

Cristian Carli

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spectral variability of plagioclaseâ€“mafic mixtures (1): Effects of chemistry and modal abundance in reflectance spectra of rocks and mineral mixtures. <i>Icarus</i> , 2013, 226, 282-298.	2.5	52
2	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
3	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	46
4	Compositional interpretation of PFS/MEx and TES/MGS thermal infrared spectra of Phobos. <i>Planetary and Space Science</i> , 2011, 59, 1308-1325.	1.7	43
5	Testing the ability of the ExoMars 2018 payload to document geological context and potential habitability on Mars. <i>Planetary and Space Science</i> , 2015, 108, 87-97.	1.7	41
6	Spectral characteristics of rocks: Effects of composition and texture and implications for the interpretation of planet surface compositions. <i>Icarus</i> , 2011, 211, 1034-1048.	2.5	36
7	Spectral variability of plagioclaseâ€“mafic mixtures (2): Investigation of the optical constant and retrieved mineral abundance dependence on particle size distribution. <i>Icarus</i> , 2014, 235, 207-219.	2.5	30
8	Mercury Hollows as Remnants of Original Bedrock Materials and Devolatilization Processes: A Spectral Clustering and Geomorphological Analysis. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2365-2379.	3.6	23
9	Olivine thermal emissivity under extreme temperature ranges: Implication for Mercury surface. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 252-257.	4.4	20
10	The Ma_Miss instrument performance, I: Analysis of rocks powders by Martian VNIR spectrometer. <i>Planetary and Space Science</i> , 2014, 101, 89-107.	1.7	18
11	VNIR spectral characteristics of terrestrial igneous effusive rocks: mineralogical composition and the influence of texture. <i>Geological Society Special Publication</i> , 2015, 401, 139-158.	1.3	18
12	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. <i>Icarus</i> , 2019, 317, 388-411.	2.5	18
13	Temperature-dependent VNIR spectroscopy of hydrated Mg-sulfates. <i>Icarus</i> , 2017, 281, 444-458.	2.5	16
14	Two geologic systems providing terrestrial analogues for the exploration of sulfate deposits on Mars: Initial spectral characterization. <i>Planetary and Space Science</i> , 2009, 57, 614-627.	1.7	15
15	Visible and Near-Infrared (VNIR) reflectance spectroscopy of glassy igneous material: Spectral variation, retrieving optical constants and particle sizes by Hapke model. <i>Icarus</i> , 2016, 266, 267-278.	2.5	15
16	Removal of atmospheric features in near infrared spectra by means of principal component analysis and target transformation on Mars: I. Method. <i>Icarus</i> , 2015, 253, 51-65.	2.5	13
17	Application of spectral linear mixing to rock slabs analyses at various scales using Ma_Miss BreadBoard instrument. <i>Planetary and Space Science</i> , 2017, 144, 1-15.	1.7	11
18	The role of very fine particle sizes in the reflectance spectroscopy of plagioclase-bearing mixtures: New understanding for the interpretation of the finest sizes of the lunar regolith. <i>Icarus</i> , 2017, 293, 157-171.	2.5	10

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19	The pre-launch characterization of SIMBIO-SYS/VIHI imaging spectrometer for the BepiColombo mission to Mercury. I. Linearity, radiometry, and geometry calibrations. Review of Scientific Instruments, 2017, 88, 094502.	1.3	10
20	Global Spectral Properties and Lithology of Mercury: The Example of the Shakespeare (H&O3) Quadrangle. Journal of Geophysical Research E: Planets, 2019, 124, 2326-2346.	3.6	10
21	Thermal infrared emissivity of felsic-rich to mafic-rich analogues of hot planetary regoliths. Earth and Planetary Science Letters, 2020, 534, 116089.	4.4	10
22	BepiColombo SIMBIO-SYS data: Preliminary evaluation for rock discrimination and recognition in both low and high resolution spectroscopic data in the visible and near infrared spectral intervals. Planetary and Space Science, 2007, 55, 1596-1613.	1.7	9
23	Spectral analysis and geological mapping of the Daedalia Planum lava field (Mars) using OMEGA data. Icarus, 2012, 220, 679-693.	2.5	9
24	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. Icarus, 2016, 272, 16-31.	2.5	9
25	On the asymmetry of Nathair Facula, Mercury. Icarus, 2021, 355, 114180.	2.5	9
26	The pre-launch characterization of SIMBIO-SYS/VIHI imaging spectrometer for the BepiColombo mission to Mercury. II. Spectral calibrations. Review of Scientific Instruments, 2017, 88, 094503.	1.3	8
27	Northwest Africa 6232: Visible&near infrared reflectance spectra variability of an olivine diogenite. Meteoritics and Planetary Science, 2018, 53, 2228-2242.	1.6	8
28	Temperature-dependent, VIS-NIR reflectance spectroscopy of sodium sulfates. Icarus, 2021, 357, 114165.	2.5	7
29	Spectral Units Analysis of Quadrangle H05&Hokusai on Mercury. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	7
30	Spectral variability of plagioclase&mafic mixtures (3): Quantitative analysis applying the MGM algorithm. Icarus, 2015, 254, 34-55.	2.5	6
31	The Ma_Miss instrument performance, II: Band parameters of rocks powders spectra by Martian VNIR spectrometer. Planetary and Space Science, 2015, 117, 329-344.	1.7	6
32	Deconvolution of mixtures with high plagioclase content for the remote interpretation of lunar plagioclase-rich regions. Icarus, 2016, 272, 1-15.	2.5	6
33	THE &MOON MAPPING&TM PROJECT TO PROMOTE COOPERATION BETWEEN STUDENTS OF ITALY AND CHINA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B6, 71-78.	0.2	6
34	Spectral reflectance characteristics of the Hamar Laghdad hydrothermal sequence, Morocco: Implications for the methane origin on Mars. Icarus, 2015, 245, 184-197.	2.5	4
35	Tectono&Magmatic, Sedimentary, and Hydrothermal History of Arsinoes and Pyrrhae Chaos, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006341.	3.6	4
36	THE &MOON MAPPING&TM PROJECT TO PROMOTE COOPERATION BETWEEN STUDENTS OF ITALY AND CHINA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B6, 71-78.	0.2	4

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37	VIS-IR spectroscopy of magnesium chlorides at cryogenic temperatures. <i>Icarus</i> , 2022, 373, 114756.	2.5	4
38	VNIR spectral variability of the igneous stratified Stillwater Complex: A tool to map lunar highlands. <i>American Mineralogist</i> , 2014, 99, 1834-1848.	1.9	3
39	Temporal evolution of the permanent shadowed regions at Mercury poles: applications for spectral detection of ices by SIMBIOSYS-VIHI on BepiColombo mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1308-1318.	4.4	3
40	MGM deconvolution of complex mafic mineralogy rock slab spectra from visible-near infrared imaging spectroscopy: Implications for the characterization of the terrestrial ocean crust and of the lunar crust. , 2016, , .		2
41	Hydrothermal activity on the CV parent body: New perspectives from the giant Transantarctic Mountains micrometeorite TAM 5.29. <i>Meteoritics and Planetary Science</i> , 2020, 55, 164-183.	1.6	2
42	Iron rich basaltic eucrites, implication on spectral properties and parental bodies. <i>Icarus</i> , 2022, 371, 114653.	2.5	2
43	Laboratory Analysis (Reflectance Spectroscopy) of Terrestrial Analogues. , 2014, , 1-9.		2
44	The Measurement of the Noise-Equivalent Spectral Radiance of SIMBIO-SYS/VIHI Spectrometer. , 2018, , .		1
45	Synthetic Plagioclases as Support for Future "In-Situ" Missions: Iron's influence on VNIR Reflectance VNIR Reflectance of Synthetic Plagioclase. , 2018, , .		0
46	Spectral classification and MGM-based mineralogical characterization of hydrated phases: The Nili Fossae case, Mars. <i>Planetary and Space Science</i> , 2021, 209, 105361.	1.7	0