TABLE OF CONTENTS

- Description p.1
- Audience p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.5

DESCRIPTION

*Geochimica et Cosmochimica Acta* publishes research papers in a wide range of subjects in **terrestrial geochemistry**, **meteoritics**, and **planetary geochemistry**. The scope of the journal includes:

1. Physical chemistry of gases, aqueous solutions, glasses, and crystalline solids
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3. Chemical processes in the atmosphere, hydrosphere, biosphere, and lithosphere of the Earth
4. Organic geochemistry
5. Isotope geochemistry
6. Meteoritics and meteorite impacts
7. Lunar science; and
8. Planetary geochemistry.

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Geochemists, including Terrestrial, Planetary and Meteoritical Geochemists and Oceanographers.

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Inorganic chemical processes relevant to low temperature Geochemistry and Atmospheric Chemistry; Mineral/gas and mineral/water interfaces; Vibration spectroscopy, X-ray photoelectron spectroscopy, electrochemistry, thermodynamic and molecular modeling.

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Hailing Dong, Miami University, Oxford, USA
Mineral-microbe interactions, Bioremediation, Life in extreme environments, Biogeochemical cycling of elements, Geomicrobiology, Aqueous geochemistry

Anthony Dosseto, University of Wollongong, Wollongong, Australia

Matthew Fantle, Penn State University, USA
Marine sediments Metal and non-traditional isotopes (e.g., Fe, Ca, Cu, Mg, Sr, Li, B stable isotopes) Geochemical cycles (global and otherwise) Carbonate diagenesis Marine diagenesis Reactive transport modeling Analytical techniques Proxy-based reconstructions Experimental constraints on isotopic dynamics Biosignatures Interactions between organics and minerals

James Farquhar, University of Maryland, College Park, USA
Sarah J. Feakins, University of Southern California, Los Angeles, USA
Jérôme Gaillardet, Institut de Physique du Globe de Paris, Paris, France
Isotope geochemistry, Critical Zone, Weathering and Erosion, River Geochemistry, Paleo pH Proxies, Global Cycles

Chris Hall, University of Michigan, Ann Arbor, USA
Chris Herd, University of Alberta, Edmonton, Canada
Shergottites, Mars, meteorites, oxygen fugacity, trace element and radiogenic isotope geochemistry, igneous and experimental petrology, curation and handling of planetary materials, organic geochemistry, carbonaceous chondrites

Gregory Herzog, Rutgers University, Piscataway, New Jersey, USA
Rosemary Hickey-Vargas, Florida International University, Miami, USA
Ed Hornbrook, University of British Columbia, Kelowna, Canada
Shichun Huang, University of Nevada at Las Vegas, Las Vegas, USA
Munir Humayun, Florida State University, Tallahassee, USA
Adrian Immenhauser, Ruhr-Universität Bochum, Bochum, Germany
Carbonate Sedimentary Geochemistry (marine and continental), Diagenesis, Biomineralization, Non-traditional Isotope Systems (Mg, Ca), Experimental Approaches.

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Anders Melhod, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

John Moreau, Melbourne University, Parkville, Australia
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For more information please visit the homepage of the Research School of Earth Sciences:

Martin Novak, Czech Geological Survey, Prague, Czech Republic
Dimitri Papanastassiou, NASA Jet Propulsion Laboratory, Pasadena, USA
Caroline Peacock, University of Leeds, Leeds, UK
low temperature aqueous geochemistry, mineral-water interface geochemistry, application of synchrotron techniques to understand environmental systems particularly x-ray fluorescence and x-
ray absorption spectroscopy, thermodynamic surface complexation modelling, heavy metal stable isotope fractionation.

**Ann Pearson**, Harvard University, Cambridge, USA

**Gleb Pokrovski**, Université Paul Sabatier (Toulouse III), Toulouse, France

Experimental geochemistry both at low and high temperatures, geochemistry of magmatic-hydrothermal metal deposits, thermodynamic modeling of geological fluids and water-mineral interactions, speciation and partitioning of chemical elements and their isotopes in mineral-fluid-vapor-melt systems, and in-situ spectroscopic approaches (in particular X-ray absorption and fluorescence, and Raman spectroscopy).

**Jay Quade**, University of Arizona, Tucson, USA

**Eric Quirico**, Université Joseph Fourier (Grenoble I), Grenoble Cedex 9, France

Cosmochemistry, Meteorites, Interplanetary Dusts, Comets, Asteroids, Organic Matter, Ices, Raman Spectroscopy, Infrared Spectroscopy

**Mark Rehkamper**, Imperial College London, London, UK

**Edward Ripley**, Indiana University, Bloomington, USA

**Claire Rolliion-Bard**, Institut de Physique du Globe de Paris, Paris, France

**Olivier Rouxel**, Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER), Plouzané, France

**Sara Russell**, Natural History Museum, London, UK

**Edwin Schauble**, University of California at Los Angeles (UCLA), Los Angeles, USA

**Silke Severmann**, Rutgers University, New Brunswick, USA

**David Shuster**, University of California at Berkeley, Berkeley, USA

**Daniel Sinclair**, Victoria University of Wellington, Wellington, New Zealand

Paleoceanographic reconstruction using tropical corals and deep sea corals, Palaeoclimate reconstruction using speleothems, Pacific oceanography and climate over the last 100,000 years, Biomineralization, especially of corals, Carbonate geochemistry: trace element and isotope systematics, geochemical modelling, Mass spectrometry method development: ICP-MS, especially laser-ablation

**Orit Sivan**, Ben-Gurion University of the Negev, Be'er Sheva, Israel

Methane, AOM, stable isotope, redox, porewater, groundwater, interface, early diagenesis

**Carl Steefel**, Lawrence Berkeley National Laboratory, Berkeley, USA

**Brian Stewart**, University of Pittsburgh, Pittsburgh, USA

**Claudine Stirling**, University of Otago, Dunedin, New Zealand

**Andreas Stracke**, Westfälische Wilhelms-Universität Münster, Munster, Germany

**Weidong Sun**, Chinese Academy of Sciences (CAS), Guangzhou, China

**Fang-Zhen Teng**, University of Washington, Seattle, USA

Isotope geochemistry of metals (e.g., Li, Mg, Fe, Cu, Zn etc.); composition and evolution of the continental crust and mantle; global elemental cycling; origin of the early solar system; MC-ICPMS

**Jessica E. Tierney**, University of Arizona, Tucson, USA

**Mike Toplis**, Observatoire Midi-Pyrenees, Toulouse, France

**Christophe Tournassat**, BRGM, Orléans, France

**Tina Van de Flierdt**, Imperial College London, UK

**Wim van Westreenen**, Vrije Universiteit Amsterdam, Amsterdam, Netherlands

**Mario Villalobos**, Universidad Nacional Autónoma de México (UNAM), Coyoacan, Mexico

Environmental geochemistry; surface chemistry of environmental colloids and nanoparticles; surface complexation modeling; mineral-water interface geochemistry; environmental molecular geochemistry; soil chemistry; water chemistry

**Thomas Wagner**, Heriot-Watt University, Edinburgh, UK

Global biogeochemical cycles; Greenhouse oceans; Late Quaternary climate; Tropical rainforests; Atmosphere-Land-ocean coupling; Paleoceanography/Paleoclimatology; Black shale; Unconventional petroleum resources; Terrestrial organic carbon; Organic geochemistry;

**Richard Walker**, University of Maryland, College Park, USA

**Dominik Weiss**, Imperial College London, London, UK

**Josef Werne**, University of Pittsburgh, Pittsburgh, USA

**Stefan Weyer**, Gottfried Wilhelm Leibniz Universität Hannover, Hannover, Germany

**Qingzhu Yin**, University of California, Davis, Davis, USA

Cosmochemistry, Meteoritics, Early Solar System, Planet Formation, Core Formation, Isotope Geochemistry, Nucleosynthesis, Isotope Anomalies, Mass Independent Isotope Fractionation, Extinct Radioactivity.

**Aubrey Zerkle**, University of St Andrews, Fife, UK

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