Roger Clark

List of Publications by Year
in descending order

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46 papers	5,813 citations	257450 24 h-index	289244 40 g-index
62 all docs	62 docs citations	62 times ranked	4980 citing authors

#	Article	IF	Citations
1	Saturnâ€™s icy satellites investigated by Cassini - VIMS. V. Spectrophotometry. Icarus, 2022, 375, 114803.	2.5	3
2	Maximizing the Science and Resource Mapping Potential of Orbital VSWIR Spectral Measurements of Mars. , 2021, 53, .		0
3	Laboratory Architecture as an Infrastructural Capability to Increase the Science Returned by Ocean World Missions. , 2021, 53, .		0
4	Occultation observations of Saturn's rings with Cassini VIMS. Icarus, 2020, 344, 113356.	2.5	6
5	Photometric modelling and VIS-IR albedo maps of Rhea from Cassini-VIMS. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 499, L62-L66.	3.3	3
6	The Earth Surface Mineral Dust Source Investigation: An Earth Science Imaging Spectroscopy Mission. , 2020, , .		26
7	Visible and Near-Infrared Reflectance Spectroscopy. , 2019, , 261-273.		2
8	Close-range remote sensing of Saturnâ€™s rings during Cassiniâ€™s ring-grazing orbits and Grand Finale. Science, 2019, 364, .	12.6	17
9	Close Cassini flybys of Saturnâ€™s ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	12.6	24
10	Observational Evidence for Summer Rainfall at Titan's North Pole. Geophysical Research Letters, 2019, 46, 1205-1212.	4.0	14
11	Isotopic ratios of Saturn's rings and satellites: Implications for the origin of water and Phoebe. Icarus, 2019, 321, 791-802.	2.5	29
12	Photometric Modeling and VISâ€IR Albedo Maps of Dione From Cassiniâ€VIMS. Geophysical Research Letters, 2018, 45, 2184-2192.	4.0	7
13	Characterizing the source of potentially asbestos-bearing commercial vermiculite insulation using in situ IR spectroscopy. American Mineralogist, 2018, 103, 517-549.	1.9	12
14	Observational evidence for active dust storms on Titan at equinox. Nature Geoscience, 2018, 11, 727-732.	12.9	18
15	Spatial Spectroscopic Models for Remote Exploration. Astrobiology, 2018, 18, 934-954.	3.0	8
16	The Eye of Saturn's North Polar Vortex: Unexpected Cloud Structures Observed at High Spatial Resolution by Cassini/VIMS. Geophysical Research Letters, 2018, 45, 5867-5875.	4.0	6
17	Photometric Modeling and VISâ€IR Albedo Maps of Tethys From Cassiniâ€VIMS. Geophysical Research Letters, 2018, 45, 6400-6407.	4.0	6
18	Spatially resolved near infrared observations of Enceladusâ€™ tiger stripe eruptions from Cassini VIMS. Icarus, 2017, 292, 1-12.	2.5	10

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19	Discovery of alunite in Cross crater, Terra Sirenum, Mars: Evidence for acidic, sulfurous waters. American Mineralogist, 2016, 101, 1527-1542.	1.9	51
20	Saturnâ€™s icy satellites investigated by Cassini-VIMS. IV. Daytime temperature maps. Icarus, 2016, 271, 292-313.	2.5	23
21	Development, importance, and effect of a ground truth correction for the Moon Mineralogy Mapper reflectance data set. Journal of Geophysical Research E: Planets, 2013, 118, 369-381.	3.6	36
22	Nature and degree of aqueous alteration in <scp>CM</scp> and <scp>CI</scp> carbonaceous chondrites. Meteoritics and Planetary Science, 2013, 48, 1618-1637.	1.6	94
23	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. Astrophysical Journal, 2013, 766, 76.	4.5	26
24	Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. Journal of Geophysical Research E: Planets, 2013, 118, 487-513.	3.6	56
25	Reflectance Spectra. AGU Reference Shelf, 2013, , 178-188.	0.6	21
26	The surface composition of Iapetus: Mapping results from Cassini VIMS. Icarus, 2012, 218, 831-860.	2.5	136
27	Detection and mapping of hydrocarbon deposits on Titan. Journal of Geophysical Research, 2010, 115, .	3.3	147
28	Dioneâ€™s spectral and geological properties. Icarus, 2010, 206, 631-652.	2.5	61
29	An Evolving View of Saturnâ€™s Dynamic Rings. Science, 2010, 327, 1470-1475.	12.6	127
30	Investigation of an Argyre basin ring structure using Mars Reconnaissance Orbiter/Compact Reconnaissance Imaging Spectrometer for Mars. Journal of Geophysical Research, 2010, 115, .	3.3	25
31	Storm clouds on Saturn: Lightning-induced chemistry and associated materials consistent with Cassini/VIMS spectra. Planetary and Space Science, 2009, 57, 1650-1658.	1.7	43
32	Reflectance spectroscopy of organic compounds: 1. Alkanes. Journal of Geophysical Research, 2009, 114, .	3.3	89
33	Ring Particle Composition and Size Distribution. , 2009, , 459-509.		58
34	Compositional mapping of Saturn's satellite Dione with Cassini VIMS and implications of dark material in the Saturn system. Icarus, 2008, 193, 372-386.	2.5	135
35	A close look at Saturn's rings with Cassini VIMS. Icarus, 2008, 193, 182-212.	2.5	113
36	Phyllosilicate and sulfateâ€hematite deposits within Miyamoto crater in southern Sinus Meridiani, Mars. Geophysical Research Letters, 2008, 35, .	4.0	63

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37	Orbital Identification of Carbonate-Bearing Rocks on Mars. Science, 2008, 322, 1828-1832.	12.6	560
38	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). Astronomy and Astrophysics, 2006, 446, 707-716.	5.1	57
39	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. Space Science Reviews, 2004, 115, 111-168.	8.1	369
40	Imaging spectroscopy: Earth and planetary remote sensing with the USGS Tetracorder and expert systems. Journal of Geophysical Research, 2003, 108, .	3.3	561
41	Effects of spectrometer band pass, sampling, and signal-to-noise ratio on spectral identification using the Tetracorder algorithm. Journal of Geophysical Research, 2003, 108, .	3.3	67
42	Remote Sensing of Biological Soil Crusts. Ecological Studies, 2001, , 431-455.	1.2	23
43	Detection of Sub-Micron Radiation from the Surface of Venus by Cassini/VIMS. Icarus, 2000, 148, 307-311.	2.5	62
44	Reflectance spectroscopy: Quantitative analysis techniques for remote sensing applications. Journal of Geophysical Research, 1984, 89, 6329-6340.	3.3	1,541
45	Spectral properties of iceâ€particulate mixtures and implications for remote sensing: 1. Intimate mixtures. Journal of Geophysical Research, 1984, 89, 6341-6348.	3.3	169
46	Spectroscopic detection of microbial colonization in Antarctic sandstone. Antarctic Science, 0, , 1-8.	0.9	0