

# Zouhair Benkhaldoun

## List of Publications by Year in descending order

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Version: 2024-02-01

140  
papers

3,400  
citations

201674

27  
h-index

155660

55  
g-index

141  
all docs

141  
docs citations

141  
times ranked

3727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1. <i>Nature</i> , 2017, 542, 456-460.	27.8	1,144
2	A seven-planet resonant chain in TRAPPIST-1. <i>Nature Astronomy</i> , 2017, 1, .	10.1	263
3	Refining the Transit-timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides. <i>Planetary Science Journal</i> , 2021, 2, 1.	3.6	161
4	Two New HATNet Hot Jupiters around A Stars and the First Glimpse at the Occurrence Rate of Hot Jupiters from TESS. <i>Astronomical Journal</i> , 2019, 158, 141.	4.7	83
5	Stellar Parameters for Trappist-1. <i>Astrophysical Journal</i> , 2018, 853, 30.	4.5	71
6	FRIPON: a worldwide network to track incoming meteoroids. <i>Astronomy and Astrophysics</i> , 2020, 644, A53.	5.1	58
7	2I/Borisov: A C <sub>2</sub> -depleted interstellar comet. <i>Astronomy and Astrophysics</i> , 2019, 631, L8.	5.1	56
8	The Continuing Search for Evidence of Tidal Orbital Decay of Hot Jupiters. <i>Astronomical Journal</i> , 2020, 159, 150.	4.7	56
9	European Extremely Large Telescope Site Characterization I: Overview. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 1334-1346.	3.1	52
10	VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. <i>Astronomy and Astrophysics</i> , 2021, 654, A56.	5.1	50
11	A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266. <i>Astronomy and Astrophysics</i> , 2020, 642, A49.	5.1	49
12	Climatologies of nighttime thermospheric winds and temperatures from Fabry-Perot interferometer measurements: From solar minimum to solar maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6679-6693.	2.4	47
13	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A173.	5.1	47
14	Validation of ICON-MIGHTI Thermospheric Wind Observations: 1. Nighttime Red-Line Ground-Based Fabry-Perot Interferometers. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028726.	2.4	43
15	The First Post-Kepler Brightness Dips of KIC 8462852. <i>Astrophysical Journal Letters</i> , 2018, 853, L8.	8.3	38
16	A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. <i>Nature Astronomy</i> , 2020, 4, 136-141.	10.1	38
17	SPECULOOS: a network of robotic telescopes to hunt for terrestrial planets around the nearest ultracool dwarfs. , 2018, , .		38
18	Optical turbulence modeling in the boundary layer and free atmosphere using instrumented meteorological balloons. <i>Astronomy and Astrophysics</i> , 2004, 416, 1193-1200.	5.1	37

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19	Power and duration of impact flashes on the Moon: Implication for the cause of radiation. <i>Icarus</i> , 2012, 218, 115-124.	2.5	36
20	The global oscillation network group site survey. <i>Solar Physics</i> , 1994, 152, 351-379.	2.5	35
21	TESS Hunt for Young and Maturing Exoplanets (THYME). IV. Three Small Planets Orbiting a 120 Myr Old Star in the Pisces-Eridanus Stream*. <i>Astronomical Journal</i> , 2021, 161, 65.	4.7	34
22	High resolution optical spectroscopy of the N <sub>2</sub> -rich comet C/2016 R2 (PanSTARRS). <i>Astronomy and Astrophysics</i> , 2019, 624, A64.	5.1	33
23	Meteorological profiles and optical turbulence in the free atmosphere with NCEP/NCAR data at Oukaïmeden - I. Meteorological parameters analysis and tropospheric wind regimes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 637-650.	4.4	32
24	Discovery of Three New Transiting Hot Jupiters: WASP-161 b, WASP-163 b, and WASP-170 b. <i>Astronomical Journal</i> , 2019, 157, 43.	4.7	32
25	Study of the Plutino Object (208996) 2003 AZ <sub>84</sub> from Stellar Occultations: Size, Shape, and Topographic Features. <i>Astronomical Journal</i> , 2017, 154, 22.	4.7	31
26	A Global Fireball Observatory. <i>Planetary and Space Science</i> , 2020, 191, 105036.	1.7	31
27	Single star scidar: atmospheric parameters profiling using the simulated annealing algorithm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 368, 1456-1462.	4.4	29
28	The impact crater at the origin of the Julia family detected with VLT/SPHERE?. <i>Astronomy and Astrophysics</i> , 2018, 618, A154.	5.1	29
29	Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988-2016. <i>Astronomy and Astrophysics</i> , 2019, 625, A42.	5.1	29
30	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	5.1	27
31	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
32	Seeing, outer scale of optical turbulence, and coherence outer scale at different astronomical sites using instruments on meteorological balloons. <i>Astronomy and Astrophysics</i> , 2004, 422, 1123-1127.	5.1	25
33	Monitoring of the activity and composition of comets 41P/Tuttle-Giacobini-Kresak and 45P/Honda-Mrkos-Pajdusakova. <i>Astronomy and Astrophysics</i> , 2018, 619, A156.	5.1	24
34	HATS-74Ab, HATS-75b, HATS-76b, and HATS-77b: Four Transiting Giant Planets Around K and M Dwarfs*. <i>Astronomical Journal</i> , 2022, 163, 125.	4.7	24
35	European Extremely Large Telescope Site Characterization. II. High Angular Resolution Parameters. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 868-884.	3.1	22
36	Climatology of thermospheric neutral winds over Oukaïmeden Observatory in Morocco. <i>Annales Geophysicae</i> , 2017, 35, 161-170.	1.6	21

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37	Optical seeing monitoring at the Oukaïmeden in the Moroccan high atlas mountains: first statistics. <i>Astronomy and Astrophysics</i> , 2005, 441, 839-843.	5.1	20
38	The Magellan-TESS Survey. I. Survey Description and Midsurvey Results* â€. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 33.	7.7	19
39	Dust properties of double-tailed active asteroid (6478) Gault. <i>Astronomy and Astrophysics</i> , 2019, 624, L14.	5.1	18
40	Warm Jupiters in TESS Full-frame Images: A Catalog and Observed Eccentricity Distribution for Year 1. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 6.	7.7	18
41	A meteorological and photometric study of the Oukaïmeden site. <i>Astronomy and Astrophysics</i> , 2000, 147, 271-284.	2.1	17
42	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
43	TOI-2257 b: A highly eccentric long-period sub-Neptune transiting a nearby M dwarf. <i>Astronomy and Astrophysics</i> , 2022, 657, A45.	5.1	15
44	A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions. <i>Astronomical Journal</i> , 2022, 163, 207.	4.7	15
45	High-altitude wind velocity at Oukaïmeden observatory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 862-872.	4.4	14
46	WASP-South hot Jupiters: WASP-178b, WASP-184b, WASP-185b, and WASP-192b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1479-1487.	4.4	14
47	Three hot-Jupiters on the upper edge of the massâ€radius distribution: WASP-177, WASP-181, and WASP-183. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5790-5799.	4.4	14
48	First Lunar Flashes Observed from Morocco (ILIAD Network): Implications for Lunar Seismology. <i>Earth, Moon and Planets</i> , 2015, 115, 1-21.	0.6	13
49	Ionospheric and thermospheric response to the 27â€28 February 2014 geomagnetic storm over north Africa. <i>Annales Geophysicae</i> , 2018, 36, 987-998.	1.6	13
50	TESS Discovery of a Super-Earth and Three Sub-Neptunes Hosted by the Bright, Sun-like Star HD 108236. <i>Astronomical Journal</i> , 2021, 161, 85.	4.7	13
51	TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4120-4139.	4.4	13
52	Isoplanatic angle for multi-aperture interferometers from isoplanatic angle. <i>Astronomy and Astrophysics</i> , 2008, 477, 337-344.	5.1	12
53	European Extremely Large Telescope Site Characterization III: Ground Meteorology. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 412-431.	3.1	12
54	Properties of sub-Neptune atmospheres: TOI-270 system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 962-970.	4.4	12

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55	Development in astronomy and space science in Africa. <i>Nature Astronomy</i> , 2018, 2, 507-510.	10.1	11
56	WASP-180Ab: Doppler tomography of a hot Jupiter orbiting the primary star in a visual binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2467-2474.	4.4	11
57	NEID Rossiterâ€œMcLaughlin Measurement of TOI-1268b: A Young Warm Saturn Aligned with Its Cool Host Star. <i>Astrophysical Journal Letters</i> , 2022, 926, L7.	8.3	11
58	A robust method to identify meteor showers new parent bodies from the SonotaCo and EDMOND meteoroid orbit databases. <i>Astronomy and Astrophysics</i> , 2019, 622, A84.	5.1	10
59	Comparison of ionospheric anomalies over African equatorial/low-latitude region with IRI-2016 model predictions during the maximum phase of solar cycle 24. <i>Advances in Space Research</i> , 2021, 68, 1473-1484.	2.6	10
60	(6478) Gault: physical characterization of an active main-belt asteroid. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 245-258.	4.4	10
61	WASP-169, WASP-171, WASP-175, and WASP-182: three hot Jupiters and one bloated sub-Saturn mass planet discovered by WASP-South. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2478-2487.	4.4	9
62	Quiet Time Ionospheric Irregularities Over the African Equatorial Ionization Anomaly Region. <i>Radio Science</i> , 2020, 55, e2020RS007077.	1.6	9
63	TOI-1259Ab â€œ a gas giant planet with 2.7â€œperâ€œcent deep transits and a bound white dwarf companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 4132-4148.	4.4	9
64	Correlation between TOMS aerosol index and astronomical extinction. , 2004, , .		8
65	Dust modelling and a dynamical study of comet 41P/Tuttleâ€œGiacobiniâ€œKresak during its 2017 perihelion passage. <i>Astronomy and Astrophysics</i> , 2018, 615, A154.	5.1	8
66	Discovery of a pre-cataclysmic binary with unusual chromaticity of the eclipsed white dwarf by the GPX survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5208-5217.	4.4	8
67	Validation of 13 Hot and Potentially Terrestrial TESS Planets. <i>Astronomical Journal</i> , 2022, 163, 99.	4.7	8
68	Constraints on the structure and seasonal variations of Tritonâ€™s atmosphere from the 5 October 2017 stellar occultation and previous observations. <i>Astronomy and Astrophysics</i> , 2022, 659, A136.	5.1	8
69	A helium P-Cygni profile in RR Lyrae stars?. <i>Astronomy and Astrophysics</i> , 2016, 587, A134.	5.1	7
70	Peering into space with the Morocco Oukaïmeden Observatory. <i>Nature Astronomy</i> , 2018, 2, 352-354.	10.1	7
71	Reactive collision of electrons with CO <sup>+</sup> in cometary coma. <i>Astronomy and Astrophysics</i> , 2018, 615, A53.	5.1	7
72	Thermospheric Neutral Winds Above the Oukaimeden Observatory: Effects of Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027383.	2.4	7

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73	Properties of slowly rotating asteroids from the Convex Inversion Thermophysical Model. <i>Astronomy and Astrophysics</i> , 2021, 654, A87.	5.1	7
74	Moroccan participation in the study of solar oscillations. <i>Solar Physics</i> , 1991, 133, 61-64.	2.5	6
75	A simple flux integration photometer for day time site testing at Oukaïmeden. <i>Experimental Astronomy</i> , 1992, 2, 345-356.	3.7	6
76	Africa Initiative for Planetary and Space Sciences. <i>Eos</i> , 2017, , .	0.1	6
77	The first optical characterization of the Oukaïmeden site with the Generalized Seeing Monitor (GSM). <i>Astronomy and Astrophysics</i> , 2001, 365, 324-329.	5.1	6
78	Tribological Behavior of PVD Hard Coated Cutting Tools under Cryogenic Cooling Conditions. <i>Procedia CIRP</i> , 2017, 58, 561-565.	1.9	5
79	Qatar Exoplanet Survey: Qatar-8b, 9b, and 10b—A Hot Saturn and Two Hot Jupiters. <i>Astronomical Journal</i> , 2019, 157, 224.	4.7	5
80	Physical parameters of selected <i>Gaia</i> mass asteroids. <i>Astronomy and Astrophysics</i> , 2020, 638, A11.	5.1	5
81	Discovery of a young low-mass brown dwarf transiting a fast-rotating F-type star by the Galactic Plane exoplanet (GPX) survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4956-4967.	4.4	5
82	Interferential seeing monitor. <i>Astronomy and Astrophysics</i> , 2008, 482, 365-370.	5.1	5
83	Aerosol Distributions and Transport over Southern Morocco from Ground-Based and Satellite Observations (2004–2020). <i>Atmosphere</i> , 2022, 13, 923.	2.3	5
84	Title is missing!. <i>Experimental Astronomy</i> , 2002, 13, 159-170.	3.7	4
85	First characterization of Jbel Aklim in Moroccan Anti-Atlas as a potential site for the E-ELT. <i>Astronomy and Astrophysics</i> , 2010, 522, A69.	5.1	4
86	Photometry and high-resolution spectroscopy of comet 21P/Giacobini-Zinner during its 2018 apparition. <i>Astronomy and Astrophysics</i> , 2020, 640, A54.	5.1	4
87	The State of Planetary and Space Sciences in Africa. <i>Eos</i> , 2017, , .	0.1	4
88	Two Transiting Hot Jupiters from the WASP Survey: WASP-150b and WASP-176b. <i>Astronomical Journal</i> , 2020, 159, 255.	4.7	4
89	Aerosol Distributions and Sahara Dust Transport in Southern Morocco, from Ground-Based and Satellite Observations. <i>Remote Sensing</i> , 2022, 14, 2454.	4.0	4
90	Study of the clear time behavior on Oukaïmeden observatory using the IRIS database. <i>New Astronomy</i> , 2004, 9, 291-295.	1.8	3

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91	Assessment of the potential of the new Belgo-Moroccan telescope TRAPPIST-North for high-precision exoplanet transit photometry. <i>Journal of Physics: Conference Series</i> , 2017, 869, 012073.	0.4	3
92	Potential and sky coverage for off-axis fringe tracking in optical long baseline interferometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1364-1388.	4.4	3
93	Network of Oriental Robotic Telescopes. <i>Highlights of Astronomy</i> , 1995, 10, 677-679.	0.0	2
94	Aerosol columnar characterization in Morocco: ELT prospect. <i>New Astronomy</i> , 2008, 13, 41-52.	1.8	2
95	Circular aperture interferometric apodization using homothety - I. Simulation results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 2743-2748.	4.4	2
96	Homothetic apodization of circular aperture HACA: simulation results. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
97	Numerical simulations of a new approach for seeing measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 742-747.	4.4	2
98	First statistics of the isopistonc angle for long baseline interferometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 4044-4051.	4.4	2
99	Attempt to assess astronomical ?seeing? using a model. <i>Astrophysics and Space Science</i> , 1996, 239, 237-245.	1.4	1
100	OWL site survey: first seeing measurement with ADIMM. , 2004, 5489, 113.		1
101	Limiting magnitude for Dome C optical interferometers. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 313-316.	0.0	1
102	Cross-calibration of DIMM monitors at Oukaimden observatory and Marrakesh site. <i>Experimental Astronomy</i> , 2010, 28, 87-99.	3.7	1
103	From Asteroids to Space Debris. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 324-326.	0.0	1
104	Hierarchical fringe tracker to co-phase and coherence very large optical interferometers. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
105	Metallic Line Doubling in the Spectra of the Variable Star R Scuti. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 368-370.	0.0	1
106	(208) Lacrimosa: A case that missed the Slivan state?. <i>Astronomy and Astrophysics</i> , 2021, 649, A45.	5.1	1
107	First characterization of Jbel Aklim in Moroccan Anti-Atlas as a potential site for the E-ELT. , 2010, , .		1
108	Using the OWL@OUKA telescope to follow-up the TESS planet candidates: first results. , 2020, , .		1

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109	Optical turbulence outer scale and coherence outer scale at different astronomical sites. , 2004, , .		0
110	ELT site prospect in Morocco: aerosol characterization. , 2006, , .		0
111	Effect of altitude on aerosol optical properties. Proceedings of the International Astronomical Union, 2006, 2, 111-114.	0.0	0
112	Astronomical extinction over the ELT Moroccan sites from aerosol satellite data. Proceedings of the International Astronomical Union, 2006, 2, 107-110.	0.0	0
113	Deep sky observations with Dome C optical interferometers. , 2006, , .		0
114	Aerosol characterization of Morocco with AERONET and intercomparison with satellite data: TOMS, MODIS and MISR. Proceedings of SPIE, 2007, , .	0.8	0
115	Neural networks based control of chaotic Phase-Locked Loop. , 2008, , .		0
116	Influence of instrumental noise and defocus on the DIMM. , 2008, , .		0
117	Interferential seeing monitor. , 2008, , .		0
118	Meteorological study of Aklim site in Morocco. Proceedings of SPIE, 2008, , .	0.8	0
119	Meteorological parameters analysis above Oukaimeden Observatory using NCEP/NCAR data. , 2010, , .		0
120	Oukaimeden Observatory: detection of exoplanet HD 189733b by the transit method. Proceedings of SPIE, 2010, , .	0.8	0
121	Study of AERONET data of nearby stations in the Canary Islands: application to infer astronomical extinction coefficient at elevated altitudes. , 2010, , .		0
122	E-ELT: Isopistonc and isoplanatic angles at Aklim candidate site. , 2010, , .		0
123	A project of a two meter telescope in North Africa. Proceedings of the International Astronomical Union, 2012, 10, 558-558.	0.0	0
124	E-ELT seeing and isoplanatic angle: comparison of Aklim site and El Roque de Los Muchachos Observatory. Proceedings of SPIE, 2014, , .	0.8	0
125	Hierarchical fringe tracking. , 2014, , .		0
126	Astroclimate at Jbel Aklim site in Moroccan anti-atlas: 2008-2010 seeing and isoplanatic angle statistics from the E-ELT site testing data. , 2014, , .		0



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127	The OTP-model applied to the Aklim site database. Proceedings of SPIE, 2014, , .	0.8	0
128	Monitoring of comets activity and composition with the TRAPPIST-North telescope. Journal of Physics: Conference Series, 2017, 869, 012079.	0.4	0
129	Metallic line doubling in the spectra of the variable RR Lyrae star. Journal of Physics: Conference Series, 2017, 869, 012088.	0.4	0
130	Variability of the Vertical Total Electron Content, from GPS data, during 2 to 8 November 2015, Using Oukaimeden and Rabat Stations in Morocco. Proceedings of the International Astronomical Union, 2017, 13, 159-161.	0.0	0
131	The Space Weather through a Multidisciplinary Scientific Approach. Proceedings of the International Astronomical Union, 2017, 13, 280-283.	0.0	0
132	Thermospheric Dynamics in Quiet and Disturbed Conditions. Proceedings of the International Astronomical Union, 2017, 13, 151-158.	0.0	0
133	Modeling the Transmission Spectra of WASP-31b. Proceedings of the International Astronomical Union, 2018, 14, 383-385.	0.0	0
134	The Arab Astronomical Society (ArAS): Developing Astrophysics Research in the Arab World. Proceedings of the International Astronomical Union, 2018, 13, 256-259.	0.0	0
135	FM14 Session 3: The IAU National Outreach Coordinators (NOCs) Network â€œ Coordinating and Catalyzing Astronomy Outreach Worldwide. Proceedings of the International Astronomical Union, 2018, 14, 542-543.	0.0	0
136	Meteor Detection from the Fireball Moroccan Network: First Orbital Results and Links to Parent Bodies. Astronomy Reports, 2019, 63, 619-632.	0.9	0
137	Ionosphere-thermosphere coupling during the 22â€œ23 June 2015 geomagnetic storm: Swarm and FPI coordinated observations above the Oukaimeden observatory. , 2021, , .		0
138	European Extremely Large Telescope: Isopistonc Angle Measurements at Aklim Site. International Journal of Computer Applications, 2014, 99, 1-4.	0.2	0
139	Detection and calculation of meteor trajectories by MOFID All Sky cameras network. , 2020, , .		0
140	Interferential seeing monitor, a seeing monitor for atmospheric turbulence studies: calibration with the differential image motion monitor. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1884-1888.	4.4	0