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PUBLICATIONS

- R. Parai and S. Mukhopadhyay (accepted, in revision). The evolution of MORB and plume mantle volatile budgets: Constraints from fission Xe isotopes in Southwest Indian Ridge basalts. *Geochem. Geophys. Geosys.*
- R. Parai, S. Mukhopadhyay and J.J. Standish, 2012. Heterogeneous upper mantle Ne, Ar and Xe isotopic compositions and a possible Dupal noble gas signature recorded in basalts from the Southwest Indian Ridge. *Earth Planet. Sci. Lett.*, 359-360, 227-239.
- R. Parai, S. Mukhopadhyay, 2012. How large is the subducted water flux? New constraints on mantle regassing rates. *Earth Planet. Sci. Lett.*, 317-318, 396-406.
- R. Parai, S. Mukhopadhyay, J.C. Lassiter, 2009. New constraints on the HIMU mantle from neon and helium isotopic compositions of basalts from the Cook-Austral Islands. *Earth Planet. Sci. Lett.* 277, 253-261.
- S.P. Patel, R. Parai, R. Parai, D.L. Campbell, 2004. Regulation of Kv4.3 voltage-dependent gating kinetics by KCHIP2 isoforms. *J. Physiol.*, (London) 557, 19-41.

MANUSCRIPTS IN PREPARATION

- R. Parai and S. Mukhopadhyay. The timing of lunar formation from the I-Pu-Xe closure age of Earth's mantle (to be submitted to *Science*).
- R. Parai and S. Mukhopadhyay. Mantle processing rates and the long-term outgassing of the deep Earth (to be submitted to *Earth Planet. Sci. Lett.*).
- R. Parai and S. Mukhopadhyay. I-Pu-U-Xe constraints on volatile loss during Earth's accretion and the timing of the Moon-forming giant impact (to be submitted to *Geochem. Geophys. Geosys.*).
- R. Parai, M.K. Pető, J.M. Tucker and S. Mukhopadhyay. The emerging portrait of an ancient, heterogeneous and continuously evolving plume source. (invited, *Lithos*)
- S. Mukhopadhyay, R. Parai, M.K. Pető and J.M. Tucker. Formation of the early atmosphere from late-accreting planetesimals (to be submitted to *Nature Geoscience*).
- R. Parai, S. Huang and S.B. Jacobsen. Precise determination of Sr isotopic variations in planetary materials and implications for Solar System chronology (to be submitted to *Geochim. Cosmochim. Acta*).