

Brian O'Shea

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3729573/publications.pdf>

Version: 2024-02-01

48
papers

2,885
citations

236925

25
h-index

243625

44
g-index

49
all docs

49
docs citations

49
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 19.	7.7	615
2	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2217-2234.	4.4	201
3	Figuring Out Gas & Galaxies in Enzo (FOGGIE). I. Resolving Simulated Circumgalactic Absorption at $2\text{Å} \leq \lambda \leq 2.5\text{Å}$. <i>Astrophysical Journal</i> , 2019, 873, 129.	4.5	166
4	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
5	A Global Model for Circumgalactic and Cluster-core Precipitation. <i>Astrophysical Journal</i> , 2017, 845, 80.	4.5	149
6	COOLING, AGN FEEDBACK, AND STAR FORMATION IN SIMULATED COOL-CORE GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2015, 811, 73.	4.5	146
7	PROBING THE ULTRAVIOLET LUMINOSITY FUNCTION OF THE EARLIEST GALAXIES WITH THE RENAISSANCE SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2015, 807, L12.	8.3	144
8	The Impact of Enhanced Halo Resolution on the Simulated Circumgalactic Medium. <i>Astrophysical Journal</i> , 2019, 882, 156.	4.5	128
9	Formation of massive black holes in rapidly growing pre-galactic gas clouds. <i>Nature</i> , 2019, 566, 85-88.	27.8	122
10	The first Population II stars formed in externally enriched mini-haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2822-2836.	4.4	117
11	Advanced LIGO Constraints on Neutron Star Mergers and r-process Sites. <i>Astrophysical Journal</i> , 2017, 836, 230.	4.5	71
12	PRECIPITATION-REGULATED STAR FORMATION IN GALAXIES. <i>Astrophysical Journal Letters</i> , 2015, 808, L30.	8.3	70
13	The Impact of Modeling Assumptions in Galactic Chemical Evolution Models. <i>Astrophysical Journal</i> , 2017, 835, 128.	4.5	70
14	SUPERNOVA SWEEPING AND BLACK HOLE FEEDBACK IN ELLIPTICAL GALAXIES. <i>Astrophysical Journal Letters</i> , 2015, 803, L21.	8.3	56
15	Energy transfer in compressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2017, 24, 092311.	1.9	49
16	Triggering and Delivery Algorithms for AGN Feedback. <i>Astrophysical Journal</i> , 2017, 841, 133.	4.5	48
17	The Second Data Release of the KODIAQ Survey. <i>Astronomical Journal</i> , 2017, 154, 114.	4.7	44
18	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). <i>Journal of Open Source Software</i> , 2019, 4, 1636.	4.6	44

#	ARTICLE	IF	CITATIONS
19	GROWTH AND EVOLUTION OF THERMAL INSTABILITIES IN IDEALIZED GALAXY CLUSTER CORES. <i>Astrophysical Journal</i> , 2015, 808, 43.	4.5	40
20	Validating Semi-analytic Models of High-redshift Galaxy Formation Using Radiation Hydrodynamical Simulations. <i>Astrophysical Journal</i> , 2018, 859, 67.	4.5	32
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	Figuring Out Gas & Galaxies in Enzo (FOGGIE). II. Emission from the z=3 Circumgalactic Medium. <i>Astrophysical Journal</i> , 2020, 896, 125.	4.5	32
23	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
24	Metal Mixing and Ejection in Dwarf Galaxies Are Dependent on Nucleosynthetic Source. <i>Astrophysical Journal</i> , 2018, 869, 94.	4.5	31
25	Circumgalactic Pressure Profiles Indicate Precipitation-limited Atmospheres for $M < 10^{10} M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2019, 879, L1.	4.5	29
26	Mass and metallicity requirement in stellar models for galactic chemical evolution applications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3755-3767.	4.4	26
27	Figuring Out Gas & Galaxies in Enzo (FOGGIE). IV. The Stochasticity of Ram Pressure Stripping in Galactic Halos. <i>Astrophysical Journal</i> , 2020, 905, 167.	4.5	24
28	K-Athena: A Performance Portable Structured Grid Finite Volume Magnetohydrodynamics Code. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021, 32, 85-97.	5.6	23
29	A Black Hole Feedback Valve in Massive Galaxies. <i>Astrophysical Journal</i> , 2020, 899, 70.	4.5	22
30	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
31	DISSECTING GALAXY FORMATION MODELS WITH SENSITIVITY ANALYSIS: A NEW APPROACH TO CONSTRAIN THE MILKY WAY FORMATION HISTORY. <i>Astrophysical Journal</i> , 2014, 787, 20.	4.5	18
32	From $F = ma$ to Flying Squirrels: Curricular Change in an Introductory Physics Course. <i>CBE Life Sciences Education</i> , 2013, 12, 230-238.	2.3	17
33	As a Matter of Tension: Kinetic Energy Spectra in MHD Turbulence. <i>Astrophysical Journal</i> , 2021, 909, 148.	4.5	17
34	COSMOLOGICAL SIMULATIONS OF ISOTROPIC CONDUCTION IN GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2013, 778, 152.	4.5	16
35	Figuring Out Gas & Galaxies in Enzo (FOGGIE). III. The Mocky Way: Investigating Biases in Observing the Milky Way's Circumgalactic Medium. <i>Astrophysical Journal</i> , 2020, 896, 143.	4.5	16
36	Environmental Dependence of Self-regulating Black Hole Feedback in Massive Galaxies. <i>Astrophysical Journal</i> , 2020, 905, 50.	4.5	13

#	ARTICLE	IF	CITATIONS
37	As a Matter of Forceâ€™ Systematic Biases in Idealized Turbulence Simulations. <i>Astrophysical Journal Letters</i> , 2018, 858, L19.	8.3	10
38	External Enrichment of Mini Halos by the First Supernovae. <i>Astrophysical Journal</i> , 2021, 909, 70.	4.5	10
39	Figuring Out Gas & Galaxies In Enzo (FOGGIE). V. The Virial Temperature Does Not Describe Gas in a Virialized Galaxy Halo. <i>Astrophysical Journal</i> , 2021, 922, 121.	4.5	10
40	As a Matter of State: The Role of Thermodynamics in Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2020, 889, 19.	4.5	9
41	Some First Stars Were Red: Detecting Signatures of Massive Population III Formation through Long-term Stochastic Color Variations. <i>Astrophysical Journal Letters</i> , 2021, 920, L22.	8.3	7
42	Atmospheric Circulation in Simulations of the AGNâ€™CGM Connection at Halo Masses $\sim 10^{13.5} M_{\odot}$. <i>Astrophysical Journal</i> , 2022, 932, 18.	4.5	2
43	Correlations and Cascades in Magnetized Turbulence. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2020-2031.	1.3	1
44	Tests of AGN Feedback Kernels in Simulated Galaxy Clusters. <i>Astrophysical Journal</i> , 2020, 901, 117.	4.5	1
45	The formation of the first second generation star. , 2012, , .		0
46	Magnetized decaying turbulence in the weakly compressible Taylor-Green vortex. <i>Physical Review E</i> , 2021, 103, 043203.	2.1	0
47	Halo Environment for Population III Star Formation. <i>Research Notes of the AAS</i> , 2020, 4, 93.	0.7	0
48	Analyzing Star Formation Feedback Mechanisms in Cosmological Simulations. <i>Research Notes of the AAS</i> , 2022, 6, 38.	0.7	0