Dear Friends and Colleagues,

ACS Earth and Space Chemistry, published by the American Chemical Society, is launching a special issue devoted to "***Materials of the Universe – The final chemical frontier***", to be edited by Guest Editors Kristina Lilova, Gustavo Costa, Everett Shock, Arunima Singh, Natalie Hinkel, Alexandra Navrotsky, and Associate Editor Sumit Chakraborty. The journal is now seeking papers within the scope described below to help advance the Special Issue for its broad readership.

About *ACS Earth and Space Chemistry* – The journal seeks to publish the latest, innovative developments in research relevant to the Earth and Space, with a focus on the application of analytical, experimental and theoretical methodologies to areas such as, but not limited to, high- and low-temperature geoscience, biogeoscience, atmospheric and marine chemistry, astrochemistry, and analytical geoscience. The processing times from submit-to-acceptance is ~10 weeks, significantly faster than other journals publishing in the field. Submissions to this Special Issue must comply with the *ACS Earth and Space Chemistry* Guidelines for Authors and will be peer-reviewed in the usual manner. Open Access options are readily available to all authors.

Scope of this Special Issue – Materials of the Universe (MotU) aims to address grand questions of complex materials and evolution of planets. This initiative brings together concepts in astrophysics, exoplanetary science, planetary science as well as exploration, mineralogy and petrology, materials science and engineering, chemistry, physics, and biology.
As a unifying discipline, the planned MotU Special Issue welcomes contributions from all STEM fields related to materials, methods and technologies, especially those inspired by materials under extreme conditions beyond Earth (including experimental thermodynamics, first principles calculations, geology, stellar and planetary observations, and data science approaches). We emphasize that extremes include high temperature, cryogenic conditions, high pressure, ultra-high vacuum, radiation fields, and far-from-equilibrium conditions.

Submission of both original research and review-type papers are encouraged. Interested researchers should plan to commit to a submission timeline on or before **August 31, 2020**, so that the journal can ensure timely publication of this special issue. Manuscripts will be reviewed upon submission at any time before the submission deadline and they will be published online immediately after acceptance. The Guest Editors welcome any pre-inquiries on manuscript concepts should questions arise about relevance against scope.

We look forward to hearing from you.
Kindest Regards,

Guest Editors:

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