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LIST OF PUBLICATIONS

Authors in italics are students supervised or partially supervised by myself.

PEER-REVIEWED JOURNAL PUBLICATIONS

2023

- [1] Mimoun, D., Cadu, A., **Murdoch, N.**, Chide, B., Sournac, A., Parot, Y., Bernardi, P., Pilleri, P., Stott, A., Gillier, M., Sridhar, V., Maurice, S., Wiens, R., and The SuperCam Team., 2022. The Mars Microphone onboard SuperCam. Accepted to Space Science Reviews.
- [2] Rodriguez-Manfredi, J., de la Torre Juarez, M., Sanchez-Lavega, A., Hueso, R., Martinez, G., Lemmon, M., ... & Zurita, S. (2022). The rich meteorology of Jezero crater over the first 250 sols of Perseverance on Mars. Accepted to **Nature Geosciences**.
- [3] Stott, A. et al. Machine learning and marsquakes: a tool to predict atmospheric-seismic noise for the NASA InSight mission, Accepted to Geophysical Journal International.
- [4] Toledo, D., et al. Dust devil frequency of occurrence and radiative effects at Jezero crater, Mars, as measured by MEDA Radiation and Dust Sensor (RDS), Accepted to JGR-Planets.

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- [5] Chide, B., Bertrand, T., Lorenz, R. D., Munguira, A., Hueso, R., Sánchez-Lavega, A., ... & Wiens, R. C. (2022). Acoustics Reveals Short-Term Air Temperature Fluctuations Near Mars' Surface. **Geophysical Research Letters**, 49(21), e2022GL100333.
- [6] Maurice, S., Chide, B., **Murdoch, N.**, Lorenz, R., Mimoun, D., Wiens, R., Stott, A., Jacob, X., Bertrand, T., Montmessin, F., Lanza, N., Llamas C.A., and 30 other coauthors, 2022, In situ recording of Mars soundscape. **Nature** 605, 653–658. <https://doi.org/10.1038/s41586-022-04679-0>
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- [8] Michel, P., Ulamec, S., Böttger, U., Grott, M., **Murdoch, N.**, Vernazza, P., ... & Kuramoto, K. (2022). The MMX rover: performing in situ surface investigations on Phobos. *Earth, Planets and Space*, 74(1), 1-14.
- [9] **Murdoch, N.**, Stott, A.E., Gillier, M. et al., 2022. The sound of a Martian dust devil. **Nature Communications** 13, 7505, <https://doi.org/10.1038/s41467-022-35100-z>.
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- [11] Pajola, M., Barnouin, O. S., Lucchetti, A., Hirabayashi, M., Ballouz, R. L., Asphaug, E., ... & Zanotti, G. (2022). Anticipated Geological Assessment of the (65803) Didymos–Dimorphos System, Target of the DART–LICIA Cube Mission. *The Planetary Science Journal*, 3(9), 210.
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- [13] Sunday, C., **Murdoch, N.** et al. (2022), The influence of gravity on granular impacts II. A gravity-scaled collision model for slow interactions, Accepted in *Astronomy and Astrophysics*, <https://doi.org/10.1051/0004-6361/202142098>
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- [15] Thorne, S. N., Johnson, C. L., Mittelholz, A., Langlais, B., Lorenz, R., **Murdoch, N.**, ... & Banerdt, W. B. (2022). Investigation of magnetic field signals during vortex-induced pressure drops at InSight. *Planetary and Space Science*, 217, 105487.
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