Alan Duffy

List of Publications by Year
in descending order

62 papers	3,106 citations	304368 22 h-index	168136 53 g-index
66 all docs	66 docs citations	66 times ranked	3499 citing authors

#	Article	IF	Citations
1	Mineral Processing and Metal Extraction on the Lunar Surface - Challenges and Opportunities. Mineral Processing and Extractive Metallurgy Review, 2022, 43, 865-891.	2.6	12
2	A Search for Cosmic Ray Bursts at 0.1 PeV with a Small Air Shower Array. Symmetry, 2022, 14, 501.	1.1	5
3	Cosmic ray ensembles as signatures of ultra-high energy photons interacting with the solar magnetic field. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 038.	1.9	4
4	Fast radio bursts as probes of feedback from active galactic nuclei. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 512, L49-L53.	1.2	1
5	NOVEL METALLURGICAL PATHWAYS FOR METAL AND OXIDE EXTRACTION FROM LUNAR REGOLITH. , 2022, , .		0
6	Thermophysical property evolution during molten regolith electrolysis. Planetary and Space Science, 2022, 219, 105527.	0.9	3
7	Determination of Zenith Angle Dependence of Incoherent Cosmic Ray Muon Flux Using Smartphones of the CREDO Project. Applied Sciences (Switzerland), 2021, 11, 1185.	1.3	4
8	Remote-sensing concept using polariscopy for orientation determination below the spatial resolution limit. , 2021, , .		1
9	A scalable and reconfigurable industrial-grade Slow Control System for SABRE-South Dark matter experiment. Journal of Instrumentation, 2021, 16, P03002.	0.5	3
10	Ultra-fast Model Emulation with PRISM: Analyzing the Meraxes Galaxy Formation Model. Astrophysical Journal, Supplement Series, 2021, 253, 50.	3.0	0
11	Muon event localisation with AI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1001, 165237.	0.7	0
12	The cosmic dispersion measure in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5356-5369.	1.6	5
13	Thermodynamic modelling of ultra-high vacuum thermal decomposition for lunar resource processing. Planetary and Space Science, 2021, 204, 105272.	0.9	11
14	Towards A Global Cosmic Ray Sensor Network: CREDO Detector as the First Open-Source Mobile Application Enabling Detection of Penetrating Radiation. Symmetry, 2020, 12, 1802.	1.1	15
15	Cosmic-Ray Extremely Distributed Observatory. Symmetry, 2020, 12, 1835.	1.1	33
16	Search for ultra-high energy photons through preshower effect with gamma-ray telescopes: Study of CTA-North efficiency. Astroparticle Physics, 2020, 123, 102489.	1.9	2
17	GAMAÂ+ÂKiDS: empirical correlations between halo mass and other galaxy properties near the knee of the stellar-to-halo mass relation. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2896-2911.	1.6	17
18	Annual modulation in direct dark matter searches. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 094002.	1.4	19

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19	The first CREDO registration of extensive air shower. Physics Education, 2020, 55, 055021.	0.3	4
20	Improving the energy resolution while mitigating the effects of dark-noise, for a microcontroller based SiPM sensor. Journal of Instrumentation, 2020, 15, P09028-P09028.	0.5	1
21	SiPM Smart Sensor based portable coincidence system for distributed field applications. Journal of Instrumentation, 2019, 14, P09026-P09026.	0.5	2
22	Model Dispersion with prism: An Alternative to MCMC for Rapid Analysis of Models. Astrophysical Journal, Supplement Series, 2019, 242, 22.	3.0	6
23	Dark-ages Reionization and Galaxy Formation Simulation â€“ XV. Stellar evolution and feedback in dwarf galaxies at high redshift. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1946-1963.	1.6	3
24	The SABRE project and the SABRE Proof-of-Principle. European Physical Journal C, 2019, 79, 1.	1.4	73
25	Monte Carlo simulation of the SABRE PoP background. Astroparticle Physics, 2019, 106, 1-9.	1.9	26
26	Public engagement as a scientific tool to implement multi-messenger strategies with the Cosmic-Ray Extremely Distributed Observatory. , 2019, , .		1
27	Recognition and classification of the cosmic-ray events in images captured by CMOS/CCD cameras. , 2019, , .		5
28	The formation of hot gaseous haloes around galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 473, 538-559.	1.6	44
29	Cosmic-Ray Extremely Distributed Observatory: Status and Perspectives. Universe, 2018, 4, 111.	0.9	6
30	Dark-ages Reionization and Galaxy Formation Simulation â€“ XIV. Gas accretion, cooling, and star formation in dwarf galaxies at high redshift. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1318-1335.	1.6	4
31	The impact of feedback and the hot halo on the rates of gas accretion on to galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 255-269.	1.6	26
32	Tracing H<scp>i</scp> Beyond the Local Universe. Publications of the Astronomical Society of Australia, 2017, 34, .	1.3	60
33	Dark-ages reionization and galaxy-formation simulation â€“ VII. The sizes of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3134-3142.	1.6	19
34	Dark-ages reionization and galaxy formation simulation â€“ XII. Bubbles at dawn. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1324-1335.	1.6	10
35	Dark-ages reionization and galaxy formation simulationâ€“XI. Clustering and halo masses of high redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1995-2008.	1.6	10
36	Dark-ages reionization and galaxy formation simulation â€“ X. The small contribution of quasars to reionization. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2009-2027.	1.6	58

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37	Dark-ages reionization and galaxy formation simulation â€“ XIII. AGN quenching of high-redshift star formation in ZF-COSMOS-20115. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4345-4354.	1.6	13
38	Dark-ages reionization and galaxy formation simulation â€“ IX. Economics of reionizing galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3300-3315.	1.6	4
39	Dark-ages Reionization and Galaxy formation simulation â€“ I. The dynamical lives of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3025-3039.	1.6	45
40	THE THEORETICAL ASTROPHYSICAL OBSERVATORY: CLOUD-BASED MOCK GALAXY CATALOGS*. Astrophysical Journal, Supplement Series, 2016, 223, 9.	3.0	42
41	Dark-ages reionization and galaxy-formation simulationâ€“ VI. The origins and fate of the highest known redshift galaxy. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3556-3562.	1.6	15
42	Dark-ages reionization and galaxy formation simulation â€“ IV. UV luminosity functions of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 235-249.	1.6	60
43	Dark-ages reionization and galaxy formation simulation â€“ III. Modelling galaxy formation and the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2016, 462, 250-276.	1.6	99
44	Dark-ages reionization and galaxy formation simulation V: morphology and statistical signatures of reionization. Monthly Notices of the Royal Astronomical Society, 2016, 462, 804-817.	1.6	23
45	Dark-ages reionization and galaxy formation simulation â€“ II. Spin and concentration parameters for dark matter haloes during the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2106-2117.	1.6	26
46	The accretion history of dark matter haloes â€“ III. A physical model for the concentrationâ€“mass relation. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1217-1232.	1.6	168
47	The accretion history of dark matter haloes â€“ II. The connections with the mass power spectrum and the density profile. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1521-1537.	1.6	78
48	The accretion history of dark matter haloes â€“ I. The physical origin of the universal function. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1514-1520.	1.6	91
49	Low-mass galaxy formation and the ionizing photon budget during reionization. Monthly Notices of the Royal Astronomical Society, 2014, 443, 3435-3443.	1.6	20
50	Probing the nature of dark energy through galaxy redshift surveys with radio telescopes. Annalen Der Physik, 2014, 526, 283-293.	0.9	5
51	Giant radio galaxies â€“ I. Intergalactic barometers. Monthly Notices of the Royal Astronomical Society, 2013, 432, 200-224.	1.6	28
52	The impact of baryons on the spins and shapes of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3316-3329.	1.6	114
53	Cosmological Surveys with the Australian Square Kilometre Array Pathfinder. Publications of the Astronomical Society of Australia, 2012, 29, 202-211.	1.3	18
54	Predictions for ASKAP neutral hydrogen surveys. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3385-3402.	1.6	116

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55	Modelling neutral hydrogen in galaxies using cosmological hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	18
56	The physics driving the cosmic star formation history. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1536-1560.	1.6	704
57	Impact of baryon physics on dark matter structures: a detailed simulation study of halo density profiles. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	135
58	Dark matter halo concentrations in the Wilkinson Microwave Anisotropy Probe year 5 cosmology. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 390, L64-L68.	1.2	740
59	Galaxy redshift survey in neutral hydrogen with FAST. , 2008, , .		0
60	Galaxy redshift surveys selected by neutral hydrogen using the Five-hundred metre Aperture Spherical Telescope. Monthly Notices of the Royal Astronomical Society, 0, 383, 150-160.	1.6	28
61	Dark-agesÂReionizationÂ&ÂGalaxyÂFormationÂSimulationÂVIII. Suppressed growth of dark matter halos during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 0, , stx083.	1.6	4
62	Gaia EDR3 bright star parallax zero-point using stellar clusters. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	7