

Matteo Brogi

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,973
citations

304743

22
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen as atmospheric thermometer. <i>Nature Astronomy</i> , 2022, 6, 182-183.	10.1	1
2	Applications of a Gaussian process framework for modelling of high-resolution exoplanet spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2604-2617.	4.4	4
3	Spatially resolving the terminator: variation of Fe, temperature, and winds in WASP-76b across planetary limbs and orbital phase. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 749-766.	4.4	10
4	SPORK That Spectrum: Increasing Detection Significances from High-resolution Exoplanet Spectroscopy with Novel Smoothing Algorithms. <i>Astronomical Journal</i> , 2022, 164, 35.	4.7	6
5	First Detection of Hydroxyl Radical Emission from an Exoplanet Atmosphere: High-dispersion Characterization of WASP-33b Using Subaru/IRD. <i>Astrophysical Journal Letters</i> , 2021, 910, L9.	8.3	36
6	Five carbon- and nitrogen-bearing species in a hot giant planet's atmosphere. <i>Nature</i> , 2021, 592, 205-208.	27.8	99
7	A Significant Increase in Detection of High-resolution Emission Spectra Using a Three-dimensional Atmospheric Model of a Hot Jupiter. <i>Astronomical Journal</i> , 2021, 161, 1.	4.7	41
8	A solar C/O and sub-solar metallicity in a hot Jupiter atmosphere. <i>Nature</i> , 2021, 598, 580-584.	27.8	82
9	Confirmation of Iron Emission Lines and Nondetection of TiO on the Dayside of KELT-9b with MAROON-X. <i>Astrophysical Journal Letters</i> , 2021, 921, L18.	8.3	22
10	Seeing above the clouds with high-resolution spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 194-204.	4.4	27
11	Molecular cross-sections for high-resolution spectroscopy of super-Earths, warm Neptunes, and hot Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 224-237.	4.4	42
12	A weak spectral signature of water vapour in the atmosphere of HD 179949 b at high spectral resolution in the H_2O band. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 108-119.	4.4	16
13	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
14	A remnant planetary core in the hot-Neptune desert. <i>Nature</i> , 2020, 583, 39-42.	27.8	73
15	Search for TiO and Optical Nightside Emission from the Exoplanet WASP-33b. <i>Astronomical Journal</i> , 2020, 160, 93.	4.7	24
16	Characterization of the Atmosphere of Super-Earth 55 Cancri e Using High-resolution Ground-based Spectroscopy. <i>Astronomical Journal</i> , 2020, 160, 101.	4.7	26
17	Measuring the D/H Ratios of Exoplanets and Brown Dwarfs. <i>Astrophysical Journal Letters</i> , 2019, 882, L29.	8.3	17
18	The High-resolution Transmission Spectrum of HD 189733b Interpreted with Atmospheric Doppler Shifts from Three-dimensional General Circulation Models. <i>Astronomical Journal</i> , 2019, 157, 209.	4.7	69

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19	High-resolution Transit Spectroscopy of Warm Saturns. <i>Astronomical Journal</i> , 2019, 157, 58.	4.7	23
20	Retrieving Temperatures and Abundances of Exoplanet Atmospheres with High-resolution Cross-correlation Spectroscopy. <i>Astronomical Journal</i> , 2019, 157, 114.	4.7	164
21	Escaping atmospheres of extrasolar planets. <i>Science</i> , 2018, 362, 1360-1361.	12.6	1
22	Diagnosing aerosols in extrasolar giant planets with cross-correlation function of water bands. <i>Astronomy and Astrophysics</i> , 2018, 619, A3.	5.1	25
23	A Framework to Combine Low- and High-resolution Spectroscopy for the Atmospheres of Transiting Exoplanets. <i>Astrophysical Journal Letters</i> , 2017, 839, L2.	8.3	108
24	Discovery of Water at High Spectral Resolution in the Atmosphere of 51 Peg b. <i>Astronomical Journal</i> , 2017, 153, 138.	4.7	134
25	Detecting Proxima b's Atmosphere with JWST Targeting CO ₂ at 15 μ m Using a High-pass Spectral Filtering Technique. <i>Astronomical Journal</i> , 2017, 154, 77.	4.7	48
26	The Young Substellar Companion ROXs 12 B: Near-infrared Spectrum, System Architecture, and Spin-Orbit Misalignment. <i>Astronomical Journal</i> , 2017, 154, 165.	4.7	45
27	The slow spin of the young substellar companion GQ Lupi b and its orbital configuration. <i>Astronomy and Astrophysics</i> , 2016, 593, A74.	5.1	64
28	Evidence against a strong thermal inversion in HD 209458b from high-dispersion spectroscopy. <i>Astronomy and Astrophysics</i> , 2015, 576, A111.	5.1	71
29	Fast spin of the young extrasolar planet ρ Pictoris b. <i>Nature</i> , 2014, 509, 63-65.	27.8	307
30	The signature of orbital motion from the dayside of the planet γ , Boötis b. <i>Nature</i> , 2012, 486, 502-504.	27.8	300
31	Detecting life outside our solar system with a large high-contrast-imaging mission. <i>Experimental Astronomy</i> , 0, , 1.	3.7	2
32	Water observed in the atmosphere of γ , Boötis b with CARMENES/CAHA. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	2