nature of the Mohorovicic Discontinuity, *Nature*, 201, 566-567.
15. Green, D. H., and Lambert, I. B. (1965), Experimental crystallization of anhydrous granite at high pressures and temperatures, *Journal of Geophysical Research*, 70, 5259-5268.

16. Dallwitz, W. B., Green, D. H., and Thompson, J. E. (1966), Clinoenstatite in a volcanic rock from the Cape Vogel area, Papua., *Journal of Petrology*, 7, 375-403.
17. Green, D. H. (1966), The origin of the 'eclogites' from Salt Lake Crater, Hawaii, *Earth and Planetary Science Letters*, 1, 414-420.
18. Ringwood, A. E., and Green, D. H. (1966), An experimental investigation of the gabbro eclogite transformation and some geophysical implications, *Tectonophysics*, 3, 383-427.
19. Ringwood, A. E., and Green, D. H. (1966), Petrological nature of the stable continental crust, in *Geophysical Monograph No. 10: The Earth Beneath the Continents*, Eds J. S. Steinhardt and T. J. Smith, pp. 611-619, American Geophysical Union.
20. Green, D. H. (1967), High temperature peridotite intrusions, in *Ultramafic and Related Rocks*, Ed. P. J. Wyllie, pp. 212-222, J. Wiley and Sons, New York.
21. Green, D. H. (1967), Effects of high pressure on basaltic rock, in *Basalts*, Eds. H. H. Hess and A. Poldervaart, Volume 1, pp. 401-444, Wiley-Interscience, N.Y.
22. Green, D. H., and Ringwood, A. E. (1967), The genesis of basaltic magmas, *Contributions to Mineralogy and Petrology*, 15, 103-190.
23. Green, D. H., and Ringwood, A. E. (1967), The stability fields of aluminous pyroxene peridotite and garnet peridotite, *Earth and Planetary Science Letters*, 3, 151-160.
24. Green, D. H., and Ringwood, A. E. (1967), An experimental investigation of the gabbro to eclogite transformation and its petrological applications, *Geochimica et Cosmochimica Acta*, 31, 767-833.
25. Green, T. H., Green, D. H., and Ringwood, A. E. (1967), The origin of high-alumina basalts and their relationships to quartz tholeiites and alkali basalts, *Earth and Planetary Science Letters*, 2, 41-51.
26. Banno, S., and Green, D. H. (1968), Experimental studies on eclogites. The roles of magnetite and acmite in eclogitic assemblages, *Chemical Geology*, 3, 21-32.
27. Bultitude, R. J., and Green, D. H. (1968), Experimental study at high pressures on the origin of olivine nephelinite and olivine melilite nephelinite magmas, *Earth and Planetary Science Letters*, 3, 325-337.
28. Green, D. H. (1968), Origin of basaltic magmas, in *Basalts*, Eds. H. H. Hess and A. Poldervaart, volume 2, pp. 835-862, Wiley-Interscience, New York.
29. Green, D. H., Lockwood, J. P., and Kiss, E. (1968a), Eclogite and almandine-jadeite quartz rock from the Guajira Peninsula, Columbia, South America, *American Mineralogist*, 53, 1320-1335.
30. Green, D. H., Morgan, J. W., and Heier, K. S. (1968b), Th, U and K abundances in peridotite inclusions and their host basalts, *Earth and Planetary Science Letters*, 4, 155-166.

31. Hensen, B. J., and Green, D. H. (1968), Experimental data on the stability of garnet and cordierite in high grade metamorphic rocks, *Geological Society of Australia Special Paper*, 2, 345-349.
32. Cooper, J. A., and Green, D. H. (1969), Lead isotope measurements in lherzolite inclusions and host basanites from western Victoria, Australia, *Earth and Planetary Science Letters*, 6, 69-76.
33. Green, D. H. (1969), Mineralogy of two Norwegian eclogites, *Korzhinski Volume, USSR Acad. Science*, 1, 37-44 (in Russian.)
34. Green, D. H. (1969), The origin of basaltic and nephelinitic magmas in the Earth's Mantle, *Tectonophysics*, 7, 409-422.
35. Green, D. H., and Ringwood, A. E. (1969), The origin of basalt magmas, in *Geophysical Monograph No. 13, The Earth's Crust and Upper Mantle*, Ed. P. J. Hart, pp. 489-495, American Geophysical Union.
36. Kleeman, J. D., Green, D. H., and Lovering, J. F. (1969), U-distribution in ultramafic inclusions from Victorian basalts, *Earth and Planetary Science Letters*, 5, 449-458.
37. Ringwood, A. E., and Green, D. H. (1969), Phase transitions, in *Geophysical Monograph 13 The Earth's Crust and Upper Mantle*, Ed. P. J. Hart, pp. 637-649, American Geophysical Union.
38. Bryhni, I., Fyfe, W. S., and Green, D. H. (1970), On the occurrence of eclogite in western Norway, *Contributions to Mineralogy and Petrology*, 26, 12-19.
39. Bultitude, R. J., and Green, D. H. (1970), Highly undersaturated rocks under upper mantle conditions, *Nature*, 226, 748-749.
40. Essene, E. J., Hensen, B. J., and Green, D. H. (1970), Experimental study of amphibolite and eclogite stability, *Physics of the Earth and Planetary Interiors*, 3, 378-384.
41. Green, D. H. (1970), Peridotite-gabbro complexes as keys to petrology of mid-oceanic ridges: Discussion, *Geological Society of America Bulletin*, 81, 2161-2166.
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53. Green, D. H., Ware, N. G. , Hibbertson, W. O., and Major, A. (1971), Experimental petrology of Apollo 12 basalts, Part I: Sample 12009, *Earth and Planetary Science Letters*, 13, 85-96.
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55. Green, D. H. (1972), Archaean greenstone belts may include terrestrial equivalents of Lunar Maria? *Earth and Planetary Science Letters*, 15, 263-270.
56. Green, D. H. (1972), Magmatic activity as the major process in the chemical evolution of the earth's crust and mantle, *Tectonophysics*, 13, 47-71.
57. Green, D. H., Compston, W., Chappell, B.W., and Ware, N.G. (1972), Chemistry, geochronology and petrogenesis of Lunar Sample 15555, *Science*, 175, 415-416.
58. Green, D. H., and Mysen, B. (1972), Genetic relationships between eclogite and hornblende + plagioclase pegmatite in western Norway, *Lithos*, 5, 147-161.
59. Green, D. H., and Ringwood, A. E. (1972), Significance of Apollo 15 mare basalts and 'primitive' green glasses in lunar petrogenesis, in *The Apollo 15 Lunar Samples*, pp. 82-85, Lunar Science Inst., Houston.
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61. Green, D. H., Ringwood, A. E. , Ware, N.G., and Hibberson, W. O, (1972), Experimental petrology and petrogenesis of Apollo 14 basalts, *Proceedings of the Third Lunar Science Conference, Suppl. to Geochimica et Cosmochimica Acta, 1*, 197-206, MIT Press.
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66. Chappell, B. W., and Green, D. H. (1973), Chemical compositions and petrogenetic relationships in Apollo 15 mare basalts, *Earth and Planetary Science Letters*, 18, pp. 237-246.
67. Green, D. H. (1973), Magmatic consequences of plate tectonics, in *The Western Pacific, Island Arcs, Marginal Seas and Geochemistry*, Ed P.J. Coleman pp. 455-465. University of Western Australia Press.
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77. Raheim, A., and Green, D. H. (1974), Talc-garnet-kyanite-quartz schist from an eclogite-bearing terrane, western Tasmania, *Contributions to Mineralogy and Petrology*, *43*, 223-231.
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80. Brey, G., and Green, D. H. (1975), The role of CO₂ in the genesis of olivine melilitite, *Contributions to Mineralogy and Petrology*, *49*, 93-103.
81. Dasch, E. J., and Green, D. H. (1975), Strontium isotope geochemistry of lherzolite inclusions and host basaltic rocks, Victoria, Australia, *American J. Science* , *275*, 461-469.
82. Green, D. H. (1975), Genesis of Archaean peridotitic magmas and constraints on Archaean geothermal gradients and tectonics, *Geology*, *3*, 15-18.
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84. Green, D. H., and Ringwood, A. E. (1975), Mare basalt petrogenesis, *Lunar Science*, *VI*, 677-679.
85. Green, D. H., Ringwood, A. E. , Hibberson, W. O., and Ware, N. G. (1975), Experimental petrology of Apollo 17 mare basalts, *Proceedings of the 6th Lunar Science Conference*, *1*, 871-893.
86. Green, D. H., Ringwood, A. E. , N. G. Ware, and W. O. Hibberson (1975), Experimental petrology and petrogenesis of Apollo 17 mare basalts, *Lunar Science*, *VI*, 311-313.
87. Green, D. H., and N. V. Sobolev (1975), Coexisting garnets and ilmenites synthesized at high pressures from pyrolite and olivine basanite and their significance in kimberlitic assemblages, *Contributions to Mineralogy and Petrology*, *50*, 217-229.
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92. Brey, G., and Green, D. H. (1976), Reply to discussion by D.H. Eggler and B.O. Mysen of paper 'Role of CO₂ in the genesis of olivine melilitite', *Contributions to Mineralogy and Petrology*, 55, 237-239.
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97. Green, D. H. (1976), Experimental petrology in Australia - a review. Special issue for Int. Geological Congr. Sydney, *Earth Science Reviews*, 12, 99-138.
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