

Elements

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Graphitic Carbon

Guest Editors: **Olivier Beyssac** and **Douglas Rumble**



Graphitic Carbon: A Ubiquitous, Diverse, and Useful Geomaterial

Olivier Beyssac and Douglas Rumble



From Organic Matter to Graphite: Graphitization

Peter R. Buseck and Olivier Beyssac



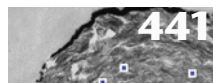
Hydrothermal Graphitic Carbon

Douglas Rumble



Graphitic Carbons and Biosignatures

Sylvain Bernard and Dominic Papineau



Presolar Graphitic Carbon Spherules: Rocks from Star

T. Kevin Croat, Thomas J. Bernatowicz, and Tyrone L. Daulton



Carbon-Based Nanoscience

Michele Lazzeri and Amelia Barreiro

ABOUT THE COVER:

Highly crystalline graphite in the leucosome of a migmatitic granulite from Azhikode, Kerala Khondalite Belt, southern India. Graphite (black) is intergrown with alkali feldspars and quartz (colored) and likely crystallized with these phases during melt crystallization. Details in Satish-Kumar et al. (2011), *Contributions in Mineralogy and Petrology* 162: 821-834. Height of field of view: ~5 mm.

POLARIZED-LIGHT PHOTOMICROGRAPH

COURTESY OF BERNARDO CESARE

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