

Pat Scott

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

8,761
citations

33
h-index

93
g-index

101
ext. papers

9,823
ext. citations

5.2
avg, IF

6.29
L-index

#	Paper	IF	Citations
85	The Chemical Composition of the Sun. <i>Annual Review of Astronomy and Astrophysics</i> , 2009 , 47, 481-522	31.7	5468
84	Update on scalar singlet dark matter. <i>Physical Review D</i> , 2013 , 88,	4.9	315
83	The chemical composition of the Sun. <i>Astrophysics and Space Science</i> , 2010 , 328, 179-183	1.6	211
82	The elemental composition of the Sun. <i>Astronomy and Astrophysics</i> , 2015 , 573, A26	5.1	184
81	The elemental composition of the Sun. <i>Astronomy and Astrophysics</i> , 2015 , 573, A25	5.1	150
80	The elemental composition of the Sun. <i>Astronomy and Astrophysics</i> , 2015 , 573, A27	5.1	147
79	Improved constraints on the primordial power spectrum at small scales from ultracompact minihalos. <i>Physical Review D</i> , 2012 , 85,	4.9	141
78	A realistic assessment of the CTA sensitivity to dark matter annihilation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015 , 2015, 055-055	6.4	82
77	Direct constraints on minimal supersymmetry from Fermi-LAT observations of the dwarf galaxy Segue 1. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010 , 2010, 031-031	6.4	82
76	Status of the scalar singlet dark matter model. <i>European Physical Journal C</i> , 2017 , 77, 568	4.2	77
75	Dark stars at the Galactic Centre - the main sequence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 394, 82-104	4.3	67
74	Line formation in solar granulation. <i>Astronomy and Astrophysics</i> , 2006 , 456, 675-688	5.1	65
73	Gamma rays from ultracompact primordial dark matter minihalos. <i>Physical Review Letters</i> , 2009 , 103, 211301	7.4	64
72	DarkBit: a GAMBIT module for computing dark matter observables and likelihoods. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	61
71	A profile likelihood analysis of the constrained MSSM with genetic algorithms. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	57
70	Global analyses of Higgs portal singlet dark matter models using GAMBIT. <i>European Physical Journal C</i> , 2019 , 79, 38	4.2	54
69	Dark matter CMB constraints and likelihoods for poor particle physicists. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 044-044	6.4	53

68	Global fits of GUT-scale SUSY models with GAMBIT. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	52
67	ON THE SOLAR NICKEL AND OXYGEN ABUNDANCES. <i>Astrophysical Journal</i> , 2009 , 691, L119-L122	4.7	51
66	Implications of new physics in the decays $B_c \rightarrow (\mu/\tau)\nu$ <i>Physical Review D</i> , 2018 , 97,	4.9	47
65	Improved limits on dark matter annihilation in the Sun with the 79-string IceCube detector and implications for supersymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 022-022	6.4	46
64	Possible indication of momentum-dependent asymmetric dark matter in the sun. <i>Physical Review Letters</i> , 2015 , 114, 081302	7.4	45
63	Impact of vacuum stability, perturbativity and XENON1T on global fits of and scalar singlet dark matter. <i>European Physical Journal C</i> , 2018 , 78, 830	4.2	44
62	Combined analysis of effective Higgs portal dark matter models. <i>Physical Review D</i> , 2016 , 93,	4.9	43
61	A global fit of the MSSM with GAMBIT. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	41
60	The zero age main sequence of WIMP burners. <i>Physical Review D</i> , 2008 , 77,	4.9	41
59	Detection of isolated Population III stars with the James Webb Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 429, 3658-3664	4.3	37
58	How well will ton-scale dark matter direct detection experiments constrain minimal supersymmetry?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011 , 2011, 012-012	6.4	36
57	Fundamental statistical limitations of future dark matter direct detection experiments. <i>Physical Review D</i> , 2012 , 86,	4.9	36
56	Sensitivity of CTA to dark matter signals from the Galactic Center. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014 , 2014, 024-024	6.4	35
55	Combined collider constraints on neutralinos and charginos. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	33
54	FINDING HIGH-REDSHIFT DARK STARS WITH THE JAMES WEBB SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2010 , 717, 257-267	4.7	33
53	Investigating dark matter substructure with pulsar timing II. Constraints on ultracompact minihaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 1394-1401	4.3	32
52	Comparison of statistical sampling methods with ScannerBit, the GAMBIT scanning module. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	30
51	Number counts and non-Gaussianity. <i>Physical Review D</i> , 2013 , 88,	4.9	29

50	Pippi [Painless parsing, post-processing and plotting of posterior and likelihood samples. <i>European Physical Journal Plus</i> , 2012 , 127, 1	3.1	29
49	ColliderBit: a GAMBIT module for the calculation of high-energy collider observables and likelihoods. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	27
48	Towards the next generation of simplified Dark Matter models. <i>Physics of the Dark Universe</i> , 2017 , 16, 49-70	4.4	26
47	Evaporation and scattering of momentum- and velocity-dependent dark matter in the Sun. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 037-037	6.4	25
46	Thermal conduction by dark matter with velocity and momentum-dependent cross-sections. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014 , 2014, 019-019	6.4	24
45	Generalised form factor dark matter in the Sun. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015 , 2015, 040-040	6.4	23
44	Ultracompact Minihalos as Probes of Inflationary Cosmology. <i>Physical Review Letters</i> , 2016 , 117, 141102	7.4	23
43	GAMBIT: the global and modular beyond-the-standard-model inference tool. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	22
42	Sensitivity of IceCube-DeepCore to neutralino dark matter in the MSSM-25. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 027-027	6.4	21
41	Statistical coverage for supersymmetric parameter estimation: a case study with direct detection of dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011 , 2011, 002-002	6.4	21
40	Observational constraints on supermassive dark stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010 , 407, L74-L78	4.3	20
39	Implications of solar wind measurements for solar models and composition. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 2-9	4.3	20
38	Axion global fits with Peccei-Quinn symmetry breaking before inflation using GAMBIT. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
37	FlavBit: a GAMBIT module for computing flavour observables and likelihoods. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	18
36	Quantifying impacts of short-term plasticity on neuronal information transfer. <i>Physical Review E</i> , 2012 , 85, 041921	2.4	18
35	Hunting for dark halo substructure using submilliarcsecond-scale observations of macrolensed radio jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 431, 2172-2183	4.3	17
34	Reinterpretation of LHC Results for New Physics: Status and recommendations after Run 2. <i>SciPost Physics</i> , 2020 , 9,	6.1	17
33	IMPACTS OF DARK STARS ON REIONIZATION AND SIGNATURES IN THE COSMIC MICROWAVE BACKGROUND. <i>Astrophysical Journal</i> , 2011 , 742, 129	4.7	16

32	Effect of electromagnetic dipole dark matter on energy transport in the solar interior. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 029-029	6.4	15
31	Updated constraints on velocity and momentum-dependent asymmetric dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 007-007	6.4	15
30	Investigating dark matter substructure with pulsar timing II. Improved limits on small-scale cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 1402-1409	4.3	14
29	Global fits of axion-like particles to XENON1T and astrophysical data. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	14
28	SpecBit, DecayBit and PrecisionBit: GAMBIT modules for computing mass spectra, particle decay rates and precision observables. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	13
27	GAMBIT: the global and modular beyond-the-standard-model inference tool. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	12
26	Light bosons in the photosphere and the solar abundance problem. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 432, 3332-3339	4.3	12
25	Two-loop mass splittings in electroweak multiplets: Winos and minimal dark matter. <i>Physical Review D</i> , 2018 , 97,	4.9	11
24	Constraints on cosmic strings from ultracompact minihalos. <i>Physical Review D</i> , 2015 , 92,	4.9	11
23	Implications for constrained supersymmetry of combined H.E.S.S. observations of dwarf galaxies, the Galactic halo and the Galactic Centre. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011 , 2011, 004-004	6.4	10
22	Use of event-level neutrino telescope data in global fits for theories of new physics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012 , 2012, 057-057	6.4	9
21	CosmoBit: a GAMBIT module for computing cosmological observables and likelihoods. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021 , 2021, 022-022	6.4	9
20	Heating of galactic gas by dark matter annihilation in ultracompact minihalos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 048-048	6.4	8
19	Strengthening the bound on the mass of the lightest neutrino with terrestrial and cosmological experiments. <i>Physical Review D</i> , 2021 , 103,	4.9	8
18	Dark matter substructure cannot explain properties of the Fermi Galactic Centre excess. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 060-060	6.4	7
17	LOW MASS STELLAR EVOLUTION WITH WIMP CAPTURE AND ANNIHILATION 2008 ,		7
16	GAMBIT and its application in the search for physics Beyond the Standard Model. <i>Progress in Particle and Nuclear Physics</i> , 2020 , 113, 103769	10.6	6
15	The chemical composition of the sun1This review is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. <i>Canadian Journal of Physics</i> , 2011 , 89, 327-331	1.1	6

14	Pitfalls of iterative pole mass calculation in electroweak multiplets. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	6
13	Constraints on small-scale cosmological perturbations from gamma-ray searches for dark matter. <i>Journal of Physics: Conference Series</i> , 2012 , 375, 032012	0.3	5
12	Why GN93 should not be used anymore. <i>EPJ Web of Conferences</i> , 2013 , 43, 01004	0.3	4
11	A comparison of optimisation algorithms for high-dimensional particle and astrophysics applications. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	4
10	Thermal WIMPs and the scale of new physics: global fits of Dirac dark matter effective field theories. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
9	The New Solar Composition and the Solar Metallicity 2011 , 51-60		3
8	Faint objects in motion: the new frontier of high precision astrometry. <i>Experimental Astronomy</i> , 2021 , 51, 845	1.3	3
7	A model-independent analysis of $b \rightarrow s \mu^+ \mu^-$ transitions with GAMBIT & FlavBit. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
6	Xsec: the cross-section evaluation code. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	2
5	THE DARKSTARS CODE: A PUBLICLY AVAILABLE DARK STELLAR EVOLUTION PACKAGE 2009 ,		2
4	Dark energy without fine tuning. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	1
3	The GAMBIT Universal Model Machine: from Lagrangians to likelihoods. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
2			
1	Simulation of energy transport by dark matter scattering in stars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022 , 2022, 002	6.4	0