

Britton D Smith

List of Publications by Year in descending order

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62
papers

6,070
citations

147566

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143772

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62
all docs

62
docs citations

62
times ranked

4358
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing Star Formation Feedback Mechanisms in Cosmological Simulations. Research Notes of the AAS, 2022, 6, 38.	0.3	0
2	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
3	Is authorship sufficient for today's collaborative research? A call for contributor roles. Accountability in Research, 2021, 28, 23-43.	1.6	40
4	External Enrichment of Mini Halos by the First Supernovae. Astrophysical Journal, 2021, 909, 70.	1.6	10
5	The low-redshift circumgalactic medium in <scp>simba</scp>. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2383-2404.	1.6	24
6	The AGORA High-resolution Galaxy Simulations Comparison Project. III. Cosmological Zoom-in Simulation of a Milky Way-mass Halo. Astrophysical Journal, 2021, 917, 64.	1.6	12
7	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
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.	1.6	10
9	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
10	Figuring Out Gas & Galaxies in Enzo (FOGGIE). II. Emission from the $z \sim 3$ Circumgalactic Medium. Astrophysical Journal, 2020, 896, 125.	1.6	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.	1.6	16
12	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
13	The Impact of Enhanced Halo Resolution on the Simulated Circumgalactic Medium. Astrophysical Journal, 2019, 882, 156.	1.6	128
14	Figuring Out Gas & Galaxies in Enzo (FOGGIE). I. Resolving Simulated Circumgalactic Absorption at $z \sim 2.5$. Astrophysical Journal, 2019, 873, 129.	1.6	166
15	Imprints of the first billion years: Lyman limit systems at $z \sim 5$. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1456-1470.	1.6	12
16	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). Journal of Open Source Software, 2019, 4, 1636.	2.0	44
17	ytree: A Python package for analyzing merger trees. Journal of Open Source Software, 2019, 4, 1881.	2.0	13
18	Formation of First Galaxies inside Density Peaks and Voids under the Influence of Dark Matter's Baryon Streaming Velocity. I. Initial Condition and Simulation Scheme. Astrophysical Journal, 2018, 869, 76.	1.6	9

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19	Simulating the Cosmic Dawn With Enzo. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	1.1	4
20	Validating Semi-analytic Models of High-redshift Galaxy Formation Using Radiation Hydrodynamical Simulations. <i>Astrophysical Journal</i> , 2018, 859, 67.	1.6	32
21	The growth of black holes from Population III remnants in the Renaissance simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3762-3773.	1.6	62
22	Probing the Dependence of the Intergalactic Medium on Large-scale Environment Using the Low-redshift Ly α Forest. <i>Astrophysical Journal</i> , 2017, 845, 47.	1.6	14
23	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2217-2234.	1.6	201
24	Gas cooling in hydrodynamic simulations with an exact time integration scheme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1017-1025.	1.6	7
25	Trident: A Universal Tool for Generating Synthetic Absorption Spectra from Astrophysical Simulations. <i>Astrophysical Journal</i> , 2017, 847, 59.	1.6	61
26	New constraints on direct collapse black hole formation in the early Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4209-4217.	1.6	63
27	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. <i>Astrophysical Journal</i> , 2016, 833, 202.	1.6	88
28	AN HST/COS SURVEY OF THE LOW-REDSHIFT INTERGALACTIC MEDIUM. I. SURVEY, METHODOLOGY, AND OVERALL RESULTS*. <i>Astrophysical Journal</i> , 2016, 817, 111.	1.6	136
29	The first Population II stars formed in externally enriched mini-haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2822-2836.	1.6	117
30	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal</i> , Supplement Series, 2014, 211, 19.	3.0	615
31	BRINGING SIMULATION AND OBSERVATION TOGETHER TO BETTER UNDERSTAND THE INTERGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2014, 791, 64.	1.6	7
32	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. <i>Astrophysical Journal</i> , Supplement Series, 2014, 210, 14.	3.0	185
33	The birth of a galaxy “III. Propelling reionization with the faintest galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2560-2579.	1.6	321
34	FRAGMENTATION IN DUSTY LOW-METALLICITY STAR-FORMING HALOS. <i>Astrophysical Journal</i> , 2014, 783, 75.	1.6	19
35	POPULATION III STAR FORMATION IN LARGE COSMOLOGICAL VOLUMES. I. HALO TEMPORAL AND PHYSICAL ENVIRONMENT. <i>Astrophysical Journal</i> , 2013, 773, 108.	1.6	28
36	The effect of feedback and reionization on star formation in low-mass dwarf galaxy haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1989-2011.	1.6	68

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37	Constraints on hydrodynamical subgrid models from quasar absorption line studies of the simulated circumgalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1548-1565.	1.6	114
38	COSMOLOGICAL SIMULATIONS OF ISOTROPIC CONDUCTION IN GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2013, 778, 152.	1.6	16
39	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. <i>Astrophysical Journal</i> , 2013, 763, 38.	1.6	18
40	The imprint of pop III stars on the first galaxies. , 2012, , .		0
41	The formation of the first second generation star. , 2012, , .		0
42	THE BARYON CENSUS IN A MULTIPHASE INTERGALACTIC MEDIUM: 30% OF THE BARYONS MAY STILL BE MISSING. <i>Astrophysical Journal</i> , 2012, 759, 23.	1.6	361
43	The birth of a galaxy â€“ II. The role of radiation pressure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 311-326.	1.6	147
44	CRITICAL STAR FORMATION RATES FOR REIONIZATION: FULL REIONIZATION OCCURS AT REDSHIFT $z \approx 7$. <i>Astrophysical Journal</i> , 2012, 747, 100.	1.6	133
45	NUMERICAL SIMULATIONS OF SUPERNOVA DUST DESTRUCTION. II. METAL-ENRICHED EJECTA KNOTS. <i>Astrophysical Journal</i> , 2012, 748, 12.	1.6	61
46	DWARF GALAXY FORMATION WITH H ₂ -REGULATED STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 749, 36.	1.6	105
47	yt: A MULTI-CODE ANALYSIS TOOLKIT FOR ASTROPHYSICAL SIMULATION DATA. <i>Astrophysical Journal</i> , Supplement Series, 2011, 192, 9.	3.0	959
48	THE NATURE OF THE WARM/HOT INTERGALACTIC MEDIUM. I. NUMERICAL METHODS, CONVERGENCE, AND O VI ABSORPTION. <i>Astrophysical Journal</i> , 2011, 731, 6.	1.6	113
49	GALAXY CLUSTER RADIO RELICS IN ADAPTIVE MESH REFINEMENT COSMOLOGICAL SIMULATIONS: RELIC PROPERTIES AND SCALING RELATIONSHIPS. <i>Astrophysical Journal</i> , 2011, 735, 96.	1.6	61
50	He II Ly β GUNN-PETERSON ABSORPTION: NEW HST OBSERVATIONS AND THEORETICAL EXPECTATIONS. <i>Astrophysical Journal</i> , 2011, 742, 99.	1.6	18
51	THE PROPERTIES OF X-RAY COLD FRONTS IN A STATISTICAL SAMPLE OF SIMULATED GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2010, 725, 1053-1068.	1.6	10
52	HST/COS OBSERVATIONS OF THE QUASAR HE 2347â€“4342: PROBING THE EPOCH OF He II PATCHY REIONIZATION AT REDSHIFTS $z = 2.4-2.9$. <i>Astrophysical Journal</i> , 2010, 722, 1312-1324.	1.6	95
53	Three Modes of Metal-Enriched Star Formation in the Early Universe. , 2010, , .		1
54	HOW WELL DO COSMOLOGICAL SIMULATIONS REPRODUCE INDIVIDUAL HALO PROPERTIES?. <i>Astrophysical Journal</i> , 2010, 711, 1198-1207.	1.6	46

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55	NUMERICAL SIMULATIONS OF SUPERNOVA DUST DESTRUCTION. I. CLOUD-CRUSHING AND POST-PROCESSED GRAIN SPUTTERING. <i>Astrophysical Journal</i> , 2010, 715, 1575-1590.	1.6	98
56	THE SANTA FE LIGHT CONE SIMULATION PROJECT. II. THE PROSPECTS FOR DIRECT DETECTION OF THE WHIM WITH SZE SURVEYS. <i>Astrophysical Journal</i> , 2009, 698, 1795-1802.	1.6	15
57	THREE MODES OF METAL-ENRICHED STAR FORMATION IN THE EARLY UNIVERSE. <i>Astrophysical Journal</i> , 2009, 691, 441-451.	1.6	126
58	The effect of photoionization on the cooling rates of enriched, astrophysical plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 99-107.	1.6	753
59	Metal cooling in simulations of cosmic structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 1443-1454.	1.6	107
60	Modeling of Emission Signatures of Massive Black Hole Binaries. I. Methods. <i>Astrophysical Journal</i> , Supplement Series, 2008, 174, 455-480.	3.0	63
61	Three Modes of Metal-Enriched Star Formation at High Redshift. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 111-115.	0.0	0
62	The Transition from the First Stars to the Second Stars in the Early Universe. <i>Astrophysical Journal</i> , 2007, 661, L5-L8.	1.6	68