

Giuseppe Leto

List of Publications by Year in descending order

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108
papers

3,326
citations

147801

31
h-index

161849

54
g-index

108
all docs

108
docs citations

108
times ranked

3936
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209. | 3.7 | 249 |
| 2 | The size, shape, density and ring of the dwarf planet Haumea from a stellar occultation. <i>Nature</i> , 2017, 550, 219-223. | 27.8 | 179 |
| 3 | Virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2151-2159. | 2.3 | 164 |
| 4 | Magnetic activity in the photosphere of CoRoT-Exo-2a. <i>Astronomy and Astrophysics</i> , 2009, 493, 193-200. | 5.1 | 137 |
| 5 | The virtual atomic and molecular data centre (VAMDC) consortium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 074003. | 1.5 | 120 |
| 6 | A comparison of ion irradiation and UV photolysis of CH ₄ and CH ₃ OH. <i>Astronomy and Astrophysics</i> , 2002, 384, 343-349. | 5.1 | 104 |
| 7 | The GAPS programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2013, 554, A28. | 5.1 | 103 |
| 8 | Five carbon- and nitrogen-bearing species in a hot giant planet's atmosphere. <i>Nature</i> , 2021, 592, 205-208. | 27.8 | 99 |
| 9 | EChO. <i>Experimental Astronomy</i> , 2012, 34, 311-353. | 3.7 | 98 |
| 10 | Neutral Iron Emission Lines from the Dayside of KELT-9b: The GAPS Program with HARPS-N at TNG XX. <i>Astrophysical Journal Letters</i> , 2020, 894, L27. | 8.3 | 84 |
| 11 | Ion-Beam-Induced Amorphization of Crystalline Water Ice. <i>Europhysics Letters</i> , 1992, 18, 517-522. | 2.0 | 80 |
| 12 | Hydrogen peroxide formation by ion implantation in water ice and its relevance to the Galilean satellites. <i>Planetary and Space Science</i> , 2004, 52, 371-378. | 1.7 | 73 |
| 13 | Photospheric activity, rotation, and radial velocity variations of the planet-hosting star CoRoT-7. <i>Astronomy and Astrophysics</i> , 2010, 520, A53. | 5.1 | 66 |
| 14 | Hydrogen peroxide production by ion irradiation of thin water ice films. <i>Astronomy and Astrophysics</i> , 2004, 420, 405-410. | 5.1 | 55 |
| 15 | Implantation of carbon and nitrogen ions in water ice. <i>Icarus</i> , 2003, 164, 163-169. | 2.5 | 53 |
| 16 | A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76. | 1.6 | 53 |
| 17 | HADES RV program with HARPS-N at the TNG GJ 3998: An early M-dwarf hosting a system of super-Earths. <i>Astronomy and Astrophysics</i> , 2016, 593, A117. | 5.1 | 51 |
| 18 | HADES RV programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2018, 612, A89. | 5.1 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The GAPS programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2018, 613, A41. | 5.1 | 49 |
| 20 | MULTIFREQUENCY PHOTO-POLARIMETRIC WEBT OBSERVATION CAMPAIGN ON THE BLAZAR S5 0716+714: SOURCE MICROVARIABILITY AND SEARCH FOR CHARACTERISTIC TIMESCALES*. <i>Astrophysical Journal</i> , 2016, 831, 92. | 4.5 | 47 |
| 21 | The GAPS programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2015, 575, A111. | 5.1 | 46 |
| 22 | CoRoT-2a Magnetic Activity: Hints for Possible Star-Planet Interaction. <i>Earth, Moon and Planets</i> , 2009, 105, 373-378. | 0.6 | 45 |
| 23 | H bonds in astrophysical ices. <i>Journal of Molecular Structure</i> , 2010, 972, 64-67. | 3.6 | 44 |
| 24 | The GAPS Programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2017, 601, A53. | 5.1 | 41 |
| 25 | Multiwavelength behaviour of the blazar 3C 279: decade-long study from $\hat{\text{I}}^3$ -ray to radio. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3829-3848. | 4.4 | 40 |
| 26 | Ion irradiation experiments relevant to the physics of comets. <i>Planetary and Space Science</i> , 1994, 42, 759-766. | 1.7 | 39 |
| 27 | Hydrate sulfuric acid after sulfur implantation in water ice. <i>Icarus</i> , 2007, 192, 623-628. | 2.5 | 39 |
| 28 | Photospheric activity and rotation of the planet-hosting star CoRoT-4a. <i>Astronomy and Astrophysics</i> , 2009, 506, 255-262. | 5.1 | 39 |
| 29 | Photospheric activity, rotation, and star-planet interaction of the planet-hosting star CoRoT-6. <i>Astronomy and Astrophysics</i> , 2011, 525, A14. | 5.1 | 35 |
| 30 | Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53. | 4.3 | 35 |
| 31 | Raman spectroscopy of ion-irradiated interplanetary carbon dust analogues. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 487-496. | 2.5 | 34 |
| 32 | Volcanic ash concentration during the 12 August 2011 Etna eruption. <i>Geophysical Research Letters</i> , 2015, 42, 2634-2641. | 4.0 | 34 |
| 33 | Monitoring Etna volcanic plumes using a scanning LiDAR. <i>Bulletin of Volcanology</i> , 2012, 74, 2383-2395. | 3.0 | 32 |
| 34 | Total eclipse of the heart: the AM CVn Gaia14aae/ASSASN-14cn. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1060-1067. | 4.4 | 32 |
| 35 | HADES RV Programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2017, 598, A27. | 5.1 | 32 |
| 36 | The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391. | 3.7 | 31 |

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|----|--|-----|-----------|
| 37 | Lidar depolarization measurement of fresh volcanic ash from Mt. Etna, Italy. Atmospheric Environment, 2012, 62, 34-40. | 4.1 | 30 |
| 38 | Ion irradiation of CH ₄ -containing icy mixtures. Nuclear Instruments & Methods in Physics Research B, 2003, 209, 283-287. | 1.4 | 29 |
| 39 | Eyes on K2-3: A system of three likely sub-Neptunes characterized with HARPS-N and HARPS. Astronomy and Astrophysics, 2018, 615, A69. | 5.1 | 29 |
| 40 | Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988-2016. Astronomy and Astrophysics, 2019, 625, A42. | 5.1 | 29 |
| 41 | Production of Oxidants by Ion Irradiation of Water/Carbon Dioxide Frozen Mixtures. Astrobiology, 2005, 5, 612-621. | 3.0 | 28 |
| 42 | HADES RV Programme with HARPS-N at TNG. Astronomy and Astrophysics, 2017, 598, A28. | 5.1 | 28 |
| 43 | The HADES RV Programme with HARPS-N at TNG. Astronomy and Astrophysics, 2018, 617, A104. | 5.1 | 28 |
| 44 | Ion irradiation experiments relevant to cometary physics. Journal of Geophysical Research, 1991, 96, 17547-17552. | 3.3 | 27 |
| 45 | HADES RV Programme with HARPS-N at TNG. Astronomy and Astrophysics, 2017, 605, A92. | 5.1 | 27 |
| 46 | The GAPS programme with HARPS-N at TNG. Astronomy and Astrophysics, 2014, 567, L6. | 5.1 | 26 |
| 47 | Large Binocular Telescope view of the atmosphere of GJ1214b. Astronomy and Astrophysics, 2015, 579, A113. | 5.1 | 26 |
| 48 | Ion irradiation of astrophysical ices. Journal of Physics: Conference Series, 2008, 101, 012002. | 0.4 | 25 |
| 49 | VAMDC "The Virtual Atomic and Molecular Data Centre" A New Way to Disseminate Atomic and Molecular Data "VAMDC Level 1 Release. AIP Conference Proceedings, 2011, , . | 0.4 | 24 |
| 50 | DISCOVERY OF A HIGHLY POLARIZED OPTICAL MICROFLARE IN BLAZAR S5 0716+714 DURING THE 2014 WEBT CAMPAIGN. Astrophysical Journal Letters, 2015, 809, L27. | 8.3 | 24 |
| 51 | The GAPS Programme with HARPS-N at TNG. Astronomy and Astrophysics, 2018, 616, A155. | 5.1 | 24 |
| 52 | HADES RV program with HARPS-N at the TNG. Astronomy and Astrophysics, 2019, 622, A193. | 5.1 | 21 |
| 53 | The structure of the inner Oort cloud from the simulation of its formation for 2 Gyr. Monthly Notices of the Royal Astronomical Society, 2008, 391, 1350-1358. | 4.4 | 20 |
| 54 | Synchrotron emission from the blazar PG 1553+113. An analysis of its flux and polarization variability. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3762-3774. | 4.4 | 19 |

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|----|--|-----|-----------|
| 55 | A Search for Radio Emission at the Bottom of the Main Sequence and Beyond. <i>Astronomical Journal</i> , 1999, 118, 1369-1372. | 4.7 | 19 |
| 56 | Gliese 49: activity evolution and detection of a super-Earth. <i>Astronomy and Astrophysics</i> , 2019, 624, A123. | 5.1 | 18 |
| 57 | A multi-site campaign to detect the transit of the second planet in HAT-P-13. <i>Astronomy and Astrophysics</i> , 2010, 523, A84. | 5.1 | 17 |
| 58 | Raman spectroscopy of ion-irradiated astrophysically relevant materials. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 211-219. | 2.5 | 16 |
| 59 | The simulation of the outer Oort cloud formation. <i>Astronomy and Astrophysics</i> , 2008, 487, 345-355. | 5.1 | 16 |
| 60 | Small-scale volcanic aerosols variability, processes and direct radiative impact at Mount Etna during the EPL-RADIO campaigns. <i>Scientific Reports</i> , 2020, 10, 15224. | 3.3 | 16 |
| 61 | Molecular Alteration and Carbonization of Glycine by Ion Irradiation. <i>Europhysics Letters</i> , 1991, 16, 201-204. | 2.0 | 14 |
| 62 | Ion irradiation experiments. <i>Advances in Space Research</i> , 1993, 13, 189-198. | 2.6 | 14 |
| 63 | Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946. <i>Astrophysical Journal</i> , 2017, 840, 74. | 4.5 | 14 |
| 64 | HADES RV Programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2017, 608, A63. | 5.1 | 14 |
| 65 | Sensitivity of different resistant tumour cell lines to the two novel compounds (2Z,4E)-2-methylsulfanyl-5-(1-naphthyl)-4-nitro-2,4-pentadienoate and (1E,3E)-1,4-bis(2-naphthyl)-2,3-dinitro-1,3-butadiene. <i>European Journal of Pharmacology</i> , 2008, 588, 47-51. | 3.5 | 12 |
| 66 | Monitoring crustal changes at volcanoes by seismic noise interferometry: Mt. Etna case of study. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 337, 165-174. | 2.1 | 11 |
| 67 | Maximum-Likelihood Retrieval of Volcanic Ash Concentration and Particle Size From Ground-Based Scanning Lidar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5824-5842. | 6.3 | 11 |
| 68 | Radiation chemistry of ices of planetological interest at low temperature. <i>Advances in Space Research</i> , 1995, 16, 61-71. | 2.6 | 10 |
| 69 | Spatio-temporal monitoring by ground-based and air- and space-borne lidars of a moderate Saharan dust event affecting southern Europe in June 2013 in the framework of the ADRIMED/ChArMEx campaign. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 261-285. | 3.3 | 10 |
| 70 | Vibrational spectroscopy of as-prepared and ion-irradiated glycine films. <i>Infrared Physics</i> , 1991, 31, 511-516. | 0.5 | 9 |
| 71 | β Eridani from MOST... and from the ground: an orbit, the SPB component's fundamental parameters and the SPB frequencies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1032-1045. | 4.4 | 9 |
| 72 | Spot modelling of periodic weak-line T Tauri stars observed by CoRoT in NGC 2264. <i>Astronomy and Astrophysics</i> , 2016, 592, A140. | 5.1 | 9 |

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|----|--|-----|-----------|
| 73 | First Volcanic Plume Measurements by an Elastic/Raman Lidar Close to the Etna Summit Craters. <i>Frontiers in Earth Science</i> , 2018, 6, . | 1.8 | 9 |
| 74 | The GAPS programme at TNG. <i>Astronomy and Astrophysics</i> , 2020, 639, A50. | 5.1 | 9 |
| 75 | The GAPS Programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2019, 621, A110. | 5.1 | 8 |
| 76 | On the Observability of -SiH Vibrational Stretch on Solid Objects in the Solar System. <i>Icarus</i> , 1994, 108, 169-171. | 2.5 | 7 |
| 77 | TOSC: an algorithm for the tomography of spotted transit chords. <i>Astronomy and Astrophysics</i> , 2017, 606, A134. | 5.1 | 6 |
| 78 | A deep multi-band investigation of ICÂ2391. <i>Astronomy and Astrophysics</i> , 2009, 499, 541-555. | 5.1 | 6 |
| 79 | The science of EChO. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 359-370. | 0.0 | 5 |
| 80 | Linking the IR transmittance to size and type of volcanic ash particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,207. | 3.3 | 5 |
| 81 | Contribution of EARLINET/ACTRIS to the summer 2013 Special Observing Period of the ChArMEx project: monitoring of a Saharan dust event over the western and central Mediterranean. <i>International Journal of Remote Sensing</i> , 2016, 37, 4698-4711. | 2.9 | 5 |
| 82 | Multi-Sensor Analysis of a Weak and Long-Lasting Volcanic Plume Emission. <i>Remote Sensing</i> , 2020, 12, 3866. | 4.0 | 5 |
| 83 | Probing the relation between the structure of initial proto-planetary disc and the Oort-cloud formation. <i>Astronomy and Astrophysics</i> , 2010, 509, A48. | 5.1 | 5 |
| 84 | Interaction of solar wind ions with planetary surfaces. <i>Advances in Space Research</i> , 1995, 15, 13-17. | 2.6 | 4 |
| 85 | The triple system AT Mic AB + AU Mic in the $\hat{1}^2$ η Pictoris association. <i>Astrophysics and Space Science</i> , 2016, 361, 1. | 1.4 | 4 |
| 86 | HADES RV programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2021, 651, A93. | 5.1 | 4 |
| 87 | Application of ion irradiation experiments to planetary surfaces in the Outer Solar System. <i>Earth, Moon and Planets</i> , 1992, 56, 35-45. | 0.6 | 3 |
| 88 | The ASTRI/CTA mini-array software system. , 2014, , . | | 3 |
| 89 | Dual-Wavelength Polarimetric Lidar Observations of the Volcanic Ash Cloud Produced during the 2016 Etna Eruption. <i>Remote Sensing</i> , 2021, 13, 1728. | 4.0 | 3 |
| 90 | Information and Communications Technology (ICT) Infrastructure for the ASTRI SST-2M telescope prototype for the Cherenkov Telescope Array. , 2016, , . | | 3 |

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|-----|--|-----|-----------|
| 91 | The ACS/OPC-UA based ICT infrastructure monitoring system of the ASTRI SST-2M prototype proposed for the Cherenkov Telescope Array. , 2018, , . | | 3 |
| 92 | 2-Gyr Simulation of the Oort-cloud Formation II. A Close View of the Inner Oort cloud after the First Two Giga-years. Earth, Moon and Planets, 2009, 105, 263-266. | 0.6 | 2 |
| 93 | 2-Gyr Simulation of the Oort-Cloud Formation. I. Introduction on a New Model of the Outer Oort-Cloud Formation. Earth, Moon and Planets, 2009, 105, 257-261. | 0.6 | 2 |
| 94 | The ASTRI SST-2M prototype for the next generation of Cherenkov telescopes: a single framework approach from requirement analysis to integration and verification strategy definition. , 2014, , . | | 2 |
| 95 | The ASTRI mini-array software system (MASS) implementation: a proposal for the Cherenkov Telescope Array. , 2016, , . | | 2 |
| 96 | Notes on the outer-Oort-cloud formation efficiency in the simulation of Oort cloud formation. Astronomy and Astrophysics, 2009, 497, 847-850. | 5.1 | 1 |
| 97 | All Sky Camera, LIDAR and Electric Field Meter: Auxiliary instruments for the ASTRI SST-2M prototype. EPJ Web of Conferences, 2015, 89, 02006. | 0.3 | 1 |
| 98 | The ASTRI SST-2M prototype for the Cherenkov Telescope Array: opto-mechanical test results. , 2015, , . | | 1 |
| 99 | The ICT monitoring system of the ASTRI SST-2M prototype proposed for the Cherenkov Telescope Array. , 2016, , . | | 1 |
| 100 | Software use cases to elicit the software requirements analysis within the ASTRI project. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 101 | CoRoT and stellar activity: preliminary results from the modelling of CoRoT-Exo-2a. , 2009, , . | | 0 |
| 102 | The RACE-OC project: Rotation and Activity Evolution in Open Clusters. , 2009, , . | | 0 |
| 103 | Probing the Low-Mass Population in IC 2391: Constraining the IMF and Identifying Candidate Debris Disks. , 2009, , . | | 0 |
| 104 | Few Comments on the Relation Between the Initial Proto-planetary Disc Model and the Oort Cloud Formation. Earth, Moon and Planets, 2009, 105, 367-371. | 0.6 | 0 |
| 105 | The Outer Part of the Scattered Disc from the Simulation of the Formation of Small-body Reservoirs. Earth, Moon and Planets, 2009, 105, 379-383. | 0.6 | 0 |
| 106 | Preparing EChO space mission: laboratory simulation of planetary atmospheres. , 2014, , . | | 0 |
| 107 | The control, monitor, and alarm system for the ICT equipment of the ASTRI SST-2M telescope prototype for the Cherenkov Telescope Array. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 108 | The Usage of the Grid in the Simulation of the Comet Oort-Cloud Formation. Computer Communications and Networks, 2011, , 293-306. | 0.8 | 0 |