

Milton Ruiz

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,809
citations

304743

22
h-index

265206

42
g-index

42
all docs

42
docs citations

42
times ranked

1958
citing authors

#	ARTICLE	IF	CITATIONS
1	GW170817, general relativistic magnetohydrodynamic simulations, and the neutron star maximum mass. <i>Physical Review D</i> , 2018, 97, .	4.7	345
2	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
3	BINARY NEUTRON STAR MERGERS: A JET ENGINE FOR SHORT GAMMA-RAY BURSTS. <i>Astrophysical Journal Letters</i> , 2016, 824, L6.	8.3	163
4	RELATIVISTIC SIMULATIONS OF BLACK HOLE-NEUTRON STAR COALESCENCE: THE JET EMERGES. <i>Astrophysical Journal Letters</i> , 2015, 806, L14.	8.3	131
5	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
6	Accretion disks around binary black holes of unequal mass: General relativistic MHD simulations of postdecoupling and merger. <i>Physical Review D</i> , 2014, 90, .	4.7	64
7	GW190814: Spin and Equation of State of a Neutron Star Companion. <i>Astrophysical Journal</i> , 2020, 905, 48.	4.5	63
8	Constraint preserving boundary conditions for the Z4c formulation of general relativity. <i>Physical Review D</i> , 2011, 83, .	4.7	56
9	Enabling real-time multi-messenger astrophysics discoveries with deep learning. <i>Nature Reviews Physics</i> , 2019, 1, 600-608.	26.6	53
10	Multiple expansions for energy and momenta carried by gravitational waves. <i>General Relativity and Gravitation</i> , 2008, 40, 1705-1729.	2.0	39
11	Effects of spin on magnetized binary neutron star mergers and jet launching. <i>Physical Review D</i> , 2019, 99, .	4.7	39
12	Magnetohydrodynamic simulations of binary neutron star mergers in general relativity: Effects of magnetic field orientation on jet launching. <i>Physical Review D</i> , 2020, 101, .	4.7	37
13	Jet launching from binary black hole-neutron star mergers: Dependence on black hole spin, binary mass ratio, and magnetic field orientation. <i>Physical Review D</i> , 2018, 98, .	4.7	35
14	General relativistic magnetohydrodynamics simulations of prompt-collapse neutron star mergers: The absence of jets. <i>Physical Review D</i> , 2017, 96, .	4.7	34
15	Disks around merging binary black holes: From GW150914 to supermassive black holes. <i>Physical Review D</i> , 2018, 97, .	4.7	29
16	Magnetorotational collapse of supermassive stars: Black hole formation, gravitational waves, and jets. <i>Physical Review D</i> , 2017, 96, .	4.7	27
17	Outer boundary conditions for Einstein's field equations in harmonic coordinates. <i>Classical and Quantum Gravity</i> , 2007, 24, 6349-6377.	4.0	26
18	Pulsar spin-down luminosity: Simulations in general relativity. <i>Physical Review D</i> , 2014, 89, .	4.7	26

#	ARTICLE	IF	CITATIONS
19	Dynamic transition to spontaneous scalarization in boson stars. <i>Physical Review D</i> , 2010, 81, .	4.7	25
20	The role of the ergosphere in the Blandford-Znajek process. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1300-1308.	4.4	24
21	Induced scalarization in boson stars and scalar gravitational radiation. <i>Physical Review D</i> , 2012, 86, .	4.7	23
22	Effect of spin on the inspiral of binary neutron stars. <i>Physical Review D</i> , 2019, 100, .	4.7	22
23	Regularization of spherical and axisymmetric evolution codes in numerical relativity. <i>General Relativity and Gravitation</i> , 2008, 40, 159-182.	2.0	20
24	Minidisk Dynamics in Accreting, Spinning Black Hole Binaries: Simulations in Full General Relativity. <i>Astrophysical Journal Letters</i> , 2021, 910, L26.	8.3	20
25	Multimessenger Binary Mergers Containing Neutron Stars: Gravitational Waves, Jets, and $\hat{\Gamma}^3$ -Ray Bursts. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	17
26	Constant circulation sequences of binary neutron stars and their spin characterization. <i>Physical Review D</i> , 2018, 98, .	4.7	16
27	Jet launching from binary neutron star mergers: Incorporating neutrino transport and magnetic fields. <i>Physical Review D</i> , 2022, 105, .	4.7	16
28	Great Impostors: Extremely Compact, Merging Binary Neutron Stars in the Mass Gap Posing as Binary Black Holes. <i>Physical Review Letters</i> , 2020, 124, 071101.	7.8	15
29	Black hole-neutron star coalescence: Effects of the neutron star spin on jet launching and dynamical ejecta mass. <i>Physical Review D</i> , 2020, 102, .	4.7	15
30	Simulating the magnetorotational collapse of supermassive stars: Incorporating gas pressure perturbations and different rotation profiles. <i>Physical Review D</i> , 2018, 98, .	4.7	13
31	Are fast radio bursts the most likely electromagnetic counterpart of neutron star mergers resulting in prompt collapse?. <i>Physical Review D</i> , 2019, 100, .	4.7	11
32	Magnetic braking and damping of differential rotation in massive stars. <i>Physical Review D</i> , 2019, 99, .	4.7	11
33	Dynamically Stable Ergostars Exist: General Relativistic Models and Simulations. <i>Physical Review Letters</i> , 2019, 123, 231103.	7.8	10
34	Magnetohydrodynamic Simulations of Self-Consistent Rotating Neutron Stars with Mixed Poloidal and Toroidal Magnetic Fields. <i>Physical Review Letters</i> , 2022, 128, 061101.	7.8	10
35	Gravitational wave content and stability of uniformly, rotating, triaxial neutron stars in general relativity. <i>Physical Review D</i> , 2017, 95, .	4.7	9
36	Gravitational waves from disks around spinning black holes: Simulations in full general relativity. <i>Physical Review D</i> , 2021, 103, .	4.7	8

#	ARTICLE	IF	CITATIONS
37	Jet launching from merging magnetized binary neutron stars with realistic equations of state. Physical Review D, 2021, 104, .	4.7	7
38	Almost-Killing conserved currents: A general mass function. Physical Review D, 2014, 89, .	4.7	6
39	The initial boundary value problem for free-evolution formulations of general relativity. Classical and Quantum Gravity, 2018, 35, 015006.	4.0	5
40	Locating ergostar models in parameter space. Physical Review D, 2020, 101, .	4.7	4
41	Magnetic ergostars, jet formation, and gamma-ray bursts: Ergoregions versus horizons. Physical Review D, 2020, 102, .	4.7	3