

Brian O'Shea

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,885
citations

236925

25
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243625

44
g-index

49
all docs

49
docs citations

49
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing Star Formation Feedback Mechanisms in Cosmological Simulations. Research Notes of the AAS, 2022, 6, 38.	0.7	0
2	Atmospheric Circulation in Simulations of the AGN–CGM Connection at Halo Masses $\sim 10^{13.5} M_{\odot}$. Astrophysical Journal, 2022, 932, 18.	4.5	2
3	K-Athena: A Performance Portable Structured Grid Finite Volume Magnetohydrodynamics Code. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 85-97.	5.6	23
4	External Enrichment of Mini Halos by the First Supernovae. Astrophysical Journal, 2021, 909, 70.	4.5	10
5	As a Matter of Tension: Kinetic Energy Spectra in MHD Turbulence. Astrophysical Journal, 2021, 909, 148.	4.5	17
6	Magnetized decaying turbulence in the weakly compressible Taylor-Green vortex. Physical Review E, 2021, 103, 043203.	2.1	0
7	Some First Stars Were Red: Detecting Signatures of Massive Population III Formation through Long-term Stochastic Color Variations. Astrophysical Journal Letters, 2021, 920, L22.	8.3	7
8	Figuring Out Gas & Galaxies In Enzo (FOGGIE). V. The Virial Temperature Does Not Describe Gas in a Virialized Galaxy Halo. Astrophysical Journal, 2021, 922, 121.	4.5	10
9	As a Matter of State: The Role of Thermodynamics in Magnetohydrodynamic Turbulence. Astrophysical Journal, 2020, 889, 19.	4.5	9
10	Figuring Out Gas & Galaxies in Enzo (FOGGIE). II. Emission from the $z \sim 3$ Circumgalactic Medium. Astrophysical Journal, 2020, 896, 125.	4.5	32
11	Figuring Out Gas & Galaxies in Enzo (FOGGIE). III. The Mocky Way: Investigating Biases in Observing the Milky Way's Circumgalactic Medium. Astrophysical Journal, 2020, 896, 143.	4.5	16
12	A Black Hole Feedback Valve in Massive Galaxies. Astrophysical Journal, 2020, 899, 70.	4.5	22
13	Figuring Out Gas & Galaxies in Enzo (FOGGIE). IV. The Stochasticity of Ram Pressure Stripping in Galactic Halos. Astrophysical Journal, 2020, 905, 167.	4.5	24
14	Halo Environment for Population III Star Formation. Research Notes of the AAS, 2020, 4, 93.	0.7	0
15	Tests of AGN Feedback Kernels in Simulated Galaxy Clusters. Astrophysical Journal, 2020, 901, 117.	4.5	1
16	Environmental Dependence of Self-regulating Black Hole Feedback in Massive Galaxies. Astrophysical Journal, 2020, 905, 50.	4.5	13
17	The Impact of Enhanced Halo Resolution on the Simulated Circumgalactic Medium. Astrophysical Journal, 2019, 882, 156.	4.5	128
18	Circumgalactic Pressure Profiles Indicate Precipitation-limited Atmospheres for $M < 10^{10.9} M_{\odot}$ and $10^{11.5} M_{\odot} < M < 10^{12.5} M_{\odot}$. Astrophysical Journal Letters, 2019, 879, L1.	4.5	29

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19	Formation of massive black holes in rapidly growing pre-galactic gas clouds. <i>Nature</i> , 2019, 566, 85-88.	27.8	122
20	Figuring Out Gas & Galaxies in Enzo (FOGGIE). I. Resolving Simulated Circumgalactic Absorption at $z=2.5$. <i>Astrophysical Journal</i> , 2019, 873, 129.	4.5	166
21	The Origin of r-process Enhanced Metal-poor Halo Stars In Now-destroyed Ultra-faint Dwarf Galaxies. <i>Astrophysical Journal</i> , 2019, 871, 247.	4.5	32
22	Correlations and Cascades in Magnetized Turbulence. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2020-2031.	1.3	1
23	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). <i>Journal of Open Source Software</i> , 2019, 4, 1636.	4.6	44
24	Metal Mixing and Ejection in Dwarf Galaxies Are Dependent on Nucleosynthetic Source. <i>Astrophysical Journal</i> , 2018, 869, 94.	4.5	31
25	Validating Semi-analytic Models of High-redshift Galaxy Formation Using Radiation Hydrodynamical Simulations. <i>Astrophysical Journal</i> , 2018, 859, 67.	4.5	32
26	As a Matter of Force—Systematic Biases in Idealized Turbulence Simulations. <i>Astrophysical Journal Letters</i> , 2018, 858, L19.	8.3	10
27	Advanced LIGO Constraints on Neutron Star Mergers and r-process Sites. <i>Astrophysical Journal</i> , 2017, 836, 230.	4.5	71
28	Energy transfer in compressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2017, 24, 092311.	1.9	49
29	The Second Data Release of the KODIAQ Survey. <i>Astronomical Journal</i> , 2017, 154, 114.	4.7	44
30	A Global Model for Circumgalactic and Cluster-core Precipitation. <i>Astrophysical Journal</i> , 2017, 845, 80.	4.5	149
31	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2217-2234.	4.4	201
32	First light: exploring the spectra of high-redshift galaxies in the Renaissance Simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4863-4878.	4.4	31
33	The Impact of Modeling Assumptions in Galactic Chemical Evolution Models. <i>Astrophysical Journal</i> , 2017, 835, 128.	4.5	70
34	Triggering and Delivery Algorithms for AGN Feedback. <i>Astrophysical Journal</i> , 2017, 841, 133.	4.5	48
35	GALAXY PROPERTIES AND UV ESCAPE FRACTIONS DURING THE EPOCH OF REIONIZATION: RESULTS FROM THE RENAISSANCE SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 833, 84.	4.5	155
36	X-RAY BACKGROUND AT HIGH REDSHIFTS FROM POP III REMNANTS: RESULTS FROM POP III STAR FORMATION RATES IN THE RENAISSANCE SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2016, 832, L5.	8.3	21

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37	Mass and metallicity requirement in stellar models for galactic chemical evolution applications. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3755-3767.	4.4	26
38	PRECIPITATION-REGULATED STAR FORMATION IN GALAXIES. Astrophysical Journal Letters, 2015, 808, L30.	8.3	70
39	COOLING, AGN FEEDBACK, AND STAR FORMATION IN SIMULATED COOL-CORE GALAXY CLUSTERS. Astrophysical Journal, 2015, 811, 73.	4.5	146
40	SUPERNOVA SWEEPING AND BLACK HOLE FEEDBACK IN ELLIPTICAL GALAXIES. Astrophysical Journal Letters, 2015, 803, L21.	8.3	56
41	The first Population II stars formed in externally enriched mini-haloes. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2822-2836.	4.4	117
42	PROBING THE ULTRAVIOLET LUMINOSITY FUNCTION OF THE EARLIEST GALAXIES WITH THE RENAISSANCE SIMULATIONS. Astrophysical Journal Letters, 2015, 807, L12.	8.3	144
43	GROWTH AND EVOLUTION OF THERMAL INSTABILITIES IN IDEALIZED GALAXY CLUSTER CORES. Astrophysical Journal, 2015, 808, 43.	4.5	40
44	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. Astrophysical Journal, Supplement Series, 2014, 211, 19.	7.7	615
45	DISSECTING GALAXY FORMATION MODELS WITH SENSITIVITY ANALYSIS—A NEW APPROACH TO CONSTRAIN THE MILKY WAY FORMATION HISTORY. Astrophysical Journal, 2014, 787, 20.	4.5	18
46	From $F = ma$ to Flying Squirrels: Curricular Change in an Introductory Physics Course. CBE Life Sciences Education, 2013, 12, 230-238.	2.3	17
47	COSMOLOGICAL SIMULATIONS OF ISOTROPIC CONDUCTION IN GALAXY CLUSTERS. Astrophysical Journal, 2013, 778, 152.	4.5	16
48	The formation of the first second generation star. , 2012, , .		0