

Nick Thomas

List of Publications by Year in descending order

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201
papers

10,727
citations

36303

51
h-index

36028

97
g-index

235
all docs

235
docs citations

235
times ranked

4327
citing authors

#	ARTICLE	IF	CITATIONS
1	Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	1,253
2	Seasonal Flows on Warm Martian Slopes. <i>Science</i> , 2011, 333, 740-743.	12.6	451
3	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044.	12.6	366
4	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. <i>Science</i> , 2015, 347, aaa3905.	12.6	310
5	OSIRIS – The Scientific Camera System Onboard Rosetta. <i>Space Science Reviews</i> , 2007, 128, 433-506.	8.1	286
6	Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters. <i>Science</i> , 2009, 325, 1674-1676.	12.6	279
7	The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440.	12.6	259
8	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. <i>Icarus</i> , 2016, 277, 257-278.	2.5	252
9	Observations of Comet 19P/Borrelly by the Miniature Integrated Camera and Spectrometer Aboard Deep Space 1. <i>Science</i> , 2002, 296, 1087-1091.	12.6	208
10	Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko – Stereo-photogrammetric analysis of Rosetta/OSIRIS image data. <i>Astronomy and Astrophysics</i> , 2015, 583, A33.	5.1	188
11	Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft. <i>Astronomy and Astrophysics</i> , 2015, 583, A30.	5.1	188
12	Images of Asteroid 21 Lutetia: A Remnant Planetesimal from the Early Solar System. <i>Science</i> , 2011, 334, 487-490.	12.6	179
13	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	5.1	173
14	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 592, A63.	5.1	159
15	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66.	27.8	158
16	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26.	5.1	153
17	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17.	5.1	149
18	Two independent and primitive envelopes of the bilobate nucleus of comet 67P. <i>Nature</i> , 2015, 526, 402-405.	27.8	141

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19	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. <i>Science</i> , 2020, 367, .	12.6	115
20	Gravitational slopes, geomorphology, and material strengths of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A32.	5.1	113
21	Optical properties of the Martian aerosols as derived from Imager for Mars Pathfinder midday sky brightness data. <i>Journal of Geophysical Research</i> , 1999, 104, 9009-9017.	3.3	112
22	Summer fireworks on comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S184-S194.	4.4	112
23	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. <i>Space Science Reviews</i> , 2017, 212, 1897-1944.	8.1	111
24	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371.	4.4	111
25	Observations of periglacial landforms in Utopia Planitia with the High Resolution Imaging Science Experiment (HiRISE). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	110
26	Observations of the northern seasonal polar cap on Mars: I. Spring sublimation activity and processes. <i>Icarus</i> , 2013, 225, 881-897.	2.5	109
27	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 607, L1.	5.1	107
28	The morphology and surface processes of Comet 19/P Borrelly. <i>Icarus</i> , 2004, 167, 45-53.	2.5	102
29	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 587, A14.	5.1	102
30	The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. <i>Nature Astronomy</i> , 2017, 1, .	10.1	100
31	OSIRIS observations of meter-sized exposures of H ₂ O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. <i>Astronomy and Astrophysics</i> , 2015, 583, A25.	5.1	97
32	Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. <i>Science</i> , 2016, 354, 1566-1570.	12.6	97
33	Color imaging of Mars by the High Resolution Imaging Science Experiment (HiRISE). <i>Icarus</i> , 2010, 205, 38-52.	2.5	89
34	Cometary Dust. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
35	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. <i>Astronomy and Astrophysics</i> , 2016, 593, A110.	5.1	86
36	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: I. Erosion of the surface. <i>Icarus</i> , 2010, 205, 283-295.	2.5	84

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37	The BepiColombo Laser Altimeter (BELA): Concept and baseline design. <i>Planetary and Space Science</i> , 2007, 55, 1398-1413.	1.7	80
38	BepiColombo - Mission Overview and Science Goals. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	76
39	Sublimation of water ice mixed with silicates and tholins: Evolution of surface texture and reflectance spectra, with implications for comets. <i>Icarus</i> , 2016, 267, 154-173.	2.5	73
40	Preliminary results on photometric properties of materials at the Sagan Memorial Station, Mars. <i>Journal of Geophysical Research</i> , 1999, 104, 8809-8830.	3.3	71
41	Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178.	4.0	71
42	Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46.	5.1	67
43	Detection of exposed H ₂ O ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 595, A102.	5.1	67
44	HiRISE observations of gas sublimation-driven activity in Mars' southern polar regions: II. Surficial deposits and their origins. <i>Icarus</i> , 2010, 205, 296-310.	2.5	63
45	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	12.6	63
46	Dust-to-Gas and Refractory-to-Ice Mass Ratios of Comet 67P/Churyumov-Gerasimenko from Rosetta Observations. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	61
47	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36.	5.1	60
48	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35.	5.1	59
49	The geomorphology of (21) Lutetia: Results from the OSIRIS imaging system onboard ESA's Rosetta spacecraft. <i>Planetary and Space Science</i> , 2012, 66, 96-124.	1.7	58
50	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7.	5.1	55
51	Spectral heterogeneity on Phobos and Deimos: HiRISE observations and comparisons to Mars Pathfinder results. <i>Planetary and Space Science</i> , 2011, 59, 1281-1292.	1.7	53
52	Comet 67P/Churyumov-Gerasimenko: Constraints on its origin from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A44.	5.1	53
53	Modelling observations of the inner gas and dust coma of comet 67P/Churyumov-Gerasimenko using ROSINA/COPS and OSIRIS data: First results. <i>Astronomy and Astrophysics</i> , 2016, 589, A90.	5.1	53
54	Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S78-S88.	4.4	52

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55	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	4.0	48
56	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	47
57	Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. Monthly Notices of the Royal Astronomical Society, 2017, 469, s606-s625.	4.4	45
58	The scattering phase function of comet 67P/Churyumovâ€Gerasimenko coma as seen from the Rosetta/OSIRIS instrument. Monthly Notices of the Royal Astronomical Society, 2017, 469, S404-S415.	4.4	44
59	The cratering history of asteroid (21) Lutetia. Planetary and Space Science, 2012, 66, 87-95.	1.7	43
60	Seasonal erosion and restoration of the dust cover on comet 67P/Churyumov-Gerasimenko as observed by OSIRIS onboard Rosetta. Astronomy and Astrophysics, 2017, 604, A114.	5.1	43
61	Dust mass distribution around comet 67P/Churyumovâ€Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. Monthly Notices of the Royal Astronomical Society, 2017, 469, S276-S284.	4.4	43
62	Variation of comet 67P/Churyumov-Gerasimenko in regions showing activity. Astronomy and Astrophysics, 2016, 586, A80.	5.1	43
63	Geological map and stratigraphy of asteroid 21 Lutetia. Planetary and Space Science, 2012, 66, 125-136.	1.7	42
64	Thermal inertia and roughness of the nucleus of comet 67P/Churyumovâ€Gerasimenko from MIRO and VIRTIS observations. Astronomy and Astrophysics, 2018, 616, A122.	5.1	42
65	Geomorphology and spectrophotometry of Philaeâ€™s landing site on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A41.	5.1	41
66	The pebbles/boulders size distributions on Sais: Rosettaâ€™s final landing site on comet 67P/Churyumovâ€Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S636-S645.	4.4	40
67	Tensile strength of 67P/Churyumovâ€Gerasimenko nucleus material from overhangs. Astronomy and Astrophysics, 2018, 611, A33.	5.1	40
68	Large-scale dust jets in the coma of 67P/Churyumov-Gerasimenko as seen by the OSIRIS instrument onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A9.	5.1	39
69	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. Monthly Notices of the Royal Astronomical Society, 2017, 469, S295-S311.	4.4	39
70	The northern hemisphere of asteroid (21) Lutetiaâ€™s topography and orthoimages from Rosetta OSIRIS NAC image data. Planetary and Space Science, 2012, 66, 54-63.	1.7	36
71	Photometric properties of Mars soils analogs. Journal of Geophysical Research E: Planets, 2013, 118, 2045-2072.	3.6	36
72	VISâ€NIR reflectance of water ice/regolith analogue mixtures and implications for the detectability of ice mixed within planetary regoliths. Geophysical Research Letters, 2015, 42, 6205-6212.	4.0	36

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73	Sublimation of iceâ€“tholins mixtures: A morphological and spectro-photometric study. <i>Icarus</i> , 2016, 266, 288-305.	2.5	35
74	Morphological and Spectral Diversity of the Clay-Bearing Unit at the ExoMars Landing Site Oxia Planum. <i>Astrobiology</i> , 2021, 21, 464-480.	3.0	35
75	Observations of Phobos, Deimos, and bright stars with the Imager for Mars Pathfinder. <i>Journal of Geophysical Research</i> , 1999, 104, 9055-9068.	3.3	34
76	Rosetta Radio Science Investigations (RSI). <i>Space Science Reviews</i> , 2007, 128, 599-627.	8.1	34
77	CAMAM: A Miniature Laser Ablation Ionisation Mass Spectrometer and Microscopeâ€“Camera System for <i>In Situ</i> Investigation of the Composition and Morphology of Extraterrestrial Materials. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 441-466.	3.1	34
78	Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 588, L3.	5.1	34
79	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. <i>Astronomy and Astrophysics</i> , 2015, 583, A11.	5.1	33
80	Constraints on cometary surface evolution derived from a statistical analysis of 67Pâ€™s topography. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S329-S338.	4.4	33
81	Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 301, 173-188.	2.5	33
82	Regional unit definition for the nucleus of comet 67P/Churyumov-Gerasimenko on the SHAP7 model. <i>Planetary and Space Science</i> , 2018, 164, 19-36.	1.7	32
83	The highly active Anhurâ€“Bes regions in the 67P/Churyumovâ€“Gerasimenko comet: results from OSIRIS/ROSETTA observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S93-S107.	4.4	30
84	The Dust-to-Gas Ratio, Size Distribution, and Dust Fall-Back Fraction of Comet 67P/Churyumov-Gerasimenko: Inferences From Linking the Optical and Dynamical Properties of the Inner Comae. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	30
85	The Holy Grail: A road map for unlocking the climate record stored within Marsâ€™ polar layered deposits. <i>Planetary and Space Science</i> , 2020, 184, 104841.	1.7	30
86	Polygonal cracks in the seasonal semiâ€“translucent CO ₂ ice layer in Martian polar areas. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
87	Overview of Lutetia's surface composition. <i>Planetary and Space Science</i> , 2012, 66, 23-30.	1.7	29
88	A porosity gradient in 67P/C-G nucleus suggested from CONSERT and SESAME-PP results: an interpretation based on new laboratory permittivity measurements of porous icy analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S89-S98.	4.4	29
89	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	29
90	Surface Morphology of Comets and Associated Evolutionary Processes: A Review of Rosettaâ€™s Observations of 67P/Churyumovâ€“Gerasimenko. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	28

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91	Implications for the origin and evolution of Martian Recurring Slope Lineae at Hale crater from CaSSIS observations. <i>Planetary and Space Science</i> , 2020, 187, 104947.	1.7	28
92	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: IV. Fluid dynamics models of CO ₂ jets. <i>Icarus</i> , 2011, 212, 66-85.	2.5	27
93	Geologic mapping of the Comet 67P/Churyumov-Gerasimenko's Northern hemisphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S352-S367.	4.4	27
94	PITS FORMATION FROM VOLATILE OUTGASSING ON 67P/CHURYUMOV-GERASIMENKO. <i>Astrophysical Journal Letters</i> , 2015, 814, L5.	8.3	26
95	The SCITEAS experiment: Optical characterizations of sublimating icy planetary analogues. <i>Planetary and Space Science</i> , 2015, 109-110, 106-122.	1.7	26
96	Decimetre-scaled spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S287-S303.	4.4	26
97	Cliffs versus plains: Can ROSINA/COPS and OSIRIS data of comet 67P/Churyumov-Gerasimenko in autumn 2014 constrain inhomogeneous outgassing?. <i>Astronomy and Astrophysics</i> , 2017, 605, A112.	5.1	26
98	Timescales of the Climate Record in the South Polar Ice Cap of Mars. <i>Geophysical Research Letters</i> , 2019, 46, 7268-7277.	4.0	26
99	Geodesy, Geophysics and Fundamental Physics Investigations of the BepiColombo Mission. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	25
100	Long-term survival of surface water ice on comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S582-S597.	4.4	24
101	Thermal fracturing on comets. <i>Astronomy and Astrophysics</i> , 2018, 610, A76.	5.1	24
102	Osiris-The optical, spectroscopic and infrared remote imaging system for the Rosetta Orbiter. <i>Advances in Space Research</i> , 1998, 21, 1505-1515.	2.6	23
103	A Laser Altimeter Performance Model and Its Application to BELA. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 3308-3319.	6.3	23
104	Numerical thermal mathematical model correlation to thermal balance test using adaptive particle swarm optimization (APSO). <i>Applied Thermal Engineering</i> , 2012, 38, 168-174.	6.0	23
105	Sublimation of icy aggregates in the coma of comet 67P/Churyumov-Gerasimenko detected with the OSIRIS cameras on board Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S57-S66.	4.4	23
106	Geomorphological mapping of comet 67P/Churyumov-Gerasimenko's Southern hemisphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S573-S592.	4.4	23
107	Experimental characterization of the opposition surge in fine-grained water ice and high albedo ice analogs. <i>Icarus</i> , 2016, 264, 109-131.	2.5	23
108	Comparative study of the surface roughness of the Moon, Mars and Mercury. <i>Planetary and Space Science</i> , 2012, 73, 287-293.	1.7	22

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109	Physical properties and dynamical relation of the circular depressions on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 591, A132.	5.1	22
110	A three-dimensional modelling of the layered structure of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S741-S754.	4.4	22
111	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 311, 1-22.	2.5	21
112	Spectrophotometry of the Khonsu region on the comet 67P/Churyumov-Gerasimenko using OSIRIS instrument images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S274-S286.	4.4	20
113	Evidence for geologic processes on comets. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2194-2210.	3.6	20
114	A comparison of multiple Rosetta data sets and 3D model calculations of 67P/Churyumov-Gerasimenko coma around equinox (May 2015). <i>Icarus</i> , 2019, 328, 104-126.	2.5	20
115	Polarimetry of Water Ice Particles Providing Insights on Grain Size and Degree of Sintering on Icy Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2564-2584.	3.6	19
116	CASTAway: An asteroid main belt tour and survey. <i>Advances in Space Research</i> , 2018, 62, 1998-2025.	2.6	18
117	Constraining models of activity on comet 67P/Churyumov-Gerasimenko with Rosetta trajectory, rotation, and water production measurements. <i>Astronomy and Astrophysics</i> , 2019, 630, A18.	5.1	18
118	An integrated exobiology package for the search for life on Mars. <i>Advances in Space Research</i> , 1999, 23, 301-308.	2.6	17
119	Retrieving optical depth from shadows in orbiter images of Mars. <i>Icarus</i> , 2011, 214, 447-461.	2.5	17
120	Space-qualified laser system for the BepiColombo Laser Altimeter. <i>Applied Optics</i> , 2013, 52, 8732.	1.8	17
121	Characterization of the permittivity of controlled porous water ice-dust mixtures to support the radar exploration of icy bodies. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2426-2443.	3.6	17
122	Single Image Super-Resolution Restoration of TGO CaSSIS Colour Images: Demonstration with Perseverance Rover Landing Site and Mars Science Targets. <i>Remote Sensing</i> , 2021, 13, 1777.	4.0	17
123	The geography of Oxia Planum. <i>Journal of Maps</i> , 2021, 17, 621-637.	2.0	16
124	Sub-surface CO ₂ gas flow in Mars' polar regions: Gas transport under constant production rate conditions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	15
125	The Agilkia boulders/pebbles size-frequency distributions: OSIRIS and ROLIS joint observations of 67P surface. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S242-S252.	4.4	15
126	Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36.	5.1	15

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127	The BepiColombo Laser Altimeter. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	15
128	Thermal analysis of a reflective baffle designed for space applications. <i>Acta Astronautica</i> , 2011, 69, 323-334.	3.2	14
129	Optical depth of the Martian atmosphere and surface albedo from high-resolution orbiter images. <i>Planetary and Space Science</i> , 2012, 60, 287-296.	1.7	14
130	Lutetia's lineaments. <i>Planetary and Space Science</i> , 2014, 101, 186-195.	1.7	13
131	Towards New Comet Missions. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	13
132	The Ganymede laser altimeter (GALA): key objectives, instrument design, and performance. <i>CEAS Space Journal</i> , 2019, 11, 381-390.	2.3	13
133	3DPD: A photogrammetric pipeline for a PUSH frame stereo cameras. <i>Planetary and Space Science</i> , 2021, 198, 105165.	1.7	13
134	Loss of the Surface Layers of Comet Nuclei. <i>Space Science Reviews</i> , 2008, 138, 165-177.	8.1	12
135	BELA receiver performance modeling over the BepiColombo mission lifetime. <i>Planetary and Space Science</i> , 2010, 58, 309-318.	1.7	12
136	Observations of the northern seasonal polar cap on Mars II: HiRISE photometric analysis of evolution of northern polar dunes in spring. <i>Icarus</i> , 2013, 225, 898-910.	2.5	12
137	Permittivity measurements of porous matter in support of investigations of the surface and interior of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A39.	5.1	12
138	3D Direct Simulation Monte Carlo Modelling of the Inner Gas Coma of Comet 67P/Churyumov-Gerasimenko: A Parameter Study. <i>Earth, Moon and Planets</i> , 2016, 117, 41-64.	0.6	12
139	Gas flow in near surface comet like porous structures: Application to 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2018, 161, 57-67.	1.7	12
140	Rapid Single Image-Based DTM Estimation from ExoMars TGO CaSSIS Images Using Generative Adversarial U-Nets. <i>Remote Sensing</i> , 2021, 13, 2877.	4.0	12
141	Opposition effect on comet 67P/Churyumov-Gerasimenko using Rosetta-OSIRIS images. <i>Astronomy and Astrophysics</i> , 2017, 599, A11.	5.1	11
142	Multivariate statistical analysis of OSIRIS/Rosetta spectrophotometric data of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 600, A115.	5.1	11
143	Water vapor deposition from the inner gas coma onto the nucleus of Comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2018, 157, 1-9.	1.7	11
144	A laboratory-based dielectric model for the radar sounding of the martian subsurface. <i>Icarus</i> , 2019, 321, 960-973.	2.5	11

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145	Ultra-High-Resolution 1 m/pixel CaSSIS DTM Using Super-Resolution Restoration and Shape-from-Shading: Demonstration over Oxia Planum on Mars. <i>Remote Sensing</i> , 2021, 13, 2185.	4.0	11
146	The influence of recent major crater impacts on the surrounding surfaces of (21) Lutetia. <i>Icarus</i> , 2013, 226, 89-100.	2.5	10
147	On-Ground Performance and Calibration of the ExoMars Trace Gas Orbiter CaSSIS Imager. <i>Space Science Reviews</i> , 2017, 212, 1871-1896.	8.1	10
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