

Rosario Cosentino

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

3,130
citations

159585

30
h-index

223800

46
g-index

102
all docs

102
docs citations

102
times ranked

2514
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | K2-79b and K2-222b: Mass Measurements of Two Small Exoplanets with Periods beyond 10 days that Overlap with Periodic Magnetic Activity Signals. <i>Astronomical Journal</i> , 2022, 163, 41. | 4.7 | 3 |
| 2 | Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. <i>Astronomical Journal</i> , 2022, 164, 49. | 4.7 | 20 |
| 3 | Five carbon- and nitrogen-bearing species in a hot giant planet's atmosphere. <i>Nature</i> , 2021, 592, 205-208. | 27.8 | 99 |
| 4 | Separating planetary reflex Doppler shifts from stellar variability in the wavelength domain. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1699-1717. | 4.4 | 44 |
| 5 | Detection Limits of Low-mass, Long-period Exoplanets Using Gaussian Processes Applied to HARPS-N Solar Radial Velocities. <i>Astronomical Journal</i> , 2021, 161, 287. | 4.7 | 17 |
| 6 | An unusually low density ultra-short period super-Earth and three mini-Neptunes around the old star TOI-561. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4148-4166. | 4.4 | 32 |
| 7 | Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network. <i>Astrophysical Journal</i> , 2021, 920, 21. | 4.5 | 10 |
| 8 | Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf. <i>Astronomical Journal</i> , 2021, 162, 238. | 4.7 | 5 |
| 9 | TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 22. | 4.7 | 33 |
| 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 | A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. <i>Astronomical Journal</i> , 2020, 160, 3. | 4.7 | 62 |
| 12 | K2-111: an old system with two planets in near-resonance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5004-5021. | 4.4 | 22 |
| 13 | TESS Hunt for Young and Maturing Exoplanets (THYME). III. A Two-planet System in the 400 Myr Ursa Major Group. <i>Astronomical Journal</i> , 2020, 160, 179. | 4.7 | 68 |
| 14 | Testing the Spectroscopic Extraction of Suppression of Convective Blueshift. <i>Astrophysical Journal</i> , 2020, 888, 117. | 4.5 | 15 |
| 15 | Design and development of the SOXS calibration unit. , 2020, , . | | 3 |
| 16 | The SOXS data-reduction pipeline. , 2020, , . | | 2 |
| 17 | Final design and development status of the acquisition and guiding system for SOXS. , 2020, , . | | 2 |
| 18 | Development status of the SOXS instrument control software. , 2020, , . | | 1 |

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|----|--|-----|-----------|
| 19 | The AIV strategy of the common path of Son Of X-Shooter. , 2020, , . | | 2 |
| 20 | Design and validation of the boot software for the instrument control unit of the PLATO mission. , 2020, , . | | 0 |
| 21 | SOXS: effects on optical performances due to gravity flexures, temperature variations, and subsystems alignment. , 2020, , . | | 2 |
| 22 | Manufacturing, integration, and mechanical verification of SOXS. , 2020, , . | | 3 |
| 23 | A combined software and hardware data compression approach in PLATO. , 2020, , . | | 1 |
| 24 | Progress on the UV-VIS arm of SOXS. , 2020, , . | | 5 |
| 25 | The instrument control unit of the PLATO payload: design consolidation following the preliminary design review by ESA. , 2020, , . | | 0 |
| 26 | SOXS end-to-end simulator: development and applications for pipeline design. , 2020, , . | | 3 |
| 27 | Progress and tests on the instrument control electronics for SOXS. , 2020, , . | | 2 |
| 28 | Operational modes and efficiency of SOXS. , 2020, , . | | 2 |
| 29 | Development status of the UV-VIS detector system of SOXS for the ESO-NTT telescope. , 2020, , . | | 3 |
| 30 | The development status of the NIR Arm of the new SoXS instrument at the ESO/NTT telescope. , 2020, , . | | 2 |
| 31 | Development status of the SOXS spectrograph for the ESO-NTT telescope. , 2020, , . | | 4 |
| 32 | An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. <i>Astronomical Journal</i> , 2019, 158, 165. | 4.7 | 14 |
| 33 | Using HARPS-N to characterize the long-period planets in the PH-2 and Kepler-103 systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5103-5121. | 4.4 | 10 |
| 34 | Three years of Sun-as-a-star radial-velocity observations on the approach to solar minimum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1082-1100. | 4.4 | 81 |
| 35 | HARPS-N radial velocities confirm the low densities of the Kepler-9 planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3233-3243. | 4.4 | 28 |
| 36 | HARPS-N Solar RVs Are Dominated by Large, Bright Magnetic Regions. <i>Astrophysical Journal</i> , 2019, 874, 107. | 4.5 | 59 |

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|----|--|------|-----------|
| 37 | A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. Nature Astronomy, 2019, 3, 416-423. | 10.1 | 64 |
| 38 | An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. Astronomical Journal, 2018, 155, 107. | 4.7 | 103 |
| 39 | Introducing GOFIO: a DRS for the GIANO-B near-infrared spectrograph. , 2018, , . | | 3 |
| 40 | GIARPS: commissioning and first scientific results. , 2018, , . | | 8 |
| 41 | The design of the instrument control unit and its role within the data processing system of the ESA PLATO Mission. , 2018, , . | | 3 |
| 42 | BATMAN @ TNG: instrument integration and performance. , 2018, , . | | 0 |
| 43 | SOXS: a wide band spectrograph to follow up transients. , 2018, , . | | 9 |
| 44 | The NIR spectrograph for the new SOXS instrument at the NTT. , 2018, , . | | 1 |
| 45 | MITs: the Multi-Imaging Transient Spectrograph for SOXS. , 2018, , . | | 7 |
| 46 | SOXS control electronics design. , 2018, , . | | 4 |
| 47 | The assembly integration and test activities for the new SOXS instrument at NTT. , 2018, , . | | 6 |
| 48 | The acquisition camera system for SOXS at NTT. , 2018, , . | | 5 |
| 49 | Architecture of the SOXS instrument control software. , 2018, , . | | 3 |
| 50 | Optical design of the SOXS spectrograph for ESO NTT. , 2018, , . | | 4 |
| 51 | The VIS detector system of SOXS. , 2018, , . | | 4 |
| 52 | GIANO-B online data reduction software at the TNG. , 2018, , . | | 1 |
| 53 | The common path of SOXS (Son of X-Shooter). , 2018, , . | | 7 |
| 54 | The mechanical design of SOXS for the NTT. , 2018, , . | | 9 |

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|----|--|------|-----------|
| 55 | The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations. <i>Astronomical Journal</i> , 2017, 153, 224. | 4.7 | 58 |
| 56 | Three-planet System: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. <i>Astronomical Journal</i> , 2017, 154, 122. | 4.7 | 90 |
| 57 | Precise Masses in the WASP-47 System. <i>Astronomical Journal</i> , 2017, 154, 237. | 4.7 | 66 |
| 58 | KEPLER-21b: A ROCKY PLANET AROUND A V=8.25 mag STAR*. <i>Astronomical Journal</i> , 2016, 152, 204. | 4.7 | 80 |
| 59 | A 1.9 EARTH RADIUS ROCKY PLANET AND THE DISCOVERY OF A NON-TRANSITING PLANET IN THE KEPLER-20 SYSTEM*. <i>Astronomical Journal</i> , 2016, 152, 160. | 4.7 | 85 |
| 60 | An astro-comb calibrated solar telescope to search for the radial velocity signature of Venus. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 22 |
| 61 | THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95. | 4.5 | 55 |
| 62 | The HARPS-North@TNG polarimeter. , 2016, , . | | 2 |
| 63 | COORDINATED X-RAY AND OPTICAL OBSERVATIONS OF STAR-PLANET INTERACTION IN HD 17156. <i>Astrophysical Journal Letters</i> , 2015, 811, L2. | 8.3 | 58 |
| 64 | THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. <i>Astrophysical Journal</i> , 2015, 800, 135. | 4.5 | 211 |
| 65 | CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. <i>Astrophysical Journal</i> , 2015, 800, 59. | 4.5 | 104 |
| 66 | HARPS-N OBSERVES THE SUN AS A STAR. <i>Astrophysical Journal Letters</i> , 2015, 814, L21. | 8.3 | 112 |
| 67 | THE KEPLER-10 PLANETARY SYSTEM REVISITED BY HARPS-N: A HOT ROCKY WORLD AND A SOLID NEPTUNE-MASS PLANET. <i>Astrophysical Journal</i> , 2014, 789, 154. | 4.5 | 164 |
| 68 | BATMAN: a DMD-based multi-object spectrograph on Galileo telescope. , 2014, , . | | 7 |
| 69 | A polarimetric unit for HARPS-North at the Telescopio Nazionale Galileo: HANPO. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 2 |
| 70 | HARPS-N @ TNG, two year harvesting data: performances and results. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 34 |
| 71 | An Earth-sized planet with an Earth-like density. <i>Nature</i> , 2013, 503, 377-380. | 27.8 | 199 |
| 72 | BATMAN: a DMD-based MOS demonstrator on Galileo Telescope. , 2012, , . | | 1 |

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|----|---|-----|-----------|
| 73 | Conceptual design of the data handling system for the European Solar Telescope. , 2012, , . | | 0 |
| 74 | Harps-N: the new planet hunter at TNG. Proceedings of SPIE, 2012, , . | 0.8 | 219 |
| 75 | Planet candidates from the SARG visual binary survey. Proceedings of the International Astronomical Union, 2010, 6, 403-404. | 0.0 | 2 |
| 76 | Data handling and control for the European Solar Telescope. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 77 | A MULTI-SITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. II. MODE FREQUENCIES. Astrophysical Journal, 2010, 713, 935-949. | 4.5 | 78 |
| 78 | Path to the stars: the evolution of the species in the hunting to the GRBs. , 2010, , . | | 2 |
| 79 | A Path to the Stars: The Evolution of the Species. Advances in Astronomy, 2010, 2010, 1-14. | 1.1 | 1 |
| 80 | A Multisite Campaign to Measure Solar-like Oscillations in Procyon. I. Observations, Data Reduction, and Slow Variations. Astrophysical Journal, 2008, 687, 1180-1190. | 4.5 | 128 |
| 81 | Observations of Mercury's exosphere: Spatial distributions and variations of its Na component during August 8, 9 and 10, 2003. Icarus, 2006, 185, 395-402. | 2.5 | 14 |
| 82 | The X-shooter Spectrograph: A Second Generation Instrument for the VLT. Research in Astronomy and Astrophysics, 2006, 6, 361-364. | 1.1 | 0 |
| 83 | A New Generation of Data and Control Interfaces for Digital Detectors. , 2006, , 679-684. | | 1 |
| 84 | First observations of the Na exosphere of Mercury with the high-resolution spectrograph of the 3.5M Telescopio Nazionale Galileo. Planetary and Space Science, 2004, 52, 1169-1175. | 1.7 | 13 |
| 85 | The new active optics system of TNG. , 2004, , . | | 0 |
| 86 | Instrument remote control project at TNG: SARG implementation. , 2004, , . | | 0 |
| 87 | Silicon planar technology for single-photon optical detectors. , 2004, , . | | 9 |
| 88 | Silicon planar technology for single-photon optical detectors. IEEE Transactions on Electron Devices, 2003, 50, 918-925. | 3.0 | 82 |
| 89 | High-resolution spectropolarimetry at the Italian Telescopio Nazionale Galileo. , 2003, , . | | 3 |
| 90 | Progress on photon-counting intensified APS. , 2003, 4854, 583. | | 4 |

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|----|--|-----|-----------|
| 91 | SARG: The High Resolution Spectrograph of TNG. <i>Experimental Astronomy</i> , 2001, 12, 107-143. | 3.7 | 56 |
| 92 | Metal Abundances of Red Clump Stars in Open Clusters. I. NGC 6819. <i>Astronomical Journal</i> , 2001, 121, 327-336. | 4.7 | 154 |
| 93 | Design study of an adaptive optics visual echelle spectrograph and imager for the VLT. , 2000, , . | | 3 |
| 94 | Tests of SARG: the high-resolution spectrograph for TNG. , 2000, , . | | 2 |
| 95 | <title>High-resolution spectrograph of TNG: a status report</title>. , 1998, , . | | 0 |
| 96 | <title>AIRWATCH: the fast detector</title>. , 1998, 3445, 486. | | 1 |
| 97 | <title>AIR WATCH: air-induced fluorescence by radiation laboratory experiments</title>. , 1998, , . | | 2 |
| 98 | <title>Catania Astrophysical Observatory facility for UV CCD characterization</title>. , 1996, , . | | 12 |
| 99 | <title>CCD cameras for the Italian national telescope Galileo</title>. , 1996, , . | | 7 |