

# 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	The nature of high [O/H] $z \sim 8$ Ly $\alpha$ emitting galaxies in the epoch of reionization: Low carbon abundance and a top-heavy IMF?. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5603-5622.	4.4	29
2	A Systematic Study of the Escape of LyC and Ly $\alpha$ Photons from Star-forming, Magnetized Turbulent Clouds. Astrophysical Journal, Supplement Series, 2022, 259, 21.	7.7	13
3	Second-generation star formation in globular clusters of different masses. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4330-4346.	4.4	7
4	The Low-redshift Lyman Continuum Survey. I. New, Diverse Local Lyman Continuum Emitters. Astrophysical Journal, Supplement Series, 2022, 260, 1.	7.7	62
5	Predicting Lyman-continuum emission of galaxies using their physical and Lyman-alpha emission properties. Astronomy and Astrophysics, 2022, 663, A66.	5.1	12
6	Radiation-magnetohydrodynamics simulations of cosmic ray feedback in disc galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 513, 5000-5019.	4.4	16
7	The Low-redshift Lyman Continuum Survey. II. New Insights into LyC Diagnostics. Astrophysical Journal, 2022, 930, 126.	4.5	48
8	Mg II in the JWST era: a probe of Lyman continuum escape?. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4265-4286.	4.4	14
9	UV absorption lines and their potential for tracing the Lyman continuum escape fraction. Astronomy and Astrophysics, 2021, 646, A80.	5.1	28
10	Ly $\alpha$ as a tracer of cosmic reionization in the SPHINX radiation-hydrodynamics cosmological simulation. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1902-1926.	4.4	30
11	Cosmological magnetogenesis: the Biermann battery during the Epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2346-2359.	4.4	13
12	Introducing SPHINX-MHD: the impact of primordial magnetic fields on the first galaxies, reionization, and the global 21-cm signal. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1254-1282.	4.4	30
13	The OBELISK simulation: Galaxies contribute more than AGN to H $\alpha$ reionization of protoclusters. Astronomy and Astrophysics, 2021, 653, A154.	5.1	37
14	EDGE: from quiescent to gas-rich to star-forming low-mass dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1508-1520.	4.4	44
15	New methods for identifying Lyman continuum leakers and reionization-epoch analogues. Monthly Notices of the Royal Astronomical Society, 2020, 498, 164-180.	4.4	29
16	How to quench a dwarf galaxy: The impact of inhomogeneous reionization on dwarf galaxies and cosmic filaments. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2200-2220.	4.4	47
17	A new hybrid radiative transfer method for massive star formation. Astronomy and Astrophysics, 2020, 635, A42.	5.1	20
18	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

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19	On the origin of low escape fractions of ionizing radiation from massive star-forming galaxies at high redshift. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5175-5193.	4.4	12
20	The geometry and dynamical role of stellar wind bubbles in photoionized H&I regions. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1352-1369.	4.4	34
21	Dual Effects of Ram Pressure on Star Formation in Multiphase Disk Galaxies with Strong Stellar Feedback. Astrophysical Journal, 2020, 905, 31.	4.5	25
22	Probing cosmic dawn with emission lines: predicting infrared and nebular line emission for ALMA and JWST. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5902-5921.	4.4	61
23	The hidden satellites of massive galaxies and quasars at high redshift. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5181-5186.	4.4	8
24	Understanding the escape of LyC and Ly $\alpha$ photons from turbulent clouds. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2215-2237.	4.4	80
25	Towards the complete census of molecular hydrogen in a simulated disc galaxy. Monthly Notices of the Royal Astronomical Society, 2019, , .	4.4	6
26	Tracing the sources of reionization in cosmological radiation hydrodynamics simulations. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1029-1041.	4.4	19
27	Gas flows in the circumgalactic medium around simulated high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4279-4301.	4.4	22
28	A simple model for molecular hydrogen chemistry coupled to radiation hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3206-3226.	4.4	21
29	Resolution convergence in cosmological hydrodynamical simulations using adaptive mesh refinement. Monthly Notices of the Royal Astronomical Society, 2018, 477, 983-1003.	4.4	6
30	A Census of the LyC photons that form the UV background during reionization. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4986-5005.	4.4	24
31	On the indeterministic nature of star formation on the cloud scale. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2548-2569.	4.4	46
32	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
33	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
34	Impact of Lyman alpha pressure on metal-poor dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4617-4635.	4.4	35
35	Kiloparsec-scale Simulations of Star Formation in Disk Galaxies. IV. Regulation of Galactic Star Formation Rates by Stellar Feedback. Astrophysical Journal, 2017, 841, 82.	4.5	18
36	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

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37	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
38	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
39	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
40	FORMATION OF GLOBULAR CLUSTERS IN ATOMIC-COOLING HALOS VIA RAPID GAS CONDENSATION AND FRAGMENTATION DURING THE EPOCH OF REIONIZATION. Astrophysical Journal, 2016, 823, 52.	4.5	44
41	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
42	Lyman- $\alpha$ blobs: polarization arising from cold accretion. Astronomy and Astrophysics, 2016, 593, A122.	5.1	35
43	A detailed study of feedback from a massive star. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3248-3264.	4.4	93
44	Photoionization feedback in a self-gravitating, magnetized, turbulent cloud. Monthly Notices of the Royal Astronomical Society, 2015, 454, 4484-4502.	4.4	59
45	Galaxies that shine: radiation-hydrodynamical simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 451, 34-58.	4.4	95
46	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
47	starbench: the D-type expansion of an H $\alpha$ region. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1324-1343.	4.4	80
48	ramses-rt: radiation hydrodynamics in the cosmological context. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2188-2231.	4.4	218
49	Extended Ly $\alpha$ emission from cold accretion streams.... Monthly Notices of the Royal Astronomical Society, 2012, 423, 344-366.	4.4	160
50	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
51	The SPHINX Cosmological Simulations of the First Billion Years: the Impact of Binary Stars on Reionisation.... Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	144