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## LETTERS

- 1957 EosFit-Pinc: A simple GUI for host-inclusion elastic thermobarometry**  
Ross J. Angel, Mattia L. Mazzucchelli, Matteo Alvaro, and Fabrizio Nestola

## HIGHLIGHTS AND BREAKTHROUGHS

- 1769 Looking for “missing” nitrogen in the deep Earth**  
Dmitry A. Zedgenizov and Konstantin D. Litasov

## ACTINIDES IN GEOLOGY, ENERGY, AND THE ENVIRONMENT

- 1771 Crystal structure of richetite revisited: Crystallographic evidence for the presence of pentavalent uranium**  
Jakub Plášil
- 1776 Mobilization and agglomeration of uraninite nanoparticles: A nano-mineralogical study of samples from the Matoush Uranium ore deposit**  
Michael Schindler, Aaron J. Lussier, Jacob Bellrose, Sergei Rouvimov, Peter C. Burns, and T. Kurt Kyser
- 1788 Radiation damage in sulfides: Radioactive galena from burning heaps, after coal mining in the Lower Silesian basin (Czech Republic)**  
Michal Čurda, Viktor Goliáš, Mariana Klementová, Ladislav Strnad, Zdeněk Matěj, and Radek Škoda

## SPECIAL COLLECTION: MECHANISMS, RATES, AND TIMESCALES OF GEOCHEMICAL TRANSPORT PROCESSES IN THE CRUST AND MANTLE

- 1796 Element mobility during regional metamorphism in crustal and subduction zone environments with a focus on the rare earth elements (REE)**  
Jay J. Ague

## SPECIAL COLLECTION: WATER IN NOMINALLY HYDROUS AND ANHYDROUS MINERALS

- 1822 Subsolidus hydrogen partitioning between nominally anhydrous minerals in garnet-bearing peridotite**  
Sylvie Demouchy, Svyatoslav Sheheka, Carole M.M. Denis, and Catherine Thoraval
- 1832 OH defects in quartz as monitor for igneous, metamorphic, and sedimentary processes**  
Roland Stalder, Alexander Potrafke, Kjell Billström, Henrik Skogby, Guido Meinhold, Christian Gögele, and Thomas Berberich

## ARTICLES

- 1843 Quantitative electron backscatter diffraction (EBSD) data analyses using the dictionary indexing (DI) approach: Overcoming indexing difficulties on geological materials**  
Katharina Marquardt, Marc De Graef, Saransh Singh, Hauke Marquardt, Anja Rosenthal, and Sanae Koizumi
- 1856 Trace element inventory of meteoritic Ca-phosphates**  
Dustin Ward, Addi Bischoff, Julia Roszjar, Jasper Berndt, and Martin J. Whitehouse
- 1881 Insights into solar nebula formation of pyrrhotite from nanoscale disequilibrium phases produced by H<sub>2</sub>S sulfidation of Fe metal**  
Zack Gainsforth, Dante S. Lauretta, Nobumichi Tamura, Andrew J. Westphal, Christine E. Jilly-Rehak, and Anna L. Butterworth
- 1894 Unraveling the presence of multiple plagioclase populations and identification of representative two-dimensional sections using a statistical and numerical approach**  
Lilu Cheng, Fidel Costa, and Roberto Carniel
- 1906 Refractive indices of minerals and synthetic compounds**  
Ruth C. Shannon, Barbara Lafuente, Robert D. Shannon, Robert T. Downs, and Reinhard X. Fischer
- 1915 Can we use pyroxene weathering textures to interpret aqueous alteration conditions? Yes and No**  
Charity M. Phillips-Lander, Carey Legett IV, Andrew S. Elwood Madden, and Megan E. Elwood Madden
- 1922 Phase relations and formation of K-bearing Al-10 Å phase in the MORB+H<sub>2</sub>O system: Implications for H<sub>2</sub>O- and K-cycles in subduction zones**  
Renbiao Tao, Lifei Zhang, Xi Liu, Thomas Bader, and Yingwei Fei
- 1934 Effect of alkalis on the reaction of clinopyroxene with Mg-carbonate at 6 GPa: Implications for partial melting of carbonated lherzolite**  
Anton Shatskiy, Ivan V. Podborodnikov, Anton V. Arefiev, Konstantin D. Litasov, Artem D. Chanyshev, Igor S. Sharygin, Nikolai S. Karmanov, and Eiji Ohtani
- 1947 Synthesis and crystal structure of LiNbO<sub>3</sub>-type Mg<sub>3</sub>Al<sub>2</sub>Si<sub>3</sub>O<sub>12</sub>: A possible indicator of shock conditions of meteorites**  
Takayuki Ishii, Ryosuke Sinmyo, Tetsuya Komabayashi, Tiziana Boffa Ballaran, Takaaki Kawazoe, Nobuyoshi Miyajima, Kei Hirose, and Tomoo Katsura
- 1953 Single crystal synthesis of δ-(Al,Fe)OOH**  
Takaaki Kawazoe, Itaru Ohira, Takayuki Ishii, Tiziana Boffa Ballaran, Catherine McCammon, Akio Suzuki, and Eiji Ohtani
- 1961 NEW MINERAL NAMES**

