

Dusan Keres

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

15,157
citations

17405

63
h-index

22102

113
g-index

115
all docs

115
docs citations

115
times ranked

6048
citing authors

#	ARTICLE	IF	CITATIONS
1	How do galaxies get their gas?. Monthly Notices of the Royal Astronomical Society, 2005, 363, 2-28.	1.6	1,796
2	Galaxies on FIRE (Feedback In Realistic Environments): stellar feedback explains cosmologically inefficient star formation. Monthly Notices of the Royal Astronomical Society, 2014, 445, 581-603.	1.6	1,068
3	FIRE-2 simulations: physics versus numerics in galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 800-863.	1.6	676
4	Galaxies in a simulated Λ CDM Universe - I. Cold mode and hot cores. Monthly Notices of the Royal Astronomical Society, 2009, 395, 160-179.	1.6	618
5	Gusty, gaseous flows of FIRE: galactic winds in cosmological simulations with explicit stellar feedback. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2691-2713.	1.6	478
6	RECONCILING DWARF GALAXIES WITH Λ CDM COSMOLOGY: SIMULATING A REALISTIC POPULATION OF SATELLITES AROUND A MILKY WAY-MASS GALAXY. Astrophysical Journal Letters, 2016, 827, L23.	3.0	430
7	Feedback and recycled wind accretion: assembling the $z=0$ galaxy mass function. Monthly Notices of the Royal Astronomical Society, 2010, 406, 2325-2338.	1.6	410
8	THE MOSFIRE DEEP EVOLUTION FIELD (MOSDEF) SURVEY: REST-FRAME OPTICAL SPECTROSCOPY FOR $1.37 \leq z \leq 3.8$ $H</i>$ -SELECTED GALAXIES AT $1.37 \leq z \leq 3.8$. Astrophysical Journal, Supplement Series, 2015, 218, 15.	3.0	312
9	The origin and evolution of the galaxy mass-metallicity relation. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2140-2156.	1.6	307
10	Forged in fire: cusps, cores and baryons in low-mass dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2092-2106.	1.6	291
11	The role of dwarf galaxy interactions in shaping the Magellanic System and implications for Magellanic Irregulars. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2109-2138.	1.6	289
12	The cosmic baryon cycle and galaxy mass assembly in the FIRE simulations. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4698-4719.	1.6	289
13	Moving mesh cosmology: tracing cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3353-3370.	1.6	288
14	The baryonic assembly of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2982-2999.	1.6	244
15	Not so lumpy after all: modelling the depletion of dark matter subhaloes by Milky Way-like galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1709-1727.	1.6	242
16	BREATHING FIRE: HOW STELLAR FEEDBACK DRIVES RADIAL MIGRATION, RAPID SIZE FLUCTUATIONS, AND POPULATION GRADIENTS IN LOW-MASS GALAXIES. Astrophysical Journal, 2016, 820, 131.	1.6	205
17	$L_{\text{Ly}\alpha}$ COOLING EMISSION FROM GALAXY FORMATION. Astrophysical Journal, 2010, 725, 633-657.	1.6	196
18	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	3.0	185

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19	MERGERS IN Λ CDM: UNCERTAINTIES IN THEORETICAL PREDICTIONS AND INTERPRETATIONS OF THE MERGER RATE. <i>Astrophysical Journal</i> , 2010, 724, 915-945.	1.6	183
20	Black holes on FIRE: stellar feedback limits early feeding of galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 472, L109-L114.	1.2	176
21	fire in the field: simulating the threshold of galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3547-3562.	1.6	173
22	(Star)bursts of FIRE: observational signatures of bursty star formation in galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 88-104.	1.6	169
23	Submillimetre galaxies in a hierarchical universe: number counts, redshift distribution and implications for the IMF. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 2529-2547.	1.6	165
24	Galactic r-process enrichment by neutron star mergers in cosmological simulations of a Milky Way-mass galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 140-148.	1.6	148
25	The small covering factor of cold accretion streams. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 412, L118-L122.	1.2	145
26	Gaia Reveals a Metal-rich, in situ Component of the Local Stellar Halo. <i>Astrophysical Journal</i> , 2017, 845, 101.	1.6	142
27	How to model supernovae in simulations of star and galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1578-1603.	1.6	140
28	Neutral hydrogen in galaxy haloes at the peak of the cosmic star formation history. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 987-1003.	1.6	139
29	Be it therefore resolved: cosmological simulations of dwarf galaxies with 30 solar mass resolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4447-4463.	1.6	139
30	The Local Group on FIRE: dwarf galaxy populations across a suite of hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1380-1399.	1.6	137
31	SEEDING THE FORMATION OF COLD GASEOUS CLOUDS IN MILKY WAY-SIZE HALOS. <i>Astrophysical Journal</i> , 2009, 700, L1-L5.	1.6	135
32	The origins of the circumgalactic medium in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1248-1272.	1.6	132
33	Gas kinematics, morphology and angular momentum in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 1930-1955.	1.6	131
34	The difficulty of getting high escape fractions of ionizing photons from high-redshift galaxies: a view from the FIRE cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 960-975.	1.6	126
35	The structure and dynamical evolution of the stellar disc of a simulated Milky Way-mass galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 2430-2444.	1.6	125
36	Sweating the small stuff: simulating dwarf galaxies, ultra-faint dwarf galaxies, and their own tiny satellites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 1305-1316.	1.6	124

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37	When feedback fails: the scaling and saturation of star formation efficiency. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3511-3528.	1.6	120
38	Metal flows of the circumgalactic medium, and the metal budget in galactic haloes. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4170-4188.	1.6	119
39	Moving-mesh cosmology: characteristics of galaxies and haloes. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2027-2048.	1.6	116
40	Feedback first: the surprisingly weak effects of magnetic fields, viscosity, conduction and metal diffusion on sub-L* galaxy formation. Monthly Notices of the Royal Astronomical Society, 2017, 471, 144-166.	1.6	113
41	Modelling chemical abundance distributions for dwarf galaxies in the Local Group: the impact of turbulent metal diffusion. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2194-2211.	1.6	111
42	But what about...: cosmic rays, magnetic fields, conduction, and viscosity in galaxy formation. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3465-3498.	1.6	107
43	Simulating galaxies in the reionization era with FIRE-2: galaxy scaling relations, stellar mass functions, and luminosity functions. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1694-1715.	1.6	106
44	How to distinguish starbursts and quiescently star-forming galaxies: the "bimodal" submillimetre galaxy population as a case study. Monthly Notices of the Royal Astronomical Society, 2012, 424, 951-970.	1.6	101
45	Properties of the circumgalactic medium in cosmic ray-dominated galaxy haloes. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4221-4238.	1.6	99
46	On the dust temperatures of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1397-1422.	1.6	97
47	Where are the most ancient stars in the Milky Way?. Monthly Notices of the Royal Astronomical Society, 2018, 480, 652-668.	1.6	96
48	The origin of the diverse morphologies and kinematics of Milky Way-mass galaxies in the FIRE-2 simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4133-4157.	1.6	91
49	What FIREs up star formation: the emergence of the Kennicutt-Schmidt law from feedback. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3653-3673.	1.6	91
50	Giant clumps in the FIRE simulations: a case study of a massive high-redshift galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 465, 952-969.	1.6	90
51	A stellar feedback origin for neutral hydrogen in high-redshift quasar-mass haloes. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 461, L32-L36.	1.2	89
52	Dust attenuation, dust emission, and dust temperature in galaxies at $z \approx 5$: a view from the FIRE-2 simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1844-1864.	1.6	87
53	Star formation histories of dwarf galaxies in the FIRE simulations: dependence on mass and Local Group environment. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4574-4588.	1.6	83
54	Formation of globular cluster candidates in merging proto-galaxies at high redshift: a view from the FIRE cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4232-4244.	1.6	79

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55	The formation of massive, quiescent galaxies at cosmic noon. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 458, L14-L18.	1.2	78
56	Synthetic Gaia Surveys from the FIRE Cosmological Simulations of Milky Way-mass Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 6.	3.0	77
57	The physics of Lyman- α escape from high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 39-59.	1.6	76
58	Interacting galaxies on FIRE-2: the connection between enhanced star formation and interstellar gas content. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1320-1338.	1.6	75
59	No missing photons for reionization: moderate ionizing photon escape fractions from the FIRE-2 simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2001-2017.	1.6	75
60	High Angular Momentum Halo Gas: A Feedback and Code-independent Prediction of LCDM. <i>Astrophysical Journal</i> , 2017, 843, 47.	1.6	74
61	A dark matter profile to model diverse feedback-induced core sizes of Λ CDM haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2393-2417.	1.6	71
62	The creation and persistence of a misaligned gas disc in a simulated early-type galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3269-3277.	1.6	68
63	Virialization of the Inner CGM in the FIRE Simulations and Implications for Galaxy Disks, Star Formation, and Feedback. <i>Astrophysical Journal</i> , 2021, 911, 88.	1.6	66
64	Colours, star formation rates and environments of star-forming and quiescent galaxies at the cosmic noon. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1050-1072.	1.6	65
65	Low-redshift Lyman limit systems as diagnostics of cosmological inflows and outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2292-2304.	1.6	65
66	Radiative stellar feedback in galaxy formation: Methods and physics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 3702-3729.	1.6	64
67	SIDM on fire: hydrodynamical self-interacting dark matter simulations of low-mass dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2945-2954.	1.6	61
68	Self-consistent proto-globular cluster formation in cosmological simulations of high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4315-4332.	1.6	59
69	Characterizing mass, momentum, energy, and metal outflow rates of multiphase galactic winds in the FIRE-2 cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2979-3008.	1.6	56
70	Dwarf galaxies in CDM, WDM, and SIDM: disentangling baryons and dark matter physics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 962-977.	1.6	54
71	Cosmic ray driven outflows to Mpc scales from $<i>L</i>^*$ galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3640-3662.	1.6	52
72	Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. <i>Astrophysical Journal</i> , 2021, 917, 53.	1.6	49

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73	Reconciling Observed and Simulated Stellar Halo Masses. <i>Astrophysical Journal</i> , 2018, 869, 12.	1.6	48
74	Simulating galaxies in the reionization era with FIRE-2: morphologies and sizes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 219-229.	1.6	48
75	The impact of stellar feedback on hot gas in galaxy haloes: the Sunyaev-Zel'dovich effect and soft X-ray emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 4533-4544.	1.6	47
76	Why do high-redshift galaxies show diverse gas-phase metallicity gradients?. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx034.	1.6	46
77	The fates of the circumgalactic medium in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3581-3595.	1.6	46
78	An instability of feedback-regulated star formation in galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 2301-2314.	1.6	42
79	When the Jeans Do Not Fit: How Stellar Feedback Drives Stellar Kinematics and Complicates Dynamical Modeling in Low-mass Galaxies. <i>Astrophysical Journal</i> , 2017, 835, 193.	1.6	41
80	Effects of different cosmic ray transport models on galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3663-3669.	1.6	41
81	Under the FIRElight: Stellar Tracers of the Local Dark Matter Velocity Distribution in the Milky Way. <i>Astrophysical Journal</i> , 2019, 883, 27.	1.6	40
82	Cosmic rays or turbulence can suppress cooling flows (where thermal heating or momentum) $T_j \approx T_{Q0} \frac{10^{-10} \text{ erg BT}}{\text{Overlock } 10^{-10} \text{ Tf } 50 \text{ 382}}$	1.6	39
83	Discrete Effects in Stellar Feedback: Individual Supernovae, Hypernovae, and IMF Sampling in Dwarf Galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 1666-1675.	1.6	38
84	The failure of stellar feedback, magnetic fields, conduction, and morphological quenching in maintaining red galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4393-4408.	1.6	38
85	The MOSDEF Survey: Broad Emission Lines at $z \approx 1.4 \pm 0.3^*$. <i>Astrophysical Journal</i> , 2019, 873, 102.	1.6	38
86	Gas kinematics in FIRE simulated galaxies compared to spatially unresolved $\text{H}\alpha$ observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1536-1548.	1.6	37
87	The Keck Baryonic Structure Survey: using foreground/background galaxy pairs to trace the structure and kinematics of circumgalactic neutral hydrogen at $\langle i \rangle z \langle i \rangle \hat{a}^{-1/4} 2$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1721-1746.	1.6	37
88	Pressure balance in the multiphase ISM of cosmologically simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3664-3683.	1.6	35
89	Warm FIRE: simulating galaxy formation with resonant sterile neutrino dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 4086-4099.	1.6	34
90	Swirls of FIRE: spatially resolved gas velocity dispersions and star formation rates in FIRE-2 disc environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1620-1637.	1.6	32

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91	The bursty origin of the Milky Way thick disc. Monthly Notices of the Royal Astronomical Society, 2021, 505, 889-902.	1.6	32
92	Hot-mode accretion and the physics of thin-disc galaxy formation. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5056-5073.	1.6	32
93	Which AGN jets quench star formation in massive galaxies?. Monthly Notices of the Royal Astronomical Society, 2021, 507, 175-204.	1.6	31
94	Galaxies lacking dark matter produced by close encounters in a cosmological simulation. Nature Astronomy, 2022, 6, 496-502.	4.2	31
95	What drives the evolution of gas kinematics in star-forming galaxies?. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5125-5137.	1.6	30
96	The impact of AGN wind feedback in simulations of isolated galaxies with a multiphase ISM. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5292-5308.	1.6	30
97	Gas infall and radial transport in cosmological simulations of milky way-mass discs. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4149-4170.	1.6	30
98	Measuring dynamical masses from gas kinematics in simulated high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4051-4065.	1.6	28
99	Stars made in outflows may populate the stellar halo of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1539-1559.	1.6	24
100	Dwarf galaxy mass estimators versus cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4786-4796.	1.6	23
101	Virial shocks are suppressed in cosmic ray-dominated galaxy haloes. Monthly Notices of the Royal Astronomical Society, 2021, 505, 259-273.	1.6	23
102	First predicted cosmic ray spectra, primary-to-secondary ratios, and ionization rates from MHD galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 2022, 516, 3470-3514.	1.6	22
103	The IRX- τ^2 relation of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3210-3241.	1.6	20
104	Stacked Star Formation Rate Profiles of Bursty Galaxies Exhibit Coherent Star Formation. Astrophysical Journal Letters, 2017, 849, L2.	3.0	19
105	Thermal instability in the CGM of L^{\dagger} galaxies: testing precipitation models with the FIRE simulations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1841-1862.	1.6	19
106	Neutral CGM as damped Ly α absorbers at high redshift. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2869-2884.	1.6	17
107	Black hole galaxy scaling relations in FIRE: the importance of black hole location and mergers. Monthly Notices of the Royal Astronomical Society, 2022, 511, 506-535.	1.6	15
108	The galaxy halo size relation of low-mass galaxies in FIRE. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3967-3985.	1.6	13

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109	The Galaxyâ€“Halo Connection in Low-mass Halos. <i>Astrophysical Journal Letters</i> , 2019, 871, L21.	3.0	12
110	Reproducing the CO-to-H2 conversion factor in cosmological simulations of Milky-Way-mass galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 837-850.	1.6	11
111	On the algorithms of radiative cooling in semi-analytic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	1.6	9
112	On the deuterium abundance and the importance of stellar mass loss in the interstellar and intergalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 80-92.	1.6	9
113	The Origin and Evolution of Ly α Blobs in Cosmological Galaxy Formation Simulations. <i>Astrophysical Journal</i> , 2021, 909, 119.	1.6	9
114	Probing the CGM of low-redshift dwarf galaxies using FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1038-1053.	1.6	8