James F Bell Iii

List of Publications by Year
in descending order

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41 papers	3,267 citations	257357 24 h-index	360920 35 g-index
41 all docs	41 docs citations	41 times ranked	2246 citing authors

#	Article	IF	Citations
1	Lucy Mission to the Trojan Asteroids: Science Goals. Planetary Science Journal, 2021, 2, 171.	1.5	54
2	Lucy Mission to the Trojan Asteroids: Instrumentation and Encounter Concept of Operations. Planetary Science Journal, 2021, 2, 172.	1.5	21
3	Diagenesis of Vera Rubin Ridge, Gale Crater, Mars, From Mastcam Multispectral Images. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006322.	1.5	33
4	Hypotheses for the origin of the Hypanis fan-shaped deposit at the edge of the Chryse escarpment, Mars: Is it a delta?. Icarus, 2019, 319, 885-908.	1.1	25
5	Assessing martian bedrock mineralogy through â€œwindowsâ€•in the dust using near-infrared and thermal infrared remote sensing. Icarus, 2019, 324, 15-40.	1.1	4
6	An Instrument Anomaly in the Mars Exploration Rover Pancam 1,009â€•nm Filter (R7): Characterization, Simulation, Correction, and Preliminary Verification. Earth and Space Science, 2019, 6, 96-115.	1.1	0
7	Comparison of Deep Learning and Conventional Demosaicing Algorithms for Mastcam Images. Electronics (Switzerland), 2019, 8, 308.	1.8	13
8	Spectral Analyses of Asteroids. , 2019, , 393-412.		1
9	Thermal Infrared Spectral Analyses of Mars from Orbit Using the Thermal Emission Spectrometer and Thermal Emission Imaging System. , 2019, , 484-498.		1
10	Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions. , 2019, , 513-537.		3
11	Elemental Analyses of Mars from Rovers Using the Alpha-Particle X-Ray Spectrometer. , 2019, , 555-572.		5
12	Elemental Analyses of Mars from Rovers with Laser-Induced Breakdown Spectroscopy by ChemCam and SuperCam. , 2019, , 573-587.		0
13	Ancient Martian aeolian processes and palaeomorphology reconstructed from the Stimson formation on the lower slope of Aeolis Mons, Gale crater, Mars. Sedimentology, 2018, 65, 993-1042.	1.6	143
14	Diverse Lithologies and Alteration Events on the Rim of Noachianâ€Aged Endeavour Crater, Meridiani Planum, Mars: In Situ Compositional Evidence. Journal of Geophysical Research E: Planets, 2018, 123, 1255-1306.	1.5	28
15	Shaler: inÂsitu analysis of a fluvial sedimentary deposit on Mars. Sedimentology, 2018, 65, 96-122.	1.6	59
16	Bagnold Dunes Campaign Phase 2: Visible/Nearâ€•Infrared Reflectance Spectroscopy of Longitudinal Ripple Sands. Geophysical Research Letters, 2018, 45, 9480-9487.	1.5	17
17	THEMISâ€VIS Investigations of Sand at Gale Crater. Earth and Space Science, 2018, 5, 352-363.	1.1	6
18	Visible/nearâ€•infrared spectral diversity from in situ observations of the Bagnold Dune Field sands in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2655-2684.	1.5	40

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19	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. Earth and Space Science, 2017, 4, 506-539.	1.1	117
20	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	1.5	110
21	Dust deposition on the decks of the Mars Exploration Rovers: 10â€‰years of dust dynamics on the Panoramic Camera calibration targets. Earth and Space Science, 2015, 2, 144-172.	1.1	49
22	Influence of fault-controlled topography on fluvio-deltaic sedimentary systems in Eberswalde crater, Mars. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	18
23	Dust deposition on the Mars Exploration Rover Panoramic Camera (Pancam) calibration targets. Journal of Geophysical Research, 2007, 112, .	3.3	67
24	Context Camera Investigation on board the Mars Reconnaissance Orbiter. Journal of Geophysical Research, 2007, 112, .	3.3	953
25	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 1. Spirit. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	49
26	Morphology and Composition of the Surface of Mars: Mars Odyssey THEMIS Results. Science, 2003, 300, 2056-2061.	6.0	368
27	Spectral properties and geologic processes on Eros from combined NEAR NIS and MSI data sets. Meteoritics and Planetary Science, 2003, 38, 1053-1077.	0.7	33
28	Mineralogy, composition, and alteration of Mars Pathfinder rocks and soils: Evidence from multispectral, elemental, and magnetic data on terrestrial analogue, SNC meteorite, and Pathfinder samples. Journal of Geophysical Research, 2000, 105, 1757-1817.	3.3	294
29	Hubble Space Telescope observations of the Martian aphelion cloud belt prior to the Pathfinder mission: Seasonal and interannual variations. Journal of Geophysical Research, 1999, 104, 9027-9041.	3.3	71
30	Synoptic measurements of Martian winds using the Hubble Space Telescope. Geophysical Research Letters, 1998, 25, 611-614.	1.5	13
31	1995 observations of Martian dust storms using the Hubble Space Telescope. Journal of Geophysical Research, 1997, 102, 1679-1692.	3.3	39
32	Mars surface mineralogy from Hubble Space Telescope imaging during 1994-1995: Observations, calibration, and initial results. Journal of Geophysical Research, 1997, 102, 9109-9123.	3.3	59
33	Absorption and scattering properties of the Martian dust in the solar wavelengths. Journal of Geophysical Research, 1997, 102, 9039-9050.	3.3	143
34	Low-temperature reflectivity spectra of red hematite and the color of Mars. Journal of Geophysical Research, 1997, 102, 9125-9133.	3.3	67
35	Near Infrared Spectrometer for the Near Earth Asteroid Rendezvous Mission. Space Science Reviews, 1997, 82, 101-167.	3.7	18
36	Global imaging of Mars by Hubble space telescope during the 1995 opposition. Journal of Geophysical Research, 1996, 101, 18883-18890.	3.3	54

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37	Detection and monitoring of H2O and CO2ice clouds on Mars. Journal of Geophysical Research, 1996, 101, 9227-9237.	3.3	33
38	Mid-infrared transmission spectra of crystalline and nanophase iron oxides/oxyhydroxides and implications for remote sensing of Mars. Journal of Geophysical Research, 1995, 100, 5297.	3.3	19
39	Thermal emission measurements 2000â€“400 cmâ^'1(5â€“25 Î¼m) of Hawaiian palagonitic soils and their implications for Mars. Journal of Geophysical Research, 1995, 100, 5309.	3.3	22
40	New composite reflectance spectra of Mars from 0.4 to 3.14 Î¼m. Geophysical Research Letters, 1994, 21, 353-356.	1.5	69
41	Observational evidence of crystalline iron oxides on Mars. Journal of Geophysical Research, 1990, 95, 14447-14461.	3.3	149