

Monica Lazzarin

List of Publications by Year in descending order

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79
papers

4,793
citations

109264

35
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91828

69
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80
all docs

80
docs citations

80
times ranked

1986
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044.	6.0	366
2	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. <i>Science</i> , 2015, 347, aaa3905.	6.0	310
3	The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440.	6.0	259
4	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. <i>Icarus</i> , 2016, 277, 257-278.	1.1	252
5	Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko â€“ Stereo-photogrammetric analysis of Rosetta/OSIRIS image data. <i>Astronomy and Astrophysics</i> , 2015, 583, A33.	2.1	188
6	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.	2.1	188
7	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	2.1	173
8	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66.	13.7	158
9	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOVâ€™GERASIMENKO FROM 2.2 au TO PERIHELION. <i>Astrophysical Journal</i> , 2016, 821, 19.	1.6	158
10	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26.	2.1	153
11	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17.	2.1	149
12	Two independent and primitive envelopes of the bilobate nucleus of comet 67P. <i>Nature</i> , 2015, 526, 402-405.	13.7	141
13	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€™Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371.	1.6	111
14	Size-frequency distribution of boulders â‰¥7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37.	2.1	108
15	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 607, L1.	2.1	107
16	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.	2.1	102
17	The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. <i>Nature Astronomy</i> , 2017, 1, .	4.2	100
18	Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. <i>Science</i> , 2016, 354, 1566-1570.	6.0	97

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19	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. <i>Astronomy and Astrophysics</i> , 2016, 593, A110.	2.1	86
20	Space Weathering in the Main Asteroid Belt: The Big Picture. <i>Astrophysical Journal</i> , 2006, 647, L179-L182.	1.6	80
21	Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178.	1.5	71
22	Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46.	2.1	67
23	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	6.0	63
24	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36.	2.1	60
25	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.	1.6	60
26	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35.	2.1	59
27	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7.	2.1	55
28	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. <i>Astronomy and Astrophysics</i> , 2016, 592, A69.	2.1	53
29	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.	1.6	52
30	A General Spectral Slope-Exposure Relation for S-Type Main Belt and Near-Earth Asteroids. <i>Astronomical Journal</i> , 2006, 131, 1138-1141.	1.9	49
31	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.	1.6	44
32	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.	1.6	43
33	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33.	2.1	40
34	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.	1.6	39
35	CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOV-GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. <i>Astronomical Journal</i> , 2016, 152, 130.	1.9	36
36	Visible spectral properties of asteroid 21 Lutetia, target of Rosetta Mission. <i>Astronomy and Astrophysics</i> , 2004, 425, L25-L28.	2.1	35

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37	Gas outflow and dust transport of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S533-S546.	1.6	34
38	Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, L3.	2.1	34
39	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. Astronomy and Astrophysics, 2015, 583, A11.	2.1	33
40	Regional unit definition for the nucleus of comet 67P/Churyumov-Gerasimenko on the SHAP7 model. Planetary and Space Science, 2018, 164, 19-36.	0.9	32
41	The highly active Anhur-Bes regions in the 67P/Churyumov-Gerasimenko comet: results from OSIRIS/ROSETTA observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S93-S107.	1.6	30
42	Geologic mapping of the Comet 67P/Churyumov-Gerasimenko's Northern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S352-S367.	1.6	27
43	Decimetre-scaled spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. Monthly Notices of the Royal Astronomical Society, 2016, 462, S287-S303.	1.6	26
44	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A16.	2.1	23
45	Sublimation of icy aggregates in the coma of comet 67P/Churyumov-Gerasimenko detected with the OSIRIS cameras on board Rosetta. Monthly Notices of the Royal Astronomical Society, 2016, 462, S57-S66.	1.6	23
46	Geomorphological mapping of comet 67P/Churyumov-Gerasimenko's Southern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S573-S592.	1.6	23
47	Physical properties and dynamical relation of the circular depressions on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 591, A132.	2.1	22
48	A three-dimensional modelling of the layered structure of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S741-S754.	1.6	22
49	Bilobate comet morphology and internal structure controlled by shear deformation. Nature Geoscience, 2019, 12, 157-162.	5.4	22
50	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko. Icarus, 2018, 311, 1-22.	1.1	21
51	Characterization of a Double Mesospheric Bore Over Europe. Journal of Geophysical Research: Space Physics, 2017, 122, 9738-9750.	0.8	20
52	The phase function and density of the dust observed at comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2835-2839.	1.6	20
53	Models of Rosetta/OSIRIS 67P Dust Coma Phase Function. Astronomical Journal, 2018, 156, 237.	1.9	20
54	Coma morphology of comet 67P controlled by insolation over irregular nucleus. Nature Astronomy, 2018, 2, 562-567.	4.2	19

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55	First Conjugate Observations of Medium-Scale Traveling Ionospheric Disturbances (MSTIDs) in the Europe-Africa Longitude Sector. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2213-2222.	0.8	18
56	Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A7.	2.1	18
57	Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36.	2.1	15
58	Surface evolution of the Anhur region on comet 67P/Churyumov-Gerasimenko from high-resolution OSIRIS images. <i>Astronomy and Astrophysics</i> , 2019, 630, A13.	2.1	15
59	Visible Spectroscopy of Possible Cometary Candidates. <i>Icarus</i> , 1996, 122, 122-127.	1.1	14
60	Rotational variation of the spectral slope of (21) Lutetia, the second asteroid target of ESA Rosetta mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1433-1437.	1.6	13
61	Time evolution of dust deposits in the Hapi region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2020, 636, A91.	2.1	13
62	Modelling of the outburst on 2015 July 29 observed with OSIRIS cameras in the Southern hemisphere of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S178-S185.	1.6	12
63	Characterization of dust aggregates in the vicinity of the Rosetta spacecraft. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S312-S320.	1.6	12
64	Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2139-2154.	1.6	9
65	Phaethon variability during December 2017 closest approach to Earth. <i>Planetary and Space Science</i> , 2019, 165, 115-123.	0.9	9
66	Diurnal variation of dust and gas production in comet 67P/Churyumov-Gerasimenko at the inbound equinox as seen by OSIRIS and VIRTIS-M on board Rosetta. <i>Astronomy and Astrophysics</i> , 2019, 630, A23.	2.1	9
67	The Rocky-Like Behavior of Cometary Landslides on 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2019, 46, 14336-14346.	1.5	9
68	Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data. <i>Planetary and Space Science</i> , 2017, 143, 256-264.	0.9	8
69	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere (Corrigendum). <i>Astronomy and Astrophysics</i> , 2017, 598, C2.	2.1	8
70	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumov-Gerasimenko using OSIRIS images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S238-S251.	1.6	8
71	Characterization of V-type asteroids orbiting in the middle and outer main belt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2019-2032.	1.6	8
72	The First Use of Coordinated Ionospheric Radio and Optical Observations Over Italy: Convergence of High- and Low-Latitude Storm-Induced Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,794.	0.8	7

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73	Pronounced morphological changes in a southern active zone on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A8.	2.1	7
74	The backscattering ratio of comet 67P/Churyumov-Gerasimenko dust coma as seen by OSIRIS onboard Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	6
75	Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A15.	2.1	4
76	The origin of water on Earth: stars or diamonds?. <i>Rendiconti Lincei</i> , 2019, 30, 261-268.	1.0	4
77	Spectroscopic observations of the bilobate potentially hazardous asteroid 2014 JO25 from the Asiago 1.22-m telescope. <i>Planetary and Space Science</i> , 2018, 158, 63-68.	0.9	3
78	Phase-curve analysis of comet 67P/Churyumov-Gerasimenko at small phase angles. <i>Astronomy and Astrophysics</i> , 2019, 630, A11.	2.1	1
79	Lunam 2000 (Lunar Atmosphere Mission). <i>Earth, Moon and Planets</i> , 1999, 85/86, 487-495.	0.3	0