

Monica Lazzarin

List of Publications by Year in descending order

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79
papers

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109321

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docs citations

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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. | 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 | The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440. | 12.6 | 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. | 2.5 | 252 |
| 5 | 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 |
| 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. | 5.1 | 188 |
| 7 | Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34. | 5.1 | 173 |
| 8 | Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66. | 27.8 | 158 |
| 9 | 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 |
| 10 | Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26. | 5.1 | 153 |
| 11 | Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17. | 5.1 | 149 |
| 12 | Two independent and primitive envelopes of the bilobate nucleus of comet 67P. <i>Nature</i> , 2015, 526, 402-405. | 27.8 | 141 |
| 13 | Seasonal mass transfer on the nucleus of comet 67P/Chuyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371. | 4.4 | 111 |
| 14 | Size-frequency distribution of boulders ≥ 7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37. | 5.1 | 108 |
| 15 | The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 607, L1. | 5.1 | 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. | 5.1 | 102 |
| 17 | The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. <i>Nature Astronomy</i> , 2017, 1, . | 10.1 | 100 |
| 18 | Rosetta – Comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. <i>Science</i> , 2016, 354, 1566-1570. | 12.6 | 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. | 5.1 | 86 |
| 20 | Space Weathering in the Main Asteroid Belt: The Big Picture. <i>Astrophysical Journal</i> , 2006, 647, L179-L182. | 4.5 | 80 |
| 21 | Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178. | 4.0 | 71 |
| 22 | Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46. | 5.1 | 67 |
| 23 | Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395. | 12.6 | 63 |
| 24 | Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36. | 5.1 | 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. | 4.4 | 60 |
| 26 | Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35. | 5.1 | 59 |
| 27 | Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7. | 5.1 | 55 |
| 28 | Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. <i>Astronomy and Astrophysics</i> , 2016, 592, A69. | 5.1 | 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. | 4.4 | 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. | 4.7 | 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. | 4.4 | 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. | 4.4 | 43 |
| 33 | Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33. | 5.1 | 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. | 4.4 | 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. | 4.7 | 36 |
| 36 | Visible spectral properties of asteroid 21 Lutetia, target of Rosetta Mission. <i>Astronomy and Astrophysics</i> , 2004, 425, L25-L28. | 5.1 | 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. | 4.4 | 34 |
| 38 | Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, L3. | 5.1 | 34 |
| 39 | Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. Astronomy and Astrophysics, 2015, 583, A11. | 5.1 | 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. | 1.7 | 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. | 4.4 | 30 |
| 42 | Geologic mapping of the Comet 67P/Churyumov-Gerasimenko's Northern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S352-S367. | 4.4 | 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. | 4.4 | 26 |
| 44 | Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A16. | 5.1 | 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. | 4.4 | 23 |
| 46 | Geomorphological mapping of comet 67P/Churyumov-Gerasimenko's Southern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S573-S592. | 4.4 | 23 |
| 47 | Physical properties and dynamical relation of the circular depressions on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 591, A132. | 5.1 | 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. | 4.4 | 22 |
| 49 | Bilobate comet morphology and internal structure controlled by shear deformation. Nature Geoscience, 2019, 12, 157-162. | 12.9 | 22 |
| 50 | On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko. Icarus, 2018, 311, 1-22. | 2.5 | 21 |
| 51 | Characterization of a Double Mesospheric Bore Over Europe. Journal of Geophysical Research: Space Physics, 2017, 122, 9738-9750. | 2.4 | 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. | 4.4 | 20 |
| 53 | Models of Rosetta/OSIRIS 67P Dust Coma Phase Function. Astronomical Journal, 2018, 156, 237. | 4.7 | 20 |
| 54 | Coma morphology of comet 67P controlled by insolation over irregular nucleus. Nature Astronomy, 2018, 2, 562-567. | 10.1 | 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. | 2.4 | 18 |
| 56 | Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A7. | 5.1 | 18 |
| 57 | Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36. | 5.1 | 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. | 5.1 | 15 |
| 59 | Visible Spectroscopy of Possible Cometary Candidates. <i>Icarus</i> , 1996, 122, 122-127. | 2.5 | 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. | 4.4 | 13 |
| 61 | Time evolution of dust deposits in the Hapi region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2020, 636, A91. | 5.1 | 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. | 4.4 | 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. | 4.4 | 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. | 4.4 | 9 |
| 65 | Phaethon variability during December 2017 closest approach to Earth. <i>Planetary and Space Science</i> , 2019, 165, 115-123. | 1.7 | 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. | 5.1 | 9 |
| 67 | The Rocky-Like Behavior of Cometary Landslides on 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2019, 46, 14336-14346. | 4.0 | 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. | 1.7 | 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. | 5.1 | 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. | 4.4 | 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. | 4.4 | 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. | 2.4 | 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. | 5.1 | 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, , . | 4.4 | 6 |
| 75 | Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A15. | 5.1 | 4 |
| 76 | The origin of water on Earth: stars or diamonds?. <i>Rendiconti Lincei</i> , 2019, 30, 261-268. | 2.2 | 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. | 1.7 | 3 |
| 78 | Phase-curve analysis of comet 67P/Churyumov-Gerasimenko at small phase angles. <i>Astronomy and Astrophysics</i> , 2019, 630, A11. | 5.1 | 1 |
| 79 | Lunam 2000 (Lunar Atmosphere Mission). <i>Earth, Moon and Planets</i> , 1999, 85/86, 487-495. | 0.6 | 0 |