Rosario Cosentino

List of Publications by Year
in descending order

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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	Harps-N: the new planet hunter at TNG. Proceedings of SPIE, 2012, , .	0.8	219
2	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. Astrophysical Journal, 2015, 800, 135.	4.5	211
3	An Earth-sized planet with an Earth-like density. Nature, 2013, 503, 377-380.	27.8	199
4	THE KEPLER-10 PLANETARY SYSTEM REVISITED BY HARPS-N: A HOT ROCKY WORLD AND A SOLID NEPTUNE-MASS PLANET. Astrophysical Journal, 2014, 789, 154.	4.5	164
5	Metal Abundances of Red Clump Stars in Open Clusters. I. NGC 6819. Astronomical Journal, 2001, 121, 327-336.	4.7	154
6	A Multisite Campaign to Measure Solarâ€like Oscillations in Procyon. I. Observations, Data Reduction, and Slow Variations. Astrophysical Journal, 2008, 687, 1180-1190.	4.5	128
7	HARPS-N OBSERVES THE SUN AS A STAR. Astrophysical Journal Letters, 2015, 814, L21.	8.3	112
8	CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. Astrophysical Journal, 2015, 800, 59.	4.5	104
9	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
10	Five carbon- and nitrogen-bearing species in a hot giant planetâ€™s atmosphere. Nature, 2021, 592, 205-208.	27.8	99
11	Threeâ€™s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. Astronomical Journal, 2017, 154, 122.	4.7	90
12	A 1.9 EARTH RADIUS ROCKY PLANET AND THE DISCOVERY OF A NON-TRANSITING PLANET IN THE KEPLER-20 SYSTEM*. Astronomical Journal, 2016, 152, 160.	4.7	85
13	Neutral Iron Emission Lines from the Dayside of KELT-9b: The GAPS Program with HARPS-N at TNG XX. Astrophysical Journal Letters, 2020, 894, L27.	8.3	84
14	Silicon planar technology for single-photon optical detectors. IEEE Transactions on Electron Devices, 2003, 50, 918-925.	3.0	82
15	Three years of Sun-as-a-star radial-velocity observations on the approach to solar minimum. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1082-1100.	4.4	81
16	KEPLER-21b: A ROCKY PLANET AROUND A VÂ=Â8.25 mag STAR*. Astronomical Journal, 2016, 152, 204.	4.7	80
17	A MULTI-SITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. II. MODE FREQUENCIES. Astrophysical Journal, 2010, 713, 935-949.	4.5	78
18	TESS Hunt for Young and Maturing Exoplanets (THYME). III. A Two-planet System in the 400 Myr Ursa Major Group. Astronomical Journal, 2020, 160, 179.	4.7	68

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19	Precise Masses in the WASP-47 System. Astronomical Journal, 2017, 154, 237.	4.7	66
20	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
21	A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. Astronomical Journal, 2020, 160, 3.	4.7	62
22	HARPS-N Solar RVs Are Dominated by Large, Bright Magnetic Regions. Astrophysical Journal, 2019, 874, 107.	4.5	59
23	COORDINATED X-RAY AND OPTICAL OBSERVATIONS OF STARâ€“PLANET INTERACTION IN HD 17156. Astrophysical Journal Letters, 2015, 811, L2.	8.3	58
24	The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations. Astronomical Journal, 2017, 153, 224.	4.7	58
25	SARG: The High Resolution Spectrograph of TNG. Experimental Astronomy, 2001, 12, 107-143.	3.7	56
26	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. Astrophysical Journal, 2016, 816, 95.	4.5	55
27	Separating planetary reflex Doppler shifts from stellar variability in the wavelength domain. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1699-1717.	4.4	44
28	HARPS-N @ TNG, two year harvesting data: performances and results. Proceedings of SPIE, 2014, , .	0.8	34
29	TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs. Astronomical Journal, 2020, 160, 22.	4.7	33
30	An unusually low density ultra-short period super-Earth and three mini-Neptunes around the old star TOI-561. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4148-4166.	4.4	32
31	HARPS-N radial velocities confirm the low densities of the Kepler-9 planets. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3233-3243.	4.4	28
32	An astro-comb calibrated solar telescope to search for the radial velocity signature of Venus. Proceedings of SPIE, 2016, , .	0.8	22
33	K2-111: an old system with two planets in near-resonanceâ€. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5004-5021.	4.4	22
34	Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. Astronomical Journal, 2022, 164, 49.	4.7	20
35	Detection Limits of Low-mass, Long-period Exoplanets Using Gaussian Processes Applied to HARPS-N Solar Radial Velocities. Astronomical Journal, 2021, 161, 287.	4.7	17
36	Testing the Spectroscopic Extraction of Suppression of Convective Blueshift. Astrophysical Journal, 2020, 888, 117.	4.5	15

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37	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
38	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. Astronomical Journal, 2019, 158, 165.	4.7	14
39	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
40	<title>Catania Astrophysical Observatory facility for UV CCD characterization</title>. , 1996, , .		12
41	Using HARPS-N to characterize the long-period planets in the PH-2 and Kepler-103 systems. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5103-5121.	4.4	10
42	Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network. Astrophysical Journal, 2021, 920, 21.	4.5	10
43	Silicon planar technology for single-photon optical detectors. , 2004, , .		9
44	SOXS: a wide band spectrograph to follow up transients. , 2018, , .		9
45	The mechanical design of SOXS for the NTT. , 2018, , .		9
46	GIARPS: commissioning and first scientific results. , 2018, , .		8
47	<title>CCD cameras for the Italian national telescope Galileo</title>. , 1996, , .		7
48	BATMAN: a DMD-based multi-object spectrograph on Galileo telescope. , 2014, , .		7
49	MITS: the Multi-Imaging Transient Spectrograph for SOXS. , 2018, , .		7
50	The common path of SOXS (Son of X-Shooter). , 2018, , .		7
51	The assembly integration and test activities for the new SOXS instrument at NTT. , 2018, , .		6
52	The acquisition camera system for SOXS at NTT. , 2018, , .		5
53	Progress on the UV-VIS arm of SOXS. , 2020, , .		5
54	Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf. Astronomical Journal, 2021, 162, 238.	4.7	5

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55	Progress on photon-counting intensified APS. , 2003, 4854, 583.		4
56	SOXS control electronics design. , 2018, , .		4
57	Optical design of the SOXS spectrograph for ESO NTT. , 2018, , .		4
58	The VIS detector system of SOXS. , 2018, , .		4
59	Development status of the SOXS spectrograph for the ESO-NTT telescope. , 2020, , .		4
60	Design study of an adaptive optics visual echelle spectrograph and imager for the VLT. , 2000, , .		3
61	High-resolution spectropolarimetry at the Italian Telescopio Nazionale Galileo. , 2003, , .		3
62	Introducing GOFIO: a DRS for the GIANO-B near-infrared spectrograph. , 2018, , .		3
63	The design of the instrument control unit and its role within the data processing system of the ESA PLATO Mission. , 2018, , .		3
64	Architecture of the SOXS instrument control software. , 2018, , .		3
65	Design and development of the SOXS calibration unit. , 2020, , .		3
66	Manufacturing, integration, and mechanical verification of SOXS. , 2020, , .		3
67	SOXS end-to-end simulator: development and applications for pipeline design. , 2020, , .		3
68	Development status of the UV-VIS detector system of SOXS for the ESO-NTT telescope. , 2020, , .		3
69	K2-79b and K2-222b: Mass Measurements of Two Small Exoplanets with Periods beyond 10 days that Overlap with Periodic Magnetic Activity Signals. Astronomical Journal, 2022, 163, 41.	4.7	3
70	<title>AIR WATCH: air-induced fluorescence by radiation laboratory experiments</title>. , 1998, , .		2
71	Tests of SARG: the high-resolution spectrograph for TNG. , 2000, , .		2
72	Planet candidates from the SARG visual binary survey. Proceedings of the International Astronomical Union, 2010, 6, 403-404.	0.0	2

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73	Path to the stars: the evolution of the species in the hunting to the GRBs. , 2010, , .		2
74	A polarimetric unit for HARPS-North at the Telescopio Nazionale Galileo: HANPO. Proceedings of SPIE, 2014, , .	0.8	2
75	The HARPS-North@TNG polarimeter. , 2016, , .		2
76	The SOXS data-reduction pipeline. , 2020, , .		2
77	Final design and development status of the acquisition and guiding system for SOXS. , 2020, , .		2
78	The AIV strategy of the common path of Son Of X-Shooter. , 2020, , .		2
79	SOXS: effects on optical performances due to gravity flexures, temperature variations, and subsystems alignment. , 2020, , .		2
80	Progress and tests on the instrument control electronics for SOXS. , 2020, , .		2
81	Operational modes and efficiency of SOXS. , 2020, , .		2
82	The development status of the NIR Arm of the new SoXS instrument at the ESO/NTT telescope. , 2020, , .		2
83	<title>AIRWATCH: the fast detector</title>. , 1998, 3445, 486.		1
84	Data handling and control for the European Solar Telescope. Proceedings of SPIE, 2010, , .	0.8	1
85	A Path to the Stars: The Evolution of the Species. Advances in Astronomy, 2010, 2010, 1-14.	1.1	1
86	BATMAN: a DMD-based MOS demonstrator on Galileo Telescope. , 2012, , .		1
87	The NIR spectrograph for the new SOXS instrument at the NTT. , 2018, , .		1
88	GIANO-B online data reduction software at the TNG. , 2018, , .		1
89	Development status of the SOXS instrument control software. , 2020, , .		1
90	A combined software and hardware data compression approach in PLATO. , 2020, , .		1

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91	A New Generation of Data and Control Interfaces for Digital Detectors. , 2006, , 679-684.		1
92	<title>High-resolution spectrograph of TNG: a status report</title>. , 1998, , .		0
93	The new active optics system of TNG. , 2004, , .		0
94	Instrument remote control project at TNG: SARG implementation. , 2004, , .		0
95	The X-shooter Spectrograph: A Second Generation Instrument for the VLT. Research in Astronomy and Astrophysics, 2006, 6, 361-364.	1.1	0
96	Conceptual design of the data handling system for the European Solar Telescope. , 2012, , .		0
97	BATMAN @ TNG: instrument integration and performance. , 2018, , .		0
98	Design and validation of the boot software for the instrument control unit of the PLATO mission. , 2020, , .		0
99	The instrument control unit of the PLATO payload: design consolidation following the preliminary design review by ESA. , 2020, , .		0