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Nota di contenuto	Editors; Reviewers; Preface; Preface to SE Volume; CONTENTS; Carbonatites in Phong Tho, Lai Chau Province (NW Vietnam): Their Petrogenesis and Relationship with Cenozoic Potassic Alkaline Magmatism N.T. Chi, M.J.F. Flower and D.T. Hung; 1. Introduction; 2. Characteristics of Geology and Mineral-Petrographic Features; 2.1. Characteristics of geochemistry; 2.1.1. Geochemistry of major elements; 2.1.2. Geochemistry of trace elements; 2.1.3. Isotopic composition and aged position of Phong Tho carbonatite 2.2. Petrogenesis of carbonatite and their relationship with Cenozoic potassic alkaline magmatism in Phong Tho3. Conclusion; Acknowledgments; References; Non-Destructive Detection of Platinum-Bearing Mineral From Geological Sample by Subtraction Imaging with Synchrotron Radiation X-Ray Tetsu Kogiso, Katsuhiko Suzuki, Toshihiro Suzuki and Kentaro Uesugi; 1. Introduction; 2. Analytical Procedures; 3. Results and Discussion; 3.1. Identification of Pt-bearing phase; 3.2. Nugget effect in PTC-1a; 4. Concluding Remarks; Acknowledgments; References Trace, Rare Earth Element (REE) and Platinum Group Element (PGE) Geochemistry of the Mafic and Ultramafic Rocks from Bundelkhand

Craton, Central India M. Satyanarayanan, V. Balaram, Parijat Roy, K. V. Anjaiah and S. P. Singh 1. Introduction; 2. Geological Setting; 3. Petrography; 4. Analytical Methods; 5. Analytical Results; 5.1. Major oxides and trace elements; 5.2. PGE and Au; 6. Discussion; 6.1. Effect of alteration; 6.2. Subduction zone environment of the MIP; 6.3. PGE behavior in the Madaura ultramafic rocks; 6.3.1. Fractionation of IPGE and PPGE  
6.3.2. Fractionation of Pt-Pd and the origin of positive Pt anomalies  
6.4. Partial melting; 6.5. Mantle metasomatism; 7. Conclusions; Acknowledgments; References; PGE Exploration Studies in India - A Few Initiatives V. Balaram; 1. Introduction; 2. PGE Occurrences in the World; 2.1. Magmatic deposits; 2.2. Layered intrusions; 2.3. Intrusive and extrusive mafic-ultramafic rocks; 2.4. Other types; 2.5. Manganese nodules/crust as possible sources of PGE; 3. PGE Occurrences in India; 3.1. Madawara igneous province (MIP); 4. Ophiolite Complexes; 5. Continental Flood Basalts; 6. PGE in Black shales  
7. PGE-Exploration Studies 8. Chondrite-Normalized PGE and Au Distribution Patterns; 9. PGE Analysis in Exploration Studies - General Principles; 10. In-Situ Analysis of PGE; Acknowledgments; References; PGE Mineralisation in Ultramafic/Mafic Enclaves of Ikauna Area, Bundelkhand Craton, India S. A. Farooqui and P. K. Singh; 1. Introduction; 2. Geological Setting; 3. Petrography; 4. Chemical Analyses; 5. Mineralization; 6. Discussion; 7. Conclusions; Acknowledgements; References  
Determination of Ultra Low Levels of Platinum Group of Elements in Kimberlites by ICP-MS: Modified Decomposition Procedure Using Double NiS Fire Assay Followed by Te Co Precipitation Parijat Roy, Vysetti Balaram, Gnaneshwar Rao and Manavalan Satyanarayan

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## Sommario/riassunto

This invaluable volume set of Advances in Geosciences continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change, extreme weathers on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are doing cutting edge study in atmospheric physics, hydrological science and water resou

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