

Dusan Keres

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

15,157
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17405

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115
docs citations

115
times ranked

6048
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Galaxies lacking dark matter produced by close encounters in a cosmological simulation. Nature Astronomy, 2022, 6, 496-502.	4.2	31
4	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
5	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
6	Characterizing mass, momentum, energy, and metal outflow rates of multiphase galactic winds in the FIRE-2 cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2979-3008.	1.6	56
7	The IRX– τ^2 relation of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3210-3241.	1.6	20
8	The Origin and Evolution of Ly α Blobs in Cosmological Galaxy Formation Simulations. Astrophysical Journal, 2021, 909, 119.	1.6	9
9	Virialization of the Inner CGM in the FIRE Simulations and Implications for Galaxy Disks, Star Formation, and Feedback. Astrophysical Journal, 2021, 911, 88.	1.6	66
10	Virial shocks are suppressed in cosmic ray-dominated galaxy haloes. Monthly Notices of the Royal Astronomical Society, 2021, 505, 259-273.	1.6	23
11	The bursty origin of the Milky Way thick disc. Monthly Notices of the Royal Astronomical Society, 2021, 505, 889-902.	1.6	32
12	Thermal instability in the CGM of L^*_{UV} galaxies: testing “precipitation” models with the FIRE simulations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1841-1862.	1.6	19
13	Which AGN jets quench star formation in massive galaxies?. Monthly Notices of the Royal Astronomical Society, 2021, 507, 175-204.	1.6	31
14	Neutral CGM as damped Ly α absorbers at high redshift. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2869-2884.	1.6	17
15	Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. Astrophysical Journal, 2021, 917, 53.	1.6	49
16	Cosmic ray driven outflows to Mpc scales from L^* galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3640-3662.	1.6	52
17	Effects of different cosmic ray transport models on galaxy formation. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3663-3669.	1.6	41
18	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

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19	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
20	Properties of the circumgalactic medium in cosmic ray-dominated galaxy haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 4221-4238.	1.6	99
21	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
22	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
23	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
24	The impact of AGN wind feedback in simulations of isolated galaxies with a multiphase ISM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5292-5308.	1.6	30
25	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
26	Measuring dynamical masses from gas kinematics in simulated high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4051-4065.	1.6	28
27	The Keck Baryonic Structure Survey: using foreground/background galaxy pairs to trace the structure and kinematics of circumgalactic neutral hydrogen at $\langle i \rangle z \langle i \rangle \approx 1/4$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1721-1746.	1.6	37
28	Reproducing the CO-to-H ₂ 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
29	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
30	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
31	But what about...: cosmic rays, magnetic fields, conduction, and viscosity in galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3465-3498.	1.6	107
32	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
33	Cosmic rays or turbulence can suppress cooling flows (where thermal heating or momentum) $T_j \approx 10^8 \text{ K}$ $\rho \approx 10^{-24} \text{ g cm}^{-3}$ $v \approx 100 \text{ km s}^{-1}$ $\tau \approx 10^8 \text{ yr}$ $\dot{M} \approx 10^{-2} M_\odot \text{ yr}^{-1}$ $\dot{M}_{\text{cool}} \approx 10^{-1} M_\odot \text{ yr}^{-1}$ $\dot{M}_{\text{out}} \approx 10^{-1} M_\odot \text{ yr}^{-1}$ $\dot{M}_{\text{in}} \approx 10^{-1} M_\odot \text{ yr}^{-1}$ $\dot{M}_{\text{out}} / \dot{M}_{\text{in}} \approx 1$	1.6	39
34	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
35	Stars made in outflows may populate the stellar halo of the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1539-1559.	1.6	24
36	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

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37	The failure of stellar feedback, magnetic fields, conduction, and morphological quenching in maintaining red galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4393-4408.	1.6	38
38	Dwarf galaxies in CDM, WDM, and SIDM: disentangling baryons and dark matter physics. Monthly Notices of the Royal Astronomical Society, 2019, 490, 962-977.	1.6	54
39	Be it therefore resolved: cosmological simulations of dwarf galaxies with 30 solar mass resolution. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4447-4463.	1.6	139
40	On the dust temperatures of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1397-1422.	1.6	97
41	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
42	The Local Group on FIRE: dwarf galaxy populations across a suite of hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1380-1399.	1.6	137
43	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
44	The Galaxy-Halo Connection in Low-mass Halos. Astrophysical Journal Letters, 2019, 871, L21.	3.0	12
45	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
46	Interacting galaxies on FIRE-2: the connection between enhanced star formation and interstellar gas content. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1320-1338.	1.6	75
47	The physics of Lyman- α escape from high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 484, 39-59.	1.6	76
48	The MOSDEF Survey: Broad Emission Lines at $z \approx 1.4-3.8$. Astrophysical Journal, 2019, 873, 102.	1.6	38
49	Warm FIRE: simulating galaxy formation with resonant sterile neutrino dark matter. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4086-4099.	1.6	34
50	Under the FIRElight: Stellar Tracers of the Local Dark Matter Velocity Distribution in the Milky Way. Astrophysical Journal, 2019, 883, 27.	1.6	40
51	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
52	On the deuterium abundance and the importance of stellar mass loss in the interstellar and intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2018, 477, 80-92.	1.6	9
53	Reconciling Observed and Simulated Stellar Halo Masses. Astrophysical Journal, 2018, 869, 12.	1.6	48
54	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

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55	Simulating galaxies in the reionization era with FIRE-2: morphologies and sizes. Monthly Notices of the Royal Astronomical Society, 2018, 477, 219-229.	1.6	48
56	FIRE-2 simulations: physics versus numerics in galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 800-863.	1.6	676
57	Discrete Effects in Stellar Feedback: Individual Supernovae, Hypernovae, and IMF Sampling in Dwarf Galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1666-1675.	1.6	38
58	Gas kinematics, morphology and angular momentum in the FIRE simulations. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1930-1955.	1.6	131
59	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
60	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
61	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
62	Gas kinematics in FIRE simulated galaxies compared to spatially unresolved H α observations. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1536-1548.	1.6	37
63	How to model supernovae in simulations of star and galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1578-1603.	1.6	140
64	Where are the most ancient stars in the Milky Way?. Monthly Notices of the Royal Astronomical Society, 2018, 480, 652-668.	1.6	96
65	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
66	When the Jeans Do Not Fit: How Stellar Feedback Drives Stellar Kinematics and Complicates Dynamical Modeling in Low-mass Galaxies. Astrophysical Journal, 2017, 835, 193.	1.6	41
67	The structure and dynamical evolution of the stellar disc of a simulated Milky Way-mass galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2430-2444.	1.6	125
68	Gaia Reveals a Metal-rich, in situ Component of the Local Stellar Halo. Astrophysical Journal, 2017, 845, 101.	1.6	142
69	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
70	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
71	An instability of feedback-regulated star formation in galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2301-2314.	1.6	42
72	Stacked Star Formation Rate Profiles of Bursty Galaxies Exhibit Coherent Star Formation. Astrophysical Journal Letters, 2017, 849, L2.	3.0	19

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73	High Angular Momentum Halo Gas: A Feedback and Code-independent Prediction of LCDM. <i>Astrophysical Journal</i> , 2017, 843, 47.	1.6	74
74	(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
75	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
76	Feedback first: the surprisingly weak effects of magnetic fields, viscosity, conduction and metal diffusion on sub- L^* galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 144-166.	1.6	113
77	Metal flows of the circumgalactic medium, and the metal budget in galactic haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 4170-4188.	1.6	119
78	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
79	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
80	Dwarf galaxy mass estimators versus cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4786-4796.	1.6	23
81	Giant clumps in the FIRE simulations: a case study of a massive high-redshift galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 952-969.	1.6	90
82	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
83	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
84	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
85	RECONCILING DWARF GALAXIES WITH Λ CDM COSMOLOGY: SIMULATING A REALISTIC POPULATION OF SATELLITES AROUND A MILKY WAY-MASS GALAXY. <i>Astrophysical Journal Letters</i> , 2016, 827, L23.	3.0	430
86	BREATHING FIRE: HOW STELLAR FEEDBACK DRIVES RADIAL MIGRATION, RAPID SIZE FLUCTUATIONS, AND POPULATION GRADIENTS IN LOW-MASS GALAXIES. <i>Astrophysical Journal</i> , 2016, 820, 131.	1.6	205
87	A stellar feedback origin for neutral hydrogen in high-redshift quasar-mass haloes. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 461, L32-L36.	1.2	89
88	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
89	The origin and evolution of the galaxy mass-metallicity relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2140-2156.	1.6	307
90	Forged in fire: cusps, cores and baryons in low-mass dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2092-2106.	1.6	291

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91	The difficulty of getting high escape fractions of ionizing photons from high-redshift galaxies: a view from the FIRE cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2015, 453, 960-975.	1.6	126
92	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
93	Neutral hydrogen in galaxy haloes at the peak of the cosmic star formation history. Monthly Notices of the Royal Astronomical Society, 2015, 449, 987-1003.	1.6	139
94	Sweating the small stuff: simulating dwarf galaxies, ultra-faint dwarf galaxies, and their own tiny satellites. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1305-1316.	1.6	124
95	Galactic r-process enrichment by neutron star mergers in cosmological simulations of a Milky Way-mass galaxy. Monthly Notices of the Royal Astronomical Society, 2015, 447, 140-148.	1.6	148
96	The creation and persistence of a misaligned gas disc in a simulated early-type galaxy. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3269-3277.	1.6	68
97	THE MOSFIRE DEEP EVOLUTION FIELD (MOSDEF) SURVEY: REST-FRAME OPTICAL SPECTROSCOPY FOR $z \sim 1.5$ $\langle i \rangle_H$ -SELECTED GALAXIES AT $1.37 \leq z \leq 3.8$. Astrophysical Journal, Supplement Series, 2015, 218, 15.	3.0	312
98	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	3.0	185
99	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
100	Submillimetre galaxies in a hierarchical universe: number counts, redshift distribution and implications for the IMF. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2529-2547.	1.6	165
101	Moving mesh cosmology: tracing cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3353-3370.	1.6	288
102	Moving-mesh cosmology: characteristics of galaxies and haloes. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2027-2048.	1.6	116
103	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
104	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
105	On the algorithms of radiative cooling in semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	1.6	9
106	The baryonic assembly of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2982-2999.	1.6	244
107	The small covering factor of cold accretion streams. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 412, L118-L122.	1.2	145
108	Ly α COOLING EMISSION FROM GALAXY FORMATION. Astrophysical Journal, 2010, 725, 633-657.	1.6	196

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109	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
110	Feedback and recycled wind accretion: assembling the $z=0$ galaxy mass function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 2325-2338.	1.6	410
111	SEEDING THE FORMATION OF COLD GASEOUS CLOUDS IN MILKY WAY-SIZE HALOS. <i>Astrophysical Journal</i> , 2009, 700, L1-L5.	1.6	135
112	Galaxies in a simulated Λ CDM Universe - I. Cold mode and hot cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 160-179.	1.6	618
113	How do galaxies get their gas?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 2-28.	1.6	1,796
114	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