

Nã©stor Espinoza

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

4,200
citations

126907

33
h-index

155660

55
g-index

113
all docs

113
docs citations

113
times ranked

2504
citing authors

#	ARTICLE	IF	CITATIONS
1	Water vapour absorption in the clear atmosphere of a Neptune-sized exoplanet. <i>Nature</i> , 2014, 513, 526-529.	27.8	238
2	Limb darkening and exoplanets: testing stellar model atmospheres and identifying biases in transit parameters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1879-1899.	4.4	185
3	juliet: a versatile modelling tool for transiting and non-transiting exoplanetary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2262-2283.	4.4	167
4	CERES: A Set of Automated Routines for Echelle Spectra. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 034002.	3.1	144
5	ACCESS I. AN OPTICAL TRANSMISSION SPECTRUM OF GJ 1214b REVEALS A HETEROGENEOUS STELLAR PHOTOSPHERE. <i>Astrophysical Journal</i> , 2017, 834, 151.	4.5	128
6	HATS-6b: A WARM SATURN TRANSITING AN EARLY M DWARF STAR, AND A SET OF EMPIRICAL RELATIONS FOR CHARACTERIZING K AND M DWARF PLANET HOSTS. <i>Astronomical Journal</i> , 2015, 149, 166.	4.7	106
7	A GROUND-BASED OPTICAL TRANSMISSION SPECTRUM OF WASP-6b. <i>Astrophysical Journal</i> , 2013, 778, 184.	4.5	100
8	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i>. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
9	ACCESS: a featureless optical transmission spectrum for WASP-19b from Magellan/IMACS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 2065-2087.	4.4	99
10	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. <i>Astronomy and Astrophysics</i> , 2019, 628, A39.	5.1	97
11	Limb darkening and exoplanets â€“ II. Choosing the best law for optimal retrieval of transit parameters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3573-3581.	4.4	95
12	Metal Enrichment Leads to Low Atmospheric C/O Ratios in Transiting Giant Exoplanets. <i>Astrophysical Journal Letters</i> , 2017, 838, L9.	8.3	95
13	HATS-4b: A DENSE HOT JUPITER TRANSITING A SUPER METAL-RICH G STAR. <i>Astronomical Journal</i> , 2014, 148, 29.	4.7	84
14	Two New HATNet Hot Jupiters around A Stars and the First Glimpse at the Occurrence Rate of Hot Jupiters from TESS^{âˆ—}. <i>Astronomical Journal</i> , 2019, 158, 141.	4.7	83
15	HATS-1b: THE FIRST TRANSITING PLANET DISCOVERED BY THE HATSouth SURVEY. <i>Astronomical Journal</i> , 2013, 145, 5.	4.7	75
16	HATS-3b: AN INFLATED HOT JUPITER TRANSITING AN F-TYPE STAR. <i>Astronomical Journal</i> , 2013, 146, 113.	4.7	75
17	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	4.7	72
18	EARLY OPTICAL SPECTRA OF NOVA V1369 CEN SHOW THE PRESENCE OF LITHIUM. <i>Astrophysical Journal Letters</i> , 2015, 808, L14.	8.3	71

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19	HATS-17b: A TRANSITING COMPACT WARM JUPITER IN A 16.3 DAY CIRCULAR ORBIT*. <i>Astronomical Journal</i> , 2016, 151, 89.	4.7	57
20	HATS-18B: AN EXTREME SHORT-PERIOD MASSIVE TRANSITING PLANET SPINNING UP ITS STAR^{âˆ—}. <i>Astronomical Journal</i> , 2016, 152, 127.	4.7	54
21	HATS9-b AND HATS10-b: TWO COMPACT HOT JUPITERS IN FIELD 7 OF THE K2 MISSION. <i>Astronomical Journal</i> , 2015, 150, 33.	4.7	52
22	HATS-25B THROUGH HATS-30B: A HALFa€“DOZEN NEW INFLATED TRANSITING HOT JUPITERS FROM THE HATSOUTH SURVEY*. <i>Astronomical Journal</i> , 2016, 152, 108.	4.7	49
23	DISCOVERY AND VALIDATION OF A HIGH-DENSITY SUB-NEPTUNE FROM THE K2 MISSION. <i>Astrophysical Journal</i> , 2016, 830, 43.	4.5	49
24	The massâ€“radius relationship for very low mass stars: four new discoveries from the HATSouth Surveyâˆ“.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 437, 2831-2844.	4.4	48
25	HATS-7b: A HOT SUPER NEPTUNE TRANSITING A QUIET K DWARF STAR. <i>Astrophysical Journal</i> , 2015, 813, 111.	4.5	48
26	HATS-8b: A LOW-DENSITY TRANSITING SUPER-NEPTUNE. <i>Astronomical Journal</i> , 2015, 150, 49.	4.7	47
27	An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the Transiting Exoplanet Survey Satellite Full Frame Images. <i>Astronomical Journal</i> , 2019, 157, 191.	4.7	46
28	Efficient Joint Sampling of Impact Parameters and Transit Depths in Transiting Exoplanet Light Curves. <i>Research Notes of the AAS</i> , 2018, 2, 209.	0.7	46
29	An ultrahot Neptune in the Neptune desert. <i>Nature Astronomy</i> , 2020, 4, 1148-1157.	10.1	43
30	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. <i>Science</i> , 2021, 371, 1038-1041.	12.6	41
31	HATS-2b: A transiting extrasolar planet orbiting a <i>K</i> -type star showing starspot activity. <i>Astronomy and Astrophysics</i> , 2013, 558, A55.	5.1	40
32	HD 1397b: A Transiting Warm Giant Planet Orbiting A V=7.8 mag Subgiant Star Discovered by TESS. <i>Astronomical Journal</i> , 2019, 158, 45.	4.7	39
33	LRG-BEASTS: Transmission Spectroscopy and Retrieval Analysis of the Highly Inflated Saturn-mass Planet WASP-39b. <i>Astronomical Journal</i> , 2019, 158, 144.	4.7	39
34	Two Intermediate-mass Transiting Brown Dwarfs from the TESS Mission. <i>Astronomical Journal</i> , 2020, 160, 53.	4.7	39
35	HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright (<i>V</i> = 7.9) star unveiled by <i>TESS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2982-2999.	4.4	38
36	Cluster Difference Imaging Photometric Survey. II. TOI 837: A Young Validated Planet in IC 2602. <i>Astronomical Journal</i> , 2020, 160, 239.	4.7	38

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37	K2-140b â€“ an eccentric 6.57â€‰d transiting hot Jupiter in Virgo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1809-1818.	4.4	37
38	K2-114b and K2-115b: Two Transiting Warm Jupiters. <i>Astronomical Journal</i> , 2017, 154, 188.	4.7	36
39	HATS-43b, HATS-44b, HATS-45b, and HATS-46b: Four Short-period Transiting Giant Planets in the Neptuneâ€“Jupiter Mass Range*. <i>Astronomical Journal</i> , 2018, 155, 112.	4.7	35
40	HATS-70b: A 13 MJ Brown Dwarf Transiting an A Star*. <i>Astronomical Journal</i> , 2019, 157, 31.	4.7	35
41	ACCESS and LRG-BEASTS: A Precise New Optical Transmission Spectrum of the Ultrahot Jupiter WASP-103b. <i>Astronomical Journal</i> , 2021, 162, 34.	4.7	35
42	A hot terrestrial planet orbiting the bright M dwarf L 168-9 unveiled by TESS. <i>Astronomy and Astrophysics</i> , 2020, 636, A58.	5.1	35
43	HATS-31B THROUGH HATS-35B: FIVE TRANSITING HOT JUPITERS DISCOVERED BY THE HATSOUTH SURVEY*. <i>Astronomical Journal</i> , 2016, 152, 161.	4.7	33
44	An Independent Discovery of Two Hot Jupiters from the K2 Mission. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 124402.	3.1	33
45	HD 2685 <i>b</i>: a hot Jupiter orbiting an early F-type star detected by TESS. <i>Astronomy and Astrophysics</i> , 2019, 625, A16.	5.1	33
46	Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap?. <i>Astronomy and Astrophysics</i> , 2020, 639, A132.	5.1	33
47	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3704-3722.	4.4	33
48	HATS-11B AND HATS-12B: TWO TRANSITING HOT JUPITERS ORBITING SUBSOLAR METALLICITY STARS SELECTED FOR THE K2 CAMPAIGN 7*. <i>Astronomical Journal</i> , 2016, 152, 88.	4.7	32
49	TOI-677b: A Warm Jupiter (P = 11.2 days) on an Eccentric Orbit Transiting a Late F-type Star. <i>Astronomical Journal</i> , 2020, 159, 145.	4.7	32
50	HATS-50b through HATS-53b: Four Transiting Hot Jupiters Orbiting G-type Stars Discovered by the HATSouth Survey*. <i>Astronomical Journal</i> , 2018, 155, 79.	4.7	30
51	HATS-39b, HATS-40b, HATS-41b, and HATS-42b: three inflated hot Jupiters and a super-Jupiter transiting F stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 3406-3423.	4.4	30
52	TOI-222: a single-transit TESS candidate revealed to be a 34-d eclipsing binary with CORALIE, EulerCam, and NGTS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1761-1769.	4.4	30
53	NGTS-11 b (TOI-1847 b): A Transiting Warm Saturn Recovered from a TESS Single-transit Event. <i>Astrophysical Journal Letters</i> , 2020, 898, L11.	8.3	30
54	K2-113: a dense hot-Jupiter transiting a solar analogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4374-4380.	4.4	29

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55	Empirical Limb-darkening Coefficients and Transit Parameters of Known Exoplanets from TESS. <i>Astronomical Journal</i> , 2022, 163, 228.	4.7	28
56	HATS-36b and 24 Other Transiting/Eclipsing Systems from the HATSouth-K2 Campaign 7 Program. <i>Astronomical Journal</i> , 2018, 155, 119.	4.7	27
57	HATS-60b–HATS-69b: 10 Transiting Planets from HATSouth*. <i>Astronomical Journal</i> , 2019, 157, 55.	4.7	27
58	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). <i>Astronomy and Astrophysics</i> , 2020, 642, A236.	5.1	27
59	An ultra-short-period transiting super-Earth orbiting the M3 dwarf TOI-1685. <i>Astronomy and Astrophysics</i> , 2021, 650, A78.	5.1	27
60	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 636, A119.	5.1	24
61	HATS-71b: A Giant Planet Transiting an M3 Dwarf Star in TESS Sector 1. <i>Astronomical Journal</i> , 2020, 159, 267.	4.7	24
62	TOI-481 b and TOI-892 b: Two Long-period Hot Jupiters from the Transiting Exoplanet Survey Satellite. <i>Astronomical Journal</i> , 2020, 160, 235.	4.7	23
63	ACCESS: A Visual to Near-infrared Spectrum of the Hot Jupiter WASP-43b with Evidence of H ₂ O, but No Evidence of Na or K. <i>Astronomical Journal</i> , 2020, 159, 13.	4.7	22
64	TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images. <i>Astronomical Journal</i> , 2021, 161, 194.	4.7	22
65	TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf. <i>Astronomy and Astrophysics</i> , 2021, 656, A124.	5.1	22
66	Precise Transit and Radial-velocity Characterization of a Resonant Pair: The Warm Jupiter TOI-216c and Eccentric Warm Neptune TOI-216b. <i>Astronomical Journal</i> , 2021, 161, 161.	4.7	21
67	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021, 161, 235.	4.7	20
68	Mass and density of the transiting hot and rocky super-Earth LHS 1478 b (TOI-1640 b). <i>Astronomy and Astrophysics</i> , 2021, 649, A144.	5.1	19
69	TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2782-2803.	4.4	19
70	A Highly Eccentric Warm Jupiter Orbiting TIC 237913194. <i>Astronomical Journal</i> , 2020, 160, 275.	4.7	19
71	ACCESS: Ground-based Optical Transmission Spectroscopy of the Hot Jupiter WASP-4b. <i>Astronomical Journal</i> , 2019, 157, 68.	4.7	18
72	EDEN: Sensitivity Analysis and Transiting Planet Detection Limits for Nearby Late Red Dwarfs. <i>Astronomical Journal</i> , 2020, 159, 169.	4.7	18

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73	Constraining Mornings and Evenings on Distant Worlds: A new Semianalytical Approach and Prospects with Transmission Spectroscopy. <i>Astronomical Journal</i> , 2021, 162, 165.	4.7	18
74	LBT transmission spectroscopy of HAT-P-12b. <i>Astronomy and Astrophysics</i> , 2020, 642, A98.	5.1	18
75	K2-232 b: a transiting warm Saturn on an eccentric $P=11.2$ d orbit around a $V=9.9$ star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2572-2581.	4.4	17
76	Three short-period Jupiters from TESS. <i>Astronomy and Astrophysics</i> , 2020, 639, A76.	5.1	17
77	The Multiplanet System TOI-421: A Warm Neptune and a Super Puffy Mini-Neptune Transiting a G9 V Star in a Visual Binary*. <i>Astronomical Journal</i> , 2020, 160, 114.	4.7	17
78	TOI-150b and TOI-163b: two transiting hot Jupiters, one eccentric and one inflated, revealed by TESS near and at the edge of the JWST CVZ. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1094-1110.	4.4	16
79	HATS-54b and HATS-58Ab: Five New Transiting Hot Jupiters Including One with a Possible Temperate Companion*. <i>Astronomical Journal</i> , 2019, 158, 63.	4.7	15
80	Indications for very high metallicity and absence of methane in the eccentric exo-Saturn WASP-117b. <i>Astronomy and Astrophysics</i> , 2021, 646, A168.	5.1	15
81	K2-287 b: An Eccentric Warm Saturn Transiting a G-dwarf. <i>Astronomical Journal</i> , 2019, 157, 100.	4.7	14
82	ACCESS: Confirmation of No Potassium in the Atmosphere of WASP-31b. <i>Astronomical Journal</i> , 2020, 160, 230.	4.7	14
83	Precision stellar radial velocity measurements with FIDEOS at the ESO 1-m telescope of La Silla. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5041-5051.	4.4	13
84	A Pair of Warm Giant Planets near the 2:1 Mean Motion Resonance around the K-dwarf Star TOI-2202*. <i>Astronomical Journal</i> , 2021, 162, 283.	4.7	13
85	A hot Saturn on an eccentric orbit around the giant star K2-132. <i>Astronomy and Astrophysics</i> , 2018, 613, A76.	5.1	12
86	K2-19b and c are in a 3:2 Commensurability but out of Resonance: A Challenge to Planet Assembly by Convergent Migration. <i>Astronomical Journal</i> , 2020, 159, 2.	4.7	12
87	TESS Giants Transiting Giants. I.: A Noninflated Hot Jupiter Orbiting a Massive Subgiant. <i>Astronomical Journal</i> , 2022, 163, 53.	4.7	12
88	Orbital and physical parameters of eclipsing binaries from the All-Sky Automated Survey catalogue. <i>Astronomy and Astrophysics</i> , 2014, 567, A64.	5.1	11
89	K2-161b: a low-density super-Neptune on an eccentric orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1970-1979.	4.4	11
90	K2-237 b and K2-238 b: discovery and characterization of two new transiting hot Jupiters from K2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 5356-5365.	4.4	10

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91	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
92	Orbital and physical parameters of eclipsing binaries from the All-Sky Automated Survey catalogue. <i>Astronomy and Astrophysics</i> , 2019, 622, A114.	5.1	9
93	ACCESS: An Optical Transmission Spectrum of the High-gravity Hot Jupiter HAT-P-23b. <i>Astronomical Journal</i> , 2021, 161, 278.	4.7	9
94	Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b. <i>Astronomy and Astrophysics</i> , 2022, 659, A17.	5.1	9
95	HATS-47b, HATS-48Ab, HATS-49b, and HATS-72b: Four Warm Giant Planets Transiting K Dwarfs*. <i>Astronomical Journal</i> , 2020, 159, 173.	4.7	8
96	TOI-954 b and K2-329 b: Short-period Saturn-mass Planets that Test whether Irradiation Leads to Inflation. <i>Astronomical Journal</i> , 2021, 161, 82.	4.7	8
97	Orbital and physical parameters of eclipsing binaries from the ASAS catalogue â€“ VII. V1200 Centauri: a bright triple in the Hyades moving groupâˆ“.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 1937-1944.	4.4	7
98	Estimation of singly transiting K2 planet periods with Gaia parallaxes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3149-3161.	4.4	7
99	EDEN: Flare Activity of the Nearby Exoplanet-hosting M Dwarf Wolf 359 Based on K2 and EDEN Light Curves. <i>Astronomical Journal</i> , 2021, 162, 11.	4.7	7
100	A multi-planetary system orbiting the early-M dwarf TOI-1238. <i>Astronomy and Astrophysics</i> , 2022, 658, A138.	5.1	7
101	An Alternative Derivation of the Analytic Expression of Transmission Spectra. <i>Research Notes of the AAS</i> , 2018, 2, 149.	0.7	6
102	Orbital and physical parameters of eclipsing binaries from the ASAS catalogue â€“ XII. A sample of systems with <i>K2</i> photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5687-5708.	4.4	6
103	HATS-37Ab and HATS-38b: Two Transiting Hot Neptunes in the Desert*. <i>Astronomical Journal</i> , 2020, 160, 222.	4.7	6
104	HATS-59b,c: A Transiting Hot Jupiter and a Cold Massive Giant Planet around a Sun-like Star*. <i>Astronomical Journal</i> , 2018, 156, 216.	4.7	5
105	The Habitability of GJ 357D: Possible Climate and Observability. <i>Astrophysical Journal Letters</i> , 2019, 883, L40.	8.3	4
106	catwoman: A transit modelling Python package for asymmetric light curves. <i>Journal of Open Source Software</i> , 2020, 7, 2382.	4.6	3
107	K2-280â€“b â€“ a low density warm sub-Saturn around a mildly evolved star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4423-4435.	4.4	2
108	The highly inflated giant planet WASP-174b. <i>Astronomy and Astrophysics</i> , 2020, 633, A30.	5.1	2

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109	Absolute Properties of the Detached Eclipsing Binary EPIC 202674012 (HD 149946). Research Notes of the AAS, 2018, 2, 226.	0.7	2
110	TESS light curves of low-mass detached eclipsing binaries. Proceedings of the International Astronomical Union, 2019, 15, 300-304.	0.0	1
111	On the Transit Probability of the Habitable-zone Exoplanet GJ 357d. Research Notes of the AAS, 2019, 3, 122.	0.7	1
112	ACCESS I. AN OPTICAL TRANSMISSION SPECTRUM OF GJ 1214b REVEALS A HETEROGENEOUS STELLAR PHOTOSPHERE. Astrophysical Journal, 2017, 834, 151.	4.5	1