Cristian Carli

List of Publications by Year
in descending order

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46	624	623734	642732
papers	citations	14 h-index	23 g-index

53	53	53	844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iron rich basaltic eucrites, implication on spectral properties and parental bodies. Icarus, 2022, 371, 114653.	2.5	2
2	VIS-IR spectroscopy of magnesium chlorides at cryogenic temperatures. Icarus, 2022, 373, 114756.	2.5	4
3	Spectral Units Analysis of Quadrangle H05â€Hokusai on Mercury. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	7
4	Temperature-dependent, VIS-NIR reflectance spectroscopy of sodium sulfates. Icarus, 2021, 357, 114165.	2.5	7
5	On the asymmetry of Nathair Facula, Mercury. Icarus, 2021, 355, 114180.	2.5	9
6	Spectral classification and MGM-based mineralogical characterization of hydrated phases: The Nili Fossae case, Mars. Planetary and Space Science, 2021, 209, 105361.	1.7	0
7	Hydrothermal activity on the CV parent body: New perspectives from the giant Transantarctic Mountains minimeteorite TAM 5.29. Meteoritics and Planetary Science, 2020, 55, 164-183.	1.6	2
8	Temporal evolution of the permanent shadowed regions at Mercury poles: applications for spectral detection of ices by SIMBIOSYS-VIHI on BepiColombo mission. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1308-1318.	4.4	3
9	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	47
10	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	46
11	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
12	Tectonoâ€Magmatic, Sedimentary, and Hydrothermal History of Arsinoes and Pyrrhae Chaos, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006341.	3.6	4
13	Global Spectral Properties and Lithology of Mercury: The Example of the Shakespeare (Hâ€03) Quadrangle. Journal of Geophysical Research E: Planets, 2019, 124, 2326-2346.	3.6	10
14	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. Icarus, 2019, 317, 388-411.	2.5	18
15	Northwest Africa 6232: Visibleâ€“near infrared reflectance spectra variability of an olivine diogenite. Meteoritics and Planetary Science, 2018, 53, 2228-2242.	1.6	8
16	Synthetic Plagioclases as Support for Future â€œIn-Situâ€•Missions: Iron's influence on VNIR Reflectance VNIR Reflectance of Synthetic Plagioclase. , 2018, , .		0
17	The Measurement of the Noise-Equivalent Spectral Radiance of SIMBIO-SYS/VIHI Spectrometer. , 2018, , .		1
18	Mercury Hollows as Remnants of Original Bedrock Materials and Devolatilization Processes: A Spectral Clustering and Geomorphological Analysis. Journal of Geophysical Research E: Planets, 2018, 123, 2365-2379.	3.6	23

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19	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. Icarus, 2017, 293, 157-171.	2.5	10
20	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
21	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
22	Application of spectral linear mixing to rock slabs analyses at various scales using Ma_Miss BreadBoard instrument. Planetary and Space Science, 2017, 144, 1-15.	1.7	11
23	Temperature-dependent VNIR spectroscopy of hydrated Mg-sulfates. Icarus, 2017, 281, 444-458.	2.5	16
24	Visible and Near-Infrared (VNIR) reflectance spectroscopy of glassy igneous material: Spectral variation, retrieving optical constants and particle sizes by Hapke model. Icarus, 2016, 266, 267-278.	2.5	15
25	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
26	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. Icarus, 2016, 272, 16-31.	2.5	9
27	Deconvolution of mixtures with high plagioclase content for the remote interpretation of lunar plagioclase-rich regions. Icarus, 2016, 272, 1-15.	2.5	6
28	Testing the ability of the ExoMars 2018 payload to document geological context and potential habitability on Mars. Planetary and Space Science, 2015, 108, 87-97.	1.7	41
29	VNIR spectral characteristics of terrestrial igneous effusive rocks: mineralogical composition and the influence of texture. Geological Society Special Publication, 2015, 401, 139-158.	1.3	18
30	Spectral variability of plagioclaseâ€“mafic mixtures (3): Quantitative analysis applying the MGM algorithm. Icarus, 2015, 254, 34-55.	2.5	6
31	Removal of atmospheric features in near infrared spectra by means of principal component analysis and target transformation on Mars: I. Method. Icarus, 2015, 253, 51-65.	2.5	13
32	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
33	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
34	VNIR spectral variability of the igneous stratified Stillwater Complex: A tool to map lunar highlands. American Mineralogist, 2014, 99, 1834-1848.	1.9	3
35	The Ma_Miss instrument performance, I: Analysis of rocks powders by Martian VNIR spectrometer. Planetary and Space Science, 2014, 101, 89-107.	1.7	18
36	Spectral variability of plagioclaseâ€“mafic mixtures (2): Investigation of the optical constant and retrieved mineral abundance dependence on particle size distribution. Icarus, 2014, 235, 207-219.	2.5	30

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37	Laboratory Analysis (Reflectance Spectroscopy) of Terrestrial Analogues. , 2014, , 1-9.		2
38	Olivine thermal emissivity under extreme temperature ranges: Implication for Mercury surface. Earth and Planetary Science Letters, 2013, 371-372, 252-257.	4.4	20
39	Spectral variability of plagioclaseâ€“mafic mixtures (1): Effects of chemistry and modal abundance in reflectance spectra of rocks and mineral mixtures. Icarus, 2013, 226, 282-298.	2.5	52
40	Spectral analysis and geological mapping of the Daedalia Planum lava field (Mars) using OMEGA data. Icarus, 2012, 220, 679-693.	2.5	9
41	Compositional interpretation of PFS/MEx and TES/MGS thermal infrared spectra of Phobos. Planetary and Space Science, 2011, 59, 1308-1325.	1.7	43
42	Spectral characteristics of rocks: Effects of composition and texture and implications for the interpretation of planet surface compositions. Icarus, 2011, 211, 1034-1048.	2.5	36
43	Two geologic systems providing terrestrial analogues for the exploration of sulfate deposits on Mars: Initial spectral characterization. Planetary and Space Science, 2009, 57, 614-627.	1.7	15
44	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
45	THE â€˜MOON MAPPINGâ€™ 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
46	THE â€˜MOON MAPPINGâ€™ 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