

Non-refereed publications in 2018

- [1] Donia Baklouti and Anaïs Bardyn. The global composition of comet 67P's dust as measured in situ by the COSIMA mass spectrometer. In *European Planetary Science Congress*, pages EPSC2018–285, September 2018.
- [2] Donia Baklouti, Martin Hilchenbach, Yves Langevin, Oliver Stenzel, Christelle Briois, Laurent Thirkell, Rita Schulz, Nicolas Fray, Klaus Hornung, Cecile Engrand, . Herve Cottin, . Johan Silen, John Paquette, . Jouni Ryno, Sihane Merouane, Jochen Kissel, Anaïs Bardyn, Henning Fischer, Esko Gardner, Robin Isnard, Harry Lehto, Paola Modica, F. R. Orthous-Daunay, Kurt Varmuza, Boris Zaprudin, and Nicolas Ligier. Dust composition of comet 67P as measured by the COSIMA mass spectrometer over two years of the ROSETTA mission. In *42nd COSPAR Scientific Assembly*, volume 42, pages B1.1–10–18, July 2018.
- [3] A. Bardyn, D. Baklouti, C. Briois, H. Cottin, C. Engrand, H. Fischer, N. Fray, E. Gardner, K. Hornung, R. Isnard, Y. Langevin, H. Lehto, L. Le Roy, N. Ligier, S. Merouane, P. Modica, F. R. Orthous-Daunay, J. Paquette, J. Rynö, R. Schulz, J. Silén, S. Siljeström, O. Stenzel, L. Thirkell, K. Varmuza, B. Zaprudin, J. Kissel, and M. Hilchenbach. Global Composition of Cometary Dust Particles from 67P/Churyumov-Gerasimenko as Deduced from the COSIMA/Rosetta Instrument. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1531, March 2018.
- [4] A. Bardyn, D. Baklouti, H. Cottin, C. Briois, C. Engrand, H. Fischer, N. Fray, E. Gardner, K. Hornung, R. Isnard, Y. Langevin, H. Lehto, L. Le Roy, N. Ligier, S. Merouane, P. Modica, F. R. Orthous-Daunay, J. A. Paquette, J. Rynö, R. Schulz, J. V. Silen, S. Siljeström, O. Stenzel, L. Thirkell, K. Varmuza, B. Zaprudin, J. Kissel, and M. Hilchenbach. Global Composition of Dust at Comet 67P/Churyumov-Gerasimenko as Measured by the COSIMA/Rosetta Mass Spectrometer. In *AGU Fall Meeting Abstracts*, volume 2018, pages P23G–3520, December 2018.
- [5] N. Bott, R. Brunetto, C. Carli, F. Capaccioni, A. Doressoundiram, Y. Langevin, D. Perna, F. Poulet, G. Serventi, M. Sgavetti, F. Borondics, and C. Sandt. Spectroscopy of Minerals Analogs of Mercury Under the Hermean Conditions: The Effect of the Temperature. In *Mercury: Current and Future Science of the Innermost Planet*, volume 2047, page 6043, May 2018.
- [6] Nicolas Bott, Rosario Brunetto, Cristian Carli, Fabrizio Capaccioni, Alain Doressoundiram, Yves Langevin, Davide Perna, François Poulet, Giovanna Serventi, Maria Sgavetti, Ferenc Borondics, and Christophe Sandt. Spectroscopy of minerals analogs of Mercury under the hermean conditions: The effect of the temperature. In *European Planetary Science Congress*, pages EPSC2018–1092, September 2018.
- [7] R. Brunetto, K. Kitazato, T. Iwata, M. Abe, M. Ohtake, S. Matsuura, T. Arai, Y. Nakauchi, T. Nakamura, M. Matsuoka, H. Senshu, N. Hirata, T. Hiroi, C. Pilorget, F. Poulet, L. Riu, D. L. Domingue, D. Takir,

- E. Palomba, R. Milliken, D. Perna, M. A. Barucci, J. P. Bibring, and S. Watanabe. Hayabusa2/NIRS3 spectral observations of asteroid (162173) Ryugu. In *AGU Fall Meeting Abstracts*, volume 2018, pages P22A-02, December 2018.
- [8] C. Carli, R. Brunetto, G. Strazzulla, G. Serventi, F. Poulet, F. Capaccioni, Y. Langevin, E. Gardes, R. Martinez, P. Boduch, A. Domaracka, and H. Rothard. Investigating Reflectance Properties of Mercury’s Surface Material: Effect of Swift Heavy Ion Irradiation. In *Mercury: Current and Future Science of the Innermost Planet*, volume 2047, page 6037, May 2018.
- [9] Cristian Carli, Rosario Brunetto, Giovanni Strazzulla, Giovanna Serventi, Francois Poulet, Fabrizio Capaccioni, Yves Langevin, Emmanuel Gardes, Rafael Martinez R., Philippe Boduch, Alicja Domaracka, and Hermann Rothard. Investigating reflectance properties of space weathered silicates: effect of swift heavy ion irradiation. In *European Planetary Science Congress*, pages EPSC2018-672, September 2018.
- [10] Zélia Dionnet, Ferenc Borondics, Alice Aléon-Toppani, Donia Baklouti, François Brisset, Zahia Djouadi, Andrew King, Christophe Sandt, David Troadec, and Rosario Brunetto. 2D and 3D FTIR hyperspectral imaging of the Paris meteorite. In *European Planetary Science Congress*, pages EPSC2018-385, September 2018.
- [11] Z. Djouadi, R. Maupin, and R. Brunetto. Vis-NIR Reflectance Micro-Spectroscopy of Interplanetary Dust Particles. In *81st Annual Meeting of the Meteoritical Society*, volume 81, page 6049, July 2018.
- [12] Z. Djouadi, R. Maupin, R. Brunetto, and L. d’Hendecourt. Links Between Silicates and Organics in IDPs: Laboratory Syntheses of Their Analogs. In *81st Annual Meeting of the Meteoritical Society*, volume 81, page 6133, July 2018.
- [13] Zahia Djouadi, Romain Maupin, and Rosario Brunetto. Visible-Near Infrared micro-spectroscopy of interplanetary dust particles. In *European Planetary Science Congress*, pages EPSC2018-414, September 2018.
- [14] Robin Isnard, Anaïs Bardyn, Nicolas Fray, Christelle Briois, Hervé Cottin, John Paquette, Oliver Stenzel, Conel Alexander, Donia Baklouti, Cécile Engrand, François-Régis Orthous-Daunay, Sandra Siljeström, Kurt Varmuza, and Martin Hilchenbach. H/C elemental ratios of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. In *European Planetary Science Congress*, pages EPSC2018-416, September 2018.
- [15] Kohei Kitazato, Takahiro Iwata, Masanao Abe, Makiko Ohtake, Shuji Matsuura, Takehiko Arai, Yusuke Nakauchi, Tomoki Nakamura, Moe Matsuoka, Hiroki Senshu, Naru Hirata, Takahiro Hiroi, Cedric Pilorget, Rosario Brunetto, François Poulet, Lucie Riu, Deborah Domingue, Driss Takir, Ernesto Palomba, Ralph Milliken, Davide Perna, Antonella Barucci, Jean Pierre Bibring, and Sei-ichiro Watanabe. Surface composition of asteroid (162173) Ryugu from Hayabusa2/NIRS3 observations. In *AAS/Division for Planetary Sciences Meeting Abstracts #50*,

AAS/Division for Planetary Sciences Meeting Abstracts, page 501.03, October 2018.

- [16] Cateline Lantz and Rosario Brunetto. Irradiation of meteorites: decoding space weathering on low albedo asteroids. In *European Planetary Science Congress*, pages EPSC2018–24, September 2018.
- [17] M. Matsuoka, T. Nakamura, T. Hiroi, K. Kitazato, T. Iwata, M. Abe, K. Amano, S. Kobayashi, T. Osawa, M. Ohtake, S. Matsuura, T. Arai, Y. Nakauchi, H. Senshu, C. Pilorget, R. Brunetto, F. Poulet, L. Riu, D. L. Domingue, F. Vilas, D. Takir, E. Palomba, R. Milliken, D. Perna, M. A. Barucci, and J. P. Bibring. Interpretation of infrared spectra of asteroid Ryugu based on comparison to carbonaceous chondrites and other meteorites. In *AGU Fall Meeting Abstracts*, volume 2018, pages P13A–05, December 2018.
- [18] J. A. Paquette, C. Engrand, N. Fray, A. Bardyn, C. Alexander, M. Hilchenbach, S. Siljeström, H. Cottin, D. Baklouti, O. Stenzel, S. Merouane, and Y. Langevin. The D/H ratio in the dust of comet 67P/Churyumov-Gerasimenko measured by Rosetta/COSIMA. In *AGU Fall Meeting Abstracts*, volume 2018, pages P23G–3521, December 2018.
- [19] John Paquette, Martin Hilchenbach, Yves Langevin, Oliver Stenzel, Nicolas Fray, Klaus Hornung, Cecile Engrand, . Herve Cottin, . Johan Silen, . Jouni Ryno, Sihane Merouane, Donia Baklouti, Jochen Kissel, Anaïs Bardyn, and Sandra Siljeström. The isotopic composition of cometary dust measured with Rosetta/COSIMA. In *42nd COSPAR Scientific Assembly*, volume 42, pages B1.1–11–18, July 2018.