

## Peer Reviewed Journal Publications

- Giovanni Leone**, Klaus Bieger, Mario Soto: *Identification of possible heat sources for the thermal output of Enceladus*. The Planetary Science Journal, 02/2021: vol. 2, 29. DOI: [10.3847/PSJ/abdb33](https://doi.org/10.3847/PSJ/abdb33).
- Giovanni Leone**: *The absence of an ocean and the fate of water all over the Martian history*. Earth and Space Science, 03/2020: vol. 7(4), DOI: [10.1029/2019EA001031](https://doi.org/10.1029/2019EA001031)
- Daniele Gasparri, **Giovanni Leone**, Vincenzo Cataldo, Sangeetha Nandakumar, Venkat Punjabi: *Lava filling of Gale crater from Tyrrhenus Mons on Mars*. Journal of Volcanology and Geothermal Research, 01/2020: vol. 389, 106743. DOI: [10.1016/j.jvolgeores.2019.106743](https://doi.org/10.1016/j.jvolgeores.2019.106743)
- Mario Soto et 27 colleagues**: *A Color-Excess Extinction map of the Southern Galactic disk from the VVV and GLIMPSE Surveys*. MNRAS, 07/2019: vol. 488, 2650-2657. DOI: [10.1093/mnras/stz1752](https://doi.org/10.1093/mnras/stz1752).
- Giovanni Leone**: *Comments to "A composite mineralogical map of Ganges Chasma and surroundings, Valles Marineris, Mars" by Selby Cull-Hearth and M. Caroline Clark (Planetary and Space Science 142, 1-8)*. Planetary and Space Science, DOI: 10.1016/j.pss.2018.08.002.
- Giovanni Leone**: *Mangala Valles, Mars: a reassessment of volcanic formation processes based on a new geomorphological and stratigraphic analysis of the geological units*. (Journal of Volcanology and Geothermal Research, 05/2017: vol. 337, 62-80).
- Giovanni Leone**: *Alignments of Volcanic Features in the Southern Hemisphere of Mars produced by Migrating Mantle Plumes*. Journal of Volcanology and Geothermal Research, 01/2016: vol. 309, 78-95.
- Giovanni Leone**, Paul James Tackley, Taras Gerya, David Alexander May, Guizhi Zhu: *Three-Dimensional Simulations of the Southern Polar Giant Impact Hypothesis for the Origin of the Martian Dichotomy*. Geophysical Research Letters 2014: vol. 41(24), 8736-8743.
- Giovanni Leone**: *A network of lava tubes as the origin of Labyrinthus Noctis and Valles Marineris on Mars*. Journal of Volcanology and Geothermal Research 05/2014: vol. 277, 1-8.
- Imke de Pater, Ashley Gerard Davies, Amistair McGregor, Chad Trujillo, Máté Ádámkóvics, Glenn J. Veeder, Dennis L. Matson, **Giovanni Leone** and the Gemini Io Support Team: *Global Near-IR Maps from Gemini-N and Keck in 2010, with a special focus on Janus Patera and Kanehekili Fluctus*. Icarus – 11/2014: 242, DOI: [10.1016/j.icarus.2014.06.019](https://doi.org/10.1016/j.icarus.2014.06.019).
- Giovanni Leone**, Lionel Wilson, Ashley Gerard Davies: *The geothermal gradient of Io: Consequences for lithosphere structure and volcanic eruptive activity*. Icarus 01/2011; 211(1): 623-635.
- Giovanni Leone**, Ashley Gerard Davies, Lionel Wilson, David A. Williams, Laszlo P. Keszthelyi, Windy L. Jaeger, Elizabeth P. Turtle: *Volcanic history, geologic analysis and map of the Prometheus Patera region on Io*. Journal of Volcanology and Geothermal Research 08/2009: vol. 187(1-2), 93-105.

Ashley Gerard Davies, Lionel Wilson, Dennis Matson, **Giovanni Leone**, Laszlo Keszthelyi, Windy Jaeger: *The heartbeat of the volcano: The discovery of episodic activity at Prometheus on Io*. *Icarus* 01/2006;

**Giovanni Leone**, Lionel Wilson: *Density structure of Io and the migration of magma through its lithosphere*. *Journal of Geophysical Research* 01/2001; 106:32983-32996.

Giuseppe Lucido, **Giovanni Leone**, Vincenzo Cataldo: *Mineralogical evidence for liquid immiscibility in magmatic rocks from Western Sicily*. *Geologica Carpathica* 05/1995: vol. 46(3), 127-136.