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## Specialities by Associate Editors Report

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

### **A** [Top](#)

Acosta-Vigil, Antonio

Primary:

- Experimental petrology
- Geochemistry
- High-grade metamorphism, anatexis, and granite magmatism (special collection)
- Igneous petrology

Almeev, Renat

Primary:

- Experimental petrology
- Glasses
- Phase equilibria
- Rates and Depths of Magma Ascent on Earth

Ashley, Kyle

Primary:

- melt-fluid inclusions (special collection)

### **B** [Top](#)

Bajt, Sasa

Primary:

- Environmental mineralogy
- Spectroscopy/X-ray (including XRF, XANES, EXAFS, etc.)
- Synchrotron

Baker, Don

Primary:

- Geochemistry
- Igneous petrology

Ballmer, Maxim

Primary:

- Deep Earth
- Earth mantle
- Physics and Chemistry of Earths Deep Mantle and Core
- Planetary materials
- Plumes

Barbin, Vincent

Primary:

- Cathodoluminescence

Barnes, Calvin

Primary:

- Crustal Magmas
- Geochemistry
- Igneous petrology
- Metamorphism, crustal melting and granite magmas
- Rare earth elements

Bishop, Janice

Primary:

Crystallography  
Earth Analogs (Special Collection)  
Martian Rocks and Soil  
planetary geochemistry

Broekmans, Maarten

Primary:  
Cement research  
Crystal chemistry  
Diffraction  
Sedimentary petrology

Brownlee, Sarah

Primary:  
Fabric and Textures  
mineral deformation mechanisms  
mineral deformation studies

## C [Top](#)

Cadoux, Anita

Primary:  
Halogens in Planetary Systems (Special Collection)

Cannatelli, Claudia

Primary:  
Experimental petrology  
Petrology  
melt-fluid inclusions (special collection)  
volcanic process

## D [Top](#)

De Gregorio, Bradley

Primary:  
Origins of Our Solar System and Its Organic Compounds (Special Collection)

Demouchy, Sylvie

Primary:  
Earth mantle  
Experimental petrology  
Olivine  
Physics and Chemistry of Earths Deep Mantle and Core (Special Collection)  
Rates and Depths of Magma Ascent on Earth  
Understanding of Reaction and Deformation Microstructures (Special Collection)  
Water in nominally hydrous and anhydrous minerals (Special Collection)  
mantle deformation processes  
mineral deformation mechanisms  
transport properties

Dorfman, Susannah

Primary:  
Compressibility  
Deep Earth  
Diffraction  
High pressure  
Mineral physics  
Phase equilibria  
Phase transitions  
Synchrotron  
Ultra-high pressure techniques  
high temperature

Dumond, Gregory

Primary:  
Fabric and Textures  
Geochronology  
Metamorphic petrology  
Monazites/Geochronology

Dyar, Melinda

Primary:  
Crystal chemistry  
Crystallography  
Spectroscopy/Mossbauer



## G [Top](#)

Gatta, G. Diego

Primary:

Microporous materials: crystal-chemistry, properties, and utilizations (Special Collection)

Geiger, Charles

Primary:

Crystal chemistry

Spectroscopy/Infrared

Spectroscopy/Mossbauer

Water in nominally hydrous and anhydrous minerals (Special Collection)

Giovannelli, Donato

Primary:

Earth in Five Reactions (Special Collection)

Grangeon, Sylvain

Primary:

Cement research

Clay minerals

Diffraction

Environmental mineralogy

Nanominerals

Nanominerals and Mineral Nanoparticles (Special Collection)

Gregory, Daniel

Primary:

Earth Science, general

Fluids and aqueous geochemistry

Geochemistry

Paleo-Ocean Proxies (Special Collection)

Grew, Edward

Primary:

Lithium, beryllium and boron (Special Collection)

## H [Top](#)

Handley, Heather

Primary:

Subduction Zone (Special Collection)

Harlov, Daniel

Primary:

Apatite

Experimental petrology

Fluids and aqueous geochemistry

Metamorphic petrology

Meteorites

Mineralogy

Monazites/Geochronology

Petrology

Planetary materials

Rare earth elements

Hetherington, Callum

Primary:

Fabric and Textures

Geochemistry

Igneous petrology

Isotope mineralogy

Metamorphic petrology

Monazites/Geochronology

Petrology

Huff, Warren

Primary:

Clay minerals

Hummer, Daniel

Primary:

Crystal chemistry

Crystallography

Deep Earth

Diffraction

- Earth mantle
- Fluids and aqueous geochemistry
- Geochemistry
- High pressure
- Melts
- Mineral physics

## **J** [Top](#)

Jing, Zhicheng

Primary:

- Deep Earth
- High pressure
- Melts
- Mineral physics
- Physics and Chemistry of Earths Deep Mantle and Core (Special Collection)

## **K** [Top](#)

Kiseeva, Kate

Primary:

- Planetary Processes as Revealed by Sulfides and Chalcophile Elements (Special Collection)

Kung, Jennifer

Primary:

- Deep Earth
- Diffraction
- High pressure
- Mineral physics

## **L** [Top](#)

Lackey, Jade Star

Primary:

- Isotopes, Minerals, and Petrology (Special Collection)

Lesher, Charles

Primary:

- Experimental petrology
- Igneous petrology
- Petrology

Li, Jie

Primary:

- Earth in Five Reactions (Special Collection)

Liu, Haozhe

Primary:

- Diffraction
- High pressure
- Mineral physics
- Nanominerals
- Phase transitions
- Synchrotron
- Ultra-high pressure techniques

Lotti, Paolo

Primary:

- Microporous materials: crystal-chemistry, properties, and utilizations (Special Collection)

Lussier, Aaron

Primary:

- Crystal chemistry
- Crystal-structure determinations
- Crystallography
- Mineralogy

## **M** [Top](#)

Madden, Andrew

Primary:

- Clay minerals
- Environmental Geochemistry
- Environmental mineralogy
- Mineral surfaces
- Nanominerals

McHenry, Lindsay

Primary:

- Clay minerals
- Diffraction
- Geology and Geo-Biology of Lassen Volcanic National Park (special collection)
- Martian Rocks and Soil
- Mineralogy
- Planetary materials
- Planets
- planetary geochemistry
- zeolites

Mookherjee, Mainak

Primary:

- Compressibility
- Computational crystallography
- Crystal chemistry
- High pressure
- Mineral physics
- Planetary materials
- density functional theory (DFT)

Morgan, Dan

Primary:

- Dynamics of magmatic processes (Special Collection)

Morizet, Yann

Primary:

- Amorphous Materials
- Amorphous materials
- Experimental petrology
- Glasses
- High pressure
- Melts
- NMR
- rheology
- volcanic process

Mueller, Thomas

Primary:

- Experimental petrology
- Geochemical Transport
- Isotope mineralogy
- Metamorphic petrology
- Petrology

## **N** [Top](#)

Nestola, Fabrizio

Primary:

- Compressibility
- Crystal chemistry
- Crystal-structure determinations
- Crystallography
- Deep Earth
- Descriptive mineralogy and new mineral descriptions
- Diffraction
- Mineral physics
- Mineralogy
- Physics and Chemistry of Earths Deep Mantle and Core

Neuville, Daniel

Primary:

- Amorphous Materials
- Glasses
- Spectroscopy
- Thermodynamics
- lava
- magma

## **P** [Top](#)

Parker, Eric

Primary:

- Origins of Our Solar System and Its Organic Compounds (Special Collection)

Peck, William

Primary:  
Isotopes, Minerals, and Petrology (Special Collection)

Penniston-Dorland, Sarah

Primary:  
Fluids and aqueous geochemistry  
Fluids in the Crust  
Geochemistry  
Metamorphic petrology

Peslier, Anne

Primary:  
Igneous petrology  
Spectroscopy/Infrared  
Volatile Elements in Differentiated Planetary Interiors (Special Collection)  
planetary geochemistry

Petrelli, Maurizio

Primary:  
Dynamics of magmatic processes (Special Collection)  
Igneous petrology  
Petrology  
volcanic petrology

Petrone, Chiara Maria

Primary:  
Dynamics of magmatic processes (Special Collection)  
Geochemistry  
Igneous petrology  
Petrogenesis  
volcanic petrology

## **R** [Top](#)

Redfern, Simon

Primary:  
Compressibility  
Crystal chemistry  
Crystal-structure determinations  
Crystallography  
Deep Earth  
Diffraction  
Pair distribution analysis  
Phase transitions  
Spontaneous strain analyses  
Synchrotron

Refson, Keith

Primary:  
Mineral physics  
density functional theory (DFT)

Roberge, Julie

Primary:  
From Magmas to Ore Deposits(Special Collection)  
Geochemistry  
Igneous petrology

## **S** [Top](#)

Simon, Steven

Primary:  
Meteorites  
Planetary materials  
planetary geochemistry

Sinmyo, Ryosuke

Primary:  
Physics and Chemistry of Earths Deep Mantle and Core (Special Collection)

Speziale, Sergio

Primary:  
Deep Earth  
Diffraction  
High pressure  
Mineral physics

Pair distribution analysis

Stalder, Roland

Primary:

Water in nominally hydrous and anhydrous minerals (Special Collection)

Straub, Susanne

Primary:

Subduction Zone (Special Collection)

Swainson, Ian

Primary:

Crystallography

Diffraction

Mineral physics

Nuclear materials

Pair distribution analysis

Phase transitions

**T** [Top](#)

Teng, Fang-Zhen

Primary:

Geochemistry

Igneous petrology

Isotope mineralogy

Metamorphic petrology

Planetary materials

Thompson, Elizabeth

Primary:

Compressibility

Deep Earth

Diffraction

High pressure

Mineral physics

Volatile Elements in Differentiated Planetary Interiors (Special Collection)

Till, Christy

Primary:

Experimental petrology

Igneous petrology

Nanoscale

Petrogenesis

Phase relations

magma

planetary geochemistry

volcanic petrology

Tomascak, Paul

Primary:

Geochemistry

Isotope mineralogy

Pegmatites

Petrogenesis

Tschauner, Oliver

Primary:

Compressibility

Crystal chemistry

Crystal-structure determinations

Deep Earth

Diffraction

High pressure

Meteorites

Planetary materials

Synchrotron

Ultra-high pressure techniques

**W** [Top](#)

Wallace, Adam

Primary:

Biom mineralization

Computational crystallography

Environmental Geochemistry

Environmental mineralogy  
Fluids and aqueous geochemistry  
Geochemistry  
Mineral surfaces  
Nanominerals  
density functional theory (DFT)  
nucleation

Watson, Bruce

Primary:  
Olivine

Watson, Heather

Primary:  
Planets

**X** [Top](#)

Xu, Hongwu

Primary:  
Crystal-structure determinations  
Crystallography  
Diffraction  
Gems  
Thermodynamics

Xu, Jie

Primary:  
Amorphous materials  
Crystal chemistry  
Environmental Geochemistry  
Environmental mineralogy  
Fluids and aqueous geochemistry  
Martian Rocks and Soil  
Mineral surfaces  
Mineralogy  
Nanominerals  
Nanominerals and Mineral Nanoparticles (Special Collection)

