Thomas Burbine

List of Publications by Year in descending order

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50 papers	4,125 citations	147726 31 h-index	197736 49 g-index
52 all docs	52 docs citations	52 times ranked	2083 citing authors

#	Article	IF	Citations
1	Connecting asteroids and meteorites with visible and near-infrared spectroscopy. Icarus, 2022, 380, 114971.	1.1	25
2	Constraining ordinary chondrite composition via near-infrared spectroscopy. Icarus, 2020, 336, 113426.	1.1	5
3	Exploring the Bimodal Solar System via Sample Return from the Main Asteroid Belt: The Case for Revisiting Ceres. Space Science Reviews, 2020, 216, 59.	3.7	6
4	Linking asteroids and meteorites to the primordial planetesimal population. Geochimica Et Cosmochimica Acta, 2020, 277, 377-406.	1.6	93
5	Visibleâ€“near infrared spectral indices for mapping mineralogy and chemistry with <scp>OSIRIS</scp>â€<scp>RE</scp>x. Meteoritics and Planetary Science, 2020, 55, 744-765.	0.7	7
6	Twenty Years of SpeX: Accuracy Limits of Spectral Slope Measurements in Asteroid Spectroscopy. Astrophysical Journal, Supplement Series, 2020, 247, 73.	3.0	32
7	Olivine-dominated A-type asteroids in the main belt: Distribution, abundance and relation to families. Icarus, 2019, 322, 13-30.	1.1	49
8	Spectral reflectance â€œdeconstructionâ€•of the Murchison CM2 carbonaceous chondrite and implications for spectroscopic investigations of dark asteroids. Icarus, 2018, 305, 203-224.	1.1	52
9	Surface Composition of (99942) Apophis. Astronomical Journal, 2018, 155, 140.	1.9	11
10	Can Formulas Derived From Pyroxenes and/or HEDs Be Used to Determine the Mineralogies of Vâ€Type Asteroids?. Journal of Geophysical Research E: Planets, 2018, 123, 1791-1803.	1.5	11
11	Melting and differentiation of early-formed asteroids: The perspective from high precision oxygen isotope studies. Chemie Der Erde, 2017, 77, 1-43.	0.8	132
12	Advances in determining asteroid chemistries and mineralogies. Chemie Der Erde, 2016, 76, 181-195.	0.8	9
13	Olivineâ€“metal mixtures: Spectral reflectance properties and application to asteroid reflectance spectra. Icarus, 2015, 252, 39-82.	1.1	29
14	Spectral slope variations for OSIRIS-REx target Asteroid (101955) Bennu: Possible evidence for a fine-grained regolith equatorial ridge. Icarus, 2015, 256, 22-29.	1.1	54
15	Geochemistry and oxygen isotope composition of main-group pallasites and olivine-rich clasts in mesosiderites: Implications for the â€œGreat Dunite Shortageâ€•and HED-mesosiderite connection. Geochimica Et Cosmochimica Acta, 2015, 169, 115-136.	1.6	48
16	Mineralogies and source regions of near-Earth asteroids. Icarus, 2013, 222, 273-282.	1.1	112
17	A spectroscopic comparison of HED meteorites and V-type asteroids in the inner Main Belt. Icarus, 2010, 208, 773-788.	1.1	100
18	Spectral properties and composition of potentially hazardous Asteroid (99942) Apophis. Icarus, 2009, 200, 480-485.	1.1	64

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19	Pyroxene mineralogies of nearâ€Earth vestoids. Meteoritics and Planetary Science, 2009, 44, 1331-1341.	0.7	94
20	Oxygen and Asteroids. Reviews in Mineralogy and Geochemistry, 2008, 68, 273-343.	2.2	12
21	Identifying Ancient Asteroids. Science, 2008, 320, 457-458.	6.0	2
22	Olivineâ€dominated asteroids and meteorites: Distinguishing nebular and igneous histories. Meteoritics and Planetary Science, 2007, 42, 155-170.	0.7	76
23	Spectral properties of angrites. Meteoritics and Planetary Science, 2006, 41, 1139-1145.	0.7	26
24	Asteroid 3628 BoÅ¾nÄ›mcovÃ¡: Covered with angrite-like basalts?. Meteoritics and Planetary Science, 2006, 41, 1147-1161.	0.7	11
25	Oxygen Isotope Variation in Stony-Iron Meteorites. Science, 2006, 313, 1763-1765.	6.0	105
26	Observed spectral properties of near-Earth objects: results for population distribution, source regions, and space weathering processes. Icarus, 2004, 170, 259-294.	1.1	305
27	Determining the possible building blocks of the Earth and Mars. Meteoritics and Planetary Science, 2004, 39, 667-681.	0.7	40
28	Highâ€calcium pyroxene as an indicator of igneous differentiation in asteroids and meteorites. Meteoritics and Planetary Science, 2004, 39, 1343-1357.	0.7	96
29	Spectra of extremely reduced assemblages: Implications for Mercury. Meteoritics and Planetary Science, 2002, 37, 1233-1244.	0.7	108
30	Small Main-Belt Asteroid Spectroscopic Survey in the Near-Infrared. Icarus, 2002, 159, 468-499.	1.1	101
31	Meteoritic Parent Bodies:. , 2002, , 653-668.		124
32	The NEARâ€Shoemaker xâ€ray/gammaâ€ray spectrometer experiment: Overview and lessons learned. Meteoritics and Planetary Science, 2001, 36, 1605-1616.	0.7	19
33	The composition of 433 Eros: A mineralogicalâ€”chemical synthesis. Meteoritics and Planetary Science, 2001, 36, 1661-1672.	0.7	93
34	Xâ€ray fluorescence measurements of the surface elemental composition of asteroid 433 Eros. Meteoritics and Planetary Science, 2001, 36, 1673-1695.	0.7	110
35	K asteroids and CO3/CV3 chondrites. Meteoritics and Planetary Science, 2001, 36, 245-253.	0.7	38
36	Vesta, Vestoids, and the howardite, eucrite, diogenite group: Relationships and the origin of spectral differences. Meteoritics and Planetary Science, 2001, 36, 761-781.	0.7	173

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37	MUSESâ€€ target asteroid (25143) 1998 SF36: A reddened ordinary chondrite. Meteoritics and Planetary Science, 2001, 36, 1167-1172.	0.7	134
38	Anatomy of a Partially Differentiated Asteroid: A â€œNEARâ€•Sighted View of Acapulcoites and Lodranites. Icarus, 2000, 148, 29-36.	1.1	27
39	Discovery of a Basaltic Asteroid in the Outer Main Belt. Science, 2000, 288, 2033-2035.	6.0	117
40	The Elemental Composition of Asteroid 433 Eros: Results of the NEAR-Shoemaker X-ray Spectrometer. Science, 2000, 289, 2101-2105.	6.0	123
41	Could Gâ€class asteroids be the parent bodies of the CM chondrites?. Meteoritics and Planetary Science, 1998, 33, 253-258.	0.7	54
42	Spectral Properties of Near-Earth Asteroids: Evidence for Sources of Ordinary Chondrite Meteorites. Science, 1996, 273, 946-948.	6.0	137
43	Mantle material in the main belt: Battered to bits?. Meteoritics and Planetary Science, 1996, 31, 607-620.	0.7	95
44	Groundbased Reconnaissance of Asteroid 253 Mathilde: Visible Wavelength Spectrum and Meteorite Comparison. Icarus, 1996, 119, 447-449.	1.1	22
45	Weathering in Antarctic H and CR chondrites: Quantitative analysis through MÃ¶ssbauer spectroscopy. Meteoritics, 1995, 30, 625-633.	1.5	31
46	Small Main-Belt Asteroid Spectroscopic Survey: Initial Results. Icarus, 1995, 115, 1-35.	1.1	263
47	Rotationally Resolved Spectra of Asteroid 16 Psyche. Icarus, 1995, 117, 443-445.	1.1	17
48	Mineralogical Variations within the S-Type Asteroid Class. Icarus, 1993, 106, 573-602.	1.1	440
49	Asteroid spectroscopy: Progress and perspectives. Meteoritics, 1993, 28, 161-187.	1.5	215
50	Sâ€asteroids 387 Aquitania and 980 Anacostia: Possible fragments of the breakup of a spinelâ€bearing parent body with C03/CV3 affinities. Meteoritics, 1992, 27, 424-434.	1.5	49