

Patrick Michel

List of Publications by Year in descending order

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Version: 2024-02-01

209
papers

10,540
citations

26630

56
h-index

40979

93
g-index

247
all docs

247
docs citations

247
times ranked

3329
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of gravity on granular impacts. <i>Astronomy and Astrophysics</i> , 2022, 658, A118.	5.1	5
2	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	51
3	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
4	The MMX rover: performing in situ surface investigations on Phobos. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	20
5	HERA Mission LIDAR Mechanical and Optical Design. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1226, 012094.	0.6	1
6	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	12.6	78
7	Geologic Context of the OSIRIS-REx Sample Site from High-resolution Topography and Imaging. <i>Planetary Science Journal</i> , 2022, 3, 75.	3.6	10
8	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. <i>Nature Geoscience</i> , 2022, 15, 440-446.	12.9	20
9	The Formation of Terraces on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	14
10	Low surface strength of the asteroid Bennu inferred from impact ejecta deposit. <i>Nature Geoscience</i> , 2022, 15, 447-452.	12.9	19
11	Apophis Planetary Defense Campaign. <i>Planetary Science Journal</i> , 2022, 3, 123.	3.6	4
12	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.	3.6	12
13	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.	3.6	82
14	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
15	Dynamical Evolution of the Didymos's Dimorphos Binary Asteroid as Rubble Piles following the DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 158.	3.6	11
16	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 157.	3.6	23
17	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.	3.6	15
18	Reconstructing the formation history of top-shaped asteroids from the surface boulder distribution. <i>Nature Astronomy</i> , 2021, 5, 134-138.	10.1	27

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19	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
20	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. <i>Remote Sensing</i> , 2021, 13, 1315.	4.0	33
21	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2021, 648, A56.	5.1	10
22	Creep stability of the DART/Hera mission target 65803 Didymos: II. The role of cohesion. <i>Icarus</i> , 2021, 362, 114433.	2.5	33
23	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.	4.4	21
24	The Double Asteroid Redirection Test (DART): Planetary Defense Investigations and Requirements. <i>Planetary Science Journal</i> , 2021, 2, 173.	3.6	110
25	Rotational states and shapes of Ryugu and Bennu: Implications for interior structure and strength. <i>Planetary and Space Science</i> , 2021, 204, 105268.	1.7	15
26	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
27	Development of image texture analysis technique for boulder distribution measurements: Applications to asteroids Ryugu and Itokawa. <i>Planetary and Space Science</i> , 2021, 204, 105249.	1.7	6
28	VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. <i>Astronomy and Astrophysics</i> , 2021, 654, A56.	5.1	50
29	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
30	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
31	The excited spin state of Dimorphos resulting from the DART impact. <i>Icarus</i> , 2021, 370, 114624.	2.5	33
32	The influence of gravity on granular impacts. <i>Astronomy and Astrophysics</i> , 2021, 656, A97.	5.1	8
33	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	15
34	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	22
35	Shapes, structures, and evolution of small bodies. <i>Astrodynamic</i> , 2021, 5, 293-329.	2.4	17
36	Libration-induced Orbit Period Variations Following the DART Impact. <i>Planetary Science Journal</i> , 2021, 2, 242.	3.6	14

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37	Benchmarking impact hydrocodes in the strength regime: Implications for modeling deflection by a kinetic impactor. <i>Icarus</i> , 2020, 338, 113446.	2.5	32
38	Simulations of high-velocity impacts on metal in preparation for the Psyche mission. <i>Icarus</i> , 2020, 338, 113505.	2.5	3
39	Numerical modelling of medium-speed impacts on a granular surface in a low-gravity environment application to Hayabusa2 sampling mechanism. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 153-177.	4.4	7
40	A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. <i>Nature Astronomy</i> , 2020, 4, 136-141.	10.1	38
41	Hemispherical differences in the shape and topography of asteroid (101955) Benu. <i>Science Advances</i> , 2020, 6, .	10.3	57
42	Heterogeneous mass distribution of the rubble-pile asteroid (101955) Benu. <i>Science Advances</i> , 2020, 6, .	10.3	50
43	Variations in color and reflectance on the surface of asteroid (101955) Benu. <i>Science</i> , 2020, 370, .	12.6	84
44	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
45	Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Benu and (162173) Ryugu. <i>Icarus</i> , 2020, 352, 113946.	2.5	28
46	The Morphometry of Impact Craters on Benu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089672.	4.0	20
47	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
48	Benu's near-Earth lifetime of 1.75 million years inferred from craters on its boulders. <i>Nature</i> , 2020, 587, 205-209.	27.8	62
49	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.	4.4	12
50	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.	4.4	13
51	Meteoroid Impacts as a Source of Benu's Particle Ejection Events. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006282.	3.6	30
52	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
53	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.	2.5	24
54	Collisional formation of top-shaped asteroids and implications for the origins of Ryugu and Benu. <i>Nature Communications</i> , 2020, 11, 2655.	12.8	87

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55	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. <i>Astronomical Journal</i> , 2020, 160, 14.	4.7	34
56	Collisional heating and compaction of small bodies: Constraints for their origin and evolution. <i>Icarus</i> , 2020, 350, 113867.	2.5	13
57	OSIRIS-REx spectral analysis of (101955) Bennu by multivariate statistics. <i>Astronomy and Astrophysics</i> , 2020, 637, L4.	5.1	23
58	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. <i>Science</i> , 2020, 368, 67-71.	12.6	183
59	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
60	(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body. <i>Astronomy and Astrophysics</i> , 2020, 633, A65.	5.1	14
61	Debiased albedo distribution for Near Earth Objects. <i>Icarus</i> , 2020, 340, 113631.	2.5	29
62	Tidal distortion and disruption of rubble-pile bodies revisited. <i>Astronomy and Astrophysics</i> , 2020, 640, A102.	5.1	25
63	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
64	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.	2.5	21
65	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
66	Are hypervelocity impacts able to produce chondrule-like ejecta?. <i>Planetary and Space Science</i> , 2019, 177, 104684.	1.7	4
67	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.	1.4	13
68	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
69	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
70	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
71	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	10.1	132
72	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. <i>Nature Astronomy</i> , 2019, 3, 341-351.	10.1	188

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73	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019, 12, 242-246.	12.9	161
74	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
75	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top—shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
76	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
77	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019, 874, L10.	8.3	30
78	Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 623, A6.	5.1	20
79	Using a geometrical algorithm to provide N -body initial conditions for the gravitational phase of asteroid family formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 697-707.	4.4	6
80	Mechanical properties of particles from the surface of asteroid 25143 Itokawa. <i>Astronomy and Astrophysics</i> , 2019, 629, A119.	5.1	25
81	Hypervelocity impacts as a source of deceiving surface signatures on iron-rich asteroids. <i>Science Advances</i> , 2019, 5, eaav3971.	10.3	21
82	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	12.6	129
83	The expansion of debris flow shed from the primary of 65803 Didymos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1057-1071.	4.4	5
84	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.	2.6	21
85	Catastrophic disruptions as the origin of bilobate comets. <i>Nature Astronomy</i> , 2018, 2, 379-382.	10.1	60
86	Debiased orbit and absolute-magnitude distributions for near-Earth objects. <i>Icarus</i> , 2018, 312, 181-207.	2.5	156
87	AIDA DART asteroid deflection test: Planetary defense and science objectives. <i>Planetary and Space Science</i> , 2018, 157, 104-115.	1.7	162
88	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.	2.6	118
89	Numerical simulations of the contact between the lander MASCOT and a regolith-covered surface. <i>Advances in Space Research</i> , 2018, 62, 2099-2124.	2.6	34
90	Direct observations of asteroid interior and regolith structure: Science measurement requirements. <i>Advances in Space Research</i> , 2018, 62, 2141-2162.	2.6	54

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91	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	39
92	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
93	The Dynamical Complexity of Surface Mass Shedding from a Top-shaped Asteroid Near the Critical Spin Limit. <i>Astronomical Journal</i> , 2018, 156, 59.	4.7	29
94	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2018, 615, A41.	5.1	31
95	The impact crater at the origin of the Julia family detected with VLT/SPHERE?. <i>Astronomy and Astrophysics</i> , 2018, 618, A154.	5.1	29
96	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.	2.5	27
97	Rotational Failure of Rubble-pile Bodies: Influences of Shear and Cohesive Strengths. <i>Astrophysical Journal</i> , 2018, 857, 15.	4.5	70
98	Impact-induced chemical fractionation as inferred from hypervelocity impact experiments with silicate projectiles and metallic targets. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2306-2326.	1.6	3
99	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. <i>Astrophysical Journal</i> , 2017, 835, 157.	4.5	16
100	Creep stability of the proposed AIDA mission target 65803 Didymos: I. Discrete cohesionless granular physics model. <i>Icarus</i> , 2017, 294, 98-123.	2.5	74
101	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.	8.1	44
102	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.	4.4	16
103	Numerical simulations of oscillation-driven regolith motion: Brazil-nut effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2866-2881.	4.4	32
104	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.	2.5	37
105	Search for primitive matter in the Solar System. <i>Icarus</i> , 2017, 282, 375-379.	2.5	9
106	Structural analysis of rubble-pile asteroids applied to collisional evolution. <i>Astrodynamic</i> , 2017, 1, 57-69.	2.4	9
107	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
108	The geophysical environment of Bennu. <i>Icarus</i> , 2016, 276, 116-140.	2.5	92

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109	Small-body deflection techniques using spacecraft: Techniques in simulating the fate of ejecta. <i>Advances in Space Research</i> , 2016, 57, 1832-1846.	2.6	10
110	The NEOT ^{IST} mission (Near-Earth Object Transfer of angular momentum spin test). <i>Acta Astronautica</i> , 2016, 127, 103-111.	3.2	5
111	Super-catastrophic disruption of asteroids at small perihelion distances. <i>Nature</i> , 2016, 530, 303-306.	27.8	161
112	Asteroid Impact & Deflection Assessment mission: Kinetic impactor. <i>Planetary and Space Science</i> , 2016, 121, 27-35.	1.7	110
113	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. , 2016, , 187-212.		0
114	Dealing with uncertainties in asteroid deflection demonstration missions: NEOT ^{IST} . <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 231-238.	0.0	2
115	Numerical simulations of collisional disruption of rotating gravitational aggregates: Dependence on material properties. <i>Planetary and Space Science</i> , 2015, 107, 29-35.	1.7	25
116	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.	1.7	16
117	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
118	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.	1.6	92
119	Asteroid Impact and Deflection Assessment mission. <i>Acta Astronautica</i> , 2015, 115, 262-269.	3.2	87
120	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
121	NEOSHIELD - A Global Approach to Near-earth Object NEAR-EARTH OBJECT Impact Threat IMPACT THREAT Mitigation. , 2015, , 763-790.		6
122	Collisional Formation and Modeling of Asteroid Families. , 2015, , .		11
123	Formation and Physical Properties of Asteroids. <i>Elements</i> , 2014, 10, 19-24.	0.5	9
124	ROTATION-DEPENDENT CATASTROPHIC DISRUPTION OF GRAVITATIONAL AGGREGATES. <i>Astrophysical Journal</i> , 2014, 789, 158.	4.5	16
125	The Brazil nut effect and its application to asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3368-3380.	4.4	44
126	Thermal fatigue as the origin of regolith on small asteroids. <i>Nature</i> , 2014, 508, 233-236.	27.8	280

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127	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.	1.7	31
128	Contact Motion on Surface of Asteroid. <i>Journal of Spacecraft and Rockets</i> , 2014, 51, 1857-1871.	1.9	56
129	Numerical predictions of surface effects during the 2029 close approach of Asteroid 99942 Apophis. <i>Icarus</i> , 2014, 242, 82-96.	2.5	68
130	Hypervelocity impacts on asteroids and momentum transfer I. Numerical simulations using porous targets. <i>Icarus</i> , 2014, 229, 247-253.	2.5	78
131	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.	3.2	36
132	Neoshield " A Global Approach to Near-Earth Object Impact Threat Mitigation. , 2014, , 1-22.		0
133	Neoshield " A Global Approach to Mitigation. , 2014, , 1-22.		0
134	Numerically simulating impact disruptions of cohesive glass bead agglomerates using the soft-sphere discrete element method. <i>Icarus</i> , 2013, 226, 67-76.	2.5	28
135	The European Union funded NEOShield project: A global approach to near-Earth object impact threat mitigation. <i>Acta Astronautica</i> , 2013, 90, 80-84.	3.2	33
136	Granular Convection in Microgravity. <i>Physical Review Letters</i> , 2013, 110, 018307.	7.8	58
137	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013, 226, 663-670.	2.5	63
138	Physical properties of Near-Earth Objects that inform mitigation. <i>Acta Astronautica</i> , 2013, 90, 6-13.	3.2	12
139	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.	3.2	20
140	The NEO (175706) 1996 FG3 in the 2-4 μ m spectral region: Evidence for an aqueously altered surface. <i>Icarus</i> , 2013, 223, 493-498.	2.5	18
141	Granular shear flow in varying gravitational environments. <i>Granular Matter</i> , 2013, 15, 129-137.	2.2	27
142	Simulating regoliths in microgravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 506-514.	4.4	16
143	THE ORIGIN OF ASTEROID 162173 (1999 JU ₃). <i>Astronomical Journal</i> , 2013, 146, 26.	4.7	53
144	Comment on "Parent body depth-pressure-temperature relationships and the style of the ureilite anatexis" by P. H. Warren (<i>MAPS</i> 47:209-227). <i>Meteoritics and Planetary Science</i> , 2013, 48, 1096-1106.	1.6	14

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145	Collision and gravitational reaccumulation: Possible formation mechanism of the asteroid Itokawa. <i>Astronomy and Astrophysics</i> , 2013, 554, L1.	5.1	61
146	Temperature shocks at the origin of regolith on asteroids. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 162-162.	0.0	0
147	<i>MarcoPolo-R</i> : Near Earth Asteroid Sample Return Mission candidate as ESA-M3 class mission. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 163-163.	0.0	0
148	Probing the interior of asteroid Apophis: a unique opportunity in 2029. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 481-482.	0.0	0
149	<i>MarcoPolo-R</i> : Near Earth Asteroid Sample Return Mission candidate as ESA-M3 class mission. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 483-483.	0.0	1
150	NEOShield - A global approach to NEO Impact Threat Mitigation. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 478-479.	0.0	0
151	AIDA: Asteroid Impact and Deflection Assessment. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 480-480.	0.0	2
152	Spin-up of rubble-pile asteroids: Disruption, satellite formation, and equilibrium shapes. <i>Icarus</i> , 2012, 220, 514-529.	2.5	114
153	<i>MarcoPolo-R</i> near earth asteroid sample return mission. <i>Experimental Astronomy</i> , 2012, 33, 645-684.	3.7	72
154	SARIM PLUS sample return of comet 67P/CG and of interstellar matter. <i>Experimental Astronomy</i> , 2012, 33, 723-751.	3.7	3
155	An implementation of the soft-sphere discrete element method in a high-performance parallel gravity tree-code. <i>Granular Matter</i> , 2012, 14, 363-380.	2.2	132
156	Numerical simulations of granular dynamics II: Particle dynamics in a shaken granular material. <i>Icarus</i> , 2012, 219, 321-335.	2.5	8
157	Proposal of a Spatial Decision Support System architecture to estimate the consequences and costs of small meteorites impacts. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 3013-3021.	3.6	0
158	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.	8.3	36
159	The Asteroid Veritas: An intruder in a family named after it?. <i>Icarus</i> , 2011, 211, 535-545.	2.5	17
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