# David J Mulryne

List of Publications by Year
in descending order

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|---|---|---|---|
| 46 papers | 1,531 citations | 331670 21 h-index | 302126 39 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 679 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | An emergent universe from a loop. Physical Review D, 2005, 71, . | 4.7 | 186 |
| 2 | Derivation of regularized field equations for the Einstein-Gauss-Bonnet theory in four dimensions. Physical Review D, 2020, 102, . | 4.7 | 119 |
| 3 | Oscillatory universes in loop quantum cosmology and initial conditions for inflation. Physical Review D, 2004, 70, . | 4.7 | 95 |
| 4 | Evolution of fNLto the adiabatic limit. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 005-005. | 5.4 | 75 |
| 5 | Dissecting the growth of the power spectrum for primordial black holes. Physical Review D, 2019, 100, . | 4.7 | 73 |
| 6 | Superinflation in loop quantum cosmology. Physical Review D, 2008, 77, . | 4.7 | 63 |
| 7 | Inflationary cosmology and quantization ambiguities in semiclassical loop quantum gravity. Physical Review D, 2004, 70, . | 4.7 | 59 |
| 8 | Attractor behaviour in multifield inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 032-032. | 5.4 | 56 |
| 9 | Graceful entrance to braneworld inflation. Physical Review D, 2006, 73, . | 4.7 | 54 |
| 10 | Inflationary perturbation theory is geometrical optics in phase space. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 010-010. | 5.4 | 49 |
| 11 | Gravitational wave background from superinflation in loop quantum cosmology. Physical Review D, 2009, 79, . | 4.7 | 48 |
| 12 | Observational constraints on the regularized 4D Einstein-Gauss-Bonnet theory of gravity. Physical Review D, 2020, 102, . | 4.7 | 48 |
| 13 | Moment transport equations for the primordial curvature perturbation. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 030-030. | 5.4 | 46 |
| 14 | Moment transport equations for non-Gaussianity. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 024-024. | 5.4 | 42 |
| 15 | Numerical evaluation of the bispectrum in multiple field inflation—the transport approach with code. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 033-033. | 5.4 | 41 |
| 16 | Diffusing nonlocal inflation: Solving the field equations as an initial value problem. Physical Review D, 2008, 78, . | 4.7 | 39 |
| 17 | INFLATIONARY COSMOLOGY AND OSCILLATING UNIVERSES IN LOOP QUANTUM COSMOLOGY. International Journal of Modern Physics A, 2005, 20, 2347-2357. | 1.5 | 33 |
| 18 | Constraints on a scale invariant power spectrum from superinflation in loop quantum cosmology. Physical Review D, 2006, 74, . | 4.7 | 32 |

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|---|---------|----|-----------|
| 19 | Non-Gaussianity from the hybrid potential. Physical Review D, 2011, 84, . | 4.7 | 31 |
| 20 | Transporting non-Gaussianity from sub to super-horizon scales. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 010-010. | 5.4 | 24 |
| 21 | Transport equations for the inflationary trispectrum. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 019-019. | 5.4 | 22 |
| 22 | Three-form inflation and non-Gaussianity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 016-016. | 5.4 | 20 |
| 23 | The squeezed limit of the bispectrum in multi-field inflation. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 018-018. | 5.4 | 20 |
| 24 | Large trispectrum in two-field slow-roll inflation. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 001-001. | 5.4 | 19 |
| 25 | The curvature perturbation at second order. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 040-040. | 5.4 | 19 |
| 26 | Numerically evaluating the bispectrum in curved field-space†" with PyTransport 2.0. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023. | 5.4 | 19 |
| 27 | Dynamics and stability of light-like tachyon condensation. Journal of High Energy Physics, 2009, 2009, 018-018. | 4.7 | 18 |
| 28 | General analytic predictions of two-field inflation and perturbative reheating. Physical Review D, 2014, 89, . | 4.7 | 18 |
| 29 | High-density regime of kinetic-dominated loop quantum cosmology. Physical Review D, 2010, 82, . | 4.7 | 17 |
| 30 | PyTransport: A Python package for the calculation of inflationary correlation functions. Journal of Open Source Software, 2018, 3, 494. | 4.6 | 17 |
| 31 | Nonlinear vector perturbations in a contracting universe. Classical and Quantum Gravity, 2007, 24, 2721-2734. | 4.0 | 16 |
| 32 | Generating the cosmic microwave background power asymmetry with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>g</mml:mi></mml:mrow><mml:mrow><mml:mi>N</mml:mi><mml:m Physical Review D, 2015, 92, . | 4.7 | 16 |
| 33 | Non-linear non-local Cosmology. , 2009, , . | | 13 |
| 34 | Non-Gaussianity in inflationary scenarios for primordial black holes. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 019. | 5.4 | 13 |
| 35 | Non-Gaussianity in multiple three-form field inflation. Physical Review D, 2016, 94, . | 4.7 | 11 |
| 36 | The separate universe approach to soft limits. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 035-035. | 5.4 | 11 |

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|---|---------|-----|-----------|
| 37 | What Planck does not tell us about inflation. Physical Review D, 2013, 88, . | 4.7 | 9 |
| 38 | Exploring two-field inflation in the Wess-Zumino model. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 012-012. | 5.4 | 9 |
| 39 | Linear density perturbations in multifield coupled quintessence. Physical Review D, 2017, 95, . | 4.7 | 8 |
| 40 | Resolving primordial physics through correlated signatures. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 010-010. | 5.4 | 6 |
| 41 | EVOLUTION OF NON-GAUSSIANITY IN MULTI-SCALAR FIELD MODELS. International Journal of Modern Physics Conference Series, 2011, 03, 203-214. | 0.7 | 5 |
| 42 | Primordial curvature perturbation from lattice simulations. Physical Review D, 2019, 100, . | 4.7 | 5 |
| 43 | Towards an observational appraisal of string cosmology. Classical and Quantum Gravity, 2011, 28, 204010. | 4.0 | 4 |
| 44 | Nonperturbative $\delta N$ formalism. Physical Review D, 2018, 98, . | 4.7 | 3 |
| 45 | Non-Gaussianity after many-field reheating. Physical Review D, 2021, 103, . | 4.7 | 0 |
| 46 | TRANSPORT TECHNIQUES FOR NON-GAUSSIANITY. , 2015, , . | | 0 |