Britton D Smith

List of Publications by Year
in descending order

62 papers	6,070 citations	147566 31 h-index	143772 57 g-index
62 all docs	62 docs citations	62 times ranked	4358 citing authors

#	Article	IF	Citations
1	yt: A MULTI-CODE ANALYSIS TOOLKIT FOR ASTROPHYSICAL SIMULATION DATA. Astrophysical Journal, Supplement Series, 2011, 192, 9.	3.0	959
2	The effect of photoionization on the cooling rates of enriched, astrophysical plasmas. Monthly Notices of the Royal Astronomical Society, 2009, 393, 99-107.	1.6	753
3	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. Astrophysical Journal, Supplement Series, 2014, 211, 19.	3.0	615
4	THE BARYON CENSUS IN A MULTIPHASE INTERGALACTIC MEDIUM: 30% OF THE BARYONS MAY STILL BE MISSING. Astrophysical Journal, 2012, 759, 23.	1.6	361
5	The birth of a galaxy â€“ III. Propelling reionization with the faintest galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2560-2579.	1.6	321
6	grackle: a chemistry and cooling library for astrophysics. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2217-2234.	1.6	201
7	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	3.0	185
8	Figuring Out Gas & Galaxies in Enzo (FOGGIE). I. Resolving Simulated Circumgalactic Absorption at 2Ââ‰ÀzÂâ‰Â2.5. Astrophysical Journal, 2019, 873, 129.	1.6	166
9	The birth of a galaxy â€“ II. The role of radiation pressure. Monthly Notices of the Royal Astronomical Society, 2012, 427, 311-326.	1.6	147
10	AN HST/COS SURVEY OF THE LOW-REDSHIFT INTERGALACTIC MEDIUM. I. SURVEY, METHODOLOGY, AND OVERALL RESULTS*. Astrophysical Journal, 2016, 817, 111.	1.6	136
11	CRITICAL STAR FORMATION RATES FOR REIONIZATION: FULL REIONIZATION OCCURS AT REDSHIFTzâ‰ˆ7. Astrophysical Journal, 2012, 747, 100.	1.6	133
12	The Impact of Enhanced Halo Resolution on the Simulated Circumgalactic Medium. Astrophysical Journal, 2019, 882, 156.	1.6	128
13	THREE MODES OF METAL-ENRICHED STAR FORMATION IN THE EARLY UNIVERSE. Astrophysical Journal, 2009, 691, 441-451.	1.6	126
14	The first Population II stars formed in externally enriched mini-haloes. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2822-2836.	1.6	117
15	Constraints on hydrodynamical subgrid models from quasar absorption line studies of the simulated circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1548-1565.	1.6	114
16	THE NATURE OF THE WARM/HOT INTERGALACTIC MEDIUM. I. NUMERICAL METHODS, CONVERGENCE, AND O VI ABSORPTION. Astrophysical Journal, 2011, 731, 6.	1.6	113
17	Metal cooling in simulations of cosmic structure formation. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1443-1454.	1.6	107
18	DWARF GALAXY FORMATION WITH H₂-REGULATED STAR FORMATION. Astrophysical Journal, 2012, 749, 36.	1.6	105

#	Article	IF	Citations
19	NUMERICAL SIMULATIONS OF SUPERNOVA DUST DESTRUCTION. I. CLOUD-CRUSHING AND POST-PROCESSED GRAIN SPUTTERING. Astrophysical Journal, 2010, 715, 1575-1590.	1.6	98
20	HST/COS OBSERVATIONS OF THE QUASAR HE 2347â€“4342: PROBING THE EPOCH OF He II PATCHY REIONIZATION AT REDSHIFTSz= 2.4-2.9. Astrophysical Journal, 2010, 722, 1312-1324.	1.6	95
21	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. Astrophysical Journal, 2016, 833, 202.	1.6	88
22	The Transition from the First Stars to the Second Stars in the Early Universe. Astrophysical Journal, 2007, 661, L5-L8.	1.6	68
23	The effect of feedback and reionization on star formation in low-mass dwarf galaxy haloes. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1989-2011.	1.6	68
24	Modeling of Emission Signatures of Massive Black Hole Binaries. I. Methods. Astrophysical Journal, Supplement Series, 2008, 174, 455-480.	3.0	63
25	New constraints on direct collapse black hole formation in the early Universe. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4209-4217.	1.6	63
26	The growth of black holes from Population III remnants in the Renaissance simulations. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3762-3773.	1.6	62
27	GALAXY CLUSTER RADIO RELICS IN ADAPTIVE MESH REFINEMENT COSMOLOGICAL SIMULATIONS: RELIC PROPERTIES AND SCALING RELATIONSHIPS. Astrophysical Journal, 2011, 735, 96.	1.6	61
28	NUMERICAL SIMULATIONS OF SUPERNOVA DUST DESTRUCTION. II. METAL-ENRICHED EJECTA KNOTS. Astrophysical Journal, 2012, 748, 12.	1.6	61
29	Trident: A Universal Tool for Generating Synthetic Absorption Spectra from Astrophysical Simulations. Astrophysical Journal, 2017, 847, 59.	1.6	61
30	HOW WELL DO COSMOLOGICAL SIMULATIONS REPRODUCE INDIVIDUAL HALO PROPERTIES?. Astrophysical Journal, 2010, 711, 1198-1207.	1.6	46
31	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). Journal of Open Source Software, 2019, 4, 1636.	2.0	44
32	Is authorship sufficient for todayâ€™s collaborative research? A call for contributor roles. Accountability in Research, 2021, 28, 23-43.	1.6	40
33	Validating Semi-analytic Models of High-redshift Galaxy Formation Using Radiation Hydrodynamical Simulations. Astrophysical Journal, 2018, 859, 67.	1.6	32
34	Figuring Out Gas & Galaxies in Enzo (FOGGIE). II. Emission from the zÂ=Â3 Circumgalactic Medium. Astrophysical Journal, 2020, 896, 125.	1.6	32
35	POPULATION III STAR FORMATION IN LARGE COSMOLOGICAL VOLUMES. I. HALO TEMPORAL AND PHYSICAL ENVIRONMENT. Astrophysical Journal, 2013, 773, 108.	1.6	28
36	The low-redshift circumgalactic medium in <scp>simba</scp>. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2383-2404.	1.6	24

#	Article	IF	Citations
37	Figuring Out Gas & Galaxies in Enzo (FOGGIE). IV. The Stochasticity of Ram Pressure Stripping in Galactic Halos. Astrophysical Journal, 2020, 905, 167.	1.6	24
38	FRAGMENTATION IN DUSTY LOW-METALLICITY STAR-FORMING HALOS. Astrophysical Journal, 2014, 783, 75.	1.6	19
39	He II Lyî² GUNN-PETERSON ABSORPTION: NEWHSTOBSERVATIONS AND THEORETICAL EXPECTATIONS. Astrophysical Journal, 2011, 742, 99.	1.6	18
40	ON THE ROAD TO MORE REALISTIC GALAXY CLUSTER SIMULATIONS: THE EFFECTS OF RADIATIVE COOLING AND THERMAL FEEDBACK PRESCRIPTIONS ON THE OBSERVATIONAL PROPERTIES OF SIMULATED GALAXY CLUSTERS. Astrophysical Journal, 2013, 763, 38.	1.6	18
41	COSMOLOGICAL SIMULATIONS OF ISOTROPIC CONDUCTION IN GALAXY CLUSTERS. Astrophysical Journal, 2013, 778, 152.	1.6	16
42	Figuring Out Gas & Galaxies in Enzo (FOGGIE). III. The Mocky Way: Investigating Biases in Observing the Milky Wayâ€™s Circumgalactic Medium. Astrophysical Journal, 2020, 896, 143.	1.6	16
43	THE SANTA FE LIGHT CONE SIMULATION PROJECT. II. THE PROSPECTS FOR DIRECT DETECTION OF THE WHIM WITH SZE SURVEYS. Astrophysical Journal, 2009, 698, 1795-1802.	1.6	15
44	Probing the Dependence of the Intergalactic Medium on Large-scale Environment Using the Low-redshift Lyl± Forest. Astrophysical Journal, 2017, 845, 47.	1.6	14
45	ytree: A Python package for analyzing merger trees. Journal of Open Source Software, 2019, 4, 1881.	2.0	13
46	Imprints of the first billion years: Lyman limit systems atzâ^¼ 5. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1456-1470.	1.6	12
47	The AGORA High-resolution Galaxy Simulations Comparison Project. III. Cosmological Zoom-in Simulation of a Milky Wayâ€“mass Halo. Astrophysical Journal, 2021, 917, 64.	1.6	12
48	Calibration of a star formation and feedback model for cosmological simulations with enzo. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5203-5219.	1.6	11
49	THE PROPERTIES OF X-RAY COLD FRONTS IN A STATISTICAL SAMPLE OF SIMULATED GALAXY CLUSTERS. Astrophysical Journal, 2010, 725, 1053-1068.	1.6	10
50	External Enrichment of Mini Halos by the First Supernovae. Astrophysical Journal, 2021, 909, 70.	1.6	10
51	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.	1.6	10
52	Formation of First Galaxies inside Density Peaks and Voids under the Influence of Dark Matterâ€“Baryon Streaming Velocity. I. Initial Condition and Simulation Scheme. Astrophysical Journal, 2018, 869, 76.	1.6	9
53	BRINGING SIMULATION AND OBSERVATION TOGETHER TO BETTER UNDERSTAND THE INTERGALACTIC MEDIUM. Astrophysical Journal, 2014, 791, 64.	1.6	7
54	Gas cooling in hydrodynamic simulations with an exact time integration scheme. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1017-1025.	1.6	7

#	Article	IF	Citations
55	Simulating the Cosmic Dawn With Enzo. Frontiers in Astronomy and Space Sciences, 2018, 5, .	1.1	4
56	Evolving beyond z=0: insights about the future of stars and the intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5432-5450.	1.6	2
57	Three Modes of Metal-Enriched Star Formation in the Early Universe. , 2010, , .		1
58	The Cosmic Mach Number as an environment measure for the underlying dark matter density field. Monthly Notices of the Royal Astronomical Society, 2022, 512, 27-40.	1.6	1
59	Three Modes of Metal-Enriched Star Formation at High Redshift. Proceedings of the International Astronomical Union, 2008, 4, 111-115.	0.0	0
60	The imprint of pop III stars on the first galaxies. , 2012, , .		0
61	The formation of the first second generation star. , 2012, , .		0
62	Analyzing Star Formation Feedback Mechanisms in Cosmological Simulations. Research Notes of the AAS, 2022, 6, 38.	0.3	0