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PUBLICATIONS LIST

Peer-referred journals

- **A. Stcherbinine**, F. Montmessin, M. Vincendon, M. J. Wolff, M. Vals, et al. (2022). A Two Martian Years Survey of Water Ice Clouds on Mars with ACS onboard TGO. *Submitted to JGR: Planets*. doi:10.48550/arXiv.2208.11100
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, P. Beck (2021). Identification of a new spectral signature at 3 μm over Martian northern high latitudes: implications for surface composition. *Icarus*, 369, 114627. doi:10.1016/j.icarus.2021.114627
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, M. J. Wolff, O. Korablev, A. Fedorova, et al. (2020). Martian water ice clouds during the 2018 global dust storm as observed by the ACS-MIR channel onboard the Trace Gas Orbiter. *Journal of Geophysical Research: Planets*, 125, e2019JE006300. doi:10.1029/2019JE006300
- M. Vincendon, C. Pilorget, J. Carter, **A. Stcherbinine** (2019). Observational evidence for a dry dust-wind origin of Mars seasonal dark flows. *Icarus*, 325, 115-127. doi:10.1016/j.icarus.2019.02.024

PhD thesis

- **A. Stcherbinine** (2021). Study of Martian aqueous signature through infrared spectroscopy: from clouds to polar regions alteration. *Université Paris-Saclay*. NNT:2021UPASP064. tel-03380027.

Oral communications in international conferences

- **A. Stcherbinine**, F. Montmessin, M. Vincendon, M. J. Wolff et al. 1.5 Martian Years of Monitoring of the Martian Water Ice Clouds with TGO/ACS-MIR. *7th International Workshop on the Mars Atmosphere: Modelling and Observations*, Paris, 14–17 June 2022, abstract 3204.
- **A. Stcherbinine**, F. Montmessin, M. Vincendon, M. J. Wolff et al. Monitoring of Martian water ice clouds over one Martian Year with TGO/ACS-MIR. *24th EGU General Assembly*, Vienna, 23–27 May 2022, abstract 1114.
- Y. Leseigneur, M. Vincendon, **A. Stcherbinine**. Global monitoring of atmospheric dust with OMEGA/MarsExpress over 2004-2010. *EPSC Virtual Meeting*, 13-24 September 2021, EPSC2021-568.
- O. Korablev, F. Montmessin, A. Fedorova, A. Trokhimovskiy, M. Luginin, N. Ignatiev, **A. Stcherbinine**, et al. The first year of ACS/TGO ExoMars observations. Overview of results. *EPSC-DPS Joint Meeting 2019*, Geneva, 15-20 September 2019, EPSC-DPS2019-1524
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, M. J. Wolff, O. Korablev, A. Fedorova, et al. Martian Aerosols in the 3 μm Spectral Range, During and Outside the 2018 Global Dust Event Based on the TGO/ACS-MIR Channel. *9th International Conference on Mars*, Pasadena, 22–25 July 2019, abstract 6097
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, O. Korablev, A. Fedorova, A. Trokhimovskiy, G. Lacombe, et al. The behaviour of Martian Aerosols in the 3 μm spectral range, during and outside the 2018 global dust event based on the TGO/ACS-MIR channel. *21st EGU General Assembly*, Vienna, 7–12 April 2019, abstract 13656.

Poster communications in international conferences

- **A. Stcherbinine**, M. J. Wolff, C. S. Edwards, et al. First Cross EMM/EXI and TGO/ACS-MIR Observations of Martian Water Ice Clouds. *7th International Workshop on the Mars Atmosphere: Modelling and Observations*, Paris, 14–17 June 2022, abstract 3507.
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, P. Beck. The Martian 3 Micrometers Northern Ring: a Spectral Witness of Recent Surface Alteration Processes under Polar Latitudes. *53rd LPSC*, The Woodlands, 7–11 March 2022, abstract 1479.
- **A. Stcherbinine**, M. Vincendon, F. Montmessin, P. Beck. Evidence of an Additional North Polar Component in the Martian 3 Microns Water Band Observed by OMEGA. *52nd LPSC*, Virtual Conference, 15–19 March 2021, abstract 1423.
- Y. Leseigneur, M. Vincendon, **A. Stcherbinine**. Martian Dust Dynamics Constrained by OMEGA/MARS EXPRESS Orbital Data. *52nd LPSC*, Virtual Conference, 15–19 March 2021, abstract 1471.
- **A. Stcherbinine**, M. Vincendon, F. Montmessin. Martian surface aqueous alteration from the study of the combined evolution of the 1.9 and 3 microns band with OMEGA. *EPSC Virtual Meeting*, 21 September – 9 October 2020, EPSC2020-738.
- **A. Stcherbinine**, M. Vincendon, F. Montmessin. On the Origin of the Increase of the Surface Aqueous Alteration in the Martian Polar Regions. *51st LPSC*, The Woodlands, 16–20 March 2020, abstract 1969.
- M. Vincendon, C. Pilorget, J. Carter, **A. Stcherbinine**. The Rise and Fall of RSL. *9th International Conference on Mars*, Pasadena, 22–25 July 2019, abstract 6087