

P W Hatfield

List of Publications by Year in Descending Order

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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.

27
papers

279
citations

11
h-index

16
g-index

30
ext. papers

411
ext. citations

5.2
avg, IF

3.39
L-index

#	Paper	IF	Citations
27	Building high accuracy emulators for scientific simulations with deep neural architecture search. <i>Machine Learning: Science and Technology</i> , 2022 , 3, 015013	5.1	15
26	The Sensitivity of GPz Estimates of Photo-z Posterior PDFs to Realistically Complex Training Set Imperfections. <i>Publications of the Astronomical Society of the Pacific</i> , 2022 , 134, 044501	5	0
25	SETI and democracy. <i>Acta Astronautica</i> , 2021 , 180, 596-603	2.9	1
24	The data-driven future of high-energy-density physics. <i>Nature</i> , 2021 , 593, 351-361	50.4	15
23	MIGHTEE-H i: the baryonic Tully-Fisher relation over the last billion years. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 1195-1205	4.3	8
22	Automation and control of laser wakefield accelerators using Bayesian optimization. <i>Nature Communications</i> , 2020 , 11, 6355	17.4	25
21	X-ray-line coincidence photopumping in a potassium-chlorine mixed plasma. <i>Physical Review A</i> , 2020 , 101,	2.6	1
20	Enhanced Fluorescence from X-Ray Line Coincidence Pumping. <i>Springer Proceedings in Physics</i> , 2020 , 29-35	0.2	
19	Euclid preparation. <i>Astronomy and Astrophysics</i> , 2020 , 644, A31	5.1	11
18	. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 14-21	1.3	12
17	Modelling burning thermonuclear plasma. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20200014	3	3
16	Augmenting machine learning photometric redshifts with Gaussian mixture models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 5498-5510	4.3	6
15	The blind implosion-maker: Automated inertial confinement fusion experiment design. <i>Physics of Plasmas</i> , 2019 , 26, 062706	2.1	15
14	Transforming education with the Timepix detector - Ten years of CERN@school. <i>Radiation Measurements</i> , 2019 , 127, 106090	1.5	7
13	IRIS opens pupils' eyes to real space research LUCID. <i>Astronomy and Geophysics</i> , 2019 , 60, 1.22-1.24	0.2	4
12	First results from the LUCID-Timepix spacecraft payload onboard the TechDemoSat-1 satellite in Low Earth Orbit. <i>Advances in Space Research</i> , 2019 , 63, 1523-1540	2.4	11
11	Observation of He-like Satellite Lines of the H-like Potassium K xix Emission. <i>Astrophysical Journal</i> , 2019 , 881, 92	4.7	4

10	Comparing galaxy clustering in Horizon-AGN simulated light-cone mocks and VIDEO observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 5043-5056	4-3	3
9	The environment and host haloes of the brightest $z \sim 6$ Lyman-break galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 3760-3774	4-3	9
8	The LUCID-Timepix spacecraft payload and the CERN@school educational programme. <i>Journal of Instrumentation</i> , 2018 , 13, C10004-C10004	1	3
7	The clustering and bias of radio-selected AGN and star-forming galaxies in the COSMOS field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 4133-4150	4-3	22
6	Environmental quenching and galactic conformity in the galaxy cross-correlation signal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 472, 3570-3588	4-3	16
5	Extragalactic optical and near-infrared foregrounds to 21-cm epoch of reionisation experiments. <i>Proceedings of the International Astronomical Union</i> , 2017 , 12, 183-190	0-1	
4	The galaxy halo connection in the VIDEO survey at 0.5. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 2618-2631	4-3	23
3	The rich are different: evidence from the RAVE survey for stellar radial migration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 447, 3526-3535	4-3	54
2	Using line intensity ratios to determine the geometry of plasma in stars via their apparent areas. <i>High Energy Density Physics</i> , 2010 , 6, 301-304	1-2	9
1	Astronomy Domine: advancing science with a burning plasma. <i>Contemporary Physics</i> , 1-10	3-3	