

# Elements

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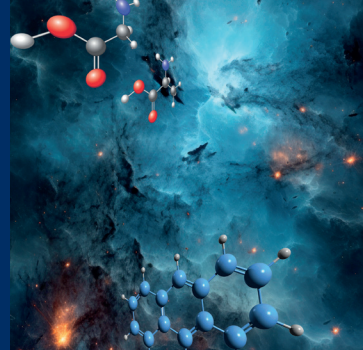
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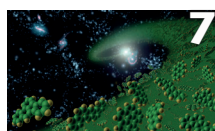
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ABOUT THE COVER: Organic matter has been discovered in diverse environments of the universe. Some of these organic molecules are key players for the emergence of life. The cover image illustrates an artist's conception of organic matter in space.

## Extraterrestrial Organic Matter

Guest Editors: **Mehmet Yesiltas** and **Yoko Kebukawa**



### Extraterrestrial Organic Matter: An Introduction

Mehmet Yesiltas and Yoko Kebukawa



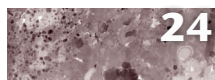
### Formation and Evolution Mechanisms for Organic Matter in Space

Hideko Nomura, Queenie Hoi Shan Chan, and Hikaru Yabuta



### Delivery of Organic Matter to the Early Earth

Zita Martins and Matthew A. Pasek



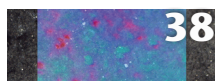
### Diversity of Complex Organic Matter in Carbonaceous Chondrites, IDPs, and UCAMMs

Bradley T. De Gregorio and Cécile Engrand



### Asteroidal Organics from the Sample Return Mission Hayabusa2 and their Implication for Understanding our Origins

Shogo Tachibana and Nami Sakai



### Analytical Techniques for Identification and Characterization of Extraterrestrial Organic Matter

Yoko Kebukawa, Mehmet Yesiltas, and Timothy D. Glotch

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