

Thomas B Mccord

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/62379/publications.pdf>

Version: 2024-02-01

85
papers

7,946
citations

47006

47
h-index

62596

80
g-index

85
all docs

85
docs citations

85
times ranked

3838
citing authors

#	ARTICLE	IF	CITATIONS
1	Asteroid Vesta: Spectral Reflectivity and Compositional Implications. <i>Science</i> , 1970, 168, 1445-1447.	12.6	682
2	Recent and episodic volcanic and glacial activity on Mars revealed by the High Resolution Stereo Camera. <i>Nature</i> , 2004, 432, 971-979.	27.8	433
3	The high-resolution stereo camera (HRSC) experiment on Mars Express: Instrument aspects and experiment conduct from interplanetary cruise through the nominal mission. <i>Planetary and Space Science</i> , 2007, 55, 928-952.	1.7	391
4	Salts on Europa's Surface Detected by Galileo's Near Infrared Mapping Spectrometer. <i>Science</i> , 1998, 280, 1242-1245.	12.6	371
5	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. <i>Space Science Reviews</i> , 2004, 115, 111-168.	8.1	369
6	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628.	12.6	293
7	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. <i>Nature</i> , 2015, 528, 241-244.	27.8	276
8	Non-water-ice constituents in the surface material of the icy Galilean satellites from the Galileo near-infrared mapping spectrometer investigation. <i>Journal of Geophysical Research</i> , 1998, 103, 8603-8626.	3.3	259
9	Ceres: Evolution and current state. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	238
10	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	12.6	222
11	Release of volatiles from a possible cryovolcano from near-infrared imaging of Titan. <i>Nature</i> , 2005, 435, 786-789.	27.8	208
12	Organics and Other Molecules in the Surfaces of Callisto and Ganymede. <i>Science</i> , 1997, 278, 271-275.	12.6	185
13	Ceres' evolution and present state constrained by shape data. <i>Icarus</i> , 2010, 205, 443-459.	2.5	185
14	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , 2016, 353, 1008-1010.	12.6	178
15	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. <i>Planetary and Space Science</i> , 2007, 55, 2025-2036.	1.7	168
16	Distribution of phyllosilicates on the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	159
17	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
18	Observational evidence of crystalline iron oxides on Mars. <i>Journal of Geophysical Research</i> , 1990, 95, 14447-14461.	3.3	149

#	ARTICLE	IF	CITATIONS
19	Hydrated Salt Minerals on Ganymede's Surface: Evidence of an Ocean Below. <i>Science</i> , 2001, 292, 1523-1525.	12.6	141
20	Amorphous and crystalline ice on the Galilean satellites: A balance between thermal and radiolytic processes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	138
21	Detection of local H ₂ O exposed at the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	128
22	Dawn Mission to Vesta and Ceres. <i>Earth, Moon and Planets</i> , 2007, 101, 65-91.	0.6	125
23	Thermal and radiation stability of the hydrated salt minerals epsomite, mirabilite, and natron under Europa environmental conditions. <i>Journal of Geophysical Research</i> , 2001, 106, 3311-3319.	3.3	104
24	Asteroids: Surface Composition from Reflection Spectroscopy. <i>Science</i> , 1974, 186, 352-355.	12.6	99
25	Cassini Visual and Infrared Mapping Spectrometer Observations of Iapetus: Detection of CO ₂ . <i>Astrophysical Journal</i> , 2005, 622, L149-L152.	4.5	94
26	Composition of Titan's surface from Cassini VIMS. <i>Planetary and Space Science</i> , 2006, 54, 1524-1539.	1.7	89
27	Fluvial erosion and post-erosional processes on Titan. <i>Icarus</i> , 2008, 197, 526-538.	2.5	88
28	Saturn's icy satellites and rings investigated by Cassini's VIMS: III Radial compositional variability. <i>Icarus</i> , 2012, 220, 1064-1096.	2.5	86
29	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. <i>Icarus</i> , 2008, 194, 212-242.	2.5	83
30	The Circum-Hellas Volcanic Province, Mars: Overview. <i>Planetary and Space Science</i> , 2009, 57, 895-916.	1.7	83
31	Brines exposed to Europa surface conditions. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1.	3.3	81
32	Cassini/VIMS hyperspectral observations of the Huygens landing site on Titan. <i>Planetary and Space Science</i> , 2006, 54, 1510-1523.	1.7	79
33	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
34	Carbon dioxide on the satellites of Saturn: Results from the Cassini VIMS investigation and revisions to the VIMS wavelength scale. <i>Icarus</i> , 2010, 206, 561-572.	2.5	78
35	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2185-2198.	1.6	75
36	Chemical Composition of Icy Satellite Surfaces. <i>Space Science Reviews</i> , 2010, 153, 113-154.	8.1	65

#	ARTICLE	IF	CITATIONS
37	Distribution of icy particles across Enceladus' surface as derived from Cassini-VIMS measurements. <i>Icarus</i> , 2008, 193, 407-419.	2.5	64
38	Saturn's icy satellites investigated by Cassini-VIMS. <i>Icarus</i> , 2007, 186, 259-290.	2.5	62
39	Evidence of Titan's climate history from evaporite distribution. <i>Icarus</i> , 2014, 243, 191-207.	2.5	62
40	Cassini VIMS observations of the Galilean satellites including the VIMS calibration procedure. <i>Icarus</i> , 2004, 172, 104-126.	2.5	61
41	Mars: Definition and characterization of global surface units with emphasis on composition. <i>Journal of Geophysical Research</i> , 1982, 87, 10129-10148.	3.3	60
42	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
43	Spectral reflectance of Martian areas during the 1973 opposition: Photoelectric filter photometry 0.33-1.10 μ m. <i>Icarus</i> , 1977, 31, 25-39.	2.5	55
44	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	1.6	54
45	Asteroid spectral reflectivities.. <i>Astronomical Journal</i> , 1973, 78, 126.	4.7	53
46	Ceres: Its Origin, Evolution and Structure and Dawn's Potential Contribution. <i>Space Science Reviews</i> , 2011, 163, 63-76.	8.1	52
47	CO ₂ -rich impact craters on Callisto. <i>Journal of Geophysical Research</i> , 2002, 107, 14-1.	3.3	48
48	Observations with the Visual and Infrared Mapping Spectrometer (VIMS) during Cassini's flyby of Jupiter. <i>Icarus</i> , 2003, 164, 461-470.	2.5	48
49	Saturn's icy satellites investigated by Cassini's VIMS. <i>Icarus</i> , 2010, 206, 507-523.	2.5	47
50	Exposed H ₂ O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. <i>Icarus</i> , 2019, 318, 22-41.	2.5	47
51	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. <i>Planetary Science</i> , 2013, 2, .	1.5	45
52	Photometric changes on Saturn's Titan: Evidence for active cryovolcanism. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	38
53	ACETYLENE ON TITAN'S SURFACE. <i>Astrophysical Journal</i> , 2016, 828, 55.	4.5	36
54	Identification of spectral units on Phoebe. <i>Icarus</i> , 2008, 193, 233-251.	2.5	32

#	ARTICLE	IF	CITATIONS
55	Ceres: Its Origin, Evolution and Structure and Dawn's Potential Contribution. , 2011, , 63-76.		31
56	VIMS spectral mapping observations of Titan during the Cassini prime mission. Planetary and Space Science, 2009, 57, 1950-1962.	1.7	28
57	Morphology and geological structure of the western part of the Olympus Mons volcano on Mars from the analysis of the Mars Express HRSC imagery. Solar System Research, 2005, 39, 85-101.	0.7	26
58	Dawn Discovery mission to Vesta and Ceres: Present status. Advances in Space Research, 2006, 38, 2043-2048.	2.6	26
59	High-resolution CASSINI-VIMS mosaics of Titan and the icy Saturnian satellites. Planetary and Space Science, 2006, 54, 1146-1155.	1.7	24
60	Mars Express High Resolution Stereo Camera spectrophotometric data: Characteristics and science analysis. Journal of Geophysical Research, 2007, 112, .	3.3	23
61	Titan's surface composition and atmospheric transmission with solar occultation measurements by Cassini VIMS. Icarus, 2014, 243, 158-172.	2.5	23
62	Ceres, Vesta, and Pallas: Protoplanets, not asteroids. Eos, 2006, 87, 105.	0.1	22
63	Reflectance properties and hydrated material distribution on Vesta: Global investigation of variations and their relationship using improved calibration of Dawn VIR mapping spectrometer. Icarus, 2015, 259, 21-38.	2.5	21
64	Ceres's internal evolution: The view after Dawn. Meteoritics and Planetary Science, 2018, 53, 1778-1792.	1.6	20
65	Titan: Preliminary results on surface properties and photometry from VIMS observations of the early flybys. Planetary and Space Science, 2006, 54, 1498-1509.	1.7	19
66	Surface-compositional properties of the Malea Planum region of the Circum-Hellas Volcanic Province, Mars. Earth and Planetary Science Letters, 2010, 294, 451-465.	4.4	17
67	The surface composition of Ceres from the Dawn mission. Icarus, 2019, 318, 2-13.	2.5	15
68	The spectral parameter maps of Vesta from VIR data. Icarus, 2015, 259, 10-20.	2.5	14
69	Mars: Near-infrared comparative spectroscopy during the 1986 opposition. Icarus, 1989, 77, 21-34.	2.5	13
70	Photometric properties of Titan's surface from Cassini VIMS: Relevance to titan's hemispherical albedo dichotomy and surface stability. Planetary and Space Science, 2006, 54, 1540-1551.	1.7	13
71	Cassini/VIMS observation of an Io post-eclipse brightening event. Icarus, 2004, 172, 141-148.	2.5	10
72	The spectral parameter maps of Ceres from NASA/DAWN VIR data. Icarus, 2019, 318, 14-21.	2.5	9

#	ARTICLE	IF	CITATIONS
73	Visible to near-IR multispectral orbital observations of Mars. , 2008, , 169-192.		8
74	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titan's surface properties. Icarus, 2010, 208, 366-384.	2.5	8
75	Composition of Titan's Surface. , 2009, , 141-175.		7
76	The surface composition of Ceres' Ezinu quadrangle analyzed by the Dawn mission. Icarus, 2019, 318, 124-146.	2.5	6
77	Near-infrared spectra of liquid/solid acetylene under Titan relevant conditions and implications for Cassini/VIMS detections. Icarus, 2016, 270, 429-434.	2.5	4
78	Mars during the 1988 opposition. Eos, 1989, 70, 50.	0.1	2
79	Surface composition reveals icy Galilean satellites' past. Eos, 2000, 81, 209.	0.1	1
80	Composition of dwarf planet Ceres: Constraints from the Dawn spacecraft mission. Meteoritics and Planetary Science, 2018, 53, 1775-1777.	1.6	1
81	Surface composition of dwarf planet Ceres: Constraints from the Dawn spacecraft mission. Icarus, 2019, 318, 1.	2.5	1
82	Mineralogy mapping of the Ac-H-5 Fejokoo quadrangle of Ceres. Icarus, 2019, 318, 147-169.	2.5	1
83	Ceres, a wet planet: The view after Dawn. Chemie Der Erde, 2022, 82, 125745.	2.0	1
84	Investigation of the Mars Express HRSC color channel calibration. Advances in Space Research, 2009, 43, 128-137.	2.6	0
85	Chemical Composition of Icy Satellite Surfaces. Space Sciences Series of ISSI, 2010, , 111-152.	0.0	0