

Joakim Rosdahl

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,697
citations

172457

29
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	ramses-rt: radiation hydrodynamics in the cosmological context. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2188-2231.	4.4	218
2	Extended Ly α emission from cold accretion streams... Monthly Notices of the Royal Astronomical Society, 2012, 423, 344-366.	4.4	160
3	The SPHINX Cosmological Simulations of the First Billion Years: the Impact of Binary Stars on Reionization... Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	144
4	Fluctuating feedback-regulated escape fraction of ionizing radiation in low-mass, high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 224-239.	4.4	140
5	A scheme for radiation pressure and photon diffusion with the M1 closure in ramses-rt. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4380-4403.	4.4	134
6	Feedback-regulated star formation and escape of LyC photons from mini-haloes during reionisation. Monthly Notices of the Royal Astronomical Society, 0, , stx052.	4.4	101
7	Galaxies that shine: radiation-hydrodynamical simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 451, 34-58.	4.4	95
8	A detailed study of feedback from a massive star. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3248-3264.	4.4	93
9	EDGE: the mass-metallicity relation as a critical test of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2020, 491, 1656-1672.	4.4	87
10	starbench: the D-type expansion of an H α region. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1324-1343.	4.4	80
11	Understanding the escape of LyC and Ly α photons from turbulent clouds. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2215-2237.	4.4	80
12	Quenching star formation with quasar outflows launched by trapped IR radiation. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2079-2111.	4.4	75
13	Star cluster formation in a turbulent molecular cloud self-regulated by photoionization feedback. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4155-4172.	4.4	70
14	Feedback in Clouds II: UV photoionization and the first supernova in a massive cloud. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3129-3142.	4.4	68
15	Outflows driven by quasars in high-redshift galaxies with radiation hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1854-1873.	4.4	66
16	Snap, crackle, pop: sub-grid supernova feedback in AMR simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 466, 11-33.	4.4	66
17	Driving gas shells with radiation pressure on dust in radiation-hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4197-4219.	4.4	66
18	The Low-redshift Lyman Continuum Survey. I. New, Diverse Local Lyman Continuum Emitters. Astrophysical Journal, Supplement Series, 2022, 260, 1.	7.7	62

#	ARTICLE	IF	CITATIONS
19	Probing cosmic dawn with emission lines: predicting infrared and nebular line emission for ALMA and JWST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5902-5921.	4.4	61
20	Photoionization feedback in a self-gravitating, magnetized, turbulent cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4484-4502.	4.4	59
21	The Low-redshift Lyman Continuum Survey. II. New Insights into LyC Diagnostics. <i>Astrophysical Journal</i> , 2022, 930, 126.	4.5	48
22	How to quench a dwarf galaxy: The impact of inhomogeneous reionization on dwarf galaxies and cosmic filaments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2200-2220.	4.4	47
23	On the indeterministic nature of star formation on the cloud scale. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2548-2569.	4.4	46
24	FORMATION OF GLOBULAR CLUSTERS IN ATOMIC-COOLING HALOS VIA RAPID GAS CONDENSATION AND FRAGMENTATION DURING THE EPOCH OF REIONIZATION. <i>Astrophysical Journal</i> , 2016, 823, 52.	4.5	44
25	EDGE: from quiescent to gas-rich to star-forming low-mass dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1508-1520.	4.4	44
26	The OBELISK simulation: Galaxies contribute more than AGN to $H\alpha$ reionization of protoclusters. <i>Astronomy and Astrophysics</i> , 2021, 653, A154.	5.1	37
27	Impact of Lyman alpha pressure on metal-poor dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4617-4635.	4.4	35
28	Lyman- α blobs: polarization arising from cold accretion. <i>Astronomy and Astrophysics</i> , 2016, 593, A122.	5.1	35
29	The geometry and dynamical role of stellar wind bubbles in photoionized $H\alpha$ regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1352-1369.	4.4	34
30	$\text{Ly}\alpha$ as a tracer of cosmic reionization in the SPHINX radiation-hydrodynamics cosmological simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1902-1926.	4.4	30
31	Introducing SPHINX-MHD: the impact of primordial magnetic fields on the first galaxies, reionization, and the global 21-cm signal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1254-1282.	4.4	30
32	New methods for identifying Lyman continuum leakers and reionization-epoch analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 164-180.	4.4	29
33	The nature of high $[O\text{III}]/[C\text{II}]$ $z \sim 6$ galaxies in the epoch of reionization: Low carbon abundance and a top-heavy IMF?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 5603-5622.	4.4	29
34	UV absorption lines and their potential for tracing the Lyman continuum escape fraction. <i>Astronomy and Astrophysics</i> , 2021, 646, A80.	5.1	28
35	Dual Effects of Ram Pressure on Star Formation in Multiphase Disk Galaxies with Strong Stellar Feedback. <i>Astrophysical Journal</i> , 2020, 905, 31.	4.5	25
36	A Census of the LyC photons that form the UV background during reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4986-5005.	4.4	24

#	ARTICLE	IF	CITATIONS
37	Gas flows in the circumgalactic medium around simulated high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4279-4301.	4.4	22
38	A simple model for molecular hydrogen chemistry coupled to radiation hydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3206-3226.	4.4	21
39	A new hybrid radiative transfer method for massive star formation. <i>Astronomy and Astrophysics</i> , 2020, 635, A42.	5.1	20
40	Tracing the sources of reionization in cosmological radiation hydrodynamics simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1029-1041.	4.4	19
41	Kiloparsec-scale Simulations of Star Formation in Disk Galaxies. IV. Regulation of Galactic Star Formation Rates by Stellar Feedback. <i>Astrophysical Journal</i> , 2017, 841, 82.	4.5	18
42	Radiation-magnetohydrodynamics simulations of cosmic ray feedback in disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5000-5019.	4.4	16
43	Mg II in the JWST era: a probe of Lyman continuum escape?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 4265-4286.	4.4	14
44	Cosmological magnetogenesis: the Biermann battery during the Epoch of reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2346-2359.	4.4	13
45	A Systematic Study of the Escape of LyC and Ly β Photons from Star-forming, Magnetized Turbulent Clouds. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 21.	7.7	13
46	On the origin of low escape fractions of ionizing radiation from massive star-forming galaxies at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5175-5193.	4.4	12
47	Predicting Lyman-continuum emission of galaxies using their physical and Lyman-alpha emission properties. <i>Astronomy and Astrophysics</i> , 2022, 663, A66.	5.1	12
48	The hidden satellites of massive galaxies and quasars at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5181-5186.	4.4	8
49	Second-generation star formation in globular clusters of different masses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4330-4346.	4.4	7
50	Resolution convergence in cosmological hydrodynamical simulations using adaptive mesh refinement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 983-1003.	4.4	6
51	Towards the complete census of molecular hydrogen in a simulated disc galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, , .	4.4	6