

Elements

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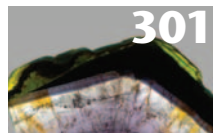
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Tourmaline

Guest Editors: **Barbara L. Dutrow and Darrell J. Henry**



Tourmaline: A Geologic DVD

Barbara L. Dutrow and Darrell J. Henry



Tourmaline the Indicator Mineral: From Atomic Arrangement to Viking Navigation

Frank C. Hawthorne and Dona M. Dirlam



Tourmaline Isotopes: No Element Left Behind

Horst R. Marschall and Shao-Yong Jiang



Tourmaline as a Recorder of Ore-Forming Processes

John F. Slack and Robert B. Trumbull



Tourmaline as a Petrologic Forensic Mineral: A Unique Recorder of Its Geologic Past

Vincent J. van Hinsberg, Darrell J. Henry, and Barbara L. Dutrow



Tourmaline: The Kaleidoscopic Gemstone

Federico Pezzotta and Brendan M. Laurs

ABOUT THE COVER:
These elongate tourmaline crystals, probably an elbaite species, display a common color change toward the top of the crystal. Tourmaline is associated with plates of albite (white) and a crystal of fluorite (green). The specimen is from Stak Nala, Pakistan, and is 10.6 cm high. However, tourmaline is more than just another pretty mineral—it can be a single-mineral thermometer, a provenance indicator, and a recorder of *P-T-X* conditions.

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