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Acosta-Vigil, Antonio

Primary:

- Chemical diffusion
- Experimental petrology
- Geochemistry
- High-grade metamorphism, anatexis, and granite magmatism (special collection)
- Igneous petrology
- Metamorphism, crustal melting and granite magmas
- Petrogenesis

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

Celestian, Aaron

Primary:

Crystal chemistry  
Crystallography  
zeolites

## D [Top](#)

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

Dumond, Gregory

Primary:

Fabric and Textures  
Geochronology  
Metamorphic petrology  
Monazites/Geochronology

Dyar, Melinda

Primary:

Crystal chemistry  
Crystallography  
Spectroscopy/Mossbauer

## E [Top](#)

Elwood Madden, Andrew

Primary:

Clay minerals  
Environmental Geochemistry  
Environmental mineralogy  
Mineral surfaces  
Nanominerals

## F [Top](#)

Fernandez-Martinez, Alejandro

Primary:

Amorphous materials  
Biomineralization  
Environmental mineralogy  
Mineral surfaces



Nanominerals  
 Nanominerals and Mineral Nanoparticles (Special Collection)  
 Nanoscale  
 Pair distribution analysis  
 Synchrotron

## G [Top](#)

Gatta, G. Diego

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

Lane, Melissa

Primary:

Martian Rocks and Soil  
planetary geochemistry

Leshner, 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

London, David

Primary:

Chemical diffusion  
Experimental petrology  
Fabric and Textures  
Gems  
Glasses  
Melts  
Mineral occurrences and deposits  
Pegmatites  
Phase relations

Lotti, Paolo

Primary:

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

**M** [Top](#)

McHenry, Lindsay

Primary:

Clay minerals  
Diffraction



Geology and Geo-Biology of Lassen Volcanic National Park (special collection)  
Martian Rocks and Soil  
Mineralogy

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  
Spectroscopy/Raman  
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

Singer, David

Primary:

Environmental Geochemistry  
Fluids and aqueous geochemistry  
Mineral surfaces  
Nanominerals and Mineral Nanoparticles (Special Collection)

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

## Tschauer, Oliver

## Primary:

Compressibility  
Crystal chemistry  
Crystal-structure determinations  
Deep Earth  
Diffraction  
High pressure  
Meteorites  
Planetary materials  
Synchrotron  
Ultra-high pressure techniques

**W**[Top](#)

## Watson, E.

## 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)

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