

Greg L Bryan

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157
papers

12,110
citations

55
h-index

108
g-index

174
ext. papers

13,184
ext. citations

5.3
avg, IF

6.66
L-index

#	Paper	IF	Citations
157	Statistical Properties of X-Ray Clusters: Analytic and Numerical Comparisons. <i>Astrophysical Journal</i> , 1998 , 495, 80-99	4.7	1571
156	The formation of the first star in the Universe. <i>Science</i> , 2002 , 295, 93-8	33.3	1032
155	Baryons in the Warm-Hot Intergalactic Medium. <i>Astrophysical Journal</i> , 2001 , 552, 473-483	4.7	610
154	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 19	8	490
153	The Formation and Fragmentation of Primordial Molecular Clouds. <i>Astrophysical Journal</i> , 2000 , 540, 39-44	4.7	440
152	The Santa Barbara Cluster Comparison Project: A Comparison of Cosmological Hydrodynamics Solutions. <i>Astrophysical Journal</i> , 1999 , 525, 554-582	4.7	371
151	Simulations of Pregalactic Structure Formation with Radiative Feedback. <i>Astrophysical Journal</i> , 2001 , 548, 509-521	4.7	274
150	The baseline intracluster entropy profile from gravitational structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 364, 909-916	4.3	224
149	Supermassive black hole formation by direct collapse: keeping protogalactic gas H ₂ free in dark matter haloes with virial temperatures $T_{\text{vir}} > 10^4 \text{K}$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 402, 1249-1262	4.3	213
148	Heating cooling flows with jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 348, 1105-1119	4.3	187
147	Modified Entropy Models for the Intracluster Medium. <i>Astrophysical Journal</i> , 2002 , 576, 601-624	4.7	168
146	Photodissociation of H ₂ in protogalaxies: modelling self-shielding in three-dimensional simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 418, 838-852	4.3	164
145	Regulation of the X-ray luminosity of clusters of galaxies by cooling and supernova feedback. <i>Nature</i> , 2001 , 414, 425-7	50.4	160
144	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 210, 14	8	159
143	SIMULATING THE COMMON ENVELOPE PHASE OF A RED GIANT USING SMOOTHED-PARTICLE HYDRODYNAMICS AND UNIFORM-GRID CODES. <i>Astrophysical Journal</i> , 2012 , 744, 52	4.7	157
142	GAS STRIPPING IN SIMULATED GALAXIES WITH A MULTIPHASE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2009 , 694, 789-804	4.7	153
141	A piecewise parabolic method for cosmological hydrodynamics. <i>Computer Physics Communications</i> , 1995 , 89, 149-168	4.2	139

140	Cosmic ray driven outflows in global galaxy disc models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 3312-3330	4.3	132
139	The H ii Region of a Primordial Star. <i>Astrophysical Journal</i> , 2007 , 659, L87-L90	4.7	132
138	On the Origin of Intracluster Entropy. <i>Astrophysical Journal</i> , 2003 , 593, 272-290	4.7	131
137	DEPENDENCE OF INTERSTELLAR TURBULENT PRESSURE ON SUPERNOVA RATE. <i>Astrophysical Journal</i> , 2009 , 704, 137-149	4.7	128
136	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 2217-2234	4.3	125
135	Explaining the Entropy Excess in Clusters and Groups of Galaxies without Additional Heating. <i>Astrophysical Journal</i> , 2000 , 544, L1-L5	4.7	124
134	Towards simulating star formation in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 356, 737-752	4.3	122
133	MAGNETIC FIELDS IN POPULATION III STAR FORMATION. <i>Astrophysical Journal</i> , 2012 , 745, 154	4.7	117
132	COOLING, AGN FEEDBACK, AND STAR FORMATION IN SIMULATED COOL-CORE GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2015 , 811, 73	4.7	115
131	A test suite for quantitative comparison of hydrodynamic codes in astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 390, 1267-1281	4.3	114
130	A Global Model for Circumgalactic and Cluster-core Precipitation. <i>Astrophysical Journal</i> , 2017 , 845, 80	4.7	109
129	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	4.3	104
128	Simulating Star Formation and Feedback in Galactic Disk Models. <i>Astrophysical Journal</i> , 2006 , 641, 878-890	4.7	102
127	A Universal Temperature Profile for Galaxy Clusters. <i>Astrophysical Journal</i> , 2002 , 579, 571-576	4.7	100
126	MODELING ACTIVE GALACTIC NUCLEUS FEEDBACK IN COOL-CORE CLUSTERS: THE FORMATION OF COLD CLUMPS. <i>Astrophysical Journal</i> , 2014 , 789, 153	4.7	99
125	RAM PRESSURE STRIPPING OF THE LARGE MAGELLANIC CLOUDS DISK AS A PROBE OF THE MILKY WAY'S CIRCUMGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2015 , 815, 77	4.7	93
124	Environmentally Driven Evolution of Simulated Cluster Galaxies. <i>Astrophysical Journal</i> , 2007 , 671, 1434-1445	4.7	93
123	MODELING ACTIVE GALACTIC NUCLEUS FEEDBACK IN COOL-CORE CLUSTERS: THE BALANCE BETWEEN HEATING AND COOLING. <i>Astrophysical Journal</i> , 2014 , 789, 54	4.7	91

122	Star formation in ram pressure stripped galactic tails. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 422, 1609-1624	4-3	89
121	THE TAIL OF THE STRIPPED GAS THAT COOLED: H I, H ₂ AND X-RAY OBSERVATIONAL SIGNATURES OF RAM PRESSURE STRIPPING. <i>Astrophysical Journal</i> , 2010 , 709, 1203-1218	4-7	84
120	Resolving the Ly α Forest. <i>Astrophysical Journal</i> , 1999 , 517, 13-30	4-7	83
119	Direct collapse black hole formation from synchronized pairs of atomic cooling haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 1056-1063	4-3	75
118	The Effect of the Interstellar Model on Star Formation Properties in Galactic Disks. <i>Astrophysical Journal</i> , 2008 , 673, 810-831	4-7	74
117	A survey of high level frameworks in block-structured adaptive mesh refinement packages. <i>Journal of Parallel and Distributed Computing</i> , 2014 , 74, 3217-3227	4-4	73
116	Introducing Enzo, an AMR Cosmology Application 2005 , 341-349		72
115	GAS CONDENSATION IN THE GALACTIC HALO. <i>Astrophysical Journal</i> , 2012 , 745, 148	4-7	68
114	Was Star Formation Suppressed in High-Redshift Minihalos?. <i>Astrophysical Journal</i> , 2006 , 650, 7-11	4-7	66
113	Quantifying Supernovae-driven Multiphase Galactic Outflows. <i>Astrophysical Journal</i> , 2017 , 841, 101	4-7	64
112	Rapid formation of massive black holes in close proximity to embryonic protogalaxies. <i>Nature Astronomy</i> , 2017 , 1,	12.1	61
111	The Distribution of the Ly α Forest: Probing Cosmology and the Intergalactic Medium. <i>Astrophysical Journal</i> , 2000 , 534, 57-68	4-7	61
110	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	4-3	60
109	PRECIPITATION-REGULATED STAR FORMATION IN GALAXIES. <i>Astrophysical Journal Letters</i> , 2015 , 808, L30	7-9	58
108	Formation of Cool Cores in Galaxy Clusters via Hierarchical Mergers. <i>Astrophysical Journal</i> , 2004 , 606, 635-653	4-7	58
107	Probing the Intergalactic Medium with the O [CSC]vi/[CSC] Forest. <i>Astrophysical Journal</i> , 2001 , 561, L31-L35	4-3	58
106	Radial Alignment in Simulated Clusters. <i>Astrophysical Journal</i> , 2008 , 672, 825-833	4-7	57
105	Ultraviolet Radiative Feedback on High-Redshift Protogalaxies. <i>Astrophysical Journal</i> , 2006 , 648, 835-851	4-7	56

104	Cluster turbulence 1999 , 106-115		56
103	A comparison of cosmological hydrodynamic codes. <i>Astrophysical Journal</i> , 1994 , 430, 83	4.7	56
102	Role of cosmic rays in the circumgalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 582-601	4.3	54
101	The Impact of HD Cooling on the Formation of the First Stars. <i>Astrophysical Journal</i> , 2008 , 685, 8-20	4.7	53
100	Simulating an isolated dwarf galaxy with multichannel feedback and chemical yields from individual stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 1304-1329	4.3	52
99	The X-Ray Luminosity Function and Gas Mass Function for Optically Selected Poor and Rich Clusters of Galaxies. <i>Astrophysical Journal</i> , 1996 , 467, L49-L52	4.7	51
98	SUPERNOVA SWEEPING AND BLACK HOLE FEEDBACK IN ELLIPTICAL GALAXIES. <i>Astrophysical Journal Letters</i> , 2015 , 803, L21	7.9	50
97	GALAXY SIZE PROBLEM AT $z = 3$: SIMULATED GALAXIES ARE TOO SMALL. <i>Astrophysical Journal</i> , 2009 , 692, L1-L4	4.7	48
96	GAS ACCRETION IS DOMINATED BY WARM IONIZED GAS IN MILKY WAY MASS GALAXIES AT $z \sim 0$. <i>Astrophysical Journal</i> , 2012 , 759, 137	4.7	47
95	ACCRETION SHOCKS IN CLUSTERS OF GALAXIES AND THEIR SZ SIGNATURE FROM COSMOLOGICAL SIMULATIONS. <i>Astrophysical Journal</i> , 2009 , 696, 1640-1656	4.7	47
94	A no-go theorem for direct collapse black holes without a strong ultraviolet background. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014 , 442, L100-L104	4.3	46
93	AGN Heating in Simulated Cool-core Clusters. <i>Astrophysical Journal</i> , 2017 , 847, 106	4.7	45
92	Simulating the X-Ray Forest. <i>Astrophysical Journal</i> , 2002 , 564, 604-623	4.7	45
91	SUPERNOVA FEEDBACK AND THE HOT GAS FILLING FRACTION OF THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2015 , 814, 4	4.7	44
90	Multiphase Gas and the Fractal Nature of Radiative Turbulent Mixing Layers. <i>Astrophysical Journal Letters</i> , 2020 , 894, L24	7.9	43
89	KINETIC ENERGY FROM SUPERNOVA FEEDBACK IN HIGH-RESOLUTION GALAXY SIMULATIONS. <i>Astrophysical Journal</i> , 2015 , 809, 69	4.7	42
88	High-redshift star formation in a time-dependent Lyman α Werner background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 107-114	4.3	42
87	H ₂ suppression with shocking inflows: testing a pathway for supermassive black hole formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 439, 3798-3807	4.3	41

86	COSMOLOGICAL SIMULATIONS OF GALAXY FORMATION WITH COSMIC RAYS. <i>Astrophysical Journal Letters</i> , 2014 , 797, L18	7.9	41
85	Limits on Population III star formation in minihaloes implied by Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 453, 4457-4467	4.3	40
84	Numerical Simulations of High-Redshift Star Formation in Dwarf Galaxies. <i>Astrophysical Journal</i> , 2003 , 587, 13-24	4.7	40
83	Hydrodynamical simulations of the Ly α Forest: data comparisons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 327, 296-322	4.3	39
82	X-ray clusters from a high-resolution hydrodynamic PPM simulation of the cold dark matter universe. <i>Astrophysical Journal</i> , 1994 , 428, 405	4.7	39
81	ADAPTIVE MESH REFINEMENT SIMULATIONS OF GALAXY FORMATION: EXPLORING NUMERICAL AND PHYSICAL PARAMETERS. <i>Astrophysical Journal</i> , 2012 , 749, 140	4.7	36
80	Hydrodynamical Simulations of the Ly α Forest: Model Comparisons. <i>Astrophysical Journal</i> , 2000 , 532, 118-135	4.7	36
79	WARM GAS IN THE VIRGO CLUSTER. I. DISTRIBUTION OF Ly α ABSORBERS. <i>Astrophysical Journal</i> , 2012 , 754, 84	4.7	35
78	HOW TO LIGHT IT UP: SIMULATING RAM-PRESSURE STRIPPED X-RAY BRIGHT TAILS. <i>Astrophysical Journal</i> , 2011 , 731, 98	4.7	35
77	The Impact of ICM Substructure on Ram Pressure Stripping. <i>Astrophysical Journal</i> , 2008 , 684, L9-L12	4.7	35
76	A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. <i>Astrophysical Journal</i> , 2019 , 871, 21	4.7	34
75	SIMULATING THE COOLING FLOW OF COOL-CORE CLUSTERS. <i>Astrophysical Journal</i> , 2012 , 747, 26	4.7	34
74	The X-Ray Surface Brightness Distribution from Diffuse Gas. <i>Astrophysical Journal</i> , 2001 , 556, 590-600	4.7	34
73	Numerical and perturbative computations of the fuzzy dark matter model. <i>Physical Review D</i> , 2019 , 99,	4.9	31
72	A Hybrid AMR Application for Cosmology and Astrophysics. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2000 , 165-170	0.5	31
71	Stellar Radiation Is Critical for Regulating Star Formation and Driving Outflows in Low-mass Dwarf Galaxies. <i>Astrophysical Journal Letters</i> , 2018 , 865, L22	7.9	30
70	The Impact of Galactic Winds on the Angular Momentum of Disk Galaxies in the Illustris Simulation. <i>Astrophysical Journal</i> , 2017 , 841, 16	4.7	29
69	A novel dynamic load balancing scheme for parallel systems. <i>Journal of Parallel and Distributed Computing</i> , 2002 , 62, 1763-1781	4.4	29

68	First Results from SMAUG: Characterization of Multiphase Galactic Outflows from a Suite of Local Star-forming Galactic Disk Simulations. <i>Astrophysical Journal</i> , 2020 , 900, 61	4-7	29
67	Formation of massive Population III galaxies through photoionization feedback: a possible explanation for CR7. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 460, L59-L63	4-3	28
66	Cosmological Simulations of the Preheating Scenario for Galaxy Cluster Formation: Comparison to Analytic Models and Observations. <i>Astrophysical Journal</i> , 2007 , 666, 647-657	4-7	28
65	The Metal Enrichment and Temperature of the Intergalactic Medium. <i>Astrophysical Journal</i> , 2001 , 546, L81-L85	4-7	26
64	A Parallel Self-consistent Field Code. <i>Astrophysical Journal</i> , 1995 , 446, 717	4-7	26
63	Direct Detection of Black Hole-driven Turbulence in the Centers of Galaxy Clusters. <i>Astrophysical Journal Letters</i> , 2020 , 889, L1	7-9	25
62	Chandra High-Energy Transition Grating Spectrometer Observation of the Quasar H1821+643 and Its Surrounding Cluster. <i>Astrophysical Journal</i> , 2002 , 565, 86-95	4-7	25
61	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). <i>Journal of Open Source Software</i> , 2019 , 4, 1636	5-2	25
60	On the Distribution of X-Ray Surface Brightness from Diffuse Gas. <i>Astrophysical Journal</i> , 2001 , 551, L139-L142	4-7	24
59	Chandra Observations of Two High-Redshift Quasars. <i>Astrophysical Journal</i> , 2001 , 555, 356-363	4-7	24
58	Metal Mixing and Ejection in Dwarf Galaxies Are Dependent on Nucleosynthetic Source. <i>Astrophysical Journal</i> , 2018 , 869, 94	4-7	23
57	The evolution of X-ray clusters in a cold plus hot dark matter universe. <i>Astrophysical Journal</i> , 1994 , 437, L5	4-7	22
56	The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. <i>Astrophysical Journal</i> , 2021 , 915, 71	4-7	22
55	Circumgalactic Pressure Profiles Indicate Precipitation-limited Atmospheres for $M^* \sim 10^{11.5} M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2019 , 879, L1	7-9	21
54	Self-consistent semi-analytic models of the first stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 5246-5256	4-3	21
53	TIDAL TORQUING OF ELLIPTICAL GALAXIES IN CLUSTER ENVIRONMENTS. <i>Astrophysical Journal</i> , 2010 , 721, 939-955	4-7	20
52	Properties of the simulated circumgalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 1461-1478	4-3	19
51	Relic H II regions and radiative feedback at high redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 399, 1650-1662	4-3	19

50	First Results from SMAUG: Uncovering the Origin of the Multiphase Circumgalactic Medium with a Comparative Analysis of Idealized and Cosmological Simulations. <i>Astrophysical Journal</i> , 2020 , 903, 32	4-7	19
49	Looking for Population III stars with He II line intensity mapping. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 2506-2513	4-3	18
48	What is the maximum mass of a Population III galaxy?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 1456-1465	4-3	17
47	Confusion of Diffuse Objects in the X-Ray Sky. <i>Astrophysical Journal</i> , 2001 , 548, L123-L126	4-7	16
46	Breaking Cosmological Degeneracies in Galaxy Cluster Surveys with a Physical Model of Cluster Structure. <i>Astrophysical Journal</i> , 2006 , 653, 27-42	4-7	15
45	Simple Yet Powerful: Hot Galactic Outflows Driven by Supernovae. <i>Astrophysical Journal Letters</i> , 2020 , 890, L30	7-9	15
44	Energy distributions of symbiotic novae. <i>Astrophysical Journal</i> , 1991 , 368, 252	4-7	15
43	Cosmological simulations of dwarf galaxies with cosmic ray feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 460, 3335-3344	4-3	14
42	The Angular Momentum of the Circumgalactic Medium in the TNG100 Simulation. <i>Astrophysical Journal</i> , 2020 , 895, 17	4-7	14
41	Self-consistent Semianalytic Modeling of Feedback during Primordial Star Formation and Reionization. <i>Astrophysical Journal</i> , 2020 , 897, 95	4-7	14
40	GMC evolution in a barred spiral galaxy with star formation and thermal feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 461, 1684-1700	4-3	14
39	Dynamic load balancing of SAMR applications on distributed systems 2001 ,		13
38	Galaxies Collide On the I-Way: an Example of Heterogeneous Wide-Area Collaborative Supercomputing. <i>International Journal of High Performance Computing Applications</i> , 1996 , 10, 132-144		13
37	The Fate of Asymptotic Giant Branch Winds in Massive Galaxies and the Intracluster Medium. <i>Astrophysical Journal</i> , 2019 , 887, 41	4-7	13
36	On the formation of carbon stars. <i>Astrophysical Journal</i> , 1990 , 365, 301	4-7	12
35	Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. <i>Astrophysical Journal</i> , 2021 , 917, 53	4-7	12
34	The Impact of Type Ia Supernovae in Quiescent Galaxies. II. Energetics and Turbulence. <i>Astrophysical Journal</i> , 2020 , 898, 23	4-7	11
33	A Black Hole Feedback Valve in Massive Galaxies. <i>Astrophysical Journal</i> , 2020 , 899, 70	4-7	11

32	Simulating Gas Inflow at the DiskHalo Interface. <i>Astrophysical Journal</i> , 2019 , 872, 47	4-7	10
31	CHEMICAL ABUNDANCE PATTERNS AND THE EARLY ENVIRONMENT OF DWARF GALAXIES. <i>Astrophysical Journal</i> , 2013 , 773, 105	4-7	10
30	Eccentricity Evolution in Simulated Galaxy Clusters. <i>Astrophysical Journal</i> , 2003 , 591, 741-748	4-7	10
29	Achieving extreme resolution in numerical cosmology using adaptive mesh refinement 2001 ,		10
28	Efficient early stellar feedback can suppress galactic outflows by reducing supernova clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 3882-3915	4-3	10
27	CONSTRAINING INTRACLUSTER GAS MODELS WITH AMiBA13. <i>Astrophysical Journal</i> , 2010 , 723, 1272-1285	4-7	9
26	Simulating Metal Mixing of Both Common and Rare Enrichment Sources in a Low-mass Dwarf Galaxy. <i>Astrophysical Journal</i> , 2020 , 890, 155	4-7	9
25	It's Clouds Illusions I Recall: Mixing Drives the Acceleration of Clouds from Ram Pressure Stripped Galaxies. <i>Astrophysical Journal</i> , 2021 , 911, 68	4-7	9
24	The Impact of Type Ia Supernovae in Quiescent Galaxies. I. Formation of the Multiphase Interstellar Medium. <i>Astrophysical Journal</i> , 2020 , 894, 44	4-7	8
23	A Framework for Multiphase Galactic Wind Launching Using TIGRESS. <i>Astrophysical Journal Letters</i> , 2020 , 903, L34	7-9	8
22	Implications of Galaxy Buildup for Putative IMF Variations in Massive Galaxies. <i>Astrophysical Journal</i> , 2017 , 845, 136	4-7	7
21	Dynamic Load Balancing of Samr Applications on Distributed Systems. <i>Scientific Programming</i> , 2002 , 10, 319-328	1-4	7
20	First Results from SMAUG: The Need for Preventative Stellar Feedback and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation. <i>Astrophysical Journal</i> , 2020 , 905, 4	4-7	7
19	The Environmental Impact of Lyman Break Galaxies. <i>Astrophysical Journal</i> , 2006 , 642, L5-L8	4-7	6
18	The Structure of Multiphase Galactic Winds. <i>Astrophysical Journal</i> , 2022 , 924, 82	4-7	6
17	Which AGN jets quench star formation in massive galaxies?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 175-204	4-3	6
16	AN ADAPTIVE PARTICLE-MESH GRAVITY SOLVER FOR ENZO. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 215, 8	8	5
15	Fragmentation in Population III Galaxies Formed through Ionizing Radiation. <i>Astrophysical Journal</i> , 2019 , 882, 178	4-7	5

14	A Simple Model for Mixing and Cooling in Cloud-Wind Interactions. <i>Astrophysical Journal</i> , 2022 , 925, 199	4.7	4
13	The Critical Dark Matter Halo Mass for Population III Star Formation: Dependence on Lyman-Werner Radiation, Baryon-dark Matter Streaming Velocity, and Redshift. <i>Astrophysical Journal</i> , 2021 , 917, 40	4.7	4
12	Cooling and clusters: when is heating needed?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005 , 363, 715-24	3	3
11	O vi Emission from the Supernovae-regulated Interstellar Medium: Simulation versus Observation. <i>Astrophysical Journal Letters</i> , 2017 , 835, L10	7.9	1
10	Birthing star forming clouds in the grand design. <i>Proceedings of the International Astronomical Union</i> , 2015 , 11,	0.1	1
9	Exploring cosmology applications on distributed environments. <i>Future Generation Computer Systems</i> , 2003 , 19, 839-847	7.5	1
8	Suppression of H ₂ -cooling in protogalaxies aided by trapped Ly α -cooling radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 500, 138-144	4.3	1
7	First Results from SMAUG: Insights into Star Formation Conditions from Spatially Resolved ISM Properties in TNG50. <i>Astrophysical Journal</i> , 2022 , 926, 139	4.7	1
6	A Comparison of Circumgalactic Mg ii Absorption between the TNG50 Simulation and the MEGAFLOW Survey. <i>Astrophysical Journal</i> , 2021 , 923, 56	4.7	1
5	Achieving Extreme Resolution in Numerical Cosmology Using Adaptive Mesh Refinement: Resolving Primordial Star Formation. <i>Scientific Programming</i> , 2002 , 10, 291-302	1.4	
4	Star formation in a multi-phase interstellar medium. <i>Astrophysics and Space Science</i> , 2003 , 284, 833-836	1.6	
3	Star Formation in a Multi-Phase Interstellar Medium 2003 , 539-542		
2	Simulating Cosmological Evolution with Enzo. <i>Chapman & Hall/CRC Computational Science</i> , 2007 , 83-102		
1	Slow cooling in low-metallicity clouds: an origin of globular cluster bimodality?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 200-210	4.3	