

Marco Delbo

List of Publications by Year in descending order

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53
papers

2,741
citations

172457

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189892

50
g-index

65
all docs

65
docs citations

65
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Main Belt Asteroids. , 2022, , 199-211.		3
2	Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission. Space Science Reviews, 2022, 218, 20.	8.1	12
3	Alignment of fractures on Bennu's boulders indicative of rapid asteroid surface evolution. Nature Geoscience, 2022, 15, 453-457.	12.9	11
4	Full-Field Modeling of Heat Transfer in Asteroid Regolith: 2. Effects of Porosity. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	7
5	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. Science Advances, 2022, 8, .	10.3	31
6	Efficiency characterization of the V-shape asteroid family detection method. Icarus, 2021, 357, 114218.	2.5	7
7	Exogenic basalt on asteroid (101955) Bennu. Nature Astronomy, 2021, 5, 31-38.	10.1	57
8	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
9	Diurnal temperature variation as the source of the preferential direction of fractures on asteroids: Theoretical model for the case of Bennu. Icarus, 2021, 360, 114347.	2.5	5
10	The astrophysical context of collision processes in meteorites. Meteoritics and Planetary Science, 2021, 56, 1406-1421.	1.6	5
11	Fine-regolith production on asteroids controlled by rock porosity. Nature, 2021, 598, 49-52.	27.8	45
12	Characterisation of the main belt asteroid (223) Rosa. Astronomy and Astrophysics, 2021, 656, L18.	5.1	9
13	MIRS: an imaging spectrometer for the MMX mission. Earth, Planets and Space, 2021, 73, .	2.5	13
14	Variations in color and reflectance on the surface of asteroid (101955) Bennu. Science, 2020, 370, .	12.6	84
15	Asteroid (101955) Bennu's weak boulders and thermally anomalous equator. Science Advances, 2020, 6, .	10.3	83
16	Bennu's near-Earth lifetime of 1.75 million years inferred from craters on its boulders. Nature, 2020, 587, 205-209.	27.8	62
17	Network of thermal cracks in meteorites due to temperature variations: new experimental evidence and implications for asteroid surfaces. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1905-1920.	4.4	12
18	Highly porous nature of a primitive asteroid revealed by thermal imaging. Nature, 2020, 579, 518-522.	27.8	100

#	ARTICLE	IF	CITATIONS
19	Full-Field Modeling of Heat Transfer in Asteroid Regolith: 1. Radiative Thermal Conductivity of Polydisperse Particulates. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006100.	3.6	22
20	Very weak carbonaceous asteroid simulants I: Mechanical properties and response to hypervelocity impacts. <i>Icarus</i> , 2020, 341, 113648.	2.5	17
21	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	10.1	124
22	The efficiency of thermal fatigue in regolith generation on small airless bodies. <i>Icarus</i> , 2019, 333, 356-370.	2.5	23
23	Unraveling the Mechanics of Thermal Stress Weathering: Rate-Effects, Size-Effects, and Scaling Laws. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3304-3328.	3.6	25
24	Ancient and primordial collisional families as the main sources of X-type asteroids of the inner main belt. <i>Astronomy and Astrophysics</i> , 2019, 624, A69.	5.1	28
25	The origins of Asteroidal rock disaggregation: Interplay of thermal fatigue and microstructure. <i>Icarus</i> , 2018, 304, 172-182.	2.5	27
26	Yarkovsky V-shape identification of asteroid families. <i>Icarus</i> , 2017, 282, 290-312.	2.5	32
27	Identification of a primordial asteroid family constrains the original planetesimal population. <i>Science</i> , 2017, 357, 1026-1029.	12.6	81
28	3D shape of asteroid (6) Hebe from VLT/SPHERE imaging: Implications for the origin of ordinary H chondrites. <i>Astronomy and Astrophysics</i> , 2017, 604, A64.	5.1	35
29	Science with MATISSE. , 2016, , .		0
30	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. <i>Advances in Space Research</i> , 2016, 57, 2529-2547.	2.6	95
31	Portrait of the Polana-Eulalia family complex: Surface homogeneity revealed from near-infrared spectroscopy. <i>Icarus</i> , 2016, 274, 231-248.	2.5	24
32	Visible spectroscopy of the Polana-Eulalia family complex: Spectral homogeneity. <i>Icarus</i> , 2016, 266, 57-75.	2.5	33
33	Super-catastrophic disruption of asteroids at small perihelion distances. <i>Nature</i> , 2016, 530, 303-306.	27.8	161
34	The OSIRIS-REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. <i>Meteoritics and Planetary Science</i> , 2015, 50, 834-849.	1.6	168
35	The small binary asteroid (939) Isberga. <i>Icarus</i> , 2015, 248, 516-525.	2.5	12
36	In search of the source of asteroid (101955) Bennu: Applications of the stochastic YORP model. <i>Icarus</i> , 2015, 247, 191-217.	2.5	125

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37	Asteroid Thermophysical Modeling. , 2015, , .		55
38	Thermal fatigue as the origin of regolith on small asteroids. Nature, 2014, 508, 233-236.	27.8	280
39	Thermophysical properties of near-Earth asteroid (341843) 2008 EV ₅ from WISE data. Astronomy and Astrophysics, 2014, 561, A45.	5.1	33
40	Evidence of a metal-rich surface for the Asteroid (16) Psyche from interferometric observations in the thermal infrared. Icarus, 2013, 226, 419-427.	2.5	68
41	Introducing the Eulalia and new Polana asteroid families: Re-assessing primitive asteroid families in the inner Main Belt. Icarus, 2013, 225, 283-297.	2.5	105
42	PHYSICAL CHARACTERIZATION AND ORIGIN OF BINARY NEAR-EARTH ASTEROID (175706) 1996 FG3. Astrophysical Journal, 2012, 748, 104.	4.5	15
43	TEMPERATURE HISTORY AND DYNAMICAL EVOLUTION OF (101955) 1999 RQ 36: A POTENTIAL TARGET FOR SAMPLE RETURN FROM A PRIMITIVE ASTEROID. Astrophysical Journal Letters, 2011, 728, L42.	8.3	36
44	Determination of physical properties of the Asteroid (41) Daphne from interferometric observations in the thermal infrared. Icarus, 2011, 215, 47-56.	2.5	22
45	The cool surfaces of binary near-Earth asteroids. Icarus, 2011, 212, 138-148.	2.5	30
46	ExploreNEOs. V. AVERAGE ALBEDO BY TAXONOMIC COMPLEX IN THE NEAR-EARTH ASTEROID POPULATION. Astronomical Journal, 2011, 142, 85.	4.7	69
47	FIRST VLTI-MIDI DIRECT DETERMINATIONS OF ASTEROID SIZES. Astrophysical Journal, 2009, 694, 1228-1236.	4.5	23
48	È“ELT: Expected Applications to Asteroid Observations in the Thermal Infrared. Earth, Moon and Planets, 2009, 105, 235-247.	0.6	1
49	Thermal inertia of main belt asteroids smaller than 100km from IRAS data. Planetary and Space Science, 2009, 57, 259-265.	1.7	93
50	Asteroid occultations today and tomorrow: toward the GAIA era. Astronomy and Astrophysics, 2007, 474, 1015-1022.	5.1	29
51	Albedo and size determination of potentially hazardous asteroids: (99942) Apophis†. Icarus, 2007, 188, 266-269.	2.5	57
52	Keck observations of near-Earth asteroids in the thermal infrared. Icarus, 2003, 166, 116-130.	2.5	146
53	Physical properties of near-Earth asteroids from thermal infrared observations and thermal modeling. Meteoritics and Planetary Science, 2002, 37, 1929-1936.	1.6	68