

## Refereed articles in 2014

- [1] R. Alonso, C. Moutou, M. Endl, J.-M. Almenara, E. W. Guenther, M. Deleuil, A. Hatzes, S. Aigrain, M. Auvergne, A. Baglin, P. Barge, A. S. Bonomo, P. Borde, F. Bouchy, C. Cavarroc, J. Cabrera, S. Carpano, S. Csizmadia, W. D. Cochran, H. J. Deeg, R. F. Díaz, R. Dvorak, A. Erikson, S. Ferraz-Mello, M. Fridlund, T. Fruth, D. Gandolfi, M. Gillon, S. Grziwa, T. Guillot, G. Hebrard, L. Jorda, A. Leger, H. Lammer, C. Lovis, P. J. MacQueen, T. Mazeh, A. Ofir, M. Ollivier, T. Pasternacki, M. Patzold, D. Queloz, H. Rauer, D. Rouan, A. Santerne, J. Schneider, M. Tadeu dos Santos, B. Tingley, R. Titz-Weider, J. Weingrill, and G. Wuchterl. Transiting exoplanets from the CoRoT space mission. XXVI. CoRoT-24: a transiting multiplanet system. *Astron. Astrophys.*, 567:A112, 2014.
- [2] J. Audouard, F. Poulet, M. Vincendon, J.-P. Bibring, F. Forget, Y. Langevin, and B. Gondet. Mars surface thermal inertia and heterogeneities from OMEGA/MEX. *Icarus*, 233:194–213, may 2014.
- [3] J. Audouard, F. Poulet, M. Vincendon, R. E. Milliken, D. Jouglet, J.-P. Bibring, B. Gondet, and Y. Langevin. Water in the Martian regolith from OMEGA/Mars Express. *Journal of Geophysical Research (Planets)*, 119:1969–1989, aug 2014.
- [4] S. C. C. Barros, J. M. Almenara, M. Deleuil, R. F. Díaz, S. Csizmadia, J. Cabrera, S. Chaintreuil, A. Collier Cameron, A. Hatzes, R. Haywood, A. F. Lanza, S. Aigrain, R. Alonso, P. Borde, F. Bouchy, H. J. Deeg, A. Erikson, M. Fridlund, S. Grziwa, D. Gandolfi, T. Guillot, E. Guenther, A. Leger, C. Moutou, M. Ollivier, T. Pasternacki, M. Patzold, H. Rauer, D. Rouan, A. Santerne, J. Schneider, and G. Wuchterl. Revisiting the transits of CoRoT-7b at a lower activity level. *Astron. Astrophys.*, 569:A74, 2014.
- [5] N. T. Bridges, F. J. Calef, B. Hallet, K. E. Herkenhoff, N. L. Lanza, S. Le Mouélic, C. E. Newman, D. L. Blaney, M. A. Pablo, G. A. Kocurek, Y. Langevin, K. W. Lewis, N. Mangold, S. Maurice, P.-Y. Meslin, P. Pinet, N. O. Renno, M. S. Rice, M. E. Richardson, V. Sautter, R. S. Sletten, R. C. Wiens, and R. A. Yingst. The rock abrasion record at Gale Crater: Mars Science Laboratory results from Bradbury Landing to Rocknest. *Journal of Geophysical Research (Planets)*, 119:1374–1389, jun 2014.
- [6] S. M. Clifford, J. Farmer, M. H. Carr, D. Des Marais, J.-P. Bibring, R. Craddock, and H. Newsom. Introduction to the Early Mars III Special Section and Key Questions from the Third International Conference on Early Mars. *Journal of Geophysical Research (Planets)*, 119:1892–1894, aug 2014.
- [7] M. Delpech, F. Malbet, T. Karlsson, R. Larsson, A. Leger, and J. Jorgensen. Flight demonstration of formation flying capabilities for future missions (NEAT pathfinder). *Acta Astronautica*, 105:82–94, 2014.
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- [9] J. P. Grotzinger, D. Y. Sumner, L. C. Kah, K. Stack, S. Gupta, L. Edgar, D. Rubin, K. Lewis, J. Schieber, N. Mangold, and et al. A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. *Science*, 343(27):1242777, jan 2014.
  - [10] D. M. Hassler, C. Zeitlin, R. F. Wimmer-Schweingruber, B. Ehresmann, S. Rafkin, J. L. Eigenbrode, D. E. Brinza, G. Weigle, S. Böttcher, E. Böhm, and et al. Mars’ Surface Radiation Environment Measured with the Mars Science Laboratory’s Curiosity Rover. *Science*, 343:1244797, jan 2014.
  - [11] K. Hornung, J. Kissel, H. Fischer, E. M. Mellado, O. Kulikov, M. Hilchenbach, H. Kruger, C. Engrand, Y. Langevin, M. Rossi, and F. R. Krueger. Collecting cometary dust particles on metal blacks with the COSIMA instrument onboard ROSETTA. *Planetary Space Science*, 103:309–317, nov 2014.
  - [12] F. Malbet, A. Brandeker, A. Leger, R. Goullioud, M. Shao, and A. Crouzier. Formation flying for very high precision astrometry: NEAT and micro-NEAT mission concepts. *International Journal of Space Science and Engineering*, Vol 2, No.1, p. 3-15, 2:3–15, 2014.
  - [13] S. M. McLennan, R. B. Anderson, J. F. Bell, J. C. Bridges, F. Calef, J. L. Campbell, B. C. Clark, S. Clegg, P. Conrad, A. Cousin, and et al. Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. *Science*, 343:1244734, jan 2014.
  - [14] D. W. Ming, P. D. Archer, D. P. Glavin, J. L. Eigenbrode, H. B. Franz, B. Sutter, A. E. Brunner, J. C. Stern, C. Freissinet, A. C. McAdam, and et al. Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. *Science*, 343:1245267, jan 2014.
  - [15] C. Moutou, J. M. Almenara, R. F. Díaz, R. Alonso, M. Deleuil, E. Guenther, T. Pasternacki, S. Aigrain, A. Baglin, P. Barge, A. S. Bonomo, P. Borde, F. Bouchy, J. Cabrera, S. Carpano, W. D. Cochran, S. Csizmadia, H. J. Deeg, R. Dvorak, M. Endl, A. Erikson, S. Ferraz-Mello, M. Fridlund, D. Gandolfi, T. Guillot, A. Hatzes, G. Hebrard, C. Lovis, H. Lammer, P. J. MacQueen, T. Mazeh, A. Ofir, M. Ollivier, M. Patzold, H. Rauer, D. Rouan, A. Santerne, J. Schneider, B. Tingley, and G. Wuchterl. CoRoT-22 b: a validated  $4.9 R_{\oplus}$  exoplanet in 10-d orbit. *Monthly Notices of the RAS*, 444:2783–2792, 2014.
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- [18] F. Poulet, J. Carter, J. L. Bishop, D. Loizeau, and S. M. Murchie. Mineral abundances at the final four curiosity study sites and implications for their formation. *Icarus*, 231:65–76, mar 2014.
- [19] D. T. Vaniman, D. L. Bish, D. W. Ming, T. F. Bristow, R. V. Morris, D. F. Blake, S. J. Chipera, S. M. Morrison, A. H. Treiman, E. B. Rampe, and et al. Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. *Science*, 343:1243480, jan 2014.
- [20] S. C. Werner, A. Ody, and F. Poulet. The Source Crater of Martian Shergottite Meteorites. *Science*, 343:1343–1346, mar 2014.
- [21] O. Witasse, T. Duxbury, A. Chicarro, N. Altobelli, T. Andert, A. Aronica, S. Barabash, J.-L. Bertaux, J.-P. Bibring, A. Cardesin-Moinelo, A. Cichetti, V. Companys, V. Dehant, M. Denis, V. Formisano, Y. Futaana, M. Giuranna, B. Gondet, D. Heather, H. Hoffmann, M. Holmström, N. Manaud, P. Martin, K.-D. Matz, F. Montmessin, T. Morley, M. Mueller, G. Neukum, J. Oberst, R. Orosei, M. Patzold, G. Picardi, R. Pischedel, J. J. Plaut, A. Reberac, P. Pardo Voss, T. Roatsch, P. Rosenblatt, S. Remus, N. Schmedemann, K. Willner, and T. Zegers. Mars Express investigations of Phobos and Deimos. *Planetary Space Science*, 102:18–34, nov 2014.