

Refereed articles in 2016

- [1] B. Augé, E. Dartois, C. Engrand, J. Duprat, M. Godard, L. Delauche, N. Bardin, C. Mejía, R. Martinez, G. Muniz, A. Domaracka, P. Boduch, and H. Rothard. Irradiation of nitrogen-rich ices by swift heavy ions. Clues for the formation of ultracarbonaceous micrometeorites. *Astron. Astrophys.*, 592:A99, August 2016.
- [2] P. Boduch, R. Brunetto, J. J. Ding, A. Domaracka, Z. Kaňuchová, M. E. Palumbo, H. Rothard, and G. Strazzulla. Ion processing of ices and the origin of SO₂ and O₃ on the icy surfaces of the icy jovian satellites. *Icarus*, 277:424–432, October 2016.
- [3] G. Danger, A. Fresneau, N. Abou Mrad, P. de Marcellus, F.-R. Orthous-Daunay, F. Duvernay, V. Vuitton, L. Le Sergeant d’Hendecourt, R. Thissen, and T. Chiavassa. Insight into the molecular composition of laboratory organic residues produced from interstellar/pre-cometary ice analogues using very high resolution mass spectrometry. *Geochimica Cosmochimica Acta*, 189:184–196, September 2016.
- [4] C. Engrand, J. Duprat, E. Dartois, K. Benzerara, H. Leroux, D. Baklouti, A. Baryn, C. Briois, H. Cottin, H. Fischer, N. Fray, M. Godard, M. Hilchenbach, Y. Langevin, J. Paquette, J. Rynö, R. Schulz, J. Silén, O. Stenzel, L. Thirkell, and Cosima Team. Variations in cometary dust composition from Giotto to Rosetta, clues to their formation mechanisms. *Monthly Notices of the RAS*, 462:S323–S330, November 2016.
- [5] N. Fray, A. Baryn, H. Cottin, K. Altwegg, D. Baklouti, C. Briois, L. Colangeli, C. Engrand, H. Fischer, A. Glasmachers, E. Grün, G. Haerendel, H. Henkel, H. Höfner, K. Hornung, E. K. Jessberger, A. Koch, H. Krüger, Y. Langevin, H. Lehto, K. Lehto, L. Le Roy, S. Merouane, P. Modica, F.-R. Orthous-Daunay, J. Paquette, F. Raulin, J. Rynö, R. Schulz, J. Silén, S. Siljeström, W. Steiger, O. Stenzel, T. Stephan, L. Thirkell, R. Thomas, K. Torkar, K. Varmuza, K.-P. Wanczek, B. Zaprudin, J. Kissel, and M. Hilchenbach. High-molecular-weight organic matter in the particles of comet 67P/Churyumov-Gerasimenko. *Nature*, 538:72–74, October 2016.
- [6] D. Fulvio, D. Perna, S. Ieva, R. Brunetto, Z. Kanuchova, C. Blanco, G. Strazzulla, and E. Dotto. Spectral characterization of V-type asteroids - I. Space weathering effects and implications for V-type NEAs. *Monthly Notices of the RAS*, 455:584–595, January 2016.
- [7] L. Gavilan, I. Alata, K. C. Le, T. Pino, A. Giuliani, and E. Dartois. VUV spectroscopy of carbon dust analogs: contribution to interstellar extinction. *Astron. Astrophys.*, 586:A106, February 2016.
- [8] L. Gavilan, C. Jäger, A. Simionovici, J. L. Lemaire, T. Sabri, E. Foy, S. Yagoubi, T. Henning, D. Salomon, and G. Martinez-Criado. Hard X-ray irradiation of cosmic silicate analogs: structural evolution and astrophysical implications. *Astron. Astrophys.*, 587:A144, March 2016.

- [9] M. Hilchenbach, J. Kissel, Y. Langevin, C. Briois, H. von Hoerner, A. Koch, R. Schulz, J. Silén, K. Altwegg, L. Colangeli, H. Cottin, C. Engrand, H. Fischer, A. Glasmachers, E. Grün, G. Haerendel, H. Henkel, H. Höfner, K. Hornung, E. K. Jessberger, H. Lehto, K. Lehto, F. Raulin, L. Le Roy, J. Rynö, W. Steiger, T. Stephan, L. Thirkell, R. Thomas, K. Torkar, K. Varmuza, K.-P. Wanczek, N. Altobelli, D. Baklouti, A. Bardyn, N. Fray, H. Krüger, N. Ligier, Z. Lin, P. Martin, S. Merouane, F. R. Orthous-Daunay, J. Paquette, C. Revillet, S. Siljeström, O. Stenzel, and B. Zaprudin. Comet 67P/Churyumov-Gerasimenko: Close-up on Dust Particle Fragments. *Astrophys. J. Lett.*, 816:L32, January 2016.
- [10] A. P. Jones, M. Köhler, N. Ysard, E. Dartois, M. Godard, and L. Gavilan. Mantle formation, coagulation, and the origin of cloud/core shine. I. Modelling dust scattering and absorption in the infrared. *Astron. Astrophys.*, 588:A43, April 2016.
- [11] N. Ligier, F. Poulet, J. Carter, R. Brunetto, and F. Gourgéot. VLT/SINFONI Observations of Europa: New Insights into the Surface Composition. *Astronomical Journal*, 151:163, June 2016.
- [12] R. Martín-Doménech, E. Dartois, and G. M. Muñoz Caro. Vacuum ultraviolet photolysis of hydrogenated amorphous carbons. III. Diffusion of photo-produced H₂ as a function of temperature. *Astron. Astrophys.*, 591:A107, June 2016.
- [13] C. Meinert, I. Myrgorodska, P. de Marcellus, T. Buhse, L. Nahon, S. V. Hoffmann, L. L. S. d’Hendecourt, and U. J. Meierhenrich. Ribose and related sugars from ultraviolet irradiation of interstellar ice analogs. *Science*, 352:208–212, April 2016.
- [14] F. J. M. Rietmeijer, V. Della Corte, M. Ferrari, A. Rotundi, and R. Brunetto. Laboratory analyses of meteoric debris in the upper stratosphere from settling bolide dust clouds. *Icarus*, 266:217–234, March 2016.
- [15] F. Schmidt, E. Chassefière, F. Tian, E. Dartois, J.-M. Herri, and O. Mousis. Early Mars volcanic sulfur storage in the upper cryosphere and formation of transient SO₂-rich atmospheres during the Hesperian. *Meteoritics and Planetary Science*, 51:2226–2233, November 2016.
- [16] T. Shimonishi, E. Dartois, T. Onaka, and F. Boulanger. VLT/ISAAC infrared spectroscopy of embedded high-mass YSOs in the Large Magellanic Cloud: Methanol and the 3.47 μm band. *Astron. Astrophys.*, 585:A107, January 2016.
- [17] N. Ysard, M. Köhler, A. Jones, E. Dartois, M. Godard, and L. Gavilan. Mantle formation, coagulation, and the origin of cloud/core shine. II. Comparison with observations. *Astron. Astrophys.*, 588:A44, April 2016.