

Patrick Michel

List of Publications by Year in descending order

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Version: 2024-02-01

209
papers

10,540
citations

26610

56
h-index

40954

93
g-index

247
all docs

247
docs citations

247
times ranked

3329
citing authors

#	ARTICLE	IF	CITATIONS
1	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryuguâ€”A spinning topâ€”shaped rubble pile. Science, 2019, 364, 268-272.	6.0	410
2	Dynamical Lifetimes of Objects Injected into Asteroid Belt Resonances. Science, 1997, 277, 197-201.	6.0	399
3	Rotational breakup as the origin of small binary asteroids. Nature, 2008, 454, 188-191.	13.7	329
4	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	6.0	313
5	Thermal fatigue as the origin of regolith on small asteroids. Nature, 2014, 508, 233-236.	13.7	280
6	Collisions and Gravitational Reaccumulation: Forming Asteroid Families and Satellites. Science, 2001, 294, 1696-1700.	6.0	257
7	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. Nature Astronomy, 2019, 3, 341-351.	4.2	188
8	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. Science, 2020, 368, 67-71.	6.0	183
9	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. Nature Geoscience, 2019, 12, 247-252.	5.4	179
10	The OSIRISâ€”REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. Meteoritics and Planetary Science, 2015, 50, 834-849.	0.7	168
11	AIDA DART asteroid deflection test: Planetary defense and science objectives. Planetary and Space Science, 2018, 157, 104-115.	0.9	162
12	Super-catastrophic disruption of asteroids at small perihelion distances. Nature, 2016, 530, 303-306.	13.7	161
13	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. Nature Geoscience, 2019, 12, 242-246.	5.4	161
14	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. Science, 2020, 368, 654-659.	6.0	158
15	Debiased orbit and absolute-magnitude distributions for near-Earth objects. Icarus, 2018, 312, 181-207.	1.1	156
16	An implementation of the soft-sphere discrete element method in a high-performance parallel gravity tree-code. Granular Matter, 2012, 14, 363-380.	1.1	132
17	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. Nature Astronomy, 2019, 3, 352-361.	4.2	132
18	Origin and Evolution of Near-Earth Objects. , 2002, , 409-422.		132

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19	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	6.0	129
20	In search of the source of asteroid (101955) Bennu: Applications of the stochastic YORP model. <i>Icarus</i> , 2015, 247, 191-217.	1.1	125
21	On the Size Distribution of Asteroid Families: The Role of Geometry. <i>Icarus</i> , 1999, 141, 65-78.	1.1	124
22	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	4.2	124
23	Disruption of fragmented parent bodies as the origin of asteroid families. <i>Nature</i> , 2003, 421, 608-611.	13.7	120
24	European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the impact of the DART mission. <i>Advances in Space Research</i> , 2018, 62, 2261-2272.	1.2	118
25	Numerical simulations of impacts involving porous bodies. <i>Icarus</i> , 2008, 198, 242-255.	1.1	115
26	Fragment properties at the catastrophic disruption threshold: The effect of the parent body's internal structure. <i>Icarus</i> , 2010, 207, 54-65.	1.1	114
27	Spin-up of rubble-pile asteroids: Disruption, satellite formation, and equilibrium shapes. <i>Icarus</i> , 2012, 220, 514-529.	1.1	114
28	Asteroid Impact & Deflection Assessment mission: Kinetic impactor. <i>Planetary and Space Science</i> , 2016, 121, 27-35.	0.9	110
29	The Double Asteroid Redirection Test (DART): Planetary Defense Investigations and Requirements. <i>Planetary Science Journal</i> , 2021, 2, 173.	1.5	110
30	Origin of Multikilometer Earth- and Mars-Crossing Asteroids: A Quantitative Simulation. , 1998, 281, 2022-2024.		106
31	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	6.0	99
32	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.	1.2	95
33	Origin and history of ureilitic material in the solar system: The view from asteroid 2008 TC ₃ and the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 782-809.	0.7	92
34	The geophysical environment of Bennu. <i>Icarus</i> , 2016, 276, 116-140.	1.1	92
35	Formation of Asteroid Families by Catastrophic Disruption: Simulations with Fragmentation and Gravitational Reaccumulation. <i>Icarus</i> , 2002, 160, 10-23.	1.1	90
36	Asteroid Impact and Deflection Assessment mission. <i>Acta Astronautica</i> , 2015, 115, 262-269.	1.7	87

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37	Collisional formation of top-shaped asteroids and implications for the origins of Ryugu and Bennu. <i>Nature Communications</i> , 2020, 11, 2655.	5.8	87
38	Numerical simulations of asteroids modelled as gravitational aggregates with cohesion. <i>Planetary and Space Science</i> , 2009, 57, 183-192.	0.9	84
39	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	6.0	84
40	The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 160.	1.5	82
41	Hypervelocity impacts on asteroids and momentum transfer I. Numerical simulations using porous targets. <i>Icarus</i> , 2014, 229, 247-253.	1.1	78
42	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	6.0	78
43	The Location of Linear Secular Resonances for Semimajor Axes Smaller Than 2 AU. <i>Icarus</i> , 1997, 128, 230-240.	1.1	77
44	Itokawa's cratering record as observed by Hayabusa: Implications for its age and collisional history. <i>Icarus</i> , 2009, 200, 503-513.	1.1	74
45	Creep stability of the proposed AIDA mission target 65803 Didymos: I. Discrete cohesionless granular physics model. <i>Icarus</i> , 2017, 294, 98-123.	1.1	74
46	MarcoPolo-R near earth asteroid sample return mission. <i>Experimental Astronomy</i> , 2012, 33, 645-684.	1.6	72
47	Numerical simulations of impacts involving porous bodies. <i>Icarus</i> , 2009, 201, 802-813.	1.1	71
48	Rotational Failure of Rubble-pile Bodies: Influences of Shear and Cohesive Strengths. <i>Astrophysical Journal</i> , 2018, 857, 15.	1.6	70
49	Numerical predictions of surface effects during the 2029 close approach of Asteroid 99942 Apophis. <i>Icarus</i> , 2014, 242, 82-96.	1.1	68
50	Tidal disruptions. <i>Icarus</i> , 2008, 193, 283-301.	1.1	66
51	Tidal disruptions: A continuum theory for solid bodies. <i>Icarus</i> , 2006, 183, 331-348.	1.1	65
52	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013, 226, 663-670.	1.1	63
53	Bennu's near-Earth lifetime of 1.75 million years inferred from craters on its boulders. <i>Nature</i> , 2020, 587, 205-209.	13.7	62
54	The Velocity-Size Relationship for Members of Asteroid Families and Implications for the Physics of Catastrophic Collisions. <i>Icarus</i> , 1999, 141, 79-95.	1.1	61

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55	Catastrophic disruption of pre-shattered parent bodies. <i>Icarus</i> , 2004, 168, 420-432.	1.1	61
56	Numerical simulations of granular dynamics: I. Hard-sphere discrete element method and tests. <i>Icarus</i> , 2011, 212, 427-437.	1.1	61
57	Collision and gravitational reaccumulation: Possible formation mechanism of the asteroid Itokawa. <i>Astronomy and Astrophysics</i> , 2013, 554, L1.	2.1	61
58	Catastrophic disruptions as the origin of bilobate comets. <i>Nature Astronomy</i> , 2018, 2, 379-382.	4.2	60
59	Granular Convection in Microgravity. <i>Physical Review Letters</i> , 2013, 110, 018307.	2.9	58
60	Hemispherical differences in the shape and topography of asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	4.7	57
61	Contact Motion on Surface of Asteroid. <i>Journal of Spacecraft and Rockets</i> , 2014, 51, 1857-1871.	1.3	56
62	The Population of Mars-Crossers: Classification and Dynamical Evolution. <i>Icarus</i> , 2000, 145, 332-347.	1.1	54
63	Direct observations of asteroid interior and regolith structure: Science measurement requirements. <i>Advances in Space Research</i> , 2018, 62, 2141-2162.	1.2	54
64	Probable asteroidal origin of the Tunguska Cosmic Body. <i>Astronomy and Astrophysics</i> , 2001, 377, 1081-1097.	2.1	53
65	THE ORIGIN OF ASTEROID 162173 (1999 JU ₃). <i>Astronomical Journal</i> , 2013, 146, 26.	1.9	53
66	Catastrophic disruption of asteroids and family formation: a review of numerical simulations including both fragmentation and gravitational reaccumulations. <i>Planetary and Space Science</i> , 2004, 52, 1109-1117.	0.9	51
67	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	51
68	Heterogeneous mass distribution of the rubble-pile asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	4.7	50
69	VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. <i>Astronomy and Astrophysics</i> , 2021, 654, A56.	2.1	50
70	1620 Geographos and 433 Eros: Shaped by Planetary Tides?. <i>Astronomical Journal</i> , 1999, 117, 1921-1928.	1.9	48
71	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	2.1	46
72	The orbital evolution of the asteroid Eros and implications for collision with the Earth. <i>Nature</i> , 1996, 380, 689-691.	13.7	45

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73	The Brazil nut effect and its application to asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3368-3380.	1.6	44
74	Scientific Objectives of Small Carry-on Impactor (SCI) and Deployable Camera 3 Digital (DCAM3-D): Observation of an Ejecta Curtain and a Crater Formed on the Surface of Ryugu by an Artificial High-Velocity Impact. <i>Space Science Reviews</i> , 2017, 208, 187-212.	3.7	44
75	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	4.2	42
76	Estimated Abundance of Atens and Asteroids Evolving on Orbits between Earth and Sun. <i>Icarus</i> , 2000, 143, 421-424.	1.1	40
77	Weibull parameters of Yakunobasalt targets used in documented high-velocity impact experiments. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
78	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	1.1	39
79	A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. <i>Nature Astronomy</i> , 2020, 4, 136-141.	4.2	38
80	Effects of Linear Secular Resonances in the Region of Semimajor Axes Smaller Than 2 AU. <i>Icarus</i> , 1997, 129, 348-366.	1.1	37
81	Orbital and thermal evolutions of four potential targets for a sample return space mission to a primitive near-Earth asteroid. <i>Icarus</i> , 2010, 209, 520-534.	1.1	37
82	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: I. mechanical environment and dynamical model. <i>Icarus</i> , 2017, 282, 313-325.	1.1	37
83	Dynamics of Eros. <i>Astronomical Journal</i> , 1998, 116, 2023-2031.	1.9	37
84	TEMPERATURE HISTORY AND DYNAMICAL EVOLUTION OF (101955) 1999 RQ 36: A POTENTIAL TARGET FOR SAMPLE RETURN FROM A PRIMITIVE ASTEROID. <i>Astrophysical Journal Letters</i> , 2011, 728, L42.	3.0	36
85	MarcoPolo-R: Near-Earth Asteroid sample return mission selected for the assessment study phase of the ESA program cosmic vision. <i>Acta Astronautica</i> , 2014, 93, 530-538.	1.7	36
86	Numerical simulations of the contact between the lander MASCOT and a regolith-covered surface. <i>Advances in Space Research</i> , 2018, 62, 2099-2124.	1.2	34
87	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. <i>Astronomical Journal</i> , 2020, 160, 14.	1.9	34
88	The European Union funded NEOShield project: A global approach to near-Earth object impact threat mitigation. <i>Acta Astronautica</i> , 2013, 90, 80-84.	1.7	33
89	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. <i>Remote Sensing</i> , 2021, 13, 1315.	1.8	33
90	Creep stability of the DART/Hera mission target 65803 Didymos: II. The role of cohesion. <i>Icarus</i> , 2021, 362, 114433.	1.1	33

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91	The excited spin state of Dimorphos resulting from the DART impact. <i>Icarus</i> , 2021, 370, 114624.	1.1	33
92	An extended field of crater-shaped structures in the Gilf Kebir region, Egypt: Observations and hypotheses about their origin. <i>Journal of African Earth Sciences</i> , 2006, 46, 281-299.	0.9	32
93	Numerical simulations of oscillation-driven regolith motion: Brazil-nut effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2866-2881.	1.6	32
94	Benchmarking impact hydrocodes in the strength regime: Implications for modeling deflection by a kinetic impactor. <i>Icarus</i> , 2020, 338, 113446.	1.1	32
95	The shallow magnitude distribution of asteroid families. <i>Icarus</i> , 2003, 162, 328-336.	1.1	31
96	Low-speed impact simulations into regolith in support of asteroid sampling mechanism design I: Comparison with 1-g experiments. <i>Planetary and Space Science</i> , 2014, 103, 174-183.	0.9	31
97	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2018, 615, A41.	2.1	31
98	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	4.7	31
99	MARCO POLO: near earth object sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 785-808.	1.6	30
100	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019, 874, L10.	3.0	30
101	Meteoroid Impacts as a Source of Bennu's Particle Ejection Events. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006282.	1.5	30
102	The Dynamical Complexity of Surface Mass Shedding from a Top-shaped Asteroid Near the Critical Spin Limit. <i>Astronomical Journal</i> , 2018, 156, 59.	1.9	29
103	The impact crater at the origin of the Julia family detected with VLT/SPHERE?. <i>Astronomy and Astrophysics</i> , 2018, 618, A154.	2.1	29
104	Debiased albedo distribution for Near Earth Objects. <i>Icarus</i> , 2020, 340, 113631.	1.1	29
105	Numerically simulating impact disruptions of cohesive glass bead agglomerates using the soft-sphere discrete element method. <i>Icarus</i> , 2013, 226, 67-76.	1.1	28
106	Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Bennu and (162173) Ryugu. <i>Icarus</i> , 2020, 352, 113946.	1.1	28
107	Granular shear flow in varying gravitational environments. <i>Granular Matter</i> , 2013, 15, 129-137.	1.1	27
108	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: II. Fates and evolutionary dependencies. <i>Icarus</i> , 2018, 312, 128-144.	1.1	27

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109	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	1.5	27
110	Reconstructing the formation history of top-shaped asteroids from the surface boulder distribution. <i>Nature Astronomy</i> , 2021, 5, 134-138.	4.2	27
111	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	4.2	26
112	Numerical simulations of collisional disruption of rotating gravitational aggregates: Dependence on material properties. <i>Planetary and Space Science</i> , 2015, 107, 29-35.	0.9	25
113	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	2.1	25
114	Mechanical properties of particles from the surface of asteroid 25143 Itokawa. <i>Astronomy and Astrophysics</i> , 2019, 629, A119.	2.1	25
115	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	2.1	25
116	Tidal distortion and disruption of rubble-pile bodies revisited. <i>Astronomy and Astrophysics</i> , 2020, 640, A102.	2.1	25
117	A benchmarking and sensitivity study of the full two-body gravitational dynamics of the DART mission target, binary asteroid 65803 Didymos. <i>Icarus</i> , 2020, 349, 113849.	1.1	24
118	OSIRIS-REx spectral analysis of (101955) Bennu by multivariate statistics. <i>Astronomy and Astrophysics</i> , 2020, 637, L4.	2.1	23
119	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 157.	1.5	23
120	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	22
121	Fragment properties from large-scale asteroid collisions: I: Results from SPH/N-body simulations using porous parent bodies and improved material models. <i>Icarus</i> , 2019, 317, 215-228.	1.1	21
122	Hypervelocity impacts as a source of deceiving surface signatures on iron-rich asteroids. <i>Science Advances</i> , 2019, 5, eaav3971.	4.7	21
123	Assessing possible mutual orbit period change by shape deformation of Didymos after a kinetic impact in the NASA-led Double Asteroid Redirection Test. <i>Advances in Space Research</i> , 2019, 63, 2515-2534.	1.2	21
124	Modified granular impact force laws for the OSIRIS-REx touchdown on the surface of asteroid (101955) Bennu. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5087-5105.	1.6	21
125	High- and low-velocity impact experiments on porous sintered glass bead targets of different compressive strengths: Outcome sensitivity and scaling. <i>Icarus</i> , 2010, 205, 702-711.	1.1	20
126	Deployment of a lander on the binary asteroid (175706) 1996 FG3, potential target of the european MarcoPolo-R sample return mission. <i>Acta Astronautica</i> , 2013, 89, 60-70.	1.7	20

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127	Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 623, A6.	2.1	20
128	The Morphometry of Impact Craters on Bennu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089672.	1.5	20
129	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	2.1	20
130	The MMX rover: performing in situ surface investigations on Phobos. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	20
131	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. <i>Nature Geoscience</i> , 2022, 15, 440-446.	5.4	20
132	Low surface strength of the asteroid Bennu inferred from impact ejecta deposit. <i>Nature Geoscience</i> , 2022, 15, 447-452.	5.4	19
133	Origin and dynamics of Near Earth Objects. <i>Comptes Rendus Physique</i> , 2005, 6, 291-301.	0.3	18
134	The NEO (175706) 1996 FG3 in the 2-4µm spectral region: Evidence for an aqueously altered surface. <i>Icarus</i> , 2013, 223, 493-498.	1.1	18
135	Earth impact probability of the Asteroid (25143) Itokawa to be sampled by the spacecraft Hayabusa. <i>Icarus</i> , 2005, 179, 291-296.	1.1	17
136	The Asteroid Veritas: An intruder in a family named after it?. <i>Icarus</i> , 2011, 211, 535-545.	1.1	17
137	Shapes, structures, and evolution of small bodies. <i>Astrodynamics</i> , 2021, 5, 293-329.	1.5	17
138	Review of the population of impactors and the impact cratering rate in the inner solar system. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1861-1869.	0.7	16
139	Simulating regoliths in microgravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 506-514.	1.6	16
140	ROTATION-DEPENDENT CATASTROPHIC DISRUPTION OF GRAVITATIONAL AGGREGATES. <i>Astrophysical Journal</i> , 2014, 789, 158.	1.6	16
141	Selective sampling during catastrophic disruption: Mapping the location of reaccumulated fragments in the original parent body. <i>Planetary and Space Science</i> , 2015, 107, 24-28.	0.9	16
142	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. <i>Astrophysical Journal</i> , 2017, 835, 157.	1.6	16
143	Constraints on the perturbed mutual motion in Didymos due to impact-induced deformation of its primary after the DART impact. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1641-1648.	1.6	16
144	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	2.1	16

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145	Rotational states and shapes of Ryugu and Bennu: Implications for interior structure and strength. <i>Planetary and Space Science</i> , 2021, 204, 105268.	0.9	15
146	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	15
147	NASA's Double Asteroid Redirection Test (DART): Mutual Orbital Period Change Due to Reshaping in the Near-Earth Binary Asteroid System (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 148.	1.5	15
148	Dynamical origin of the asteroid (25143) Itokawa: the target of the sample-return Hayabusa space mission. <i>Astronomy and Astrophysics</i> , 2006, 449, 817-820.	2.1	14
149	Comment on "Parent body depth-pressure-temperature relationships and the style of the ureilite anatisis" by P. H. Warren (<i>MAPS</i> 47:209-227). <i>Meteoritics and Planetary Science</i> , 2013, 48, 1096-1106.	0.7	14
150	(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body. <i>Astronomy and Astrophysics</i> , 2020, 633, A65.	2.1	14
151	The Formation of Terraces on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	14
152	Libration-induced Orbit Period Variations Following the DART Impact. <i>Planetary Science Journal</i> , 2021, 2, 242.	1.5	14
153	A finite element method for computational full two-body problem: I. The mutual potential and derivatives over bilinear tetrahedron elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2019, 131, 1.	0.5	13
154	Validating N-body code chrono for granular DEM simulations in reduced-gravity environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1062-1079.	1.6	13
155	Collisional heating and compaction of small bodies: Constraints for their origin and evolution. <i>Icarus</i> , 2020, 350, 113867.	1.1	13
156	Physical properties of Near-Earth Objects that inform mitigation. <i>Acta Astronautica</i> , 2013, 90, 6-13.	1.7	12
157	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	2.1	12
158	Network of thermal cracks in meteorites due to temperature variations: new experimental evidence and implications for asteroid surfaces. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1905-1920.	1.6	12
159	Double Asteroid Redirection Test (DART): Structural and Dynamic Interactions between Asteroidal Elements of Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 140.	1.5	12
160	Collisional Formation and Modeling of Asteroid Families. , 2015, , .		11
161	Dynamical Evolution of the Didymos-Dimorphos Binary Asteroid as Rubble Piles following the DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 158.	1.5	11
162	Small-body deflection techniques using spacecraft: Techniques in simulating the fate of ejecta. <i>Advances in Space Research</i> , 2016, 57, 1832-1846.	1.2	10

#	ARTICLE	IF	CITATIONS
163	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2021, 648, A56.	2.1	10
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