Origin and significance of decameter-scale polygons in the lower Peace Vallis fan of Gale crater, Mars
DZ Oehler, N Mangold, B Hallet, AG Fairén, L Le Deit... - Icarus, 2016 - Elsevier
Abstract Decameter-scale polygons are extensively developed in the Bedded Fractured (BF) Unit of the lower Peace Vallis fan. The polygons occur in a likely extension of the Gillespie Lake Member, north of Yellowknife Bay, the section first drilled by the Mars Science

Remote Nuclear Spectrometer for Martian Moon Exploration
N Hasebe, T Okada, S Kameda... - to be held 30 July-7 Aug... 2016 - adsabs.harvard.edu
Abstract The Gamma-ray and Neutron Spectrometer (GNS) on the Mars Moon eXploration (MMX) forms part of the geochemistry investigation. The remote observation from spacecraft orbit provides us global information of the Moons showing evidence of their origin. The

INSIGHTS INTO SPELEOTHEMS FROM LAVA TUBES OF THE GALAPAGOS ISLANDS (ECUADOR): MINERALOGY AND BIOGENICITY
R Daza, F Gázquez, AZ Miller, C Sáiz-Jiménez... - 2016 - uvadoc.uva.es
Different types of hard and soft speleothems (stalactites, stalagmites, columns, crusts, flowstones, micro-gours and botryoidal coralloids) have been observed throughout lava tubes in the Galapagos archipelago, Ecuador. Three lava tubes were studied in this work:

Biomineralization and biosignatures of coralloid-type speleothems from lava tubes of Galapagos Islands: evidences on the fossil record of prokaryotes
AZ Miller, AM Garcia-Sanchez... - EGU General... 2016 - adsabs.harvard.edu
Abstract Lava tubes have traditionally been considered of little interest from a mineralogical point of view. Recently, this type of volcanic caves has received particular attention because lava tubes have been described on Mars. Speleothems, or secondary mineral deposits in

Raman-IR vibrational and XRD characterization of ancient and modern mineralogy from volcanic eruption in Tenerife Island: Implication for Mars
EA Lalla, G Lopez-Reyes, A Sansano... - Geoscience... 2016 - Elsevier
Abstract A detailed vibrational Raman-IR spectroscopic and diffractional analyses have been performed on basalts from two locations from Tenerife Island:(1) the Arenas Negras volcano which belongs to the historical eruption not showing visible alteration and (2) Pillow

An Investigation of Elemental Composition of Martian Satellites by Gamma-ray and Neutron Spectrometer
N Hasebe, T Ohta, Y Amano, M Naito... - on Radiation Detectors... 2016 - journals.jps.jp
Japanese mission "Mars Moon eXploration (MMX)" which is currently at the planning stage will make close-up remote and in-situ observations of Phobos and Deimos, and return Phobos samples to Earth. The major scientific objectives of MMX are to characterize

A high performance neutron spectrometer for planetary hydrogen measurement
M Naito, N Hasebe, H Nagaoaka, J Ishii... - Hard X-Ray... 2017 - spiedigitallibrary.org
The elemental composition and its distribution on planetary surface provide important constraints on the origin and evolution of the planetary body. The nuclear spectrometer consisting of a neutron spectrometer and a gamma-ray spectrometer obtains elemental

Bio/Geomarkers and Mineralizing Hydrothermal Settings: Selected Earth Analogs, Microbiological Ecosystems and Astrobiological Potential
J Martínez-Frías, E Lázaro, A Esteve-Núñez - Geomicrobiology, 2016 - books.google.com
A fundamental problem related to the astrobiological study of terrestrial (eg early Earth rocks and minerals) and planetary materials (eg asteroidal and Mars meteorites, Martian rocks) is not only recognizing and quantifying carbon-related compounds that may be present, but
The SuperCam remote sensing instrument suite for Mars 2020
RC Wiens, S Maurice, K McCabe... - 47th Lunar and... 2016 - hal-insu.archives-ouvertes.fr
The Mars 2020 rover, essentially a structural twin of MSL, is being built to a) characterize the geology and history of a new landing site on Mars, b) find and characterize ancient habitable environments, c) cache samples for eventual return to Earth, and d) demonstrate in-situ

The SuperCam Remote Sensing Suite for MARS 2020: Nested and Co-Aligned LIBS, Raman, and VISIR Spectroscopies, and color micro-imaging
T Fouchet, R Wiens, S Maurice... - AAS/Division for... 2016 - adsabs.harvard.edu
Abstract As chartered by the Science Definition Team, the Mars 2020 mission addresses four primary objectives: A. Characterize the processes that formed and modified the geologic record within an astrobiologically relevant ancient environment, B. Perform astrobiologically

Marte: nueve evidencias sobre agua líquida reciente y habitabilidad
J Martínez-Frías - Enseñanza de las Ciencias de la Tierra, 2016 - raco.cat
Las misiones espaciales, especialmente las misiones a Marte, están demostrando que la geología planetaria o astrogeología constituye una disciplina fundamental para establecer, a través de la caracterización de las rocas, minerales y estructuras, el tipo y evolución de los

Improved pyroelectric x-ray generator for planetary active x-ray spectroscopy
M Naito, N Hasebe, H Nagaoka... - Hard X-Ray... 2017 - spiedigitallibrary.org
The elemental composition on planetary surface provides us an essential information to improve geological and geochemical understanding of planets. An active X-ray spectrometer (AXS) was developed and proposed as one of the mission payloads to perform

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J Minguillón, M Lerga, E Abar... - El profesional... 2017 - elprofesionaldelainformacion.com
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NM Vaqueiro - Espacio Tiempo y Forma. Serie VI, Geografía, 2017 - revistas.uned.es
... Oyarzun Muñoz, Roberto; Martínez Frías, Jesús y García Guinea, Javier: «Expedición Heuland (1795-1800). La minería de la época dentro del contexto de la metalogenia actual», en: La expedición mineralógica de los hermanos Heuland a Chile y Perú: 1795-1800. ...