

Luisa MarÃ-a Lara

List of Publications by Year in descending order

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222
papers

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25034

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234
docs citations

234
times ranked

4939
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044.	12.6	366
2	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. <i>Science</i> , 2015, 347, aaa3905.	12.6	310
3	Vertical distribution of Titan's atmospheric neutral constituents. <i>Journal of Geophysical Research</i> , 1996, 101, 23261-23283.	3.3	300
4	OSIRIS – The Scientific Camera System Onboard Rosetta. <i>Space Science Reviews</i> , 2007, 128, 433-506.	8.1	286
5	The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440.	12.6	259
6	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
7	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
8	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
9	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
10	Images of Asteroid 21 Lutetia: A Remnant Planetesimal from the Early Solar System. <i>Science</i> , 2011, 334, 487-490.	12.6	179
11	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	5.1	173
12	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	5.1	173
13	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 592, A63.	5.1	159
14	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66.	27.8	158
15	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOV – GERASIMENKO FROM 2.2 au TO PERIHELION. <i>Astrophysical Journal</i> , 2016, 821, 19.	4.5	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	A large dust/ice ratio in the nucleus of comet 9P/Tempel 1. <i>Nature</i> , 2005, 437, 987-990.	27.8	141

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19	Two independent and primitive envelopes of the bilobate nucleus of comet 67P. <i>Nature</i> , 2015, 526, 402-405.	27.8	141
20	A Coupled Model of Titan's Atmosphere and Ionosphere. <i>Icarus</i> , 2000, 147, 386-404.	2.5	124
21	E-Type Asteroid (2867) Steins as Imaged by OSIRIS on Board Rosetta. <i>Science</i> , 2010, 327, 190-193.	12.6	120
22	Detection of He I 10830 Å absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 620, A97.	5.1	120
23	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
24	Summer fireworks on comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S184-S194.	4.4	112
25	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
26	Size-frequency distribution of boulders 7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37.	5.1	108
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 CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	5.1	103
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	<i>EPOXI</i> : COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2011, 734, L1.	8.3	96
33	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	5.1	95
34	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
35	Ionized calcium in the atmospheres of two ultra-hot exoplanets WASP-33b and KELT-9b. <i>Astronomy and Astrophysics</i> , 2019, 632, A69.	5.1	85
36	Deep Impact Observations by OSIRIS Onboard the Rosetta Spacecraft. <i>Science</i> , 2005, 310, 281-283.	12.6	82

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37	The rotation state of 67P/Churyumov-Gerasimenko from approach observations with the OSIRIS cameras on Rosetta. <i>Astronomy and Astrophysics</i> , 2014, 569, L2.	5.1	81
38	He I λ 10830 Å in the transmission spectrum of HD209458 b. <i>Astronomy and Astrophysics</i> , 2019, 629, A110.	5.1	81
39	The BepiColombo Laser Altimeter (BELA): Concept and baseline design. <i>Planetary and Space Science</i> , 2007, 55, 1398-1413.	1.7	80
40	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	12.6	78
41	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
42	MarcoPolo-R near earth asteroid sample return mission. <i>Experimental Astronomy</i> , 2012, 33, 645-684.	3.7	72
43	Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178.	4.0	71
44	Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46.	5.1	67
45	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
46	A He I upper atmosphere around the warm Neptune GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2020, 638, A61.	5.1	65
47	(596) SCHEILA IN OUTBURST: A PROBABLE COLLISION EVENT IN THE MAIN ASTEROID BELT. <i>Astrophysical Journal</i> , 2011, 738, 130.	4.5	65
48	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	12.6	63
49	The abundance, vertical distribution and origin of H ₂ O in Titan's atmosphere: Herschel observations and photochemical modelling. <i>Icarus</i> , 2012, 221, 753-767.	2.5	61
50	First results of Herschel-PACS observations of Neptune. <i>Astronomy and Astrophysics</i> , 2010, 518, L152.	5.1	60
51	Trans-Neptunian Objects are Cool: A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L148.	5.1	60
52	67P/Churyumov-Gerasimenko: Activity between March and June 2014 as observed from Rosetta/OSIRIS. <i>Astronomy and Astrophysics</i> , 2015, 573, A62.	5.1	60
53	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36.	5.1	60
54	The 2016 Feb 19 outburst of comet 67P/CG: an ESA Rosetta multi-instrument study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S220-S234.	4.4	60

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55	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35.	5.1	59
56	CARMENES: an overview six months after first light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	59
57	ALMA Discovery of Dust Belts around Proxima Centauri. <i>Astrophysical Journal Letters</i> , 2017, 850, L6.	8.3	59
58	Water and related chemistry in the solar system. A guaranteed time key programme for Herschel. <i>Planetary and Space Science</i> , 2009, 57, 1596-1606.	1.7	58
59	Photochemical Models of Pluto's Atmosphere. <i>Icarus</i> , 1997, 130, 16-35.	2.5	57
60	<i>Herschel</i> /HIFI observations of Mars: First detection of O ₂ at submillimetre wavelengths and upper limits on HCl and H ₂ O ₂ . <i>Astronomy and Astrophysics</i> , 2010, 521, L49.	5.1	57
61	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. <i>Astronomy and Astrophysics</i> , 2019, 621, A74.	5.1	57
62	Liquids and solids on the surface of Titan: results of a new photochemical model. <i>Planetary and Space Science</i> , 1994, 42, 5-14.	1.7	56
63	TNOs are Cool: A Survey of the Transneptunian Region. <i>Earth, Moon and Planets</i> , 2009, 105, 209-219.	0.6	55
64	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7.	5.1	55
65	Comet 67P/Churyumov-Gerasimenko: Constraints on its origin from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A44.	5.1	53
66	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. <i>Astronomy and Astrophysics</i> , 2016, 592, A69.	5.1	53
67	Chemistry of the galactic cosmic ray induced ionosphere of Titan. <i>Journal of Geophysical Research</i> , 1999, 104, 21997-22024.	3.3	52
68	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
69	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L147.	5.1	51
70	Electric properties and related physical characteristics of the atmosphere and surface of Titan. <i>Planetary and Space Science</i> , 2006, 54, 1124-1136.	1.7	49
71	Modelling the He I triplet absorption at 10 830 Å in the atmosphere of HD 209458 b. <i>Astronomy and Astrophysics</i> , 2020, 636, A13.	5.1	49
72	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L146.	5.1	48

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73	High-Resolution 10-micronmeter Spectroscopy of Ammonia and Phosphine Lines on Jupiter. <i>Icarus</i> , 1998, 131, 317-333.	2.5	47
74	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
75	Title is missing!. <i>Earth, Moon and Planets</i> , 1997, 77, 167-180.	0.6	46
76	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, L5.	5.1	46
77	Ablation and chemistry of meteoric materials in the atmosphere of Titan. <i>Advances in Space Research</i> , 1996, 17, 157-160.	2.6	45
78	Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, s606-s625.	4.4	45
79	Water vapor detection in the transmission spectra of HD 209458 b with the CARMENES NIR channel. <i>Astronomy and Astrophysics</i> , 2019, 630, A53.	5.1	45
80	Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1. <i>Icarus</i> , 2011, 213, 345-368.	2.5	44
81	The scattering phase function of comet 67P/Churyumov-Gerasimenko coma as seen from the Rosetta/OSIRIS instrument. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S404-S415.	4.4	44
82	Seasonal erosion and restoration of the dust cover on comet 67P/Churyumov-Gerasimenko as observed by OSIRIS onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2017, 604, A114.	5.1	43
83	Dust mass distribution around comet 67P/Churyumov-Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S276-S284.	4.4	43
84	Variegation of comet 67P/Churyumov-Gerasimenko in regions showing activity. <i>Astronomy and Astrophysics</i> , 2016, 586, A80.	5.1	43
85	Geomorphology and spectrophotometry of Philae's landing site on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A41.	5.1	41
86	First detection of hydrogen isocyanide (HNC) in Titan's atmosphere. <i>Astronomy and Astrophysics</i> , 2011, 536, L12.	5.1	40
87	The pebbles/boulders size distributions on Sais: Rosetta's final landing site on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S636-S645.	4.4	40
88	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33.	5.1	40
89	Large-scale dust jets in the coma of 67P/Churyumov-Gerasimenko as seen by the OSIRIS instrument onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2015, 583, A9.	5.1	39
90	The dust environment of comet 67P/Churyumov-Gerasimenko from Rosetta OSIRIS and VLT observations in the 4.5 to 2.9 AU heliocentric distance range inbound. <i>Astronomy and Astrophysics</i> , 2016, 587, A155.	5.1	39

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91	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S295-S311.	4.4	39
92	THE DUST ENVIRONMENT OF MAIN-BELT COMET P/2010 R2 (LA SAGRA). <i>Astrophysical Journal Letters</i> , 2011, 738, L16.	8.3	38
93	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
94	Properties of the dust cloud caused by the Deep Impact experiment. <i>Icarus</i> , 2007, 187, 208-219.	2.5	36
95	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
96	CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOVâ€“GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. <i>Astronomical Journal</i> , 2016, 152, 130.	4.7	36
97	A study of the distant activity of comet C/2006ÂW3Â(Christensen) with<i>Herschel</i> and ground-based radio telescopes. <i>Astronomy and Astrophysics</i> , 2010, 518, L149.	5.1	35
98	Exploring the nature of new main-belt comets with the 10.4Âm GTC telescope: (300163) 2006 VW139. <i>Astronomy and Astrophysics</i> , 2013, 550, A17.	5.1	35
99	<i>Herschel</i>/PACS spectroscopy of trace gases of the stratosphere of Titan. <i>Astronomy and Astrophysics</i> , 2014, 561, A4.	5.1	35
100	Near-infrared spectroscopy of the nucleus of comet 124P/Mrkos. <i>Astronomy and Astrophysics</i> , 2003, 398, L45-L48.	5.1	34
101	Dust in Comet 67P/Churyumovâ€“Gerasimenko. <i>Astrophysical Journal</i> , 2004, 613, 1263-1269.	4.5	34
102	Gas outflow and dust transport of comet 67P/Churyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S533-S546.	4.4	34
103	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
104	Pre-impact monitoring of Comet 9P/Tempel 1, the Deep Impact target. <i>Astronomy and Astrophysics</i> , 2006, 445, 1151-1157.	5.1	33
105	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
106	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
107	Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 301, 173-188.	2.5	33
108	Solar ultraviolet transfer in the Martian atmosphere: biological and geological implications. <i>Planetary and Space Science</i> , 2003, 51, 399-410.	1.7	32

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109	Spatial distribution of water in the stratosphere of Jupiter from <i>Herschel</i> /HIFI and PACS observations. <i>Astronomy and Astrophysics</i> , 2013, 553, A21.	5.1	32
110	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
111	HIFI observations of water in the atmosphere of comet C/2008 Q3 (Garradd). <i>Astronomy and Astrophysics</i> , 2010, 518, L150.	5.1	31
112	67P/Churyumov-Gerasimenko activity evolution during its last perihelion before the Rosetta encounter. <i>Astronomy and Astrophysics</i> , 2011, 525, A36.	5.1	31
113	Spin and activity of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2013, 549, A121.	5.1	31
114	Characterization of zonal winds in the stratosphere of Titan with UVES. <i>Icarus</i> , 2005, 179, 497-510.	2.5	29
115	A Model of the Early Evolution of the 2007 Outburst of Comet 17P/Holmes. <i>Astrophysical Journal</i> , 2008, 677, L63-L66.	4.5	29
116	An upper limit for the water outgassing rate of the main-belt comet 176P/LINEAR observed with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2012, 546, L4.	5.1	29
117	A mini outburst from the nightside of comet 67P/Churyumov-Gerasimenko observed by the OSIRIS camera on Rosetta. <i>Astronomy and Astrophysics</i> , 2016, 596, A89.	5.1	29
118	The 67P/Churyumov-Gerasimenko observation campaign in support of the Rosetta mission. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160249.	3.4	29
119	Gas and dust in Comet C/2000 W ₁ during its closest approach to Earth: Optical imaging and long-slit spectroscopy. <i>Astronomy and Astrophysics</i> , 2004, 422, 717-729.	5.1	28
120	Observations of Comet 9P/Tempel 1 around the Deep Impact event by the OSIRIS cameras onboard Rosetta. <i>Icarus</i> , 2007, 187, 87-103.	2.5	27
121	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
122	The southern hemisphere of 67P/Churyumov-Gerasimenko: Analysis of the preperihelion size-frequency distribution of boulders ≥ 7 m. <i>Astronomy and Astrophysics</i> , 2016, 592, L2.	5.1	27
123	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. <i>Advances in Space Research</i> , 2018, 62, 1947-1976.	2.6	27
124	Rotating dust particles in the coma of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A14.	5.1	26
125	Characterization of the Abydos region through OSIRIS high-resolution images in support of CIVA measurements. <i>Astronomy and Astrophysics</i> , 2016, 585, L1.	5.1	26
126	The dust environment of comet 67P/Churyumov-Gerasimenko: results from Monte Carlo dust tail modelling applied to a large ground-based observation data set. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S186-S194.	4.4	26

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127	Behaviour of Comet 21P/Giacobini-Zinner during the 1998 perihelion. <i>Astronomy and Astrophysics</i> , 2003, 399, 763-772.	5.1	25
128	Water production in comet 81P/WildÂ2 as determined by Herschel/HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L50.	5.1	25
129	Depth of faulting and ancient heat flows in the Kuiper region of Mercury from lobate scarp topography. <i>Planetary and Space Science</i> , 2012, 60, 193-198.	1.7	25
130	Sublimating components in the coma of comet C/2000 WM1(LINEAR). <i>Astronomy and Astrophysics</i> , 2004, 424, 325-330.	5.1	25
131	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
132	THE OUTBURST OF COMET 17P/HOLMES. <i>Astronomical Journal</i> , 2009, 138, 625-632.	4.7	23
133	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A16.	5.1	23
134	Sublimation of icy aggregates in the coma of comet 67P/Churyumovâ€“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
135	Geomorphological mapping of comet 67P/Churyumovâ€“Gerasimenkoâ€™s Southern hemisphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S573-S592.	4.4	23
136	Investigating the physical properties of outbursts on comet 67P/Churyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S731-S740.	4.4	23
137	A data-driven approach to constraining the atmospheric temperature structure of the ultra-hot Jupiter KELT-9b. <i>Astronomy and Astrophysics</i> , 2020, 643, A131.	5.1	23
138	Nitriles produced by ion chemistry in the lower ionosphere of Titan. <i>Journal of Geophysical Research</i> , 2002, 107, 9-1-9-11.	3.3	22
139	A time-dependent photochemical model for Titanâ€™s atmosphere and the origin of H ₂ O. <i>Astronomy and Astrophysics</i> , 2014, 566, A143.	5.1	22
140	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
141	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
142	Bilobate comet morphology and internal structure controlled by shear deformation. <i>Nature Geoscience</i> , 2019, 12, 157-162.	12.9	22
143	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumovâ€“Gerasimenko. <i>Icarus</i> , 2018, 311, 1-22.	2.5	21
144	Spectrophotometry of the Khonsu region on the comet 67P/Churyumovâ€“Gerasimenko using OSIRIS instrument images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S274-S286.	4.4	20

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145	Models of Rosetta/OSIRIS 67P Dust Coma Phase Function. <i>Astronomical Journal</i> , 2018, 156, 237.	4.7	20
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147	A numerical model of cometary dust coma structures. <i>Astronomy and Astrophysics</i> , 2010, 512, A60.	5.1	19
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