# Javier Olmedo

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 52 papers | 1,483 citations | 361413 20 h-index | 315739 38 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 292 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Inflation from inhomogeneous polarized Gowdy model. Classical and Quantum Gravity, 2022, 39, 015001. | 4.0 | 0 |
| 2 | Towards a quantum notion of covariance in spherically symmetric loop quantum gravity. Physical Review D, 2022, 105, . | 4.7 | 7 |
| 3 | Breaking of isospectrality of quasinormal modes in nonrotating loop quantum gravity black holes. Physical Review D, 2022, 105, . | 4.7 | 10 |
| 4 | Reply to "Comment on 'Towards a quantum notion of covariance in spherically symmetric loop quantum gravity'". Physical Review D, 2022, 105, . | 4.7 | 1 |
| 5 | States of low energy in bouncing inflationary scenarios in loop quantum cosmology. Physical Review D, 2021, 103, . | 4.7 | 15 |
| 6 | Loop Quantum Black Hole Extensions Within the Improved Dynamics. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 20 |
| 7 | Non-Oscillatory Power Spectrum From States of Low Energy in Kinetically Dominated Early Universes. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 7 |
| 8 | Observational consequences of Bianchi I spacetimes in loop quantum cosmology. Physical Review D, 2020, 102, . | 4.7 | 12 |
| 9 | Predictions for the Cosmic Microwave Background from an Anisotropic Quantum Bounce. Physical Review Letters, 2020, 124, 251301. | 7.8 | 10 |
| 10 | Properties of a recent quantum extension of the Kruskal geometry. International Journal of Modern Physics D, 2020, 29, 2050076. | 2.1 | 43 |
| 11 | xAct Implementation of the Theory of Cosmological Perturbation in Bianchi I Spacetimes. Mathematics, 2020, 8, 290. | 2.2 | 4 |
| 12 | Hamiltonian theory of classical and quantum gauge invariant perturbations in Bianchi I spacetimes. Physical Review D, 2020, 101, . | 4.7 | 11 |
| 13 | Spherically symmetric loop quantum gravity: analysis of improved dynamics. Classical and Quantum Gravity, 2020, 37, 205012. | 4.0 | 67 |
| 14 | Primordial scalar power spectrum from the hybrid approach in loop cosmologies. Physical Review D, 2020, 102, . | 4.7 | 19 |
| 15 | Classical axisymmetric gravity in real Ashtekar variables. Classical and Quantum Gravity, 2019, 36, 125009. | 4.0 | 6 |
| 16 | Power spectrum of primordial perturbations for an emergent universe in quantum reduced loop gravity. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 030-030. | 5.4 | 12 |
| 17 | Quantum extension of the Kruskal spacetime. Physical Review D, 2018, 98, . | 4.7 | 129 |
| 18 | Quantum Transfiguration of Kruskal Black Holes. Physical Review Letters, 2018, 121, 241301. | 7.8 | 148 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | From black holes to white holes: a quantum gravitational, symmetric bounce. Classical and Quantum Gravity, 2017, 34, 225011. | 4.0 | 92 |
| 20 | Hybrid loop quantum cosmology and predictions for the cosmic microwave background. Physical Review D, 2017, 96, . | 4.7 | 46 |
| 21 | Loop quantization of the Gowdy model with local rotational symmetry. Physical Review D, 2017, 96, . | 4.7 | 12 |
| 22 | Local rotational symmetry Gowdy model in loop quantum gravity. , 2017, , . | | 0 |
| 23 | Brief Review on Black Hole Loop Quantization. Universe, 2016, 2, 12. | 2.5 | 17 |
| 24 | Quantum self-gravitating collapsing matter in a quantum geometry. Classical and Quantum Gravity, 2016, 33, 18LT01. | 4.0 | 28 |
| 25 | Uniqueness of the Fock quantization of scalar fields in a Bianchi I cosmology with unitary dynamics. Physical Review D, 2016, 94, . | 4.7 | 8 |
| 26 | Primordial tensor modes of the early Universe. Physical Review D, 2016, 93, . | 4.7 | 35 |
| 27 | Callan-Giddings-Harvey-Strominger vacuum in loop quantum gravity and singularity resolution. Physical Review D, 2016, 94, . | 4.7 | 11 |
| 28 | Primordial power spectra for scalar perturbations in loop quantum cosmology. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 029-029. | 5.4 | 57 |
| 29 | Schrödinger-like quantum dynamics in loop quantized black holes. International Journal of Modern Physics D, 2016, 25, 1642006. | 2.1 | 3 |
| 30 | Evolution in totally constrained models: Schrödinger vs. Heisenberg pictures. International Journal of Modern Physics D, 2016, 25, 1642004. | 2.1 | 3 |
| 31 | Casimir effect in a quantum space–time. Classical and Quantum Gravity, 2015, 32, 115002. | 4.0 | 4 |
| 32 | UNITARY EVOLUTION AS A UNIQUENESS CRITERION. , 2015, , . | | 0 |
| 33 | HYBRID QUANTIZATION OF AN INHOMOGENEOUS INFLATIONARY SCENARIO. , 2015, , . | | 0 |
| 34 | Cosmological perturbations in hybrid loop quantum cosmology: Mukhanov-Sasaki variables. Physical Review D, 2014, 90, . | 4.7 | 64 |
| 35 | Effective dynamics of scalar perturbations in a flat Friedmann-Robertson-Walker spacetime in loop quantum cosmology. Physical Review D, 2014, 89, . | 4.7 | 34 |
| 36 | Loop Quantum Cosmological Perturbations. Journal of Physics: Conference Series, 2014, 490, 012152. | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Quantum black holes in loop quantum gravity. Classical and Quantum Gravity, 2014, 31, 095009. | 4.0 | 76 |
| 38 | The $\varvec{SL}(2,\mathbb{R})$ S L ( 2 , R ) totally constrained model: three quantization approaches. General Relativity and Gravitation, 2014, 46, 1. | 2.0 | 0 |
| 39 | Complete Quantization of Scalar Cosmological Perturbations. Springer Proceedings in Mathematics and Statistics, 2014, , 261-265. | 0.2 | 0 |
| 40 | Hybrid quantization of an inflationary model: The flat case. Physical Review D, 2013, 88, . | 4.7 | 64 |
| 41 | A complete hybrid quantization in inhomogeneous cosmology. , 2012, , . | | 1 |
| 42 | Criteria for the determination of time dependent scalings in the Fock quantization of scalar fields with a time dependent mass in ultrastatic spacetimes. Physical Review D, 2012, 86, . | 4.7 | 38 |
| 43 | Loops 11: Non-Perturbative / Background Independent Quantum Gravity. Journal of Physics: Conference Series, 2012, 360, 011001. | 0.4 | 0 |
| 44 | Unique Fock quantization of scalar cosmological perturbations. Physical Review D, 2012, 85, . | 4.7 | 44 |
| 45 | Hybrid quantization of an inflationary universe. Physical Review D, 2012, 86, . | 4.7 | 103 |
| 46 | Inflation and inhomogeneities: a hybrid quantization. Journal of Physics: Conference Series, 2012, 360, 012033. | 0.4 | 0 |
| 47 | A uniqueness criterion for the Fock quantization of scalar fields with time-dependent mass. Classical and Quantum Gravity, 2011, 28, 172001. | 4.0 | 41 |
| 48 | Uniqueness of the Fock quantization of fields with unitary dynamics in nonstationary spacetimes. Physical Review D, 2011, 83, . | 4.7 | 28 |
| 49 | Further improvements in the understanding of LQC. Journal of Physics: Conference Series, 2011, 314, 012048. | 0.4 | 1 |
| 50 | Prescriptions in loop quantum cosmology: A comparative analysis. Physical Review D, 2011, 84, . | 4.7 | 49 |
| 51 | A unique Fock quantization for fields in non-stationary spacetimes. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 030-030. | 5.4 | 19 |
| 52 | Further improvements in the understanding of isotropic loop quantum cosmology. Physical Review D, 2009, 80, . | 4.7 | 83 |