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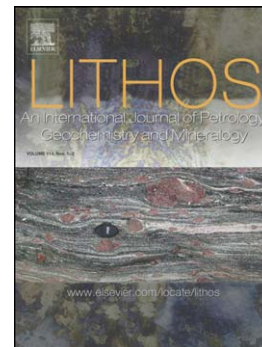
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Implications for mantle controls on metal budgets during continental breakup

Hannah S.R. Hughes, Iain McDonald, Andrew C. Kerr

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Platinum group element signatures in the North Atlantic Igneous Province: Implications for mantle controls on metal budgets during continental breakup

Hannah S. R. Hughes^{1*}, Iain McDonald¹, Andrew C. Kerr¹

¹School of Earth and Ocean Sciences, Cardiff University, Main Building, Cardiff CF10 3AT

*Corresponding author email: HughesH6@cf.ac.uk; Telephone: +44(0)29 208 76420

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Highlights:

- Platinum-group element and Au analyses of British Palaeogene Igneous Province lavas
- Exploration assessment of PGE enrichment and the S-saturation status of the BPIP
- Pt/Pd ratio of North Atlantic Igneous Province lavas change with time
- Pt/Pd ratio controlled by changing geodynamic setting of (proto)-Iceland plume
- Early plume mobilises Pt-rich sulphides in subcontinental lithospheric mantle

¹ **Abbreviations:** North Atlantic Igneous Province (NAIP), British Palaeogene Igneous Province (BPIP), platinum group elements (PGE), rare earth elements (REE), North Atlantic Craton (NAC), monosulphide solution (MSS), Seaward Dipping Reflector Series (SDRS), Large Igneous Province (LIP)

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