Oscar Agertz

List of Publications by Year in descending order

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52 papers	3,894 citations	172457 29 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	3072 citing authors

#	Article	IF	Citations
1	EDGE: What shapes the relationship between Hâ€‰<scp>i</scp> and stellar observables in faint dwarf galaxies?. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5672-5681.	4.4	14
2	From giant clumps to clouds â€“ II. The emergence of thick disc kinematics from the conditions of star formation in high redshift gas rich galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3806-3814.	4.4	11
3	EDGE: The sensitivity of ultra-faint dwarfs to a metallicity-dependent initial mass function. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2326-2334.	4.4	10
4	From giant clumps to clouds â€“ III. The connection between star formation and turbulence in the ISM. Monthly Notices of the Royal Astronomical Society, 2022, 514, 480-496.	4.4	13
5	EDGE: the puzzling ellipticity of Eridanus IIâ€™s star cluster and its implications for dark matter at the heart of an ultra-faint dwarf. Monthly Notices of the Royal Astronomical Society, 2022, 515, 185-200.	4.4	5
6	Runaway stars masquerading as star formation in galactic outskirts. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L29-L34.	3.3	8
7	EDGE: two routes to dark matter core formation in ultra-faint dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3509-3522.	4.4	29
8	VINTERGATAN III: how to reset the metallicity of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5868-5876.	4.4	28
9	VINTERGATAN â€“ I. The origins of chemically, kinematically, and structurally distinct discs in a simulated Milky Way-mass galaxy. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5826-5845.	4.4	75
10	VINTERGATAN â€“ II. The history of the Milky Way told by its mergers. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5846-5867.	4.4	41
11	From giant clumps to clouds â€“ I. The impact of gas fraction evolution on the stability of galactic discs. Monthly Notices of the Royal Astronomical Society, 2021, 508, 352-370.	4.4	15
12	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
13	Rapid filamentary accretion as the origin of extended thin discs. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4346-4356.	4.4	23
14	How runaway stars boost galactic outflows. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3328-3341.	4.4	25
15	Constraining churning and blurring in the Milky Way using large spectroscopic surveys â€“ an exploratory study. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1419-1433.	4.4	31
16	EDGE: the massâ€“metallicity relation as a critical test of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2020, 491, 1656-1672.	4.4	87
17	From lenticulars to blue compact dwarfs: the stellar mass fraction is regulated by disc gravitational instability. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5656-5664.	4.4	20
18	EDGE: a new approach to suppressing numerical diffusion in adaptive mesh simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1755-1765.	4.4	13

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19	The nature of strong Hâ€‰i absorbers probed by cosmological simulations: satellite accretion and outflows. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3634-3645.	4.4	23
20	On the observed diversity of star formation efficiencies in Giant Molecular Clouds. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5482-5491.	4.4	30
21	A diversity of starburst-triggering mechanisms in interacting galaxies and their signatures in CO emission. Astronomy and Astrophysics, 2019, 625, A65.	5.1	28
22	Supernovae feedback propagation: the role of turbulence. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3887-3894.	4.4	19
23	EDGE: The Origin of Scatter in Ultra-faint Dwarf Stellar Masses and Surface Brightnesses. Astrophysical Journal Letters, 2019, 886, L3.	8.3	47
24	Physical properties and scaling relations of molecular clouds: the effect of stellar feedback. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3167-3180.	4.4	35
25	Globular cluster formation and evolution in the context of cosmological galaxy assembly: open questions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170616.	2.1	102
26	Observing the circumgalactic medium of simulated galaxies through synthetic absorption spectra. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1822-1835.	4.4	17
27	Concurrent formation of supermassive stars and globular clusters: implications for early self-enrichment. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2461-2479.	4.4	134
28	The impact of stellar feedback on the density and velocity structure of the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1093-1110.	4.4	57
29	The origin of the Milky Way globular clusters. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3622-3636.	4.4	85
30	The roles of stellar feedback and galactic environment in star-forming molecular clouds. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3536-3551.	4.4	34
31	THE IMPACT OF STELLAR FEEDBACK ON THE STRUCTURE, SIZE, AND MORPHOLOGY OF GALAXIES IN MILKY-WAY-SIZED DARK MATTER HALOS. Astrophysical Journal, 2016, 824, 79.	4.5	96
32	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. Astrophysical Journal, 2016, 833, 202.	4.5	88
33	Novel Adaptive softening for collisionlessN-body simulations: eliminating spurious haloes. Monthly Notices of the Royal Astronomical Society, 2016, 458, 468-479.	4.4	19
34	Column density profiles of multiphase gaseous haloes. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1164-1187.	4.4	58
35	Galaxies that shine: radiation-hydrodynamical simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 451, 34-58.	4.4	95
36	Characterizing gravitational instability in turbulent multicomponent galactic discs. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2156-2166.	4.4	41

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37	ON THE INTERPLAY BETWEEN STAR FORMATION AND FEEDBACK IN GALAXY FORMATION SIMULATIONS. Astrophysical Journal, 2015, 804, 18.	4.5	180
38	Larson's scaling laws, and the gravitational instability of clumpy discs at high redshift. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1230-1238.	4.4	37
39	A systematic look at the effects of radiative feedback on disc galaxy formation. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2837-2853.	4.4	69
40	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	7.7	185
41	The Smith Cloud and its dark matter halo: survival of a Galactic disc passage. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2883-2891.	4.4	28
42	TOWARD A COMPLETE ACCOUNTING OF ENERGY AND MOMENTUM FROM STELLAR FEEDBACK IN GALAXY FORMATION SIMULATIONS. Astrophysical Journal, 2013, 770, 25.	4.5	371
43	SIMULATIONS OF DISK GALAXIES WITH COSMIC RAY DRIVEN GALACTIC WINDS. Astrophysical Journal Letters, 2013, 777, L16.	8.3	165
44	The formation of disc galaxies in a Î›CDM universe. Monthly Notices of the Royal Astronomical Society, 2011, 410, 1391-1408.	4.4	234
45	A Toomre-like stability criterion for the clumpy and turbulent interstellar medium. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1223-1230.	4.4	57
46	Systematic uncertainties in the determination of the local dark matter density. Physical Review D, 2010, 82, .	4.7	89
47	Large-scale galactic turbulence: can self-gravity drive the observed Hâ€ƒi velocity dispersions?. Monthly Notices of the Royal Astronomical Society, 2009, 392, 294-308.	4.4	112
48	Disc formation and the origin of clumpy galaxies at high redshift. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 397, L64-L68.	3.3	167
49	Discreteness Effects in Î›CDM Simulations: A Waveletâ€Statistical View. Astrophysical Journal, 2008, 686, 1-12.	4.5	47
50	An Alternative to Grids and Glasses: Quaquaversal Preâ€Initial Conditions forNâ€Body Simulations. Astrophysical Journal, 2007, 656, 631-635.	4.5	21
51	The Source of Ionization along the Magellanic Stream. Astrophysical Journal, 2007, 670, L109-L112.	4.5	107
52	Fundamental differences between SPH and grid methods. Monthly Notices of the Royal Astronomical Society, 0, 380, 963-978.	4.4	525