



Christine Jilly-Rehak

Phys Sci Res Assoc, Earth & Planetary Sciences

Bio

ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, Earth & Planetary Sciences

PROFESSIONAL EDUCATION

- Ph.D., University of Hawaii at Manoa , Geology and Geophysics (2015)
- B.A., Astronomy , University of Southern California (2008)

Publications

PUBLICATIONS

- **Glucose dissociates DDX21 dimers to regulate mRNA splicing and tissue differentiation.** *Cell*
Miao, W., Porter, D. F., Lopez-Pajares, V., Siprashvili, Z., Meyers, R. M., Bai, Y., Nguyen, D. T., Ko, L. A., Zarnegar, B. J., Ferguson, I. D., Mills, M. M., Jilly-Rehak, C. E., Wu, et al
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- **Nanoscale isotopic evidence resolves origins of giant Carlin-type ore deposits** *GEOLOGY*
Holley, E. A., Fulton, A., Jilly-Rehak, C., Johnson, C., Pribil, M.
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- **Fine-grained material associated with a large sulfide returned from Comet 81P/Wild 2** *METEORITICS & PLANETARY SCIENCE*
Gainsforth, Z., Westphal, A. J., Butterworth, A. L., Jilly-Rehak, C. E., Brownlee, D. E., Joswiak, D. J., Ogliore, R. C., Zolensky, M. E., Bechtel, H. A., Ebel, D. S., Huss, G. R., Sandford, S. A., White, et al
2019; 54 (5): 1069-1091
- **TECHNIQUE FOR COMPARISON OF MICRO-CAI CONCENTRATIONS IN 81P/WILD2 FINE-GRAINED MATERIAL AND PRIMITIVE METEORITE MATRICES**
Westphal, A. J., Fakra, S., Butterworth, A. L., Gainsforth, Z., Jilly-Rehak, C. E.
WILEY.2018: 6301
- **Low-temperature aqueous alteration on the CR chondrite parent body: Implications from in situ oxygen-isotope analyses** *GEOCHIMICA ET COSMOCHIMICA ACTA*
Jilly-Rehak, C. E., Huss, G. R., Nagashima, K., Schrader, D. L.
2018; 222: 230-252
- **Insights into solar nebula formation of pyrrhotite from nanoscale disequilibrium phases produced by H₂S sulfidation of Fe metal** *AMERICAN MINERALOGIST*
Gainsforth, Z., Lauretta, D. S., Tamura, N., Westphal, A. J., Jilly-Rehak, C. E., Butterworth, A. L.
2017; 102 (9): 1881-1893
- **OXYGEN BUFFERING IN HIGH PRESSURE SOLID MEDIA ASSEMBLIES: NEW APPROACH ENABLING STUDY OF f_O(2) FROM IW-4 TO IW+4.5.**

Righter, K., Pando, K. M., Ross, D. K., Butterworth, A. L., Gainsforth, Z., Jilly-Rehak, C. E., Westphal, A. J.
WILEY.2017: A285

- **Mn-53-(53) Cr radiometric dating of secondary carbonates in CR chondrites: Timescales for parent body aqueous alteration** *GEOCHIMICA ET COSMOCHIMICA ACTA*
Jilly-Rehak, C. E., Huss, G. R., Nagashima, K.
2017; 201: 224-244
- **O-ISOTOPE MAPPING OF FINE-GRAINED MATERIAL COLLECTED FROM COMET 81P/WILD 2.**
Frank, D. R., Huss, G. R., Nagashima, K., Westphal, A. J., Jilly-Rehak, C. E.
WILEY-BLACKWELL.2016: A262
- **Petrography and classification of NWA 7402: A new sulfide-rich unequilibrated ordinary chondrite** *CHEMIE DER ERDE-GEOCHEMISTRY*
Jilly-Rehak, C. E., Huss, G. R., Bonal, L., Twelker, E.
2016; 76 (1): 111-116
- **(MN)-M-53-(CR)-C-53 DATING OF SECONDARY DOLOMITE IN A RENAZZO (CR CHONDRITE) DARK INCLUSION**
Jilly-Rehak, C. E., Huss, G. R., Nagashima, K.
WILEY-BLACKWELL.2015
- **Mn-53-Cr-53 dating of aqueously formed carbonates in the CM2 lithology of the Sutter's Mill carbonaceous chondrite** *METEORITICS & PLANETARY SCIENCE*
Jilly, C. E., Huss, G. R., Krot, A. N., Nagashima, K., Yin, Q., Sugiura, N.
2014; 49 (11): 2104-2117
- **Identification and characterization of science-rich landing sites for lunar lander missions using integrated remote sensing observations** *ADVANCES IN SPACE RESEARCH*
Flahaut, J., Blanchette-Guertin, J., Jilly, C., Sharma, P., Souchon, A., van Westrenen, W., Kring, D. A.
2012; 50 (12): 1647-1665