# Greg L Bryan

List of Publications by Year
in descending order

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|---|---|---|---|
| 170 papers | 14,542 citations | 27035 58 h-index | 22488 117 g-index |
| 174 all docs | 174 docs citations | 174 times ranked | 6475 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Structure of Multiphase Galactic Winds. Astrophysical Journal, 2022, 924, 82. | 1.6 | 58 |
| 2 | A Simple Model for Mixing and Cooling in Cloudâ€“Wind Interactions. Astrophysical Journal, 2022, 925, 199. | 1.6 | 18 |
| 3 | First Results from SMAUG: Insights into Star Formation Conditions from Spatially Resolved ISM Properties in TNG50. Astrophysical Journal, 2022, 926, 139. | 1.6 | 3 |
| 4 | Formation and evolution of young massive clusters in galaxy mergers: the <tt>SMUGGLE</tt> view. Monthly Notices of the Royal Astronomical Society, 2022, 514, 265-279. | 1.6 | 26 |
| 5 | The Low-redshift LyÎ± Forest as a Constraint for Models of AGN Feedback. Astrophysical Journal Letters, 2022, 933, L46. | 3.0 | 8 |
| 6 | The Circumgalactic Medium from the CAMELS Simulations: Forecasting Constraints on Feedback Processes from Future Sunyaevâ€“Zeldovich Observations. Astrophysical Journal, 2022, 933, 133. | 1.6 | 11 |
| 7 | Characterizing mass, momentum, energy, and metal outflow rates of multiphase galactic winds in the FIRE-2 cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2979-3008. | 1.6 | 56 |
| 8 | Itâ€™s Cloudâ€™s Illusions I Recall: Mixing Drives the Acceleration of Clouds from Ram Pressure Stripped Galaxies. Astrophysical Journal, 2021, 911, 68. | 1.6 | 26 |
| 9 | The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. Astrophysical Journal, 2021, 915, 71. | 1.6 | 113 |
| 10 | Which AGN jets quench star formation in massive galaxies?. Monthly Notices of the Royal Astronomical Society, 2021, 507, 175-204. | 1.6 | 31 |
| 11 | Efficient early stellar feedback can suppress galactic outflows by reducing supernova clustering. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3882-3915. | 1.6 | 48 |
| 12 | The Critical Dark Matter Halo Mass for Population III Star Formation: Dependence on Lymanâ€“Werner Radiation, Baryon-dark Matter Streaming Velocity, and Redshift. Astrophysical Journal, 2021, 917, 40. | 1.6 | 26 |
| 13 | Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. Astrophysical Journal, 2021, 917, 53. | 1.6 | 49 |
| 14 | A Comparison of Circumgalactic Mg ii Absorption between the TNG50 Simulation and the MEGAFLOW Survey. Astrophysical Journal, 2021, 923, 56. | 1.6 | 12 |
| 15 | Multiphase Gas and the Fractal Nature of Radiative Turbulent Mixing Layers. Astrophysical Journal Letters, 2020, 894, L24. | 3.0 | 88 |
| 16 | The Impact of Type Ia Supernovae in Quiescent Galaxies. I. Formation of the Multiphase Interstellar Medium. Astrophysical Journal, 2020, 894, 44. | 1.6 | 13 |
| 17 | Direct Detection of Black Hole-driven Turbulence in the Centers of Galaxy Clusters. Astrophysical Journal Letters, 2020, 889, L1. | 3.0 | 48 |
| 18 | Properties of the simulated circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1461-1478. | 1.6 | 30 |

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| 19 | Simulating Metal Mixing of Both Common and Rare Enrichment Sources in a Low-mass Dwarf Galaxy. Astrophysical Journal, 2020, 890, 155. | 1.6 | 14 |
| 20 | The Angular Momentum of the Circumgalactic Medium in the TNG100 Simulation. Astrophysical Journal, 2020, 895, 17. | 1.6 | 26 |
| 21 | Self-consistent Semianalytic Modeling of Feedback during Primordial Star Formation and Reionization. Astrophysical Journal, 2020, 897, 95. | 1.6 | 30 |
| 22 | The Impact of Type Ia Supernovae in Quiescent Galaxies. II. Energetics and Turbulence. Astrophysical Journal, 2020, 898, 23. | 1.6 | 20 |
| 23 | A Black Hole Feedback Valve in Massive Galaxies. Astrophysical Journal, 2020, 899, 70. | 1.6 | 22 |
| 24 | First Results from SMAUG: Characterization of Multiphase Galactic Outflows from a Suite of Local Star-forming Galactic Disk Simulations. Astrophysical Journal, 2020, 900, 61. | 1.6 | 68 |
| 25 | First Results from SMAUG: Uncovering the Origin of the Multiphase Circumgalactic Medium with a Comparative Analysis of Idealized and Cosmological Simulations. Astrophysical Journal, 2020, 903, 32. | 1.6 | 38 |
| 26 | First Results from SMAUG: The Need for Preventative Stellar Feedback and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation. Astrophysical Journal, 2020, 905, 4. | 1.6 | 25 |
| 27 | Simple Yet Powerful: Hot Galactic Outflows Driven by Supernovae. Astrophysical Journal Letters, 2020, 890, L30. | 3.0 | 33 |
| 28 | A Framework for Multiphase Galactic Wind Launching Using TIGRESS. Astrophysical Journal Letters, 2020, 903, L34. | 3.0 | 27 |
| 29 | Suppression of H2-cooling in protogalaxies aided by trapped LyÎ± cooling radiation. Monthly Notices of the Royal Astronomical Society, 2020, 500, 138-144. | 1.6 | 3 |
| 30 | Large-scale structure with cold dark matter. Nature Astronomy, 2019, 3, 1058-1059. | 4.2 | 0 |
| 31 | Circumgalactic Pressure Profiles Indicate Precipitation-limited Atmospheres for M <sub>*</sub> â‰ˆ 10<sup>9</sup>â€“10<sup>11.5</sup> M <sub>âŠ™</sub>. Astrophysical Journal Letters, 2019, 879, L1. | 3.0 | 29 |
| 32 | A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. Astrophysical Journal, 2019, 871, 21. | 1.6 | 65 |
| 33 | Simulating Gas Inflow at the Diskâ€“Halo Interface. Astrophysical Journal, 2019, 872, 47. | 1.6 | 14 |
| 34 | Numerical and perturbative computations of the fuzzy dark matter model. Physical Review D, 2019, 99, . | 1.6 | 58 |
| 35 | Simulating an isolated dwarf galaxy with multichannel feedback and chemical yields from individual stars. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1304-1329. | 1.6 | 75 |
| 36 | Fragmentation in Population III Galaxies Formed through Ionizing Radiation. Astrophysical Journal, 2019, 882, 178. | 1.6 | 9 |

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| 37 | The Fate of Asymptotic Giant Branch Winds in Massive Galaxies and the Intracluster Medium. Astrophysical Journal, 2019, 887, 41. | 1.6 | 14 |
| 38 | ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). Journal of Open Source Software, 2019, 4, 1636. | 2.0 | 44 |
| 39 | Slow cooling in low-metallicity clouds: an origin of globular cluster bimodality?. Monthly Notices of the Royal Astronomical Society, 2018, 479, 200-210. | 1.6 | 1 |
| 40 | Metal Mixing and Ejection in Dwarf Galaxies Are Dependent on Nucleosynthetic Source. Astrophysical Journal, 2018, 869, 94. | 1.6 | 31 |
| 41 | Stellar Radiation Is Critical for Regulating Star Formation and Driving Outflows in Low-mass Dwarf Galaxies. Astrophysical Journal Letters, 2018, 865, L22. | 3.0 | 51 |
| 42 | Self-consistent semi-analytic models of the first stars. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5246-5256. | 1.6 | 35 |
| 43 | Cosmic Gas and the Intergalactic Medium. World Scientific Series in Astrophysics, 2018, , 221-250. | 1.0 | 0 |
| 44 | O viÂEmission from the Supernovae-regulated Interstellar Medium: Simulation versus Observation. Astrophysical Journal Letters, 2017, 835, L10. | 3.0 | 2 |
| 45 | The Impact of Galactic Winds on the Angular Momentum of Disk Galaxies in the Illustris Simulation. Astrophysical Journal, 2017, 841, 16. | 1.6 | 45 |
| 46 | Quantifying Supernovae-driven Multiphase Galactic Outflows. Astrophysical Journal, 2017, 841, 101. | 1.6 | 90 |
| 47 | Rapid formation of massive black holes in close proximity to embryonic protogalaxies. Nature Astronomy, 2017, 1, . | 4.2 | 86 |
| 48 | A Global Model for Circumgalactic and Cluster-core Precipitation. Astrophysical Journal, 2017, 845, 80. | 1.6 | 149 |
| 49 | grackle: a chemistry and cooling library for astrophysics. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2217-2234. | 1.6 | 201 |
| 50 | What is the maximum mass of a Population III galaxy?. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1456-1465. | 1.6 | 24 |
| 51 | Implications of Galaxy Buildup for Putative IMF Variations in Massive Galaxies. Astrophysical Journal, 2017, 845, 136. | 1.6 | 7 |
| 52 | AGN Heating in Simulated Cool-core Clusters. Astrophysical Journal, 2017, 847, 106. | 1.6 | 59 |
| 53 | GMC evolution in a barred spiral galaxy with star formation and thermal feedback. Monthly Notices of the Royal Astronomical Society, 2016, 461, 1684-1700. | 1.6 | 16 |
| 54 | Role of cosmic rays in the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2016, 456, 582-601. | 1.6 | 75 |

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| 55 | Formation of massive Population III galaxies through photoionization feedback: a possible explanation for CRÂ7. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L59-L63. | 1.2 | 34 |
| 56 | Cosmological simulations of dwarf galaxies with cosmic ray feedback. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3335-3344. | 1.6 | 20 |
| 57 | SUPERNOVA FEEDBACK AND THE HOT GAS FILLING FRACTION OF THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2015, 814, 4. | 1.6 | 52 |
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| 60 | KINETIC ENERGY FROM SUPERNOVA FEEDBACK IN HIGH-RESOLUTION GALAXY SIMULATIONS. Astrophysical Journal, 2015, 809, 69. | 1.6 | 47 |
| 61 | RAM PRESSURE STRIPPING OF THE LARGE MAGELLANIC CLOUDâ€™S DISK AS A PROBE OF THE MILKY WAYâ€™S CIRCUMGALACTIC MEDIUM. Astrophysical Journal, 2015, 815, 77. | 1.6 | 117 |
| 62 | SUPERNOVA SWEEPING AND BLACK HOLE FEEDBACK IN ELLIPTICAL GALAXIES. Astrophysical Journal Letters, 2015, 803, L21. | 3.0 | 56 |
| 63 | Looking for Population III stars with HeÂii line intensity mapping. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2506-2513. | 1.6 | 26 |
| 64 | Birthing star forming clouds in the grand design. Proceedings of the International Astronomical Union, 2015, 11, . | 0.0 | 2 |
| 65 | Limits on Population III star formation in minihaloes implied byPlanck. Monthly Notices of the Royal Astronomical Society, 2015, 453, 4457-4467. | 1.6 | 48 |
| 66 | AN ADAPTIVE PARTICLE-MESH GRAVITY SOLVER FOR ENZO. Astrophysical Journal, Supplement Series, 2014, 215, 8. | 3.0 | 6 |
| 67 | Direct collapse black hole formation from synchronized pairs of atomic cooling haloes. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1056-1063. | 1.6 | 92 |
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| 69 | H2 suppression with shocking inflows: testing a pathway for supermassive black hole formation. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3798-3807. | 1.6 | 52 |
| 70 | ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. Astrophysical Journal, Supplement Series, 2014, 211, 19. | 3.0 | 615 |
| 71 | COSMOLOGICAL SIMULATIONS OF GALAXY FORMATION WITH COSMIC RAYS. Astrophysical Journal Letters, 2014, 797, L18. | 3.0 | 52 |
| 72 | MODELING ACTIVE GALACTIC NUCLEUS FEEDBACK IN COOL-CORE CLUSTERS: THE FORMATION OF COLD CLUMPS. Astrophysical Journal, 2014, 789, 153. | 1.6 | 128 |

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| 75 | High-redshift star formation in a time-dependent Lymanâ€“Werner background. Monthly Notices of the Royal Astronomical Society, 2014, 445, 107-114. | 1.6 | 62 |
| 76 | MODELING ACTIVE GALACTIC NUCLEUS FEEDBACK IN COOL-CORE CLUSTERS: THE BALANCE BETWEEN HEATING AND COOLING. Astrophysical Journal, 2014, 789, 54. | 1.6 | 117 |
| 77 | A survey of high level frameworks in block-structured adaptive mesh refinement packages. Journal of Parallel and Distributed Computing, 2014, 74, 3217-3227. | 2.7 | 112 |
| 78 | 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 |
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| 82 | Magnetic fields and angular momentum in population III star formation. , 2012, , . | | 0 |
| 83 | Turbulence and small scale dynamo action in population III star formation. , 2012, , . | | 0 |
| 84 | SIMULATING THE COMMON ENVELOPE PHASE OF A RED GIANT USING SMOOTHED-PARTICLE HYDRODYNAMICS AND UNIFORM-GRID CODES. Astrophysical Journal, 2012, 744, 52. | 1.6 | 189 |
| 85 | ADAPTIVE MESH REFINEMENT SIMULATIONS OF GALAXY FORMATION: EXPLORING NUMERICAL AND PHYSICAL PARAMETERS. Astrophysical Journal, 2012, 749, 140. | 1.6 | 37 |
| 86 | GAS CONDENSATION IN THE GALACTIC HALO. Astrophysical Journal, 2012, 745, 148. | 1.6 | 79 |
| 87 | MAGNETIC FIELDS IN POPULATION III STAR FORMATION. Astrophysical Journal, 2012, 745, 154. | 1.6 | 134 |
| 88 | GAS ACCRETION IS DOMINATED BY WARM IONIZED GAS IN MILKY WAY MASS GALAXIES ATzâ‰¼ 0. Astrophysical Journal, 2012, 759, 137. | 1.6 | 54 |
| 89 | SIMULATING THE COOLING FLOW OF COOL-CORE CLUSTERS. Astrophysical Journal, 2012, 747, 26. | 1.6 | 38 |
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| 99 | Relic Hâ€ƒii regions and radiative feedback at high redshifts. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1650-1662. | 1.6 | 23 |
| 100 | GAS STRIPPING IN SIMULATED GALAXIES WITH A MULTIPHASE INTERSTELLAR MEDIUM. Astrophysical Journal, 2009, 694, 789-804. | 1.6 | 194 |
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| 102 | DEPENDENCE OF INTERSTELLAR TURBULENT PRESSURE ON SUPERNOVA RATE. Astrophysical Journal, 2009, 704, 137-149. | 1.6 | 142 |
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| 106 | The Impact of ICM Substructure on Ram Pressure Stripping. Astrophysical Journal, 2008, 684, L9-L12. | 1.6 | 39 |
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| 111 | The H ii Region of a Primordial Star. Astrophysical Journal, 2007, 659, L87-L90. | 1.6 | 138 |
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| 126 | Exploring cosmology applications on distributed environments. Future Generation Computer Systems, 2003, 19, 839-847. | 4.9 | 1 |

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| 130 | Star Formation in a Multi-Phase Interstellar Medium. , 2003, , 539-542. | | 0 |
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| 132 | AChandraHighâ€Energy Transition Grating Spectrometer Observation of the Quasar H1821+643 and Its Surrounding Cluster. Astrophysical Journal, 2002, 565, 86-95. | 1.6 | 28 |
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| 139 | The Metal Enrichment and Temperature of the Intergalactic Medium. Astrophysical Journal, 2001, 546, L81-L85. | 1.6 | 27 |
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| 142 | Confusion of Diffuse Objects in the X-Ray Sky. Astrophysical Journal, 2001, 548, L123-L126. | 1.6 | 17 |
| 143 | Hydrodynamical simulations of the LyÎ±forest: data comparisons. Monthly Notices of the Royal Astronomical Society, 2001, 327, 296-322. | 1.6 | 41 |
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