

## Refereed articles in 2018

- [1] M. A. Barucci, D. Perna, M. Popescu, S. Fornasier, A. Doressoundiram, C. Lantz, F. Merlin, M. Fulchignoni, E. Dotto, and S. Kanuchova. Small D-type asteroids in the NEO population: new targets for space missions. *Monthly Notices of the RAS*, 476:4481–4487, June 2018.
- [2] R. Brunetto, C. Lantz, Z. Dionnet, F. Borondics, A. Aléon-Toppani, D. Baklouti, M. A. Barucci, R. P. Binzel, Z. Djouadi, K. Kitazato, and C. Pilorget. Hyperspectral FTIR imaging of irradiated carbonaceous meteorites. *Planetary Space Science*, 158:38–45, September 2018.
- [3] M. Deleuil, S. Aigrain, C. Moutou, J. Cabrera, F. Bouchy, H. J. Deeg, J.-M. Almenara, G. Hébrard, A. Santerne, R. Alonso, A. S. Bonomo, P. Bordé, S. Csizmadia, R. F. Diaz, A. Erikson, M. Fridlund, D. Gandolfi, E. Guenther, T. Guillot, P. Guterman, S. Grziwa, A. Hatzes, A. Léger, T. Mazeh, A. Ofir, M. Ollivier, M. Pätzold, H. Parviainen, H. Rauer, D. Rouan, J. Schneider, R. Titz-Weider, B. Tingley, and J. Weingrill. Planets, candidates, and binaries from the CoRoT/Exoplanet programme. The CoRoT transit catalogue. *Astron. Astrophys.*, 619:A97, November 2018.
- [4] O. Korablev, F. Montmessin, A. Trokhimovskiy, A. A. Fedorova, A. V. Shakun, A. V. Grigoriev, B. E. Moshkin, N. I. Ignatiev, F. Forget, F. Lefèvre, K. Anufreychik, I. Dzuban, Y. S. Ivanov, Y. K. Kalinnikov, T. O. Kozlova, A. Kungurov, V. Makarov, F. Martynovich, I. Maslov, D. Merzlyakov, P. P. Moiseev, Y. Nikolskiy, A. Patrakeev, D. Patsaev, A. Santos-Skripko, O. Sazonov, N. Semena, A. Semenov, V. Shashkin, A. Sidorov, A. V. Stepanov, I. Stupin, D. Timonin, A. Y. Titov, A. Viktorov, A. Zharkov, F. Altieri, G. Arnold, D. A. Belyaev, J. L. Bertaux, D. S. Betsis, N. Duxbury, T. Encrenaz, T. Fouchet, J.-C. Gérard, D. Grassi, S. Guerlet, P. Hartogh, Y. Kasaba, I. Khatuntsev, V. A. Krasnopolsky, R. O. Kuzmin, E. Lellouch, M. A. Lopez-Valverde, M. Luginin, A. Määttänen, E. Marcq, J. Martin Torres, A. S. Medvedev, E. Millour, K. S. Olsen, M. R. Patel, C. Quantin-Nataf, A. V. Rodin, V. I. Shematovich, I. Thomas, N. Thomas, L. Vazquez, M. Vincendon, V. Wilquet, C. F. Wilson, L. V. Zasova, L. M. Zelenyi, and M. P. Zorzano. The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. *Space Sci. Rev.*, 214:7, February 2018.
- [5] A.-C. Lvasseur-Regourd, J. Agarwal, H. Cottin, C. Engrand, G. Flynn, M. Fulle, T. Gombosi, Y. Langevin, J. Lasue, T. Mannel, S. Merouane, O. Poch, N. Thomas, and A. Westphal. Cometary Dust. *Space Sci. Rev.*, 214:64, April 2018.
- [6] D. Loizeau, C. Quantin-Nataf, J. Carter, J. Flahaut, P. Thollot, L. Lozac’h, and C. Millot. Quantifying widespread aqueous surface weathering on Mars: The plateaus south of Coprates Chasma. *Icarus*, 302:451–469, March 2018.
- [7] T. Okada, Y. Kebukawa, J. Aoki, J. Matsumoto, H. Yano, T. Iwata, O. Mori, J.-P. Bibring, S. Ulamec, R. Jaumann, and Solar Power Sail Science Team. Science exploration and instrumentation of the OKEANOS mission to a Jupiter Trojan asteroid using the solar power sail. *Planetary Space Science*, 161:99–106, October 2018.

- [8] D. Perna, M. A. Barucci, M. Fulchignoni, M. Popescu, I. Belskaya, S. Fornasier, A. Doressoundiram, C. Lantz, and F. Merlin. A spectroscopic survey of the small near-Earth asteroid population: Peculiar taxonomic distribution and phase reddening. *Planetary Space Science*, 157:82–95, August 2018.
- [9] M. Popescu, D. Perna, M. A. Barucci, S. Fornasier, A. Doressoundiram, C. Lantz, F. Merlin, I. N. Belskaya, and M. Fulchignoni. Olivine-rich asteroids in the near-Earth space. *Monthly Notices of the RAS*, 477:2786–2795, June 2018.
- [10] F. Poulet, C. Quantin-Nataf, H. Ballans, K. Dassas, J. Audouard, J. Carter, B. Gondet, L. Lozac’h, J.-C. Malapert, C. Marmo, L. Riu, and A. Séjourné. PSUP: A Planetary SURface Portal. *Planetary Space Science*, 150:2–8, January 2018.
- [11] L. Puig, G. Pilbratt, A. Heske, I. Escudero, P.-E. Crouzet, B. de Vogeleer, K. Symonds, R. Kohley, P. Drossart, P. Eccleston, P. Hartogh, J. Leconte, G. Micela, M. Ollivier, G. Tinetti, D. Turrini, B. Vandembussche, and P. Wolkenberg. The Phase A study of the ESA M4 mission candidate ARIEL. *Experimental Astronomy*, 46:211–239, November 2018.
- [12] C. Quantin-Nataf, L. Lozac’h, P. Thollot, D. Loizeau, B. Bultel, J. Fernando, P. Allemand, F. Dubuffet, F. Poulet, A. Ody, H. Clenet, C. Leyrat, and S. Harrisson. MarsSI: Martian surface data processing information system. *Planetary Space Science*, 150:157–170, January 2018.
- [13] L. Riu, J.-P. Bibring, C. Pilorget, F. Poulet, and V. Hamm. The on-ground calibration performances of the hyperspectral microscope MicrOmega for the Hayabusa-2 mission. *Planetary Space Science*, 152:31–44, March 2018.
- [14] C. Saetre, L. Rieu, H. Dypvik, C. Pilorget, F. Poulet, and S.C. Werner. Experimental hydrothermal alteration of basaltic glass with relevance to Mars. *Meteoritics & planetary sci.*, pages 1–22, 2018.
- [15] G. Tinetti, P. Drossart, P. Eccleston, P. Hartogh, A. Heske, J. Leconte, G. Micela, M. Ollivier, G. Pilbratt, L. Puig, and et al. A chemical survey of exoplanets with ARIEL. *Experimental Astronomy*, 46:135–209, November 2018.