

Etienne Artigau

List of Publications by Year in descending order

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66
papers

4,644
citations

126708

33
h-index

123241

61
g-index

66
all docs

66
docs citations

66
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery and spectroscopy of the young jovian planet 51 Eri b with the Gemini Planet Imager. <i>Science</i> , 2015, 350, 64-67.	6.0	459
2	A New Algorithm for Pointâ€spread Function Subtraction in Highâ€Contrast Imaging: A Demonstration with Angular Differential Imaging. <i>Astrophysical Journal</i> , 2007, 660, 770-780.	1.6	457
3	BAYESIAN ANALYSIS TO IDENTIFY NEW STAR CANDIDATES IN NEARBY YOUNG STELLAR KINEMATIC GROUPS. <i>Astrophysical Journal</i> , 2013, 762, 88.	1.6	289
4	BANYAN. II. VERY LOW MASS AND SUBSTELLAR CANDIDATE MEMBERS TO NEARBY, YOUNG KINEMATIC GROUPS WITH PREVIOUSLY KNOWN SIGNS OF YOUTH. <i>Astrophysical Journal</i> , 2014, 783, 121.	1.6	237
5	LARGE-AMPLITUDE VARIATIONS OF AN L/T TRANSITION BROWN DWARF: MULTI-WAVELENGTH OBSERVATIONS OF PATCHY, HIGH-CONTRAST CLOUD FEATURES. <i>Astrophysical Journal</i> , 2012, 750, 105.	1.6	210
6	WEATHER ON OTHER WORLDS. II. SURVEY RESULTS: SPOTS ARE UBIQUITOUS ON L AND T DWARFS. <i>Astrophysical Journal</i> , 2015, 799, 154.	1.6	206
7	PHOTOMETRIC VARIABILITY OF THE T2.5 BROWN DWARF SIMP J013656.5+093347: EVIDENCE FOR EVOLVING WEATHER PATTERNS. <i>Astrophysical Journal</i> , 2009, 701, 1534-1539.	1.6	203
8	BANYAN. VII. A NEW POPULATION OF YOUNG SUBSTELLAR CANDIDATE MEMBERS OF NEARBY MOVING GROUPS FROM THE BASS SURVEY. <i>Astrophysical Journal</i> , Supplement Series, 2015, 219, 33.	3.0	156
9	STRONG BRIGHTNESS VARIATIONS SIGNAL CLOUDY-TO-CLEAR TRANSITION OF BROWN DWARFS. <i>Astrophysical Journal</i> , 2014, 793, 75.	1.6	147
10	DISCOVERY OF A WIDE PLANETARY-MASS COMPANION TO THE YOUNG M3 STAR GU PSC. <i>Astrophysical Journal</i> , 2014, 787, 5.	1.6	121
11	BANYAN. III. RADIAL VELOCITY, ROTATION, AND X-RAY EMISSION OF LOW-MASS STAR CANDIDATES IN NEARBY YOUNG KINEMATIC GROUPS. <i>Astrophysical Journal</i> , 2014, 788, 81.	1.6	120
12	BANYAN. IV. FUNDAMENTAL PARAMETERS OF LOW-MASS STAR CANDIDATES IN NEARBY YOUNG STELLAR KINEMATIC GROUPSâ€ISOCHRONAL AGE DETERMINATION USING MAGNETIC EVOLUTIONARY MODELS. <i>Astrophysical Journal</i> , 2014, 792, 37.	1.6	110
13	BANYAN. V. A SYSTEMATIC ALL-SKY SURVEY FOR NEW VERY LATE-TYPE LOW-MASS STARS AND BROWN DWARFS IN NEARBY YOUNG MOVING GROUPS. <i>Astrophysical Journal</i> , 2015, 798, 73.	1.6	100
14	CFBDS J005910.90-011401.3: reaching the T-Y brown dwarf transition?. <i>Astronomy and Astrophysics</i> , 2008, 482, 961-971.	2.1	98
15	Discovery of the Brightest T Dwarf in the Northern Hemisphere. <i>Astrophysical Journal</i> , 2006, 651, L57-L60.	1.6	85
16	BANYAN. IX. The Initial Mass Function and Planetary-mass Object Space Density of the TW HYA Association. <i>Astrophysical Journal</i> , Supplement Series, 2017, 228, 18.	3.0	85
17	SPIRou: NIR velocimetry and spectropolarimetry at the CFHT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5684-5703.	1.6	84
18	SPIRou: the near-infrared spectropolarimeter/high-precision velocimeter for the Canada-France-Hawaii telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	80

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19	EXTRASOLAR STORMS: PRESSURE-DEPENDENT CHANGES IN LIGHT-CURVE PHASE IN BROWN DWARFS FROM SIMULTANEOUS HST AND SPITZER OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 826, 8.	1.6	77
20	Zones, spots, and planetary-scale waves beating in brown dwarf atmospheres. <i>Science</i> , 2017, 357, 683-687.	6.0	75
21	Finding ultracool brown dwarfs with MegaCam on CFHT: method and first results. <i>Astronomy and Astrophysics</i> , 2008, 484, 469-478.	2.1	64
22	The ultracool-field dwarf luminosity-function and space density from the Canada-France Brown Dwarf Survey. <i>Astronomy and Astrophysics</i> , 2010, 522, A112.	2.1	63
23	Investigating the young AU Mic system with SPIRou: large-scale stellar magnetic field and close-in planet mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 188-205.	1.6	57
24	SIMP J013656.5+093347 Is Likely a Planetary-mass Object in the Carina-Near Moving Group. <i>Astrophysical Journal Letters</i> , 2017, 841, L1.	3.0	55
25	BANYAN. VI. DISCOVERY OF A COMPANION AT THE BROWN DWARF/PLANET-MASS LIMIT TO A TUCANA "HOROLOGIUM M DWARF. <i>Astrophysical Journal</i> , 2015, 806, 254.	1.6	54
26	37 NEW T-TYPE BROWN DWARFS IN THE CANADA-FRANCE BROWN DWARFS SURVEY. <i>Astronomical Journal</i> , 2011, 141, 203.	1.9	52
27	Evidence That the Directly Imaged Planet HD 131399 Ab Is a Background Star. <i>Astronomical Journal</i> , 2017, 154, 218.	1.9	52
28	Where Is the Water? Jupiter-like C/H Ratio but Strong H ₂ O Depletion Found on ĩ, Bořtis b Using SPIRou. <i>Astronomical Journal</i> , 2021, 162, 73.	1.9	50
29	SIMP J2154 "1055: A NEW LOW-GRAVITY L4ġ BROWN DWARF CANDIDATE MEMBER OF THE ARGUS ASSOCIATION. <i>Astrophysical Journal Letters</i> , 2014, 792, L17.	3.0	49
30	DENIS J081730.0 "615520: AN OVERLOOKED MID-T DWARF IN THE SOLAR NEIGHBORHOOD. <i>Astrophysical Journal Letters</i> , 2010, 718, L38-L42.	3.0	43
31	The Near-infrared Imager and Slitless Spectrograph for the James Webb Space Telescope. II. Wide Field Slitless Spectroscopy. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 025002.	1.0	39
32	Spin-orbit alignment and magnetic activity in the young planetary system AU Mic. <i>Astronomy and Astrophysics</i> , 2020, 641, L1.	2.1	38
33	ON THE RADIAL VELOCITY DETECTION OF ADDITIONAL PLANETS IN TRANSITING, SLOWLY ROTATING M-DWARF SYSTEMS: THE CASE OF GJ 1132. <i>Astronomical Journal</i> , 2017, 153, 9.	1.9	37
34	PSYM-WIDE: A Survey for Large-separation Planetary-mass Companions to Late Spectral Type Members of Young Moving Groups. <i>Astronomical Journal</i> , 2017, 154, 129.	1.9	37
35	Discovery of the Widest Very Low Mass Binary. <i>Astrophysical Journal</i> , 2007, 659, L49-L52.	1.6	36
36	THE COOLEST ISOLATED BROWN DWARF CANDIDATE MEMBER OF TWA. <i>Astrophysical Journal Letters</i> , 2014, 785, L14.	3.0	36

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37	A Search for Photometric Variability in the Young T3.5 Planetary-mass Companion GU Psc b. <i>Astronomical Journal</i> , 2017, 154, 138.	1.9	36
38	Extending the Canada-France brown dwarfs survey to the near-infrared: first ultracool brown dwarfs from CFBDSIR. <i>Astronomy and Astrophysics</i> , 2010, 518, A39.	2.1	35
39	A BROWN DWARF CENSUS FROM THE SIMP SURVEY. <i>Astrophysical Journal</i> , 2016, 830, 144.	1.6	30
40	IN SEARCH OF DUST CLOUDS: PHOTOMETRIC MONITORING OF A SAMPLE OF LATE L AND T DWARFS. <i>Astrophysical Journal</i> , 2013, 767, 61.	1.6	28
41	Telluric-line subtraction in high-accuracy velocimetry: a PCA-based approach. <i>Proceedings of SPIE</i> , 2014, , .	0.8	28
42	Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. <i>Astrophysical Journal</i> , 2020, 899, 123.	1.6	28
43	Constraints on the Occurrence and Distribution of $\sim 20 M_{\text{Jup}}$ Companions to Stars at Separations of ~ 5000 au from a Compilation of Direct Imaging Surveys. <i>Astronomical Journal</i> , 2019, 158, 187.	1.9	27
44	2MASS J13243553+6358281 Is an Early T-type Planetary-mass Object in the AB Doradus Moving Group. <i>Astrophysical Journal Letters</i> , 2018, 854, L27.	3.0	25
45	The SPIRou wavelength calibration for precise radial velocities in the near infrared. <i>Astronomy and Astrophysics</i> , 2021, 648, A48.	2.1	21
46	Characterizing Exoplanetary Atmospheres at High Resolution with SPIRou: Detection of Water on HD 189733 b. <i>Astronomical Journal</i> , 2021, 162, 233.	1.9	20
47	DISCOVERY OF TWO L AND T BINARIES WITH WIDE SEPARATIONS AND PECULIAR PHOTOMETRIC PROPERTIES. <i>Astrophysical Journal</i> , 2011, 739, 48.	1.6	19
48	Early science with SPIRou: near-infrared radial velocity and spectropolarimetry of the planet-hosting star HD 189733. <i>Astronomy and Astrophysics</i> , 2020, 642, A72.	2.1	18
49	Clouds in brown dwarfs and giant planets. <i>Astronomische Nachrichten</i> , 2013, 334, 40-43.	0.6	17
50	DISCOVERY AND CHARACTERIZATION OF WIDE BINARY SYSTEMS WITH A VERY LOW MASS COMPONENT. <i>Astrophysical Journal</i> , 2015, 802, 37.	1.6	17
51	TOI-1278 B: SPIRou Unveils a Rare Brown Dwarf Companion in Close-in Orbit around an M Dwarf. <i>Astronomical Journal</i> , 2021, 162, 144.	1.9	16
52	CPAPIR: a wide-field infrared camera for the Observatoire du Mont Megantic. , 2004, , .		15
53	TOI-1759 b: A transiting sub-Neptune around a low mass star characterized with SPIRou and TESS. <i>Astronomy and Astrophysics</i> , 2022, 660, A86.	2.1	15
54	A Novel Survey for Young Substellar Objects with the W-band Filter. II. The Coolest and Lowest Mass Members of the Serpens-South Star-forming Region. <i>Astrophysical Journal</i> , 2020, 892, 122.	1.6	14

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55	Predictions of Planet Detections with Near-infrared Radial Velocities in the Upcoming SPIRou Legacy Survey-planet Search. <i>Astronomical Journal</i> , 2018, 155, 93.	1.9	11
56	WEIRD: Wide-orbit Exoplanet Search with InfraRed Direct Imaging. <i>Astronomical Journal</i> , 2018, 156, 137.	1.9	11
57	Optical and Near-infrared Radial Velocity Content of M Dwarfs: Testing Models with Barnard's Star. <i>Astronomical Journal</i> , 2018, 155, 198.	1.9	10
58	H4RG characterization for high-resolution infrared spectroscopy. , 2018, , .		10
59	Understanding Fundamental Properties and Atmospheric Features of Subdwarfs via a Case Study of SDSS J125637.13â€“022452.4^{âˆ—}. <i>Astrophysical Journal</i> , 2018, 864, 100.	1.6	9
60	Variability of Brown Dwarfs. , 2018, , 555-573.		8
61	Banyan. X. Discovery of a Wide, Low-gravity L-type Companion to a Fast-rotating M3 Dwarf[*]. <i>Astrophysical Journal</i> , 2018, 852, 55.	1.6	6
62	On the Effect of Stellar Activity on Low-resolution Transit Spectroscopy and the use of High Resolution as Mitigation. <i>Astronomical Journal</i> , 2022, 163, 231.	1.9	4
63	Correlated Read Noise Reduction in Infrared Arrays Using Deep Learning. <i>Astronomical Journal</i> , 2022, 163, 292.	1.9	3
64	The First High-contrast Images of X-Ray Binaries: Detection of Candidate Companions in the $\hat{1}^3$ Cas Analog RX J1744.7-2713. <i>Astronomical Journal</i> , 2022, 164, 7.	1.9	2
65	The BANYAN All-Sky Survey for Brown Dwarf Members of Young Moving Groups. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 49-53.	0.0	0
66	Variability of Brown Dwarfs. , 2018, , 1-19.		0