

Olivia Venot

List of Publications by Year in descending order

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49
papers

2,875
citations

147801

31
h-index

197818

49
g-index

52
all docs

52
docs citations

52
times ranked

2068
citing authors

#	ARTICLE	IF	CITATIONS
1	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	3.7	249
2	DETECTION OF AN ATMOSPHERE AROUND THE SUPER-EARTH 55 CANCRI E. <i>Astrophysical Journal</i> , 2016, 820, 99.	4.5	202
3	A chemical model for the atmosphere of hot Jupiters. <i>Astronomy and Astrophysics</i> , 2012, 546, A43.	5.1	181
4	FINGERING CONVECTION AND CLOUDLESS MODELS FOR COOL BROWN DWARF ATMOSPHERES. <i>Astrophysical Journal Letters</i> , 2015, 804, L17.	8.3	164
5	CLOUDLESS ATMOSPHERES FOR L/T DWARFS AND EXTRASOLAR GIANT PLANETS. <i>Astrophysical Journal Letters</i> , 2016, 817, L19.	8.3	123
6	The neutral photochemistry of nitriles, amines and imines in the atmosphere of Titan. <i>Icarus</i> , 2015, 247, 218-247.	2.5	118
7	The effects of consistent chemical kinetics calculations on the pressure-temperature profiles and emission spectra of hot Jupiters. <i>Astronomy and Astrophysics</i> , 2016, 594, A69.	5.1	113
8	Pseudo 2D chemical model of hot-Jupiter atmospheres: application to HD 209458b and HD 189733b. <i>Astronomy and Astrophysics</i> , 2014, 564, A73.	5.1	110
9	The Transiting Exoplanet Community Early Release Science Program for JWST. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
10	EXPLORING BIASES OF ATMOSPHERIC RETRIEVALS IN SIMULATED JWST TRANSMISSION SPECTRA OF HOT JUPITERS. <i>Astrophysical Journal</i> , 2016, 833, 120.	4.5	79
11	INFLUENCE OF STELLAR FLARES ON THE CHEMICAL COMPOSITION OF EXOPLANETS AND SPECTRA. <i>Astrophysical Journal</i> , 2016, 830, 77.	4.5	71
12	THE PUZZLING CHEMICAL COMPOSITION OF GJ 436B'S ATMOSPHERE: INFLUENCE OF TIDAL HEATING ON THE CHEMISTRY. <i>Astrophysical Journal</i> , 2014, 781, 68.	4.5	69
13	Scientific rationale for Uranus and Neptune in situ explorations. <i>Planetary and Space Science</i> , 2018, 155, 12-40.	1.7	69
14	Toward the Analysis of JWST Exoplanet Spectra: Identifying Troublesome Model Parameters. <i>Astrophysical Journal</i> , 2017, 850, 150.	4.5	66
15	The impact of atmospheric circulation on the chemistry of the hot Jupiter HD 209458b. <i>Astronomy and Astrophysics</i> , 2012, 548, A73.	5.1	64
16	New chemical scheme for studying carbon-rich exoplanet atmospheres. <i>Astronomy and Astrophysics</i> , 2015, 577, A33.	5.1	64
17	Implications of three-dimensional chemical transport in hot Jupiter atmospheres: Results from a consistently coupled chemistry-radiation-hydrodynamics model. <i>Astronomy and Astrophysics</i> , 2020, 636, A68.	5.1	60
18	The science of ARIEL (Atmospheric Remote-sensing Infrared Exoplanet Large-survey). <i>Proceedings of SPIE</i> , 2016, .	0.8	56

#	ARTICLE	IF	CITATIONS
19	ARES I: WASP-76 b, A Tale of Two HST Spectra*. <i>Astronomical Journal</i> , 2020, 160, 8.	4.7	56
20	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. <i>Astrophysical Journal</i> , 2020, 890, 176.	4.5	53
21	The first submillimeter observation of CO in the stratosphere of Uranus. <i>Astronomy and Astrophysics</i> , 2014, 562, A33.	5.1	52
22	ARES. II. Characterizing the Hot Jupiters WASP-127 b, WASP-79 b, and WASP-62b with the Hubble Space Telescope*. <i>Astronomical Journal</i> , 2020, 160, 109.	4.7	52
23	Equatorial retrograde flow in WASP-43b elicited by deep wind jets?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3582-3614.	4.4	50
24	Scientific rationale for Saturn's in situ exploration. <i>Planetary and Space Science</i> , 2014, 104, 29-47.	1.7	49
25	The atmospheric chemistry of the warm Neptune GJ 3470b: Influence of metallicity and temperature on the CH ₄ /CO ratio. <i>Astronomy and Astrophysics</i> , 2014, 562, A51.	5.1	47
26	High-temperature measurements of VUV-absorption cross sections of CO ₂ and their application to exoplanets. <i>Astronomy and Astrophysics</i> , 2013, 551, A131.	5.1	45
27	ARES. * V. No Evidence For Molecular Absorption in the HST WFC3 Spectrum of GJ 1132 b. <i>Astronomical Journal</i> , 2021, 161, 284.	4.7	40
28	Thermochemistry and vertical mixing in the tropospheres of Uranus and Neptune: How convection inhibition can affect the derivation of deep oxygen abundances. <i>Icarus</i> , 2017, 291, 1-16.	2.5	39
29	VUV-absorption cross section of carbon dioxide from 150 to 800 K and applications to warm exoplanetary atmospheres. <i>Astronomy and Astrophysics</i> , 2018, 609, A34.	5.1	35
30	New chemical scheme for giant planet thermochemistry. <i>Astronomy and Astrophysics</i> , 2020, 634, A78.	5.1	34
31	ARES. III. Unveiling the Two Faces of KELT-7 b with HST WFC3*. <i>Astronomical Journal</i> , 2020, 160, 112.	4.7	33
32	Five Key Exoplanet Questions Answered via the Analysis of 25 Hot-Jupiter Atmospheres in Eclipse. <i>Astrophysical Journal</i> , Supplement Series, 2022, 260, 3.	7.7	33
33	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
34	Grid of pseudo-2D chemistry models for tidally locked exoplanets – I. The role of vertical and horizontal mixing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5603-5653.	4.4	27
35	Reduced chemical scheme for modelling warm to hot hydrogen-dominated atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 624, A58.	5.1	26
36	Chemical variation with altitude and longitude on exo-Neptunes: Predictions for Ariel phase-curve observations. <i>Experimental Astronomy</i> , 2022, 53, 279-322.	3.7	25

#	ARTICLE	IF	CITATIONS
37	ARES IV: Probing the Atmospheres of the Two Warm Small Planets HD 106315c and HD 3167c with the HST/WFC3 Camera*. <i>Astronomical Journal</i> , 2021, 161, 19.	4.7	25
38	Relationship Between the Ozone and Water Vapor Columns on Mars as Observed by SPICAM and Calculated by a Global Climate Model. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006838.	3.6	19
39	A Comparison of Chemical Models of Exoplanet Atmospheres Enabled by TauREx 3.1. <i>Astrophysical Journal</i> , 2022, 932, 123.	4.5	19
40	A better characterization of the chemical composition of exoplanets atmospheres with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 101-134.	3.7	18
41	WASP-117 b: An Eccentric Hot Saturn as a Future Complex Chemistry Laboratory. <i>Astronomical Journal</i> , 2020, 160, 233.	4.7	17
42	The Deep Composition of Uranus and Neptune from In Situ Exploration and Thermochemical Modeling. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	16
43	Ions in the Thermosphere of Exoplanets: Observable Constraints Revealed by Innovative Laboratory Experiments. <i>Astrophysical Journal</i> , 2020, 895, 77.	4.5	16
44	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
45	Grid of pseudo-2D chemistry models for tidally locked exoplanets II. The role of photochemistry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4877-4892.	4.4	15
46	Chemical modeling of exoplanet atmospheres. <i>Experimental Astronomy</i> , 2015, 40, 469-480.	3.7	13
47	The ARIEL space mission. , 2018, , .		10
48	Ion-driven organic chemistry for Titan-like atmospheres: Implications for N-dominated super-Earth exoplanets. <i>Astronomy and Astrophysics</i> , 2021, 654, A171.	5.1	3
49	VUV-absorption cross section of CO ₂ at high temperatures and impact on exoplanet atmospheres. <i>BIO Web of Conferences</i> , 2014, 2, 01002.	0.2	1