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PRINT ONLY: ASTROBIOLOGY

Kereszturi A. Prieto-Ballesteros O. Blanc M. Gomez-Elvira J. Westall F.

[*Evaluation of Instruments for Coming Europa Missions to Conduct Research on Astrobiology*](#) [#1946]

Instruments for astrobiology relevant analysis of Europa by future missions are compared.

Mikucki J. A. Lee P. A. Dyar M. D. Sklute E. C. Taylor E.

[*Ice-Covered Chemosynthetic Ecosystems: Mineral Availability and MicroBiological*](#)

[*Accessibility \(ICE-MAMBA\)*](#) [#1361]

ICE-MAMBA investigates microbial biosignatures at Blood Falls, Antarctica, an analog for deep subsurface iron-rich brines and subice Ocean Worlds.

Zahnle K. J.

[*Xenon Fractionation and Archean Hydrogen Escape. II. Now More Than Ever*](#) [#2536]

Xenon escaped from Earth through the first half of its history. Here Xe escape is used to set a lower bound on hydrogen in Earth's ancient atmosphere.