# Milton Ruiz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5999982/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 41<br>papers | 1,809<br>citations | 304743<br>22<br>h-index | 265206<br>42<br>g-index |
| 42<br>all docs | 42<br>docs citations | 42<br>times ranked | 1958<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetohydrodynamic Simulations of Self-Consistent Rotating Neutron Stars with Mixed Poloidal and Toroidal Magnetic Fields. Physical Review Letters, 2022, 128, 061101. | 7.8 | 10 |
| 2 | Jet launching from binary neutron star mergers: Incorporating neutrino transport and magnetic fields. Physical Review D, 2022, 105, . | 4.7 | 16 |
| 3 | New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, . | 26.7 | 82 |
| 4 | Gravitational waves from disks around spinning black holes: Simulations in full general relativity. Physical Review D, 2021, 103, . | 4.7 | 8 |
| 5 | Minidisk Dynamics in Accreting, Spinning Black Hole Binaries: Simulations in Full General Relativity. Astrophysical Journal Letters, 2021, 910, L26. | 8.3 | 20 |
| 6 | Multimessenger Binary Mergers Containing Neutron Stars: Gravitational Waves, Jets, and Î³-Ray Bursts. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 17 |
| 7 | Jet launching from merging magnetized binary neutron stars with realistic equations of state. Physical Review D, 2021, 104, . | 4.7 | 7 |
| 8 | Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1. | 2.0 | 198 |
| 9 | Magnetic ergostars, jet formation, and gamma-ray bursts: Ergoregions versus horizons. Physical Review D, 2020, 102, . | 4.7 | 3 |
| 10 | Locating ergostar models in parameter space. Physical Review D, 2020, 101, . | 4.7 | 4 |
| 11 | Great Impostors: Extremely Compact, Merging Binary Neutron Stars in the Mass Gap Posing as Binary Black Holes. Physical Review Letters, 2020, 124, 071101. | 7.8 | 15 |
| 12 | Magnetohydrodynamic simulations of binary neutron star mergers in general relativity: Effects of magnetic field orientation on jet launching. Physical Review D, 2020, 101, . | 4.7 | 37 |
| 13 | Black hole-neutron star coalescence: Effects of the neutron star spin on jet launching and dynamical ejecta mass. Physical Review D, 2020, 102, . | 4.7 | 15 |
| 14 | GW190814: Spin and Equation of State of a Neutron Star Companion. Astrophysical Journal, 2020, 905, 48. | 4.5 | 63 |
| 15 | Are fast radio bursts the most likely electromagnetic counterpart of neutron star mergers resulting in prompt collapse?. Physical Review D, 2019, 100, . | 4.7 | 11 |
| 16 | Effect of spin on the inspiral of binary neutron stars. Physical Review D, 2019, 100, . | 4.7 | 22 |
| 17 | Enabling real-time multi-messenger astrophysics discoveries with deep learning. Nature Reviews Physics, 2019, 1, 600-608. | 26.6 | 53 |
| 18 | Effects of spin on magnetized binary neutron star mergers and jet launching. Physical Review D, 2019, 99, . | 4.7 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetic braking and damping of differential rotation in massive stars. Physical Review D, 2019, 99, . | 4.7 | 11 |
| 20 | Dynamically Stable Ergostars Exist: General Relativistic Models and Simulations. Physical Review Letters, 2019, 123, 231103. | 7.8 | 10 |
| 21 | Disks around merging binary black holes: From GW150914 to supermassive black holes. Physical Review D, 2018, 97, . | 4.7 | 29 |
| 22 | GW170817, general relativistic magnetohydrodynamic simulations, and the neutron star maximum mass. Physical Review D, 2018, 97, . | 4.7 | 345 |
| 23 | The initial boundary value problem for free-evolution formulations of general relativity. Classical and Quantum Gravity, 2018, 35, 015006. | 4.0 | 5 |
| 24 | Constant circulation sequences of binary neutron stars and their spin characterization. Physical Review D, 2018, 98, . | 4.7 | 16 |
| 25 | Simulating the magnetorotational collapse of supermassive stars: Incorporating gas pressure perturbations and different rotation profiles. Physical Review D, 2018, 98, . | 4.7 | 13 |
| 26 | Jet launching from binary black hole-neutron star mergers: Dependence on black hole spin, binary mass ratio, and magnetic field orientation. Physical Review D, 2018, 98, . | 4.7 | 35 |
| 27 | General relativistic magnetohydrodynamics simulations of prompt-collapse neutron star mergers: The absence of jets. Physical Review D, 2017, 96, . | 4.7 | 34 |
| 28 | Magnetorotational collapse of supermassive stars: Black hole formation, gravitational waves, and jets. Physical Review D, 2017, 96, . | 4.7 | 27 |
| 29 | Gravitational wave content and stability of uniformly, rotating, triaxial neutron stars in general relativity. Physical Review D, 2017, 95, . | 4.7 | 9 |
| 30 | BINARY NEUTRON STAR MERGERS: A JET ENGINE FOR SHORT GAMMA-RAY BURSTS. Astrophysical Journal Letters, 2016, 824, L6. | 8.3 | 163 |
| 31 | RELATIVISTIC SIMULATIONS OF BLACK HOLEâ€“NEUTRON STAR COALESCENCE: THE JET EMERGES. Astrophysical Journal Letters, 2015, 806, L14. | 8.3 | 131 |
| 32 | Accretion disks around binary black holes of unequal mass: General relativistic MHD simulations of postdecoupling and merger. Physical Review D, 2014, 90, . | 4.7 | 64 |
| 33 | Pulsar spin-down luminosity: Simulations in general relativity. Physical Review D, 2014, 89, . | 4.7 | 26 |
| 34 | Almost-Killing conserved currents: A general mass function. Physical Review D, 2014, 89, . | 4.7 | 6 |
| 35 | Induced scalarization in boson stars and scalar gravitational radiation. Physical Review D, 2012, 86, . | 4.7 | 23 |
| 36 | The role of the ergosphere in the Blandford-Znajek process. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1300-1308. | 4.4 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Constraint preserving boundary conditions for the Z4c formulation of general relativity. Physical Review D, 2011, 83, . | 4.7 | 56 |
| 38 | Dynamic transition to spontaneous scalarization in boson stars. Physical Review D, 2010, 81, . | 4.7 | 25 |
| 39 | Regularization of spherical and axisymmetric evolution codes in numerical relativity. General Relativity and Gravitation, 2008, 40, 159-182. | 2.0 | 20 |
| 40 | Multiple expansions for energy and momenta carried by gravitational waves. General Relativity and Gravitation, 2008, 40, 1705-1729. | 2.0 | 39 |
| 41 | Outer boundary conditions for Einstein's field equations in harmonic coordinates. Classical and Quantum Gravity, 2007, 24, 6349-6377. | 4.0 | 26 |