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Petrology Of Lamproites

In this book, the first dedicated entirely to the petrology of lamproites and their relationships to other potassium-rich rocks, the objective of the authors is to provide a comprehensive critical review of the occurrence, mineralogy, geochemistry, and petrogenesis of the clan.

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Petrology of Lamproites | Roger H. Mitchell | Springer

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Petrology of Lamproites | SpringerLink

Petrology. Lamproites form from partially melted mantle at depths exceeding 150 km. The molten material is forced to the surface in volcanic pipes, bringing with it xenoliths and diamonds from the harzburgitic peridotite or eclogite mantle regions where diamond formation is stabilized. Recent research, for example on the lamproites at Gaussberg in Antarctica, and lead-lead isotope geochemistry have revealed that the source of lamproites may be transition zone melts of subducted lithosphere ...

Lamproite - Wikipedia

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Petrology of Lamproites by Roger H. Mitchell ...

Petrogenetic models for the origin of lamproites are evaluated using new major element, trace element, and Sr, Nd, and Pb isotope data for Holocene lamproites from the Gaussberg volcano in the East Antarctic Shield.

Lamproites from Gaussberg, Antarctica: Possible Transition ...

There is undoubtedly much further work to be done on the Dharwar Craton kimberlites and Cuddapah Basin lamproites. We hope that our work will encourage this, especially a high-precision (U/Pb?) age dating study. SUPPLEMENTARY DATA. Supplementary data for this paper are available at Journal of Petrology online. *

Petrogenesis of Proterozoic Lamproites and Kimberlites ...

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Petrology of lamproites (Book, 1991) [WorldCat.org]

Petrology Lamproites form from partially melted mantle at depths exceeding 150 km. The molten material is forced to the surface in volcanic pipes, bringing with it xenoliths and diamonds from the harzburgitic peridotite or eclogite mantle regions where diamond formation is stabilized.

Lamproite - chemeurope.com

Lamproite from the Ecco Ranch core is internally fractionated in K₂O, Al₂O₃, Ba, MgO, Fe₂O₃, Co and Cr most likely by crystal accumulation-removal of ferromagnesian minerals and sanidine. In contrast, the Guess core (305-312 m depth) has little fractionation throughout most of the sill except in several narrow zones.

Mineralogy and petrology of cretaceous subsurface ...

In the Mediterranean area, four major lamproitic provinces with uniform geological, geochemical, and petrographic characteristics are recognized: Spain, Italy, Balkans, and Turkey. Mediterranean lamproites are SiO₂-rich lamproites, characterized low CaO, Al₂O₃, and Na₂O, and high K₂O/Al₂O₃ and Mg-number.

A review of petrogenesis of Mediterranean Tertiary ...

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Petrology of Lamproites (eBook, 1991) [WorldCat.org]

The distinctive characteristic of olivine lamproites is phlogopite macrocrysts and microphenocrysts, together with groundmass micas that vary in composition from phlogopite to "tetraferriphlogopite" (anomalously Al-poor phlogopite requiring Fe to enter the tetrahedral site). Resorbed olivine macrocrysts and euhedral primary crystals of groundmass olivine are common but not essential constituents.

Kimberlite - Wikipedia

Petrology and geochemistry of the Mesoproterozoic Vattikod lamproites, Eastern Dharwar Craton, southern India: evidence for multiple enrichment of sub-continental lithospheric mantle and links with amalgamation and break-up of the Columbia supercontinent. Contributions to Mineralogy and Petrology, Vol. 173, Issue. 8,

Mineralogy of the Vattikod lamproite dykes, Ramadugu ...

Petrology and geochemistry are indeed consistent with their nomenclature as lamproites. Crustal contamination is shown to be minimal in influencing their geochemistry.

(PDF) Geochemistry and petrology of two kimberlites at ...

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