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Specialities by Associate Editors Report

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A [Top](#)

Abdu, Yassir

Primary:

- Meteorites
- Planetary materials
- Spectroscopy/Infrared
- Spectroscopy/Mossbauer
- Spectroscopy/Raman

Acosta-Vigil, Antonio

Primary:

- High-grade metamorphism, anatexis, and granite magmatism (special collection)

Almeev, Renat

Primary:

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

B [Top](#)

Baker, Don

Primary:

- Amorphous materials
- Dynamics of magmatic processes
- Electron microprobe analysis
- Experimental Halogens in honor of James Webster (Special Collection)
- Experimental petrology
- Fabric and Textures
- Geochemical transport
- Geochemistry
- Glasses and melts
- Halogens in Planetary Systems (Special Collection)

Ballmer, Maxim

Primary:

- Deep Earth
- Mantle
- Physics and Chemistry
- Planetary materials
- Plumes

Barnes, Calvin

Primary:

- Geochemistry
- Igneous petrology
- Magma
- Plutons and wall rocks
- Rare earth elements

Bishop, Janice

Primary:

- Earth Analogs (Special Collection)
- Planetary geochemistry

Broekmans, Maarten

Primary:

- Cement and concrete
- Imaging/Electron microscopy (TEM, SEM, STEM, back-scattered electron imaging, Cathodoluminescence, etc.)



Sedimentary petrology

Brownlee, Sarah

Primary:

Fabric and Textures
Mineral deformation studies
mineral deformation mechanisms

C [Top](#)

Cadoux, Anita

Primary:

Halogens in Planetary Systems (Special Collection)

Cannatelli, Claudia

Primary:

Experimental petrology
Melt-fluid inclusions (special collection)
Petrology
Volcanic process

D [Top](#)

De Gregorio, Bradley

Primary:

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

Demouchy, Sylvie

Primary:

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

Dolejs, David

Primary:

Thermodynamics

Dorfman, Susannah

Primary:

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

dos Santos, Antonio

Primary:

Advances in Ultrahigh-Pressure Metamorphism
Compressibility
Crystal-structure determinations
Diffraction
High pressure
Mineral physics
Novel applications of apparatus and technique
Spectroscopy/Elastic Scattering/Neutron diffraction
Spectroscopy/Elastic Scattering/X-ray diffraction
Ultra-high pressure techniques

G [Top](#)

Gatta, G. Diego

Primary:

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

Geiger, Charles

Primary:

Crystal chemistry
Spectroscopy/Infrared



Spectroscopy/Mossbauer
Thermodynamics
Water in nominally hydrous and anhydrous minerals (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](#)

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
Fluids and aqueous geochemistry
Geochemistry
High pressure
Mantle
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:

Deep Earth
Experimental petrology
Geochemistry
High pressure
High temperature
Igneous petrology
Mantle
Petrology
Planetary processes



Sulfides

Kung, Jennifer

Primary:

- Crystal chemistry
- High pressure
- Mineral chemistry
- Physics and Chemistry of Earths Deep Mantle and Core (Special Collection)
- Spectroscopy/Raman

L [Top](#)

Lackey, Jade Star

Primary:

- Isotopes, Minerals, and Petrology (Special Collection)

Leshner, Charles

Primary:

- Experimental petrology
- Igneous petrology
- Petrology

Liu, Haozhe

Primary:

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

Lotti, Paolo

Primary:

- Crystallography
- Microporous materials: crystal-chemistry, properties, and utilizations (Special Collection)
- Mineralogy
- Physics and Chemistry
- Zeolites

Lussier, Aaron

Primary:

- Crystal chemistry
- Crystal-structure determinations
- Crystallography
- Descriptive mineralogy and new minerals
- Diffraction/X-ray diffraction
- Electron microprobe analysis
- Environmental geochemistry
- Imaging/Electron microscopy (TEM, SEM, STEM, back-scattered electron imaging, Cathodoluminescence, etc.)
- Mineral chemistry
- Mineral nanoparticles

M [Top](#)

McHenry, Lindsay

Primary:

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

Mookherjee, Mainak

Primary:

- Compressibility
- Crystal chemistry
- Crystallography
- Density functional theory (DFT)
- High pressure
- Mineral physics
- Planetary materials

Morizet, Yann

Primary:



- Amorphous materials
- Glasses and melts
- Rheology
- Volcanic process

Mueller, Thomas

Primary:

- Geochemical transport

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

Neuville, Daniel

Primary:

- Amorphous materials
- Glasses and melts
- Magma
- Spectroscopy
- Thermodynamics
- lava

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
- Geochemistry
- Metamorphic petrology
- Stable isotopes
- Subduction zone

Peslier, Anne

Primary:

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

Petrelli, Maurizio

Primary:

- Dynamics of magmatic processes
- Igneous petrology
- Rates and Depths of Magma Ascent on Earth
- 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

Roberge, Julie

Primary:

From Magmas to Ore Deposits(Special Collection)
Geochemistry
Igneous petrology
Melts
Petrogenesis
Rates and Depths of Magma Ascent on Earth
Volcanic petrology
Volcanic process

S

[Top](#)

Semprich, Julia

Primary:

Martian Rocks and Minerals
Metamorphic petrology
Phase equilibria
Planetary materials

Simon, Steven

Primary:

Meteorites
Planetary geochemistry
Planetary materials

Sinmyo, Ryosuke

Primary:

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

Sobron, Pablo

Primary:

Earth Analogs (Special Collection)

Speziale, Sergio

Primary:

Deep Earth

Steele-MacInnis, Matthew

Primary:

Fluids and aqueous geochemistry

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)

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
Crystallography
Density functional theory (DFT)
Environmental geochemistry
Nucleation and growth

Wang, Jianwei

Primary:

Biom mineralization
Clay minerals
Crystallography
Mineral surfaces
Nuclear materials

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
Nanomaterials