

## **Popular articles**

**Norman** M., Spudis P., Schmitt H., and Pieters C. (2006) Why on Earth are We Going Back to the Moon? *The Australian Geologist* 138, 42-43.

**Norman** M., Moresi L., Clarke J., Caprarelli C., Walter M., and Glikson A. (2005) New plans for planetary science. *The Australian Geologist* 137, 30-32.

**Norman** M.D. (2004) The Oldest Moon Rocks. *Planetary Science Research Discoveries*. University of Hawaii web newsletter.

<http://www.psrd.hawaii.edu/April04/lunarAnorthosites.html>

## **Reviewed conference proceedings**

**Norman** MD (2010) Lunar anorthosites as targets for lunar exploration. *Proceedings of the 9th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), p. 17-28. ISBN 13: 978-0-9775740-3-2. National Space Society of Australia Ltd., Sydney. (reviewed conference paper, CD-ROM).

Hui S, **Norman** M, and Jourdan F (2010) Tracking formation and transport of Apollo 16 lunar impact glasses through chemistry and dating. *Proceedings of the 9th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), p. 43-54. ISBN 13: 978-0-9775740-3-2. National Space Society of Australia Ltd., Sydney. (reviewed conference paper, CD-ROM).

Adena KJD, Christy AG, and **Norman** MD (2010) Geochemistry of volcanic and impact glasses from the Taurus-Littrow region on the Moon. *Proceedings of the 9th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), p. 29-42. ISBN 13: 978-0-9775740-3-2. National Space Society of Australia Ltd., Sydney. (reviewed conference paper, CD-ROM).

Lineweaver CH and **Norman** M (2010) The potato radius: a lower minimum size for dwarf planets. *Proceedings of the 9th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), p. 67-77. ISBN 13: 978-0-9775740-3-2. National Space Society of Australia Ltd., Sydney. (reviewed conference paper, CD-ROM).

Lineweaver CH and **Norman** M (2009) The bombardment history of the Moon and the origin of life on Earth. *Proceedings of the 8th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), pp. 34-40. ISBN 13: 978-0-9775740-2-5; National Space Society of Australia Ltd., Sydney. (reviewed conference paper).

**Norman** M, Bennett V, Caprarelli G, Carter B, Clarke J, Nelson D, Stegman D, Taylor SR, Vladimirov S, and Walter M (2008) Planetary Science in Australia. *Proceedings of the 7th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), pp. 40-59. ISBN 13: 978-0-9775740-1-8; National Space Society of Australia Ltd., Sydney. (reviewed conference paper).

**Norman** MD and Lineweaver CH (2008) New Perspectives on the Lunar Cataclysm from Pre-4 Ga Impact Melt Breccia and Cratering Density Populations. *Proceedings of the 7th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), pp 73-83. National Space Society of Australia, Sydney. ISBN 13: 978-0-9775740-1-8. (reviewed conference paper).

Hui SSM, **Norman** MD, and Harvey RP (2008) The Petrography and Chemistry of Cosmic Spherules from Lewis Cliff, Antarctica. *Proceedings of the 7th Australian Space Science Conference* (Wayne Short and Iver Cairns, editors), 84-97. National Space Society of Australia, Sydney. ISBN 13: 978-0-9775740-1-8. (reviewed conference paper).

**Norman** M, Spudis P, Schmitt H, and Pieters C (2006) Return to the Moon: Scientific and Cultural Rationales. *Proceedings of the 6th Australian Space Science Conference*, 117-126 (ISBN 13:978-0-9775740-0-1). (reviewed conference paper).

Remus MVD, De Ros LF, **Norman** M, Souza RS, Cupertino JA (2004) A new method to trace the provenance of single zircon grains: implications for petroleum exploration. In: *Applied Mineralogy Developments in Science and Technology, Oil Reservoir Section*, vol 2 (Pecchio et al. eds.), 831-834.

## **Journal articles**

- Norman** MD, Duncan RA and Huard JJ (2010) Imbrium Provenance for the Apollo 16 Descartes terrain: argon ages and geochemistry of lunar breccias 67016 and 67455. *Geochimica et Cosmochimica Acta* 74, 763-783.
- Norman** MD (2009) The lunar cataclysm: reality or mythconception? *Elements* 5, 23-28 (invited review).
- Schnare DW, Day JMD, **Norman** MD, Liu Y, and Taylor LA (2008) A laser-ablation ICP-MS study of Apollo 15 low-titanium olivine-normative and quartz-normative mare basalts. *Geochimica et Cosmochimica Acta* 72, 2556-2572.
- Rankenburg K, Brandon AD and **Norman** MD (2007) A Rb-Sr and Sm-Nd isotope geochronology and trace element study of lunar meteorite LaPaz Icefield 02205. *Geochimica et Cosmochimica Acta* 71, 2120-2135.
- Norman** MD, Yaxley GM, Bennett VC, and Brandon AD (2006) Magnesium isotopic composition of olivine from the Earth, Moon, Mars, and pallasite parent body. *Geophysical Research Letters* 33, L15202, doi:10.1029/2006GL026446.
- Norman** MD, Duncan RA, and Huard JJ (2006) Identifying impact events within the lunar cataclysm from  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  ages and compositions of Apollo 16 impact melt rocks. *Geochimica et Cosmochimica Acta* 70, 6032-6049.
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- Ireland TR, Holden P, **Norman** MD, and Clarke J (2006) Isotopic enhancements of  $^{17}\text{O}$  and  $^{18}\text{O}$  from solar wind particles in the lunar regolith. *Nature* 440, 776-778.
- Norman** MD (2005) Lunar impact breccias: petrology, crater setting, and bombardment history of the Moon. *Australian Journal of Earth Sciences* 52, 711-723 (invited review).
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- Norman** M, Borg L, Nyquist L, and Bogard D (2003) Chronology, geochemistry, and petrology of a ferroan noritic anorthosite clast from Descartes breccia 67215: clues to the age, origin, structure, and impact history of the lunar crust. *Meteoritics and Planetary Science* 38, 645-661.
- Fagan TJ, Taylor GJ, Keil K, Hicks TL, Killgore M, Bunch TE, Wittke JH, Mittlefehldt DW, Clayton RN, Mayeda TK, Eugster O, Lorenzetti S and. **Norman** MD (2003) Northwest Africa 773: Lunar origin and iron-enrichment trend. *Meteoritics and Planetary Science* 38, 529-554.
- Norman** MD, Bennett VC, and Ryder G (2002) Targeting the impactors: highly siderophile element signatures of lunar impact melts from Serenitatis. *Earth and Planetary Science Letters* 202: 217-228.
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- Albin EF, **Norman** MD, and Roden MF (2000) Major and trace element compositions of georgiaites: clues to the source of North American tektites. *Meteoritics and Planetary Science* 35, 795-806.

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Bogard DD, Garrison DH, **Norman** M, Scott ERD, and Keil K (1995)  $^{39}\text{Ar}$ - $^{40}\text{Ar}$  age and petrology of Chico: large scale impact melting on the L chondrite parent body. *Geochimica et Cosmochimica Acta* 59, 1383-1399.

**Norman** MD (1994) Sudbury Igneous Complex: impact melt or endogenous magma? Implications for lunar crustal evolution. In: *Large Meteorite Impacts and Planetary Evolution*, Geological Society of America Special Paper 293 (BO Dressler, RAF. Grieve, and VL Sharpton, eds.), 331-341.

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### **Government Publications**

**Norman** MD and Garcia GG (1981) Guidebook for lunar breccia 67016. NASA Johnson Space Center Publication 17393, 86 pp.

Ryder G and **Norman** MD (1980) Catalog of Apollo 16 Rocks. Vols 1-3. NASA Johnson Space Center Publication 16904, 1144pp.

Ryder G and **Norman** MD (1978) Catalog of pristine non-mare materials. Part 1. Non-anorthosites, NASA Johnson Space Center Publication 14565, 146pp.

Ryder G and **Norman** MD (1978) Catalog of pristine non-mare materials. Part 2. Anorthosites. NASA Johnson Space Center Publication 14603, 87pp.