

# Francis Nimmo

## List of Publications by Year in descending order

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245  
papers

16,053  
citations

13865

67  
h-index

21540

114  
g-index

255  
all docs

255  
docs citations

255  
times ranked

7099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Timing of Martian core formation from models of Hf/W evolution coupled with N-body simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 295-308.	3.9	5
2	An investigation of libration heating and the thermal state of Enceladus's ice shell. <i>Icarus</i> , 2022, 373, 114769.	2.5	0
3	A note on the possibility of subsurface oceans on the uranian satellites. <i>Icarus</i> , 2022, 373, 114776.	2.5	16
4	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. <i>Experimental Astronomy</i> , 2022, 54, 809-847.	3.7	5
5	Large-scale cryovolcanic resurfacing on Pluto. <i>Nature Communications</i> , 2022, 13, 1542.	12.8	15
6	25 years of planetary surprises. <i>Astronomy and Geophysics</i> , 2022, 63, 2.33-2.37.	0.2	0
7	Geodetic investigations of the mission concept MAGIC to reveal Callisto's internal structure. <i>Acta Astronautica</i> , 2022, 195, 68-76.	3.2	5
8	Thank You to Our 2021 Peer Reviewers. <i>AGU Advances</i> , 2022, 3, .	5.4	0
9	The Tides of Enceladus' Porous Core. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	20
10	InSight Constraints on the Global Character of the Martian Crust. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	45
11	Updated Europa gravity field and interior structure from a reanalysis of Galileo tracking data. <i>Icarus</i> , 2021, 358, 114187.	2.5	24
12	The origin of the Moon's Earth-like tungsten isotopic composition from dynamical and geochemical modeling. <i>Nature Communications</i> , 2021, 12, 35.	12.8	5
13	Heat Flux Constraints From Variance Spectra of Pluto and Charon Using Limb Profile Topography. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006641.	3.6	10
14	Confronting Racism to Advance Our Science. <i>AGU Advances</i> , 2021, 2, e2020AV000296.	5.4	1
15	Thank You to Our 2020 Peer Reviewers. <i>AGU Advances</i> , 2021, 2, e2021AV000426.	5.4	0
16	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75.	3.6	7
17	Oxygen False Positives on Habitable Zone Planets Around Sun-Like Stars. <i>AGU Advances</i> , 2021, 2, e2020AV000294.	5.4	18
18	Forward Modeling of the Phobos Tides and Applications to the First Martian Year of the InSight Mission. <i>Earth and Space Science</i> , 2021, 8, e2021EA001669.	2.6	4

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19	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. Planetary Science Journal, 2021, 2, 137.	3.6	15
20	Improved Determination of Europa's Long-Wavelength Topography Using Stellar Occultations. Earth and Space Science, 2021, 8, e2020EA001586.	2.6	2
21	A Recipe for the Geophysical Exploration of Enceladus. Planetary Science Journal, 2021, 2, 157.	3.6	14
22	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars InSight Mission. Bulletin of the Seismological Society of America, 2021, 111, 2982-3002.	2.3	42
23	Nucleosynthetic Pt isotope anomalies and the Hf-W chronology of core formation in inner and outer solar system planetesimals. Earth and Planetary Science Letters, 2021, 576, 117211.	4.4	27
24	Was Venus Ever Habitable? Constraints from a Coupled Interior-Atmosphere-Redox Evolution Model. Planetary Science Journal, 2021, 2, 216.	3.6	25
25	The Pluto system after New Horizons. , 2020, , 271-288.		9
26	Implications of second-order resonance for the thermal and orbital evolution of Mimas. Monthly Notices of the Royal Astronomical Society, 2020, 492, 369-376.	4.4	3
27	Inclination damping on Callisto. Monthly Notices of the Royal Astronomical Society, 2020, 499, 40-51.	4.4	7
28	Explaining the Galilean Satellites' Density Gradient by Hydrodynamic Escape. Astrophysical Journal Letters, 2020, 897, L43.	8.3	16
29	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. Earth and Space Science, 2020, 7, e2020EA001317.	2.6	75
30	Astronomical context of Solar System formation from molybdenum isotopes in meteorite inclusions. Science, 2020, 370, 837-840.	12.6	27
31	Heat Production and Tidally Driven Fluid Flow in the Permeable Core of Enceladus. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006209.	3.6	18
32	Geophysical Observations of Phobos Transits by InSight. Geophysical Research Letters, 2020, 47, e2020GL089099.	4.0	10
33	A Very Young Age for True Polar Wander on Europa From Related Fracturing. Geophysical Research Letters, 2020, 47, e2020GL088364.	4.0	9
34	Constraints on Thermal History of Mars From Depth of Pore Closure Below InSight. Geophysical Research Letters, 2020, 47, e2020GL088653.	4.0	21
35	The Librations, Tides, and Interior Structure of Io. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006473.	3.6	9
36	Thank You to Our 2019 Reviewers. AGU Advances, 2020, 1, e2020AV000181.	5.4	0

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37	Evidence for a hot start and early ocean formation on Pluto. <i>Nature Geoscience</i> , 2020, 13, 468-472.	12.9	22
38	Solving the puzzle of Enceladus's active south pole. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16107-16108.	7.1	6
39	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	12.9	207
40	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
41	Paleomagnetism indicates that primary magnetite in zircon records a strong Hadean geodynamo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2309-2318.	7.1	46
42	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
43	Geodynamics of Pluto. , 2020, , 1-1.		3
44	Radiogenic Heating and Its Influence on Rocky Planet Dynamos and Habitability. <i>Astrophysical Journal Letters</i> , 2020, 903, L37.	8.3	13
45	Paleomagnetic Evidence for a Partially Differentiated Ordinary Chondrite Parent Asteroid. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1880-1898.	3.6	21
46	Constraints on terrestrial planet formation timescales and equilibration processes in the Grand Tack scenario from Hf-W isotopic evolution. <i>Earth and Planetary Science Letters</i> , 2019, 522, 210-218.	4.4	11
47	Constraints on asteroid magnetic field evolution and the radii of meteorite parent bodies from thermal modelling. <i>Earth and Planetary Science Letters</i> , 2019, 521, 68-78.	4.4	24
48	Tidal dissipation in rubble-pile asteroids. <i>Icarus</i> , 2019, 321, 715-721.	2.5	19
49	The nature and origin of Charon's smooth plains. <i>Icarus</i> , 2019, 323, 16-32.	2.5	26
50	Near-equilibrium isotope fractionation during planetesimal evaporation. <i>Icarus</i> , 2019, 323, 1-15.	2.5	84
51	Young inner core inferred from Ediacaran ultra-low geomagnetic field intensity. <i>Nature Geoscience</i> , 2019, 12, 143-147.	12.9	121
52	Origin of the non-carbonaceous vs carbonaceous meteorite dichotomy. <i>Earth and Planetary Science Letters</i> , 2019, 511, 44-54.	4.4	130
53	Pluto's ocean is capped and insulated by gas hydrates. <i>Nature Geoscience</i> , 2019, 12, 407-410.	12.9	101
54	Variability in Io's Volcanism on Timescales of Periodic Orbital Changes. <i>Geophysical Research Letters</i> , 2019, 46, 6327-6332.	4.0	24

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55	An upper bound on Pluto's heat flux from a lack of flexural response of its normal faults. <i>Icarus</i> , 2019, 328, 210-217.	2.5	11
56	Ferrovulcanism: Iron Volcanism on Metallic Asteroids. <i>Geophysical Research Letters</i> , 2019, 46, 5055-5064.	4.0	19
57	The Topâ€Down Solidification of Iron Asteroids Driving Dynamo Evolution. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1331-1356.	3.6	20
58	Using the density of Kuiper Belt Objects to constrain their composition and formation history. <i>Icarus</i> , 2019, 326, 10-17.	2.5	47
59	Ocean tidal heating in icy satellites with solid shells. <i>Icarus</i> , 2018, 312, 208-230.	2.5	56
60	Implications of the observed Plutoâ€Charon density contrast. <i>Icarus</i> , 2018, 309, 207-219.	2.5	35
61	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
62	Radial mixing and Ruâ€Mo isotope systematics under different accretion scenarios. <i>Earth and Planetary Science Letters</i> , 2018, 482, 105-114.	4.4	19
63	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 20-36.	3.6	9
64	A Geophysical Perspective on the Bulk Composition of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 575-611.	3.6	97
65	A Sharper Picture of the Moon's Bombardment History From Gravity Data. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2244-2247.	3.6	4
66	Dunes on Pluto. <i>Science</i> , 2018, 360, 992-997.	12.6	81
67	Breaking up is hard to do: Global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons. <i>Icarus</i> , 2018, 315, 124-145.	2.5	29
68	Constraints on Lunar Crustal Porosity From the Gravitational Signature of Impact Craters. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2281-2294.	3.6	8
69	Effects of core formation on the Hfâ€W isotopic composition of the Earth and dating of the Moon-forming impact. <i>Earth and Planetary Science Letters</i> , 2018, 499, 257-265.	4.4	21
70	Transforming Dust to Planets. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	12
71	Lunar impact history constrained by GRAIL-derived basin relaxation measurements. <i>Icarus</i> , 2018, 314, 50-63.	2.5	20
72	Basins, fractures and volcanoes: Global cartography and topography of Pluto from New Horizons. <i>Icarus</i> , 2018, 314, 400-433.	2.5	75

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73	Plume Origins and Plumbing (Ocean to Surface). , 2018, , .		14
74	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017, 287, 261-286.	2.5	52
75	Modeling glacial flow on and onto Pluto's Sputnik Planitia. <i>Icarus</i> , 2017, 287, 301-319.	2.5	38
76	Global drainage patterns and the origins of topographic relief on Earth, Mars, and Titan. <i>Science</i> , 2017, 356, 727-731.	12.6	39
77	Charon tectonics. <i>Icarus</i> , 2017, 287, 161-174.	2.5	30
78	Magnesium isotope evidence that accretional vapour loss shapes planetary compositions. <i>Nature</i> , 2017, 549, 511-515.	27.8	129
79	Keeping the ocean warm. <i>Nature Astronomy</i> , 2017, 1, 821-822.	10.1	0
80	Sublimation as a landform-shaping process on Pluto. <i>Icarus</i> , 2017, 287, 320-333.	2.5	51
81	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	2.5	105
82	Interior thermal state of Enceladus inferred from the viscoelastic state of the ice shell. <i>Icarus</i> , 2017, 284, 387-393.	2.5	25
83	Origin of the Pluto-Charon system: Constraints from the New Horizons flyby. <i>Icarus</i> , 2017, 287, 2-11.	2.5	99
84	Impact disruption of gravity-dominated bodies: New simulation data and scaling. <i>Icarus</i> , 2016, 275, 85-96.	2.5	29
85	Tidal dissipation in the lunar magma ocean and its effect on the early evolution of the Earth-Moon system. <i>Icarus</i> , 2016, 275, 132-142.	2.5	55
86	GRAIL, LLR, and LOLA constraints on the interior structure of the Moon. <i>Geophysical Research Letters</i> , 2016, 43, 8365-8375.	4.0	57
87	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	27.8	108
88	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
89	Ocean worlds in the outer solar system. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1378-1399.	3.6	149
90	An early geodynamo driven by exsolution of mantle components from Earth's core. <i>Nature</i> , 2016, 536, 326-328.	27.8	128

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91	Formation of the Orientale lunar multiring basin. <i>Science</i> , 2016, 354, 441-444.	12.6	78
92	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. <i>Science</i> , 2016, 354, 438-441.	12.6	38
93	A test for Io's magma ocean: Modeling tidal dissipation with a partially molten mantle. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2211-2224.	3.6	40
94	Pallasite paleomagnetism: Quiescence of a core dynamo. <i>Earth and Planetary Science Letters</i> , 2016, 441, 103-112.	4.4	26
95	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016, 534, 82-85.	27.8	102
96	New Horizons at Pluto. <i>Nature Geoscience</i> , 2016, 9, 411-412.	12.9	4
97	Effects of mass transfer between Martian satellites on surface geology. <i>Icarus</i> , 2016, 267, 220-231.	2.5	16
98	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
99	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
100	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	12.6	78
101	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
102	Rhea gravity field and interior modeling from Cassini data analysis. <i>Icarus</i> , 2016, 264, 264-273.	2.5	34
103	Magnetic meteorites and the early solar system. <i>Astronomy and Geophysics</i> , 2015, 56, 4.36-4.42.	0.2	4
104	Preimpact porosity controls the gravity signature of lunar craters. <i>Geophysical Research Letters</i> , 2015, 42, 9711-9716.	4.0	50
105	The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. <i>Geophysical Research Letters</i> , 2015, 42, 6939-6944.	4.0	63
106	Channel slope reversal near the Martian dichotomy boundary: Testing tectonic hypotheses. <i>Geomorphology</i> , 2015, 240, 121-136.	2.6	16
107	Lunar impact basins revealed by Gravity Recovery and Interior Laboratory measurements. <i>Science Advances</i> , 2015, 1, e1500852.	10.3	173
108	Seismological implications of a lithospheric low seismic velocity zone in Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 240, 132-141.	1.9	25

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109	The relative timing of Lunar Magma Ocean solidification and the Late Heavy Bombardment inferred from highly degraded impact basin structures. <i>Icarus</i> , 2015, 250, 492-503.	2.5	30
110	Long-lived magnetism from solidification-driven convection on the pallasite parent body. <i>Nature</i> , 2015, 517, 472-475.	27.8	68
111	Disruption and reaccretion of midsized moons during an outer solar system Late Heavy Bombardment. <i>Geophysical Research Letters</i> , 2015, 42, 256-263.	4.0	24
112	A Hadean to Paleoproterozoic geodynamo recorded by single zircon crystals. <i>Science</i> , 2015, 349, 521-524.	12.6	207
113	Fast grain growth of olivine in liquid Fe-S and the formation of pallasites with rounded olivine grains. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 259-275.	3.9	15
114	Thermal and Compositional Evolution of the Core. , 2015, , 201-219.		33
115	Tidal resonance in icy satellites with subsurface oceans. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1528-1542.	3.6	35
116	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
117	Timing of water plume eruptions on Enceladus explained by interior viscosity structure. <i>Nature Geoscience</i> , 2015, 8, 601-604.	12.9	41
118	Accretion and differentiation of the terrestrial planets with implications for the compositions of early-formed Solar System bodies and accretion of water. <i>Icarus</i> , 2015, 248, 89-108.	2.5	328
119	Elastic thickness and heat flux estimates for the uranian satellite Ariel. <i>Icarus</i> , 2015, 250, 116-122.	2.5	22
120	Powering Triton's recent geological activity by obliquity tides: Implications for Pluto geology. <i>Icarus</i> , 2015, 246, 2-10.	2.5	61
121	Bulk chemical and Hf-W isotopic consequences of incomplete accretion during planet formation. <i>Icarus</i> , 2015, 245, 145-152.	2.5	24
122	Enceladus. , 2014, , 851-859.		0
123	Science goals and mission concept for the future exploration of Titan and Enceladus. <i>Planetary and Space Science</i> , 2014, 104, 59-77.	1.7	15
124	Orbital apocenter is not a sufficient condition for HST/STIS detection of Europa's water vapor aurora. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5123-32.	7.1	65
125	The Gravity Field and Interior Structure of Enceladus. <i>Science</i> , 2014, 344, 78-80.	12.6	339
126	Transient Water Vapor at Europa's South Pole. <i>Science</i> , 2014, 343, 171-174.	12.6	401



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127	The tidalâ€“rotational shape of the Moon and evidence for polar wander. <i>Nature</i> , 2014, 512, 181-184.	27.8	55
128	GRAIL gravity constraints on the vertical and lateral density structure of the lunar crust. <i>Geophysical Research Letters</i> , 2014, 41, 5771-5777.	4.0	126
129	Decline of the lunar core dynamo. <i>Earth and Planetary Science Letters</i> , 2014, 404, 89-97.	4.4	62
130	HOW THE GEYSERS, TIDAL STRESSES, AND THERMAL EMISSION ACROSS THE SOUTH POLAR TERRAIN OF ENCELADUS ARE RELATED. <i>Astronomical Journal</i> , 2014, 148, 45.	4.7	129
131	TIDALLY MODULATED ERUPTIONS ON ENCELADUS: CASSINI ISS OBSERVATIONS AND MODELS. <i>Astronomical Journal</i> , 2014, 148, 46.	4.7	66
132	Tidal heating in icy satellite oceans. <i>Icarus</i> , 2014, 229, 11-30.	2.5	97
133	Planetary Reorientation. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 605-634.	11.0	30
134	Lunar interior properties from the GRAIL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1546-1578.	3.6	185
135	New clues on the interior of Titan from its rotation state. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 17-20.	0.0	4
136	A rigid and weathered ice shell on Titan. <i>Nature</i> , 2013, 500, 550-552.	27.8	71
137	Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. <i>Science</i> , 2013, 339, 675-678.	12.6	177
138	The Crust of the Moon as Seen by GRAIL. <i>Science</i> , 2013, 339, 671-675.	12.6	726
139	The influence of imperfect accretion and radial mixing on ice:rock ratios in the Galilean satellites. <i>Icarus</i> , 2013, 225, 390-402.	2.5	18
140	Flexure on Dione: Investigating subsurface structure and thermal history. <i>Icarus</i> , 2013, 223, 418-422.	2.5	29
141	Enceladus: An Active Ice World in the Saturn System. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 693-717.	11.0	142
142	Convectionâ€“driven compaction as a possible origin of Enceladus's long wavelength topography. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 908-915.	3.6	40
143	Dissipation at tidal and seismic frequencies in a meltâ€“free, anhydrousâ€“Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2558-2569.	3.6	43
144	Evidence for a Dynamo in the Main Group Pallasite Parent Body. <i>Science</i> , 2012, 338, 939-942.	12.6	108

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145	Dissipation at tidal and seismic frequencies in a melt-free Moon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
146	Late-stage impacts and the orbital and thermal evolution of Tethys. <i>Icarus</i> , 2012, 218, 348-355.	2.5	11
147	Impact-driven ice loss in outer Solar System satellites: Consequences for the Late Heavy Bombardment. <i>Icarus</i> , 2012, 219, 508-510.	2.5	44
148	Evidence of a Global Magma Ocean in Io's Interior. <i>Science</i> , 2011, 332, 1186-1189.	12.6	115
149	Role of impact excavation in distributing clays over Noachian surfaces. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
150	Reorientation of Vesta: Gravity and tectonic predictions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	8
151	Geophysical implications of the long-wavelength topography of the Saturnian satellites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	59
152	Heterogeneous accretion, composition and core-mantle differentiation of the Earth. <i>Earth and Planetary Science Letters</i> , 2011, 301, 31-42.	4.4	352
153	HUBBLE SPACE TELESCOPE/ADVANCED CAMERA FOR SURVEYS OBSERVATIONS OF EUROPA'S ATMOSPHERIC ULTRAVIOLET EMISSION AT EASTERN ELONGATION. <i>Astrophysical Journal</i> , 2011, 738, 153.	4.5	34
154	Obliquity tides do not significantly heat Enceladus. <i>Icarus</i> , 2011, 214, 779-781.	2.5	55
155	Thermal evolution of Pluto and implications for surface tectonics and a subsurface ocean. <i>Icarus</i> , 2011, 216, 426-439.	2.5	85
156	Forced obliquities and moments of inertia of Ceres and Vesta. <i>Icarus</i> , 2011, 213, 496-509.	2.5	23
157	Five new and three improved mutual orbits of transneptunian binaries. <i>Icarus</i> , 2011, 213, 678-692.	2.5	64
158	Constraints on martian lobate debris apron evolution and rheology from numerical modeling of ice flow. <i>Icarus</i> , 2011, 214, 246-257.	2.5	24
159	Rotational dynamics and internal structure of Titan. <i>Icarus</i> , 2011, 214, 351-355.	2.5	41
160	Impact basin relaxation at Iapetus. <i>Icarus</i> , 2011, 214, 82-90.	2.5	23
161	A long-lived lunar dynamo driven by continuous mechanical stirring. <i>Nature</i> , 2011, 479, 212-214.	27.8	138
162	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Science Reviews</i> , 2010, 153, 375-410.	8.1	19

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163	Martian post-impact hydrothermal systems incorporating freezing. <i>Icarus</i> , 2010, 208, 101-117.	2.5	57
164	Shell thickness variations and the long-wavelength topography of Titan. <i>Icarus</i> , 2010, 208, 896-904.	2.5	87
165	The role of episodic overturn in generating the surface geology and heat flow on Enceladus. <i>Nature Geoscience</i> , 2010, 3, 88-91.	12.9	67
166	Numerical modeling of Martian gully sediment transport: Testing the fluvial hypothesis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
167	Geophysical implications of the long-wavelength topography of Rhea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
168	Structure and Formation of the Lunar Farside Highlands. <i>Science</i> , 2010, 330, 949-951.	12.6	45
169	Tungsten isotopic evolution during late-stage accretion: Constraints on Earth's Moon equilibration. <i>Earth and Planetary Science Letters</i> , 2010, 292, 363-370.	4.4	57
170	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Sciences Series of ISSI</i> , 2010, , 373-408.	0.0	1
171	The tectonics of Mercury. , 2009, , 15-80.		13
172	Mars's rotating shell. <i>Nature Geoscience</i> , 2009, 2, 7-8.	12.9	3
173	Recent orbital evolution and the internal structures of Enceladus and Dione. <i>Icarus</i> , 2009, 204, 597-609.	2.5	37
174	Hf-W chronology of the accretion and early evolution of asteroids and terrestrial planets. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5150-5188.	3.9	521
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