Simon Prunet

List of Publications by Year
in descending order

21 papers	1,332 citations	759233 12 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	1433 citing authors

#	Article	IF	Citations
1	MASTER of the Cosmic Microwave Background Anisotropy Power Spectrum: A Fast Method for Statistical Analysis of Large and Complex Cosmic Microwave Background Data Sets. Astrophysical Journal, 2002, 567, 2-17.	4.5	636
2	Fast estimation of polarization power spectra using correlation functions. Monthly Notices of the Royal Astronomical Society, 2004, 350, 914-926.	4.4	185
3	Statistical Properties of Galactic Starlight Polarization. Astrophysical Journal, 2002, 564, 762-772.	4.5	135
4	Fast Cosmic Microwave Background Analyses via Correlation Functions. Astrophysical Journal, 2001, 548, L115-L118.	4.5	122
5	Fast Analysis of Inhomogenous Megapixel Cosmic Microwave Background Maps. Astrophysical Journal, 2001, 561, L11-L14.	4.5	72
6	SITELLE: an Imaging Fourier Transform Spectrometer for the Canada–France–Hawaii Telescope. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3930-3946.	4.4	33
7	Fast Edge-corrected Measurement of the Two-Point Correlation Function and the Power Spectrum. Astrophysical Journal, 2005, 631, L1-L4.	4.5	28
8	Optimal fitting of Gaussian-apodized or under-resolved emission lines in Fourier transform spectra providing new insights on the velocity structure of NGCÂ6720. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4223-4238.	4.4	27
9	Extreme value statistics of smooth Gaussian random fields. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2436-2445.	4.4	19
10	Secular resonant dressed orbital diffusion â€“ I. Method and WKB limit for tepid discs. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1967-1981.	4.4	17
11	Cylinders out of a top hat: counts-in-cells for projected densities. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2772-2785.	4.4	16
12	COSMIC MICROWAVE BACKGROUND POLARIZATION AND TEMPERATURE POWER SPECTRA ESTIMATION USING LINEAR COMBINATION OF<i>WMAP</i>5 YEAR MAPS. Astrophysical Journal, 2010, 714, 840-851.	4.5	14
13	A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. II. H ii Region Line Ratios. Astrophysical Journal, 2021, 910, 129.	4.5	6
14	A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. I. H ii Region Kinematics. Astrophysical Journal, 2020, 901, 152.	4.5	6
15	Wide field-of-view study of the Eagle Nebula with the Fourier transform imaging spectrograph SITELLE at CFHT. Astronomy and Astrophysics, 2020, 635, A111.	5.1	5
16	Polarization transfer in relativistic magnetized plasmas. Monthly Notices of the Royal Astronomical Society, 2013, 430, 3320-3349.	4.4	4
17	Commissioning SITELLE: an imaging Fourier transform spectrometer for the Canada France Hawaii Telescope. Proceedings of SPIE, 2016, , .	0.8	4
18	A Low-rank Approach to Image Defringing. Publications of the Astronomical Society of the Pacific, 2021, 133, 114502.	3.1	1

#	Article	IF	Citations
19	A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. III. Disentangling Multiple Components in H ii Regions. Astrophysical Journal, 2021, 923, 169.	4.5	1
20	Updates to LUCI: A New Fitting Paradigm Using Mixture Density Networks. Research Notes of the AAS, 2021, 5, 276.	0.7	1
21	Detectability of Torus Topology. Proceedings of the International Astronomical Union, 2014, 10, 139-143.	0.0	0