Scope

The scope of ACS Earth and Space Chemistry includes the application of analytical, experimental, and theoretical chemistry to investigate research questions relevant to the Earth and space. The journal encompasses the highly interdisciplinary nature of research in this area while emphasizing chemistry and chemical research tools as the unifying theme. The journal publishes broadly in the domains of high- and low-temperature geochemistry, atmospheric chemistry, marine chemistry, planetary chemistry, astrochemistry, and analytical geochemistry. ACS Earth and Space Chemistry publishes Articles, Letters, and Reviews to provide flexible formats to readily communicate all aspects of research in these fields.

Among the areas the journal covers are:

Earth Interior

- Mineral-melt phase equilibria, partitioning, and kinetics
- Mineralogy and mineral physics
- Igneous and metamorphic petrology, petrogenesis, and geochronology

Earth Surface

- Mineral-microbe-water reactions, thermodynamics, and kinetics
- Reactive transport modeling and colloid transport
- Multiscale science and scaling of geochemical and biogeochemical reactions
Atmosphere

- Atmospheric composition and reaction pathways
- Chemistry-climate interactions
- Biogeochemical cycles

Ocean

- Chemical fluxes and marine trace element chemistry
- Effects of global change on marine chemistry and the cryosphere
- Chemistry of the paleo-environment

Space

- Chemistry of planetary atmospheres and surfaces
- Investigations of meteorites and tektites
- Properties of cometary and interstellar materials
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Analytical

- Analytical methods for characterization of Earth and Space materials

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