

Andrew Wetzel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	4,139 citations	33 h-index	63 g-index
104 ext. papers	5,419 ext. citations	4.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
92	FIRE-2 simulations: physics versus numerics in galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 800-863	4.3	413
91	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	7.9	323
90	MERGERS AND BULGE FORMATION IN Λ CDM: WHICH MERGERS MATTER?. <i>Astrophysical Journal</i> , 2010 , 715, 202-229	4.7	299
89	Not so lumpy after all: modelling the depletion of dark matter subhaloes by Milky Way-like galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 471, 1709-1727	4.3	173
88	MERGERS IN Λ CDM: UNCERTAINTIES IN THEORETICAL PREDICTIONS AND INTERPRETATIONS OF THE MERGER RATE. <i>Astrophysical Journal</i> , 2010 , 724, 915-945	4.7	161
87	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	4.7	156
86	fire in the field: simulating the threshold of galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 471, 3547-3562	4.3	122
85	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	4.3	120
84	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	4.3	101
83	GaiaReveals a Metal-rich, in situ Component of the Local Stellar Halo. <i>Astrophysical Journal</i> , 2017 , 845, 101	4.7	99
82	Gas kinematics, morphology and angular momentum in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 1930-1955	4.3	94
81	SATELLITE DWARF GALAXIES IN A HIERARCHICAL UNIVERSE: INFALL HISTORIES, GROUP PREPROCESSING, AND REIONIZATION. <i>Astrophysical Journal</i> , 2015 , 807, 49	4.7	89
80	How to model supernovae in simulations of star and galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 1578-1603	4.3	88
79	The origin of ultra diffuse galaxies: stellar feedback and quenching. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 906-925	4.3	85
78	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	4.3	83
77	The origins of the circumgalactic medium in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 1248-1272	4.3	80
76	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: the low-redshift sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 429, 98-112	4.3	78

75	Modelling chemical abundance distributions for dwarf galaxies in the Local Group: the impact of turbulent metal diffusion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 2194-2211	4.3	72
74	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	4.3	71
73	SATELLITE DWARF GALAXIES IN A HIERARCHICAL UNIVERSE: THE PREVALENCE OF DWARF-DWARF MAJOR MERGERS. <i>Astrophysical Journal</i> , 2014 , 794, 115	4.7	68
72	Where are the most ancient stars in the Milky Way?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 652-668	4.3	63
71	The origin of the diverse morphologies and kinematics of Milky Way-mass galaxies in the FIRE-2 simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 4133-4157	4.3	62
70	Formation of globular cluster candidates in merging proto-galaxies at high redshift: a view from the FIRE cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 4232-4244	4.3	62
69	Synthetic Gaia Surveys from the FIRE Cosmological Simulations of Milky Way-mass Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 6	8	43
68	Star formation histories of dwarf galaxies in the FIRE simulations: dependence on mass and Local Group environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 489, 4574-4588	4.3	42
67	Predicting the binary black hole population of the Milky Way with cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 2704-2718	4.3	42
66	A profile in FIRE: resolving the radial distributions of satellite galaxies in the Local Group with simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 1471-1490	4.3	41
65	THE PHYSICAL NATURE OF THE COSMIC ACCRETION OF BARYONS AND DARK MATTER INTO HALOS AND THEIR GALAXIES. <i>Astrophysical Journal</i> , 2015 , 808, 40	4.7	40
64	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	4.3	35
63	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	4.3	34
62	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	4.3	34
61	No assembly required: mergers are mostly irrelevant for the growth of low-mass dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 319-331	4.3	34
60	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	4.3	33
59	Radiative stellar feedback in galaxy formation: Methods and physics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 3702-3729	4.3	31
58	Modeling the Impact of Baryons on Subhalo Populations with Machine Learning. <i>Astrophysical Journal</i> , 2018 , 859, 129	4.7	31

57	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	4.7	29
56	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	4.3	29
55	Halo histories versus galaxy properties at $z \sim 0$ II: large-scale galactic conformity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 935-945	4.3	28
54	Reconciling Observed and Simulated Stellar Halo Masses. <i>Astrophysical Journal</i> , 2018 , 869, 12	4.7	27
53	The fates of the circumgalactic medium in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 3581-3595	4.3	26
52	Gemini Observations of Galaxies in Rich Early Environments (GOGREEN) I: survey description. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 4168-4185	4.3	26
51	AGN All the Way Down? AGN-like Line Ratios Are Common in the Lowest-mass Isolated Quiescent Galaxies. <i>Astrophysical Journal</i> , 2019 , 884, 180	4.7	25
50	What drives the evolution of gas kinematics in star-forming galaxies?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 5125-5137	4.3	24
49	Warm FIRE: simulating galaxy formation with resonant sterile neutrino dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 483, 4086-4099	4.3	24
48	Dark and luminous satellites of LMC-mass galaxies in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 489, 5348-5364	4.3	24
47	The formation times and building blocks of Milky Way-mass galaxies in the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 747-764	4.3	24
46	Gas kinematics in FIRE simulated galaxies compared to spatially unresolved HI observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 1536-1548	4.3	23
45	Evolution of giant molecular clouds across cosmic time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 488-502	4.3	21
44	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	4.7	21
43	Under the FIRElight: Stellar Tracers of the Local Dark Matter Velocity Distribution in the Milky Way. <i>Astrophysical Journal</i> , 2019 , 883, 27	4.7	21
42	Evidence for a vast prograde stellar stream in the solar vicinity. <i>Nature Astronomy</i> , 2020 , 4, 1078-1083	12.1	20
41	Star Formation Quenching Timescale of Central Galaxies in a Hierarchical Universe. <i>Astrophysical Journal</i> , 2017 , 841, 6	4.7	19
40	Formation, vertex deviation, and age of the Milky Way's bulge: input from a cosmological simulation with a late-forming bar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 5073-5083	4.3	18

39	The Importance of Preventive Feedback: Inference from Observations of the Stellar Masses and Metallicities of Milky Way Dwarf Galaxies. <i>Astrophysical Journal</i> , 2017 , 846, 66	4.7	17
38	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	4.3	17
37	Live fast, die young: GMC lifetimes in the FIRE cosmological simulations of Milky Way mass galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 3993-3999	4.3	15
36	Pressure balance in the multiphase ISM of cosmologically simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 3664-3683	4.3	15
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	4.3	14
34	The OSIRIS Lens-amplified Survey (OLAS). I. Dynamical Effects of Stellar Feedback in Low-mass Galaxies at $z \sim 2$. <i>Astrophysical Journal</i> , 2019 , 880, 54	4.7	13
33	A predicted correlation between age gradient and star formation history in FIRE dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 1186-1201	4.3	12
32	Star formation at the edge of the Local Group: a rising star formation history in the isolated galaxy WLM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 5538-5550	4.3	12
31	The time-scales probed by star formation rate indicators for realistic, bursty star formation histories from the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 4812-4824	4.3	12
30	Dynamical heating of the X-ray emitting intracluster medium: the roles of merger shocks and turbulence dissipation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 784-795	4.3	10
29	A relationship between stellar metallicity gradients and galaxy age in dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 5121-5134	4.3	10
28	The Orbit and Origin of the Ultra-faint Dwarf Galaxy Segue 1. <i>Astrophysical Journal</i> , 2018 , 860, 164	4.7	10
27	HALO7D II: The Halo Velocity Ellipsoid and Velocity Anisotropy with Distant Main-sequence Stars. <i>Astrophysical Journal</i> , 2019 , 879, 120	4.7	9
26	Kinematics of Cluster Galaxies and Their Relation to Galaxy Evolution. <i>Astrophysical Journal</i> , 2019 , 878, 9	4.7	9
25	Cataloging accreted stars within GaiaDR2 using deep learning. <i>Astronomy and Astrophysics</i> , 2020 , 636, A75	5.1	9
24	Planes of satellites around Milky Way/M31-mass galaxies in the FIRE simulations and comparisons with the Local Group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 1379-1397	4.3	9
23	Variations in the slope of the resolved star-forming main sequence: a tool for constraining the mass of star-forming regions. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020 , 493, L87-L91	4.3	8
22	Thermal instability in the CGM of L [*] galaxies: testing precipitation models with the FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 1841-1862	4.3	8

21	Dissipative dark matter on FIRE II. Structural and kinematic properties of dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 4421-4445	4.3	8
20	3D gas-phase elemental abundances across the formation histories of Milky Way-mass galaxies in the FIRE simulations: initial conditions for chemical tagging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 4586-4607	4.3	7
19	Gas infall and radial transport in cosmological simulations of milky way-mass disks. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	6
18	The bursty origin of the Milky Way thick disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 889-902	4.3	6
17	The central densities of Milky Way-mass galaxies in cold and self-interacting dark matter models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 720-729	4.3	6
16	Using action space clustering to constrain the recent accretion history of milky way like galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	5
15	Star Formation Histories of Ultra-faint Dwarf Galaxies: Environmental Differences between Magellanic and Non-Magellanic Satellites?*. <i>Astrophysical Journal Letters</i> , 2021 , 920, L19	7.9	5
14	Effects of Stellar Feedback on Stellar and Gas Kinematics of Star-forming Galaxies at 0.6. <i>Astrophysical Journal Letters</i> , 2020 , 896, L26	7.9	4
13	Galaxies lacking dark matter produced by close encounters in a cosmological simulation. <i>Nature Astronomy</i> ,	12.1	4
12	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	4.3	3
11	New Families in our Solar Neighborhood: Applying Gaussian Mixture Models for Objective Classification of Structures in the Milky Way and in Simulations. <i>Astrophysical Journal</i> , 2021 , 921, 106	4.7	3
10	The contribution of globular clusters to cosmic reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 4062-4071	4.3	3
9	The origin of metal-poor stars on prograde disc orbits in FIRE simulations of Milky Way-mass galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 921-938	4.3	3
8	Fiery Cores: Bursty and Smooth Star Formation Distributions across Galaxy Centers in Cosmological Zoom-in Simulations. <i>Astrophysical Journal Letters</i> , 2021 , 908, L31	7.9	3
7	Better Galactic Mass Models through Chemistry. <i>Galaxies</i> , 2017 , 5, 43	2	2
6	Galactic Mass Estimates Using Dwarf Galaxies as Kinematic Tracers. <i>Astrophysical Journal</i> , 2022 , 924, 131	4.7	2
5	Neutral CGM as damped Ly α absorbers at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 2869-2884	4.3	2
4	The galaxy halo size relation of low-mass galaxies in FIRE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 3967-3985	4.3	1

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| 3 | Progenitor-mass-dependent yields amplify intrinsic scatter in dwarf-galaxy elemental abundance ratios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 508-515 | 4.3 | ○ |
| 2 | Amplified J-factors in the Galactic Centre for velocity-dependent dark matter annihilation in FIRE simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 513, 55-70 | 4.3 | ○ |
| 1 | Gaseous Halos of Simulated Milky Way-like Galaxies. <i>Research Notes of the AAS</i> , 2022 , 6, 16 | 0.8 | |