

B J Buratti

List of Publications by Year in descending order

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89
papers

5,753
citations

81900

39
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76900

74
g-index

89
all docs

89
docs citations

89
times ranked

3184
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
2	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. <i>Space Science Reviews</i> , 2004, 115, 111-168.	8.1	369
3	The Clementine Mission to the Moon: Scientific Overview. <i>Science</i> , 1994, 266, 1835-1839.	12.6	368
4	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	12.6	242
5	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
6	The NASA Roadmap to Ocean Worlds. <i>Astrobiology</i> , 2019, 19, 1-27.	3.0	209
7	Observations of Comet 19P/Borrelly by the Miniature Integrated Camera and Spectrometer Aboard Deep Space 1. <i>Science</i> , 2002, 296, 1087-1091.	12.6	208
8	Release of volatiles from a possible cryovolcano from near-infrared imaging of Titan. <i>Nature</i> , 2005, 435, 786-789.	27.8	208
9	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
10	Color and Albedo Heterogeneity of Vesta from Dawn. <i>Science</i> , 2012, 336, 700-704.	12.6	166
11	Compositional maps of Saturn's moon Phoebe from imaging spectroscopy. <i>Nature</i> , 2005, 435, 66-69.	27.8	155
12	The surface composition of Iapetus: Mapping results from Cassini VIMS. <i>Icarus</i> , 2012, 218, 831-860.	2.5	136
13	Compositional mapping of Saturn's satellite Dione with Cassini VIMS and implications of dark material in the Saturn system. <i>Icarus</i> , 2008, 193, 372-386.	2.5	135
14	The Lunar Opposition Surge: Observations by Clementine. <i>Icarus</i> , 1996, 124, 490-499.	2.5	115
15	A close look at Saturn's rings with Cassini VIMS. <i>Icarus</i> , 2008, 193, 182-212.	2.5	113
16	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
17	Global-scale surface spectral variations on Titan seen from Cassini/VIMS. <i>Icarus</i> , 2007, 186, 242-258.	2.5	110
18	Voyager photometry of Europa. <i>Icarus</i> , 1983, 55, 93-110.	2.5	108

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19	Voyager photometry of Rhea, Dione, Tethys, Enceladus and Mimas. <i>Icarus</i> , 1984, 58, 254-264.	2.5	95
20	Application of a radiative transfer model to bright icy satellites. <i>Icarus</i> , 1985, 61, 208-217.	2.5	89
21	Saturn's north polar cyclone and hexagon at depth revealed by Cassini/VIMS. <i>Planetary and Space Science</i> , 2009, 57, 1671-1681.	1.7	85
22	Albedo and color maps of the Saturnian satellites. <i>Icarus</i> , 1990, 87, 339-357.	2.5	80
23	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
24	Thermal Structure and Dynamics of Saturn's Northern Springtime Disturbance. <i>Science</i> , 2011, 332, 1413-1417.	12.6	75
25	The Rosetta mission orbiter science overview: the comet phase. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160262.	3.4	74
26	Photometry of rough planetary surfaces: The role of multiple scattering. <i>Icarus</i> , 1985, 64, 320-328.	2.5	66
27	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
28	New Horizons Mapping of Europa and Ganymede. <i>Science</i> , 2007, 318, 234-237.	12.6	62
29	Dione's spectral and geological properties. <i>Icarus</i> , 2010, 206, 631-652.	2.5	61
30	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
31	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). <i>Astronomy and Astrophysics</i> , 2006, 446, 707-716.	5.1	57
32	THE ATMOSPHERES OF SATURN AND TITAN IN THE NEAR-INFRARED: FIRST RESULTS OF CASSINI/VIMS. <i>Earth, Moon and Planets</i> , 2006, 96, 119-147.	0.6	57
33	Voyager photometry of Iapetus. <i>Icarus</i> , 1984, 59, 426-435.	2.5	55
34	High-Resolution 0.33–0.92 μ m Spectra of Iapetus, Hyperion, Phoebe, Rhea, Dione, and D-Type Asteroids: How Are They Related?. <i>Icarus</i> , 2002, 155, 375-381.	2.5	54
35	Comparative global albedo and color maps of the Uranian satellites. <i>Icarus</i> , 1991, 90, 1-13.	2.5	51
36	Photometry from Voyager 2: Initial Results from the Neptunian Atmosphere, Satellites, and Rings. <i>Science</i> , 1989, 246, 1450-1454.	12.6	49

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37	Photometric modeling of Asteroid 5535 Annefrank from Stardust observations. <i>Icarus</i> , 2011, 211, 546-552.	2.5	45
38	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
39	Storm clouds on Saturn: Lightning-induced chemistry and associated materials consistent with Cassini/VIMS spectra. <i>Planetary and Space Science</i> , 2009, 57, 1650-1658.	1.7	43
40	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
41	Disk-integrated bolometric Bond albedos and rotational light curves of saturnian satellites from Cassini Visual and Infrared Mapping Spectrometer. <i>Icarus</i> , 2010, 206, 537-560.	2.5	39
42	A photometric function for analysis of lunar images in the visual and infrared based on Moon Mineralogy Mapper observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	38
43	The Saturnian satellite Rhea as seen by Cassini VIMS. <i>Planetary and Space Science</i> , 2012, 61, 142-160.	1.7	38
44	A wavelength-dependent visible and infrared spectrophotometric function for the Moon based on ROLO data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
45	Photometry of pluto in the last decade and before: evidence for volatile transport?. <i>Icarus</i> , 2003, 162, 171-182.	2.5	32
46	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
47	The spectral variability of Triton from 1997-2000. <i>Icarus</i> , 2004, 171, 210-218.	2.5	31
48	VIMS spectral mapping observations of Titan during the Cassini prime mission. <i>Planetary and Space Science</i> , 2009, 57, 1950-1962.	1.7	28
49	Photometry and surface structure of the icy Galilean satellites. <i>Journal of Geophysical Research</i> , 1995, 100, 19061.	3.3	27
50	On the discovery of CO nighttime emissions on Titan by Cassini/VIMS: Derived stratospheric abundances and geological implications. <i>Planetary and Space Science</i> , 2006, 54, 1552-1562.	1.7	27
51	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. <i>Astrophysical Journal</i> , 2013, 766, 76.	4.5	26
52	Historical Photometric Evidence for Volatile Migration on Triton. <i>Icarus</i> , 1994, 110, 303-314.	2.5	25
53	Does global warming make Triton blush?. <i>Nature</i> , 1999, 397, 219-219.	27.8	25
54	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019, 364, .	12.6	24

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55	A TRANSMISSION SPECTRUM OF TITAN'S NORTH POLAR ATMOSPHERE FROM A SPECULAR REFLECTION OF THE SUN. <i>Astrophysical Journal</i> , 2013, 777, 161.	4.5	23
56	Saturn's icy satellites investigated by Cassini-VIMS. IV. Daytime temperature maps. <i>Icarus</i> , 2016, 271, 292-313.	2.5	23
57	PHOTOMETRY OF PLUTO 2008-2014: EVIDENCE OF ONGOING SEASONAL VOLATILE TRANSPORT AND ACTIVITY. <i>Astrophysical Journal Letters</i> , 2015, 804, L6.	8.3	21
58	The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. <i>Planetary Science Journal</i> , 2021, 2, 120.	3.6	19
59	Close-range remote sensing of Saturn's rings during Cassini's ring-grazing orbits and Grand Finale. <i>Science</i> , 2019, 364, .	12.6	17
60	CCD photometry of the Uranian satellites. <i>Astronomical Journal</i> , 1992, 104, 1618.	4.7	17
61	DIRECT DETECTION OF SEASONAL CHANGES ON TRITON WITH HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal Letters</i> , 2010, 723, L49-L52.	8.3	16
62	Ongoing resurfacing of KBO Eris by volatile transport in local, collisional, sublimation atmosphere regime. <i>Icarus</i> , 2019, 334, 52-61.	2.5	15
63	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (Ultima Thule). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
64	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. <i>Astronomical Journal</i> , 2019, 158, 123.	4.7	14
65	Identification of the lunar flash of 1953 with a fresh crater on the moon's surface. <i>Icarus</i> , 2003, 161, 192-197.	2.5	13
66	Cassini's geological and compositional view of Tethys. <i>Icarus</i> , 2016, 274, 1-22.	2.5	13
67	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. <i>Icarus</i> , 2021, 356, 113723.	2.5	13
68	Lunar Transient Phenomena: What Do the Clementine Images Reveal?. <i>Icarus</i> , 2000, 146, 98-117.	2.5	12
69	Photometric behavior of 20000 Varuna at very small solar phase angles. <i>Icarus</i> , 2005, 176, 492-498.	2.5	12
70	Vesta, vestoids, and the HED meteorites: Interconnections and differences based on Dawn Framing Camera observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1991-2003.	3.6	11
71	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 155-174.	3.6	11
72	Characteristics of Pluto's Haze and Surface from an Analytic Radiative Transfer Model. <i>Planetary Science Journal</i> , 2021, 2, 11.	3.6	10

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73	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 95.	3.6	10
74	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 20-36.	3.6	9
75	New Horizons Photometry of Pluto's Moon Charon. <i>Astrophysical Journal Letters</i> , 2019, 874, L3.	8.3	8
76	Palomar and Table Mountain observations of 9P/Tempel 1 during the Deep Impact encounter: First results. <i>Icarus</i> , 2007, 187, 296-305.	2.5	7
77	Solar phase curves and phase integrals for the leading and trailing hemispheres of Iapetus from the Cassini Visual Infrared Mapping Spectrometer. <i>Icarus</i> , 2010, 209, 738-744.	2.5	7
78	Photometric Modeling and VIS-IR Albedo Maps of Dione From Cassini-VIMS. <i>Geophysical Research Letters</i> , 2018, 45, 2184-2192.	4.0	7
79	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35.	8.3	6
80	The Eye of Saturn's North Polar Vortex: Unexpected Cloud Structures Observed at High Spatial Resolution by Cassini/VIMS. <i>Geophysical Research Letters</i> , 2018, 45, 5867-5875.	4.0	6
81	Photometric Modeling and VIS-IR Albedo Maps of Tethys From Cassini-VIMS. <i>Geophysical Research Letters</i> , 2018, 45, 6400-6407.	4.0	6
82	Pluto's Haze Abundance and Size Distribution from Limb Scatter Observations by MVIC. <i>Planetary Science Journal</i> , 2021, 2, 91.	3.6	5
83	Pluto in Glory: Discovery of Its Huge Opposition Surge. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092562.	4.0	5
84	The Search for Activity on Dione and Tethys With Cassini VIMS and UVIS. <i>Geophysical Research Letters</i> , 2018, 45, 5860-5866.	4.0	4
85	Photometric modelling and VIS-IR albedo maps of Rhea from Cassini-VIMS. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 499, L62-L66.	3.3	3
86	Saturn's icy satellites investigated by Cassini - VIMS. V. Spectrophotometry. <i>Icarus</i> , 2022, 375, 114803.	2.5	3
87	Neptune's Moon Triton: Continuing Surface Seasonal Volatile Transport. <i>Planetary Science Journal</i> , 2022, 3, 84.	3.6	3
88	Palomar and Table Mountain observations of 9P/Tempel 1 during the Deep Impact encounter: First results. <i>Icarus</i> , 2007, 191, 537-546.	2.5	0
89	Europa Clipper Preparatory Photometry to Constrain Surface Properties. <i>Planetary Science Journal</i> , 2021, 2, 144.	3.6	0