Elements

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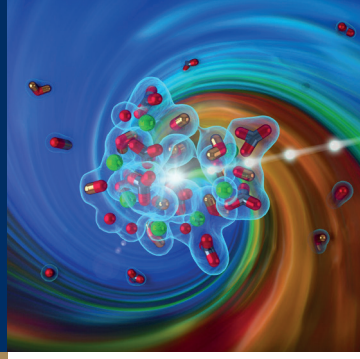
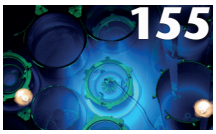


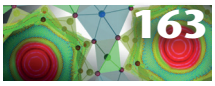
Neutrons help us understand the structure and dynamics of many systems that are sometimes hard to characterize, such as liquids and amorphous solids. The swirling colors represent solutions rapidly mixed together to precipitate an amorphous solid (balls-and-sticks). Its atomic structure can be revealed by neutron diffraction, where the pulsed beam is shown in white. IMAGE CREDIT: ORNL/JILL HEMMAN

Exploring Earth and Planetary Materials with Neutrons

Guest Editors: **David R. Cole** and **Nancy L. Ross**

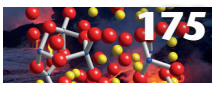


Neutrons "101" – A Primer for Earth Scientists
Nancy L. Ross and David R. Cole



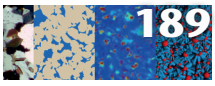
Where is the Hydrogen?
G. Diego Gatta, Klaudia Hradil, and Martin Meven

Nanoscale Structure and Dynamics in Geochemical Systems
Andrew G. Stack, Hsiu-Wen Wang, and David R. Cole



Probing the Structure of Melts, Glasses, and Amorphous Materials
Chris J. Benmore and Martin C. Wilding

Probing Phase Transitions and Magnetism in Minerals with Neutrons
Bryan C. Chakoumakos and John B. Parise



Imaging with Neutrons
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