Emilio Molinari

List of Publications by Year
in descending order

84 papers	2,873 citations	236925 25 h-index	276875 41 g-index
85 all docs	85 docs citations	85 times ranked	3353 citing authors

#	Article	IF	Citations
1	Harps-N: the new planet hunter at TNG. Proceedings of SPIE, 2012, , .	0.8	219
2	A microphotonic astrocomb. Nature Photonics, 2019, 13, 31-35.	31.4	215
3	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. Astrophysical Journal, 2015, 800, 135.	4.5	211
4	An Earth-sized planet with an Earth-like density. Nature, 2013, 503, 377-380.	27.8	199
5	Atomic iron and titanium in the atmosphere of the exoplanet KELT-9b. Nature, 2018, 560, 453-455.	27.8	179
6	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
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	HÎ± Rotation Curves: The Soft Core Question. Astrophysical Journal, 2002, 575, 801-813.	4.5	103
10	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
11	Five carbon- and nitrogen-bearing species in a hot giant planetâ€™s atmosphere. Nature, 2021, 592, 205-208.	27.8	99
12	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
13	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
14	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
15	KEPLER-21b: A ROCKY PLANET AROUND A VÂ=Â8.25 mag STAR*. Astronomical Journal, 2016, 152, 204.	4.7	80
16	Precise Masses in the WASP-47 System. Astronomical Journal, 2017, 154, 237.	4.7	66
17	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
18	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

#	Article	IF	Citations
19	THE ORBIT AND MASS OF THE THIRD PLANET IN THE KEPLER-56 SYSTEM. Astronomical Journal, 2016, 152, 165.	4.7	58
20	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
21	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
22	Project overview and update on WEAVE: the next generation wide-field spectroscopy facility for the William Herschel Telescope. Proceedings of SPIE, 2014, , .	0.8	47
23	REM: a fully robotic telescope for GRB observations. , 2004, , .		35
24	HARPS-N @ TNG, two year harvesting data: performances and results. Proceedings of SPIE, 2014, , .	0.8	34
25	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
26	TOI-1634 b: An Ultra-short-period Keystone Planet Sitting inside the M-dwarf Radius Valley. Astronomical Journal, 2021, 162, 79.	4.7	25
27	An astro-comb calibrated solar telescope to search for the radial velocity signature of Venus. Proceedings of SPIE, 2016, , .	0.8	22
28	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
29	An Accurate Mass Determination for Kepler-1655b, a Moderately Irradiated World with a Significant Volatile Envelope. Astronomical Journal, 2018, 155, 203.	4.7	19
30	The commissioning of the REM-IR camera at La Silla. , 2004, , .		17
31	The International Robotic Antarctic Infrared Telescope (IRAIT). , 2006, , .		16
32	The REM-IR camera: High quality near infrared imaging with a small robotic telescope. , 2003, 4841, 627.		15
33	The REM telescope: a robotic multiwavelength facility. , 2004, 5492, 1590.		15
34	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. Astronomical Journal, 2019, 158, 165.	4.7	14
35	The REM optical slitless spectrograph (ROSS). , 2004, 5492, 689.		13
36	K2-291b: A Rocky Super-Earth in a 2.2 day Orbit[*] â€. Astronomical Journal, 2019, 157, 116.	4.7	13

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37	Polarization properties at the Nasmyth: focus of the alt-azimuth TNG telescope. , 2003, , .		12
38	The field stabilization and adaptive optics mirrors for the European Extremaly Large Telescope. Proceedings of SPIE, 2008, , .	0.8	10
39	The REM Observing Software. Advances in Astronomy, 2010, 2010, 1-9.	1.1	10
40	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
41	Astro-comb calibrator and spectrograph characterization using a turn-key laser frequency comb. Journal of Astronomical Telescopes, Instruments, and Systems, 2017, 3, 1.	1.8	9
42	BATMAN: a DMD-based multi-object spectrograph on Galileo telescope. , 2014, , .		7
43	VPHG in the cold. , 2003, 4842, 22.		6
44	TORTORA discovery of Naked-Eye Burst fast optical variability. , 2008, , .		5
45	Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf. Astronomical Journal, 2021, 162, 238.	4.7	5
46	AQuA: an automatic pipeline for fast transients detection. , 2004, 5496, 729.		4
47	REM: Automatic for the People. Advances in Astronomy, 2010, 2010, 1-7.	1.1	4
48	ROS2: a multichannel vision for the robotic REM telescope. Proceedings of SPIE, 2014, , .	0.8	4
49	Rewriting optical elements. , 2004, 5494, 545.		3
50	AMICA (Antarctic Multiband Infrared CAmera) project. , 2006, , .		3
51	New developments in photochromic materials for volume phase holographic gratings. , 2006, 6273, 1213.		3
52	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
53	Rewritable photochromic focal plane masks. , 2003, , .		2
54	REM telescope, a robotic facility to monitor the prompt afterglow of Gamma Ray Bursts. , 2003, , .		2

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55	Retrofitting focal reducer spectrographs with removable integral field units. , 2003, 4842, 219.		2
56	Where have our VPHGs gone?. , 2004, , .		2
57	Panoramic detector with high time resolution on base of GaAs photocathode. Proceedings of SPIE, 2008, , .	0.8	2
58	Path to the stars: the evolution of the species in the hunting to the GRBs. , 2010, , .		2
59	The optical tests for the E-ELT adaptive mirror demonstration prototype. , 2010, , .		2
60	Approaches to the interferometric test of large flat mirrors: the case of the adaptive M4 for E-ELT. , 2014, , .		2
61	LOCNES: low cost NIR extended solar telescope. , 2018, , .		2
62	<title>VPHG-based upgrade of the low-resolution spectrograph d.o.lo.res. at the Italian Galileo National Telescope</title>. , 2002, , .		1
63	AGAR-AGAR: a high-efficiency narrow-band imager for ELTs. , 2006, 6269, 1895.		1
64	X-shooter-backbone and UV-blue and visible spectrographs: final AIV and measured performances. , 2008, , .		1
65	Monitoring with high temporal resolution to search for optical transients in the wide field. AIP Conference Proceedings, 2008, , .	0.4	1
66	A Path to the Stars: The Evolution of the Species. Advances in Astronomy, 2010, 2010, 1-14.	1.1	1
67	Optical testing of aspheres based on photochromic computer-generated holograms. , 2010, , .		1
68	BATMAN: a DMD-based MOS demonstrator on Galileo Telescope. , 2012, , .		1
69	The new TNG-DIMM: calibrations and first data analysis. , 2012, , .		1
70	The ICE spectrograph for PEPSI at the LBT: preliminary optical design. , 2003, , .		1
71	<title>Photochromic polymers for erasable focal plane masks and rewritable volume-phase holographic gratings</title>. , 2002, , .		0
72	INCA: a light 1- to 5-Î¼m camera for ground and space applications. , 2004, , .		0

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73	A fiber-fed VPHG-based high-resolution spectrograph for moderate-aperture robotic telescopes. , 2004, , .		0
74	VPHGs abused. , 2006, , .		0
75	AMICA â€“ the infrared eye at Dome C. Proceedings of the International Astronomical Union, 2006, 2, 700-701.	0.0	0
76	Radetzky: a new, large grazing incidence interferometer for large plane surface testing. Proceedings of SPIE, 2008, , .	0.8	0
77	GRB 080319B: the prompt emission of the â€œNaked Eye Burstâ€• AIP Conference Proceedings, 2008, , .	0.4	0
78	VPHGs tunes. , 2008, , .		0
79	Rewritable VPHGs based on photochromic materials. Proceedings of SPIE, 2008, , .	0.8	0
80	A software complex for TNG Observatory efficiency measurements. , 2012, , .		0
81	DMD-based multi-object spectrograph on Galileo telescope. Proceedings of SPIE, 2013, , .	0.8	0
82	LaNotte, the TNG metric system after two years of data. , 2014, , .		0
83	Ground-based complex for detection and investigation of fast optical transients in wide field. , 2008, , .		0
84	Celebrating 20 years of scientific and technical results with the INAF-TNG Telescope. , 2018, , .		0