

Non-refereed publications in 2020

- [1] J. Aléon, A. Aléon-Toppani, F. L. H. Tissot, F. Brisset, and C. Boukari. Insights into CAI Secondary Alteration from Mineralogy and Halogens Distribution in Curious Marie. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 2030, March 2020.
- [2] A. Aléon-Toppani, R. Brunetto, J. Aléon, Z. Dionnet, S. Rubino, D. Levy, D. Troadec, F. Borondics, and F. Brisset. A Preparation Sequence for Multi-Analysis of Micrometer-Sized Extraterrestrial Samples. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 2682, March 2020.
- [3] Alexis Bouquet, Alexander Ruf, Philippe Boduch, Philippe Schmitt-Kopplin, Vassilissa Vinogradoff, Fabrice Duvernay, Riccardo Giovanni Urso, Rosario Brunetto, Louis Le Sergeant d'Hendecourt, Olivier Mousis, and Grégoire Danger. Formation of complex organosulfur compounds by sulfur implantation in astrophysical ice analogs - implications for the chemical evolution of the surface of icy objects. In *EGU General Assembly Conference Abstracts*, EGU General Assembly Conference Abstracts, page 8999, May 2020.
- [4] R. Brunetto, A. Aléon-Toppani, S. Rubino, D. Baklouti, F. Borondics, Z. Dionnet, Z. Djouadi, C. Lantz, T. Nakamura, M. Takahashi, D. Troadec, and A. Tsuchiyama. IR Micro-Spectroscopy and Micro-Tomography of Isolated Murchison Grains in Preparation of the Hayabusa2 Sample Return. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1135, March 2020.
- [5] R. Brunetto, C. Lantz, R. G. Urso, T. Nakamura, D. Baklouti, T. Le Pivert-Jolivet, S. Kobayashi, and F. Borondics. Characterizing Irradiated Surfaces of Airless Bodies Using IR Spectroscopy. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1134, March 2020.
- [6] Q. H. S. Chan, R. Brunetto, Y. Kebukawa, T. Noguchi, A. Stephant, I. A. Franchi, X. Zhao, D. Johnson, N. A. Starkey, M. Anand, S. S. Russell, P. Schofield, M. C. Price, K. H. McDermott, R. Bradley, J. D. Gilmour, I. Lyon, P. J. Withers, M. Lee, Y. Sano, and M. M. Grady. First Identification of Indigenous Organic Matter Alongside Water in Itokawa Particle Returned by the Hayabusa Mission. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 2230, March 2020.
- [7] D. Domingue, K. Kitazato, M. Matsuoka, E. Tatsumi, Y. Yokota, S. E. Schroder, R. Honda, S. Sugita, T. Hiroi, R. Brunetto, F. Vilas, and D. Takir. The Spectrophotometric Properties of Ryugu's Regolith as Seen at Opposition by the NIRS3 Onboard Hayabusa2. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 2348, March 2020.
- [8] C. Lantz, V. E. Hamilton, R. Brunetto, R. D. Hanna, P. R. Christensen, and D. S. Lauretta. Can We Detect Space Weathering on Bennu Using

- OTES Data? In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1850, March 2020.
- [9] D. Lévy, J. Aléon, A. Aléon-Toppani, D. Troadec, H. Bureau, H. Khodja, and F. Brisset. Hydrogen Isotope Mapping in CAI Nominally Anhydrous Minerals: Disentangling Nebular from Parent-Body Alteration. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 2262, March 2020.
- [10] N. Ligier, J. Carter, F. Poulet, L. Fletcher, O. King, R. Brunetto, M. Massé, and C. Snodgrass. Reappraisal and New Constraints on Europa’s Surface Composition with the Near-Infrared Imaging Spectrometer SINFONI of the VLT. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1964, March 2020.
- [11] R. E. Milliken, K. Kitazato, L. Riu, T. Iwata, M. Abe, M. Ohtake, S. Matsuura, T. Arai, Y. Nakauchi, T. Nakamura, M. Matsuoka, H. Sen-shu, N. Hirata, T. Hiroi, C. Pilorget, R. Brunetto, F. Poulet, J. P. Bibring, D. Takir, D. L. Domingue, F. Vilas, M. A. Barucci, D. Perna, E. Palomba, A. Galiano, K. Tsumura, T. Osawa, M. Komatsu, A. Nakato, T. Arai, N. Takato, T. Matsunaga, Y. Takagi, K. Matsumoto, T. Kouyama, Y. Yokota, E. Tatsumi, N. Sakatani, Y. Yamamoto, T. Okada, S. Sugita, R. Honda, T. Matora, S. Kameda, H. Sawada, C. Honda, M. Yamada, H. Suzuki, K. Yoshioka, M. Hayakawa, K. Ogawa, Y. Cho, Y. Takei, T. Saiki, S. Nakazawa, S. Tanaka, M. Yoshikawa, S. Watanabe, and Y. Tsuda. A Global View of the Near-Infrared Reflectance Properties of Ryugu as Seen by the NIRS3 Spectrometer on Hayabusa2. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1944, March 2020.
- [12] T. Nakamura, C. Lantz, Y. Nakauchi, K. Amano, R. Brunetto, M. Matsumoto, S. Kobayashi, M. Matsuoka, T. Noguchi, T. Matsumoto, and M. E. Zolensky. Irradiation-Energy Dependence on the Spectral Changes of Hydrous C-Type Asteroids Based on 4keV and 20keV He Exposure Experiments of Murchison CM Chondrite. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1310, March 2020.
- [13] A. A. Simon, H. H. Kaplan, E. Cloutis, V. E. Hamilton, C. Lantz, D. C. Reuter, E. S. Howell, B. E. Clark, and D. S. Lauretta. Global Minor Spectral Features on (101995) Bennu from the OSIRIS-REx Visible and InfraRed Spectrometer (OVIRS). In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1046, March 2020.
- [14] D. Trang, M. S. Thompson, B. E. Clark, H. H. Kaplan, X. D. Zou, J. Y. Li, S. Ferrone, V. E. Hamilton, A. A. Simon, D. C. Reuter, L. P. Keller, M. A. Barucci, H. Campins, C. Lantz, E. R. Jawin, H. C. Connolly, K. J. Walsh, and D. S. Lauretta. The Radiative Transfer Modeling Perspective of Space Weathering on (101955) Bennu: Resolving the Reddening and Bluing Conundrum. In *Lunar and Planetary Science Conference*, Lunar and Planetary Science Conference, page 1653, March 2020.
- [15] Francesca Zambon, Federico Tosi, Sébastien Besse, Rosario Brunetto, Cristian Carli, Jean-Philippe Combe, Olivier Forni, Rachel Klima, Katrin

Krohn, David Rothery, Katrin Stephan, Kerri Donaldson-Hanna, Oceane Barraud, and Jacopo Nava. Deciphering compositional processes in inner airless bodies of our Solar System. In *EGU General Assembly Conference Abstracts*, EGU General Assembly Conference Abstracts, page 18758, May 2020.