

Vincenzo Orofino

List of Publications by Year in descending order

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75
papers

2,148
citations

361413

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233421

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78
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78
docs citations

78
times ranked

1886
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Thermal Decomposition of Particulate Samples of MgCO ₃ : Experiments and Models. <i>Chemistry</i> , 2022, 4, 548-559.	2.2	5
2	Taurid complex smoking gun: Detection of cometary activity. <i>Planetary and Space Science</i> , 2021, 207, 105306.	1.7	6
3	Detection of aqueous alteration minerals in Martian open and closed paleolake basins. <i>Planetary and Space Science</i> , 2021, 208, 105342.	1.7	3
4	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. <i>Nature Astronomy</i> , 2019, 3, 649-658.	10.1	34
5	Kinetics of White Soft Minerals (WSMs) Decomposition under Conditions of Interest for Astrobiology: A Theoretical and Experimental Study. <i>Geosciences (Switzerland)</i> , 2019, 9, 101.	2.2	8
6	Aqueous alteration detection in Tikhonravov crater, Mars. <i>Planetary and Space Science</i> , 2018, 152, 165-175.	1.7	3
7	Comparison of astronomical software programs for archaeoastronomical applications. <i>Astronomy and Computing</i> , 2018, 25, 118-132.	1.7	6
8	Global Map of Martian Fluvial Systems: Age and Total Eroded Volume Estimations. <i>Earth and Space Science</i> , 2018, 5, 560-577.	2.6	34
9	Estimate of the water flow duration in large Martian fluvial systems. <i>Planetary and Space Science</i> , 2018, 163, 83-96.	1.7	26
10	SEM morphological studies of carbonates and the search for ancient life on Mars. <i>International Journal of Astrobiology</i> , 2017, 16, 137-142.	1.6	3
11	Refractory and semi-volatile organics at the surface of comet 67P/Churyumov-Gerasimenko: Insights from the VIRTIS/Rosetta imaging spectrometer. <i>Icarus</i> , 2016, 272, 32-47.	2.5	127
12	Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372.	27.8	104
13	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628.	12.6	293
14	The role of particle size in the laboratory reflectance spectra of pyroxenes: The case of the 670-nm minor feature. <i>Planetary and Space Science</i> , 2015, 117, 96-105.	1.7	1
15	New Possible Astronomic Alignments at the Megalithic Site of Göbekli Tepe, Turkey. <i>Archaeological Discovery</i> , 2015, 03, 40-50.	0.5	12
16	Microbialites vs detrital micrites: Degree of biogenicity, parameter suitable for Mars analogues. <i>Planetary and Space Science</i> , 2014, 97, 34-42.	1.7	6
17	Infrared spectroscopy of microbially induced carbonates and past life on Mars. <i>Icarus</i> , 2013, 226, 119-126.	2.5	13
18	Midinfrared spectra and optical constants of bulk hematite: Comparison with particulate hematite spectra. <i>Icarus</i> , 2011, 211, 839-848.	2.5	8

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19	A spectroscopic method for identifying terrestrial biocarbonates and application to Mars. <i>Icarus</i> , 2011, 213, 473-479.	2.5	5
20	Assessing spectral evidence of aqueous activity in two putative martian paleolakes. <i>Icarus</i> , 2011, 214, 240-245.	2.5	1
21	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. <i>Science</i> , 2011, 334, 492-494.	12.6	110
22	Study of terrestrial fossils in phyllosilicate-rich soils: Implication in the search for biosignatures on Mars. <i>Icarus</i> , 2010, 208, 202-206.	2.5	16
23	Infrared reflectance spectra of particulate mixtures. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	3
24	Evaluation of carbonate abundance in putative martian paleolake basins. <i>Icarus</i> , 2009, 200, 426-435.	2.5	8
25	Time-dependent degradation of biotic carbonates and the search for past life on Mars. <i>Planetary and Space Science</i> , 2009, 57, 632-639.	1.7	12
26	Statistical exploration and volume reduction of planetary remote sensing spectral data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
27	Infrared transmission spectroscopy of carbonate samples of biotic origin relevant to Mars exobiological studies. <i>Icarus</i> , 2007, 187, 457-463.	2.5	15
28	Scientific goals for the observation of Venus by VIRTIS on ESA/Venus express mission. <i>Planetary and Space Science</i> , 2007, 55, 1653-1672.	1.7	155
29	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. <i>Nature</i> , 2007, 450, 641-645.	27.8	95
30	South-polar features on Venus similar to those near the north pole. <i>Nature</i> , 2007, 450, 637-640.	27.8	110
31	On Potential Spectroscopic Detection of Microfossils on Mars. <i>Earth, Moon and Planets</i> , 2007, 101, 127-140.	0.6	4
32	Optical characterization of laser ablated silicates. <i>Icarus</i> , 2007, 191, 381-393.	2.5	31
33	Crystallisation processes in cosmic silicates: Laboratory progress towards understanding structural-spectral relationships. <i>Advances in Space Research</i> , 2007, 39, 375-391.	2.6	9
34	Cluster analysis of planetary remote sensing spectral data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	28
35	Space weathering of silicates simulated by nanosecond pulse UV excimer laser. <i>Icarus</i> , 2006, 180, 546-554.	2.5	89
36	Modeling asteroid surfaces from observations and irradiation experiments: The case of 832 Karin. <i>Icarus</i> , 2006, 184, 327-337.	2.5	92

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37	Optical constants of particulate minerals from reflectance measurements: The case of calcite. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 250-255.	2.3	6
38	Diffuse reflectance of altered olivine grains: Remote sensing detection and implications for Mars studies. <i>Planetary and Space Science</i> , 2006, 54, 784-793.	1.7	7
39	The Planetary Fourier Spectrometer (PFS) onboard the European Mars Express mission. <i>Planetary and Space Science</i> , 2005, 53, 963-974.	1.7	151
40	Spectral alteration of the Meteorite Epinal (H5) induced by heavy ion irradiation: a simulation of space weathering effects on near-Earth asteroids. <i>Icarus</i> , 2005, 174, 31-35.	2.5	116
41	The optical constants of gypsum particles as analog of Martian sulfates. <i>Advances in Space Research</i> , 2004, 33, 2246-2251.	2.6	11
42	Crystalline comet dust: Laboratory experiments on a simple silicate system. <i>Meteoritics and Planetary Science</i> , 2003, 38, 457-478.	1.6	13
43	Measurements of spectral emissivity related to planetary missions. <i>Advances in Space Research</i> , 2002, 29, 789-795.	2.6	1
44	The complex refractive index of limestone particles: an extension to the FIR range for Mars applications. <i>Planetary and Space Science</i> , 2002, 50, 839-847.	1.7	17
45	Presence and detection of carbonates on the Martian surface. <i>Journal of Geophysical Research</i> , 2001, 106, 27815-27822.	3.3	20
46	A study of physical processes on the surface of mars and their possible bearing on the detectability of carbonates. <i>Advances in Space Research</i> , 2001, 28, 1191-1196.	2.6	1
47	An infrared zoom for space applications. <i>Planetary and Space Science</i> , 2000, 48, 523-528.	1.7	2
48	Carbonates and coated particles on Mars. <i>Planetary and Space Science</i> , 2000, 48, 1341-1347.	1.7	16
49	The 4.6 micron feature of "SiH groups in silicate dust grains and infrared cometary spectra. <i>Planetary and Space Science</i> , 1999, 47, 781-785.	1.7	6
50	Processing of amorphous carbon grains produced in hydrogen-rich atmosphere. <i>Advances in Space Research</i> , 1999, 24, 443-447.	2.6	2
51	The spectroscopic search for carbonates on the surface and in the atmosphere of mars: Laboratory measurements and numerical simulations. <i>Advances in Space Research</i> , 1999, 23, 1609-1612.	2.6	4
52	Variability of Circumstellar Emission from Dust Envelopes Around Carbon Stars. <i>Astrophysics and Space Science</i> , 1998, 262, 107-113.	1.4	1
53	Virtis : an imaging spectrometer for the rosetta mission. <i>Planetary and Space Science</i> , 1998, 46, 1291-1304.	1.7	72
54	The infrared optical constants of limestone particles and implications for the search of carbonates on Mars. <i>Planetary and Space Science</i> , 1998, 46, 1659-1669.	1.7	30

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55	Photometric modelling of the Martian dust rings. <i>Planetary and Space Science</i> , 1998, 46, 1697-1709.	1.7	1
56	Variability of Circumstellar Emission from Dust Envelopes Around Carbon Stars. <i>Astrophysics and Space Science</i> , 1997, 251, 97-102.	1.4	0
57	Modelling the influence of surface emittance and atmospheric transmittance on Martian spectra. <i>Advances in Space Research</i> , 1997, 19, 1281-1284.	2.6	11
58	Laboratory simulations of martian dust. <i>Advances in Space Research</i> , 1997, 20, 1605-1608.	2.6	2
59	On the Interstellar Extinction Hump and Laboratory Carbonaceous Grains. <i>Astrophysical Journal</i> , 1996, 462, 1020.	4.5	7
60	Carbon Grains Produced in Partially Hydrogenated Atmospheres and Their Astrophysical Relevance. <i>Astrophysical Journal</i> , 1996, 472, 419-423.	4.5	11
61	The fir emission of dust particles around c-rich IRAS sources. <i>Astrophysics and Space Science</i> , 1995, 224, 227-231.	1.4	0
62	Effect of composition on IR spectra of synthetic amorphous silicate cosmic dust analogues. <i>Planetary and Space Science</i> , 1995, 43, 1241-1246.	1.7	19
63	Radiation transfer modelling of the dust torus of phobos in view of the Mars mission. <i>Planetary and Space Science</i> , 1995, 43, 1479-1483.	1.7	3
64	A Model for the Amorphous Carbon Grains around C-rich Objects. <i>Astrophysical Journal</i> , 1995, 448, 339.	4.5	8
65	Ultraviolet spectra of amorphous carbon grains: Comparison with the circumstellar extinction around C-rich objects. <i>Astrophysical Journal</i> , 1994, 436, 831.	4.5	11
66	Far-infrared emission from dust in the Bok globule Barnard 335. <i>Monthly Notices of the Royal Astronomical Society</i> , 1993, 262, 805-811.	4.4	1
67	Laboratory Spectra of Amorphous and Crystalline Olivine: An Application to Comet Halley IR Spectrum. <i>International Astronomical Union Colloquium</i> , 1991, 126, 125-128.	0.1	0
68	Raman spectra of different carbonaceous materials of astrophysical interest. <i>Infrared Physics</i> , 1990, 30, 19-25.	0.5	8
69	Hydrogenated amorphous carbon grains in Comet Halley?. <i>Astrophysical Journal</i> , 1990, 348, 718.	4.5	14
70	Temperature behavior of infrared spectra of polycyclic aromatic hydrocarbons and the Unidentified Infrared Bands. <i>Astrophysical Journal</i> , 1990, 364, 152.	4.5	6
71	Carbonaceous materials as components of cometary dust. <i>Advances in Space Research</i> , 1989, 9, 285-289.	2.6	21
72	Raman spectra of submicron amorphous carbon grains and mixtures of polycyclic aromatic hydrocarbons. <i>Infrared Physics</i> , 1988, 28, 383-388.	0.5	8

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73	Amorphous carbon around carbon stars. <i>Astrophysics and Space Science</i> , 1987, 138, 127-140.	1.4	11
74	Interstellar amorphous carbon. <i>Astrophysical Journal</i> , 1987, 321, L87.	4.5	22
75	2.5-300 μ m laboratory observations of submicron SiC particles as cosmic dust candidates. <i>Infrared Physics</i> , 1986, 26, 37-42.	0.5	11