P W Hatfield

List of Publications by Citations

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	The rich are different: evidence from the RAVE survey for stellar radial migration. *Monthly Notices of the Royal Astronomical Society*, **2015**, 447, 3526-3535	4.3	54
26	Automation and control of laser wakefield accelerators using Bayesian optimization. *Nature Communications*, **2020**, 11, 6355	17.4	25
25	The galaxy□halo connection in the VIDEO survey at 0.5 Monthly Notices of the Royal Astronomical Society, **2016**, 459, 2618-2631	4.3	23
24	The clustering and bias of radio-selected AGN and star-forming galaxies in the COSMOS field. *Monthly Notices of the Royal Astronomical Society*, **2018**, 474, 4133-4150	4.3	22
23	Environmental quenching and galactic conformity in the galaxy cross-correlation signal. *Monthly Notices of the Royal Astronomical Society*, **2017**, 472, 3570-3588	4.3	16
22	The blind implosion-maker: Automated inertial confinement fusion experiment design. *Physics of Plasmas*, **2019**, 26, 062706	2.1	15
21	Building high accuracy emulators for scientific simulations with deep neural architecture search. *Machine Learning: Science and Technology*, **2022**, 3, 015013	5.1	15
20	The data-driven future of high-energy-density physics. *Nature*, **2021**, 593, 351-361	50.4	15
19	. *IEEE Transactions on Plasma Science*, **2020**, 48, 14-21	1.3	12
18	First results from the LUCID-Timepix spacecraft payload onboard the TechDemoSat-1 satellite in Low Earth Orbit. *Advances in Space Research*, **2019**, 63, 1523-1540	2.4	11
17	Euclid preparation. *Astronomy and Astrophysics*, **2020**, 644, A31	5.1	11
16	The environment and host haloes of the brightest z□6 Lyman-break galaxies. *Monthly Notices of the Royal Astronomical Society*, **2018**, 477, 3760-3774	4.3	9
15	Using line intensity ratios to determine the geometry of plasma in stars via their apparent areas. *High Energy Density Physics*, **2010**, 6, 301-304	1.2	9
14	MIGHTEE-H i: the baryonic Tully□isher relation over the last billion years. *Monthly Notices of the Royal Astronomical Society*, **2021**, 508, 1195-1205	4.3	8
13	Transforming education with the Timepix detector - Ten years of CERN@school. *Radiation Measurements*, **2019**, 127, 106090	1.5	7
12	Augmenting machine learning photometric redshifts with Gaussian mixture models. *Monthly Notices of the Royal Astronomical Society*, **2020**, 498, 5498-5510	4.3	6
11	IRIS opens pupilsaeyes to real space researchLUCID. *Astronomy and Geophysics*, **2019**, 60, 1.22-1.24	0.2	4

List of Publications

10	Observation of He-like Satellite Lines of the H-like Potassium K xix Emission. *Astrophysical Journal*, **2019**, 881, 92	4.7	4
9	Comparing galaxy clustering in Horizon-AGN simulated light-cone mocks and VIDEO observations. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 5043-5056	4.3	3
8	Modelling burning thermonuclear plasma. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20200014	3	3
7	The LUCID-Timepix spacecraft payload and the CERN@school educational programme. *Journal of Instrumentation*, **2018**, 13, C10004-C10004	1	3
6	X-ray-line coincidence photopumping in a potassium-chlorine mixed plasma. *Physical Review A*, **2020**, 101,	2.6	1
5	SETI and democracy. *Acta Astronautica*, **2021**, 180, 596-603	2.9	1
4	The Sensitivity of GPz Estimates of Photo-z Posterior PDFs to Realistically Complex Training Set Imperfections. *Publications of the Astronomical Society of the Pacific*, **2022**, 134, 044501	5	0
3	Extragalactic optical and near-infrared foregrounds to 21-cm epoch of reionisation experiments. *Proceedings of the International Astronomical Union*, **2017**, 12, 183-190	0.1	
2	Enhanced Fluorescence from X-Ray Line Coincidence Pumping. *Springer Proceedings in Physics*, **2020**, 29-35	0.2	
1	Astronomy Domine: advancing science with a burning plasma. *Contemporary Physics*,1-10	3.3	