

# Suzanne Aigrain

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

10,049  
citations

50566

48  
h-index

45040

94  
g-index

102  
all docs

102  
docs citations

102  
times ranked

5681  
citing authors

#	ARTICLE	IF	CITATIONS
1	The search for living worlds and the connection to our cosmic origins. <i>Experimental Astronomy</i> , 2022, 54, 1275-1306.	1.6	1
2	Planet Hunters TESS IV: a massive, compact hierarchical triple star system TIC470710327. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4710-4723.	1.6	10
3	One year of AU Mic with HARPS II. Stellar activity and star-planet interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 5067-5084.	1.6	28
4	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.	1.6	4
5	One year of AU Mic with HARPS II. I. Measuring the masses of the two transiting planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 3060-3078.	1.6	29
6	The EXPRES Stellar Signals Project II. State of the Field in Disentangling Photospheric Velocities. <i>Astronomical Journal</i> , 2022, 163, 171.	1.9	27
7	The young HD 73583 (TOI-560) planetary system: two 10-M <sub>J</sub> mini-Neptunes transiting a 500-Myr-old, bright, and active K dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1606-1627.	1.6	25
8	A self-lensing binary massive black hole interpretation of quasi-periodic eruptions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1703-1716.	1.6	38
9	TESS Re-observes the Young Multi-planet System TOI-451: Refined Ephemeris and Activity Evolution. <i>Research Notes of the AAS</i> , 2021, 5, 51.	0.3	3
10	Planet Hunters TESS III: two transiting planets around the bright K dwarf HD 152843. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1827-1840.	1.6	5
11	Separating planetary reflex Doppler shifts from stellar variability in the wavelength domain. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1699-1717.	1.6	44
12	A HARPS-N mass for the elusive Kepler-37d: a case study in disentangling stellar activity and planetary signals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1847-1868.	1.6	10
13	How does thermal scattering shape the infrared spectra of cloudy exoplanets? A theoretical framework and consequences for atmospheric retrievals in the JWST era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1309-1332.	1.6	14
14	Planet Hunters TESS II: findings from the first two years of TESS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4669-4690.	1.6	27
15	pyaneti II. A multidimensional Gaussian process approach to analysing spectroscopic time-series. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 866-883.	1.6	39
16	Understanding and mitigating biases when studying inhomogeneous emission spectra with JWST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4342-4354.	1.6	63
17	Mon-735: a new low-mass pre-main-sequence eclipsing binary in NGC2264. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1531-1548.	1.6	10
18	The spectral impact of magnetic activity on disc-integrated HARPS-N solar observations: exploring new activity indicators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 4279-4290.	1.6	14

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19	2.5D retrieval of atmospheric properties from exoplanet phase curves: application to WASP-43b observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 106-125.	1.6	57
20	Pleiades or Not? Resolving the Status of the Lithium-rich M Dwarfs HHJ 339 and HHJ 430. <i>Astronomical Journal</i> , 2020, 160, 30.	1.9	4
21	Planet Hunters TESS I: TOI-13, a subgiant hosting a transiting Saturn-sized planet on an 84-day orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 750-763.	1.6	41
22	A robust, template-free approach to precise radial velocity extraction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3960-3983.	1.6	22
23	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. <i>Astronomical Journal</i> , 2019, 158, 165.	1.9	14
24	The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 18.	3.0	7
25	Radial velocity confirmation of K2-100b: a young, highly irradiated, and low-density transiting hot Neptune. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 698-708.	1.6	46
26	The rotation of low mass stars at 30 Myr in the cluster NGC 3766. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 200-203.	0.0	0
27	The K2 Bright Star Survey. I. Methodology and Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 8.	3.0	14
28	A Ghost in the Toast: TESS Background Light Produces a False "Transit" Across $\tau$ Ceti. <i>Research Notes of the AAS</i> , 2019, 3, 145.	0.3	3
29	The K2 M67 Study: Establishing the Limits of Stellar Rotation Period Measurements in M67 with K2 Campaign 5 Data. <i>Astrophysical Journal</i> , 2018, 859, 167.	1.6	12
30	K2 photometry and HERMES spectroscopy of the blue supergiant $\eta$ Leo: rotational wind modulation and low-frequency waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1234-1241.	1.6	34
31	The K2 M67 Study: A Curiously Young Star in an Eclipsing Binary in an Old Open Cluster*. <i>Astronomical Journal</i> , 2018, 155, 152.	1.9	8
32	A Universal Spin-Mass Relation for Brown Dwarfs and Planets. <i>Astrophysical Journal</i> , 2018, 859, 153.	1.6	30
33	Inferring probabilistic stellar rotation periods using Gaussian processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2094-2108.	1.6	140
34	A Low-mass Exoplanet Candidate Detected by K2 Transiting the Praesepe M Dwarf JS 183. <i>Astronomical Journal</i> , 2017, 153, 177.	1.9	61
35	Radial-velocity fitting challenge. <i>Astronomy and Astrophysics</i> , 2017, 598, A133.	2.1	87
36	Beyond the Kepler/K2 bright limit: variability in the seven brightest members of the Pleiades. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 2882-2901.	1.6	58

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37	Robust, open-source removal of systematics in Kepler data. Monthly Notices of the Royal Astronomical Society, 2017, 471, 759-769.	1.6	41
38	Pinning down the mass of Kepler-10c: the importance of sampling and model comparison. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L125-L130.	1.2	53
39	New Low-mass Eclipsing Binary Systems in Praesepe Discovered by K2. Astrophysical Journal, 2017, 849, 11.	1.6	89
40	CoRoTâ€™s 223992193: Investigating the variability in a low-mass, pre-main sequence eclipsing binary with evidence of a circumbinary disk. Astronomy and Astrophysics, 2017, 599, A27.	2.1	11
41	NEW PLEIADES ECLIPSING BINARIES AND A HYADES TRANSITING SYSTEM IDENTIFIED BY K2. Astronomical Journal, 2016, 151, 112.	1.9	58
42	HST HOT-JUPITER TRANSMISSION SPECTRAL SURVEY: CLEAR SKIES FOR COOL SATURN WASP-39b. Astrophysical Journal, 2016, 827, 19.	1.6	73
43	ROTATION IN THE PLEIADES WITH K2. I. DATA AND FIRST RESULTS. Astronomical Journal, 2016, 152, 113.	1.9	173
44	ROTATION IN THE PLEIADES WITH K2. II. MULTIPERIOD STARS. Astronomical Journal, 2016, 152, 114.	1.9	67
45	ROTATION IN THE PLEIADES WITH K2. III. SPECULATIONS ON ORIGINS AND EVOLUTION. Astronomical Journal, 2016, 152, 115.	1.9	68
46	Transiting exoplanet candidates from K2 Campaigns 5 and 6. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3399-3409.	1.6	96
47	A continuum from clear to cloudy hot-Jupiter exoplanets without primordial water depletion. Nature, 2016, 529, 59-62.	13.7	714
48	HII 2407: AN ECLIPSING BINARY REVEALED BY K2 OBSERVATIONS OF THE PLEIADES. Astrophysical Journal, 2015, 814, 62.	1.6	12
49	Testing the recovery of stellar rotation signals from Kepler light curves using a blind hare-and-hounds exercise. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3211-3226.	1.6	134
50	A uniform analysis of HD 209458b Spitzer/IRAC light curves with Gaussian process models. Monthly Notices of the Royal Astronomical Society, 2015, 451, 680-694.	1.6	95
51	HST hot-Jupiter transmission spectral survey: detection of potassium in WASP-31b along with a cloud deck and Rayleigh scattering. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2428-2443.	1.6	172
52	A Gaussian process framework for modelling stellar activity signals in radial velocity data. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2269-2291.	1.6	251
53	ldtk: Limb Darkening Toolkit. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3822-3827.	1.6	143
54	HST hot-Jupiter transmission spectral survey: haze in the atmosphere of WASP-6b. Monthly Notices of the Royal Astronomical Society, 2015, 447, 463-478.	1.6	129

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55	Precise time series photometry for the Kepler-2.0 mission. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2880-2893.	1.6	119
56	Calibrating gyrochronology using Kepler asteroseismic targets. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1787-1798.	1.6	148
57	Exoplanet atmospheres with EChO: spectral retrievals using EChOSim. Experimental Astronomy, 2015, 40, 545-561.	1.6	4
58	Ghost in the time series: no planet for Alpha Cen B. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 456, L6-L10.	1.2	135
59	Photometry of very bright stars with <i>Kepler</i> and K2 smear data. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 455, L36-L40.	1.2	15
60	ROTATION PERIODS OF 34,030 <i>KEPLER</i> MAIN-SEQUENCE STARS: THE FULL AUTOCORRELATION SAMPLE. Astrophysical Journal, Supplement Series, 2014, 211, 24.	3.0	593
61	CSI 2264: SIMULTANEOUS OPTICAL AND INFRARED LIGHT CURVES OF YOUNG DISK-BEARING STARS IN NGC 2264 WITH <i>CoRoT</i> and <i>SPITZER</i> EVIDENCE FOR MULTIPLE ORIGINS OF VARIABILITY. Astronomical Journal, 2014, 147, 82.	1.9	307
62	CSI 2264: CHARACTERIZING ACCRETION-BURST DOMINATED LIGHT CURVES FOR YOUNG STARS IN NGC 2264. Astronomical Journal, 2014, 147, 83.	1.9	105
63	Hubble Space Telescope hot Jupiter transmission spectral survey: a detection of Na and strong optical absorption in HAT-P-1b. Monthly Notices of the Royal Astronomical Society, 2014, 437, 46-66.	1.6	151
64	CoRoT 223992193: A new, low-mass, pre-main sequence eclipsing binary with evidence of a circumbinary disk. Astronomy and Astrophysics, 2014, 562, A50.	2.1	38
65	The K2 Mission: Characterization and Early Results. Publications of the Astronomical Society of the Pacific, 2014, 126, 398-408.	1.0	1,344
66	THE DEEP BLUE COLOR OF HD 189733b: ALBEDO MEASUREMENTS WITH <i>HUBBLE SPACE TELESCOPE</i> /SPACE TELESCOPE IMAGING SPECTROGRAPH AT VISIBLE WAVELENGTHS. Astrophysical Journal Letters, 2013, 772, L16.	3.0	138
67	Astrophysically robust systematics removal using variational inference: application to the first month of Kepler data. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3639-3653.	1.6	40
68	An HST optical-to-near-IR transmission spectrum of the hot Jupiter WASP-19b: detection of atmospheric water and likely absence of TiO. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3252-3274.	1.6	167
69	HST hot Jupiter transmission spectral survey: detection of water in HAT-P-1b from WFC3 near-IR spatial scan observations. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3481-3493.	1.6	103
70	Measuring the rotation period distribution of field M dwarfs with Kepler. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1203-1216.	1.6	331
71	The prevalence of dust on the exoplanet HD 189733b from Hubble and Spitzer observations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2917-2944.	1.6	334
72	HST hot-Jupiter transmission spectral survey: evidence for aerosols and lack of TiO in the atmosphere of WASP-12b. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2956-2973.	1.6	168

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73	STELLAR ROTATION PERIODS OF THE <i>KEPLER</i> OBJECTS OF INTEREST: A DEARTH OF CLOSE-IN PLANETS AROUND FAST ROTATORS. <i>Astrophysical Journal Letters</i> , 2013, 775, L11.	3.0	210
74	Gaussian processes for time-series modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110550.	1.6	317
75	From spectra to atmospheres: solving the underconstrained retrieval problem for exoplanets. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 275-276.	0.0	0
76	3.6 AND 4.5 Î¼m PHASE CURVES AND EVIDENCE FOR NON-EQUILIBRIUM CHEMISTRY IN THE ATMOSPHERE OF EXTRASOLAR PLANET HD 189733b. <i>Astrophysical Journal</i> , 2012, 754, 22.	1.6	264
77	A simple method to estimate radial velocity variations due to stellar activity using photometry~... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 3147-3158.	1.6	223
78	Probing the Physics of Planets and Stars with Transit Data. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 105-105.	0.0	0
79	Statistics of Stellar Variability in Kepler Data with ARC Systematics Removal. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 364-365.	0.0	0
80	Hubble Space Telescope transmission spectroscopy of the exoplanet HDâ€f189733b: high-altitude atmospheric haze in the optical and near-ultraviolet with STIS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1443-1455.	1.6	335
81	A new look at NICMOS transmission spectroscopy: No conclusive evidence for molecular features. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 478-479.	0.0	1
82	Accretion dynamics and disk evolution in NGCÂ2264: a study based on CoRoT photometric observations. <i>Astronomy and Astrophysics</i> , 2010, 519, A88.	2.1	146
83	Exoplanet discoveries with the CoRoT space observatory. <i>Solar System Research</i> , 2010, 44, 520-526.	0.3	4
84	Ground-based detection of thermal emission from the exoplanet WASP-19b. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 404, L114-L118.	1.2	70
85	MMLÂ53: a new low-mass, pre-main sequence eclipsing binary in the Upper Centaurus-Lupus region discovered by SuperWASP. <i>Astronomy and Astrophysics</i> , 2010, 522, A37.	2.1	18
86	Photospheric activity, rotation, and radial velocity variations of the planet-hosting star CoRoT-7. <i>Astronomy and Astrophysics</i> , 2010, 520, A53.	2.1	66
87	The Monitor project: rotation periods of low-mass stars in M50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1456-1466.	1.6	65
88	The Monitor project: rotation of low-mass stars in the open cluster NGC 2547. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 383, 1588-1602.	1.6	56
89	The Monitor project: rotation of low-mass stars in NGC 2362 â€“ testing the disc regulation paradigm at 5 Myr. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 384, 675-686.	1.6	73
90	Searching for the secondary eclipse of CoRoT-Exo-2b and its transit timing variations. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 91-96.	0.0	8

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91	Reconstruction of the transit signal in the presence of stellar variability. Proceedings of the International Astronomical Union, 2007, 3, 89-92.	0.0	3
92	The Monitor project: searching for occultations in young open clusters. Monthly Notices of the Royal Astronomical Society, 2007, 375, 29-52.	1.6	71
93	The Monitor project: rotation of low-mass stars in the open cluster NGC 2516. Monthly Notices of the Royal Astronomical Society, 2007, 377, 741-758.	1.6	108
94	On the potential of transit surveys in star clusters: impact of correlated noise and radial velocity follow-up. Monthly Notices of the Royal Astronomical Society, 2007, 378, 741-752.	1.6	34
95	The Monitor project: JW 380 a 0.26-, 0.15-M $\dot{S}$ <sup>TM</sup> , pre-main-sequence eclipsing binary in the Orion nebula cluster. Monthly Notices of the Royal Astronomical Society, 2007, 380, 541-550.	1.6	42
96	The Monitor project: rotation of low-mass stars in the open cluster M34. Monthly Notices of the Royal Astronomical Society, 2006, 370, 954-974.	1.6	66
97	Practical planet prospecting. Monthly Notices of the Royal Astronomical Society, 2004, 350, 331-345.	1.6	99
98	K2SC: Flexible systematics correction and detrending of K2 light curves using Gaussian Process regression. Monthly Notices of the Royal Astronomical Society, 0, , stw706.	1.6	121