

Zachariah B Etienne

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,784
citations

23
h-index

42
g-index

45
ext. papers

2,089
ext. citations

4.8
avg, IF

4.56
L-index

#	Paper	IF	Citations
42	Electromagnetic emission from a binary black hole merger remnant in plasma: Field alignment and plasma temperature. <i>Physical Review D</i> , 2021 , 103,	4.9	4
41	High-Sensitivity Accelerometry with a Feedback-Cooled Magnetically Levitated Microsphere. <i>Physical Review Applied</i> , 2021 , 15,	4.3	5
40	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. <i>Astrophysical Journal</i> , 2021 , 919, 95	4.7	6
39	Numerical relativity in spherical coordinates: A new dynamical spacetime and general relativistic MHD evolution framework for the Einstein Toolkit. <i>Physical Review D</i> , 2020 , 101,	4.9	5
38	General relativistic hydrodynamics on a moving-mesh I: static spacetimes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 206-214	4.3	1
37	Active optical table tilt stabilization. <i>Review of Scientific Instruments</i> , 2020 , 91, 076102	1.7	2
36	Enabling real-time multi-messenger astrophysics discoveries with deep learning. <i>Nature Reviews Physics</i> , 2019 , 1, 600-608	23.6	28
35	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
34	Induced spins from scattering experiments of initially nonspinning black holes. <i>Physical Review D</i> , 2019 , 100,	4.9	4
33	Numerical generation of vector potentials from specified magnetic fields. <i>Journal of Computational Physics</i> , 2019 , 379, 421-437	4.1	3
32	Numerical relativity in spherical coordinates with the Einstein Toolkit. <i>Physical Review D</i> , 2018 , 97,	4.9	7
31	SENR/NRPy+: Numerical relativity in singular curvilinear coordinate systems. <i>Physical Review D</i> , 2018 , 97,	4.9	17
30	Improving performance of SEOBNRv3 by ~300%. <i>Classical and Quantum Gravity</i> , 2018 , 35, 155003	3.3	5
29	GiRaFFE: an open-source general relativistic force-free electrodynamics code. <i>Classical and Quantum Gravity</i> , 2017 , 34, 215001	3.3	11
28	Prompt Electromagnetic Transients from Binary Black Hole Mergers. <i>Physical Review D</i> , 2017 , 96,	4.9	22
27	Optimizing spinning time-domain gravitational waveforms for advanced LIGO data analysis. <i>Classical and Quantum Gravity</i> , 2016 , 33, 125025	3.3	16
26	IllinoisGRMHD: an open-source, user-friendly GRMHD code for dynamical spacetimes. <i>Classical and Quantum Gravity</i> , 2015 , 32, 175009	3.3	60

25	Advanced Models of Black Hole–Neutron Star Binaries and Their Astrophysical Impact. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015 , 59-74	0.3	
24	Accretion disks around binary black holes of unequal mass: General relativistic magnetohydrodynamic simulations near decoupling. <i>Physical Review D</i> , 2014 , 89,	4.9	71
23	Accretion disks around binary black holes of unequal mass: General relativistic MHD simulations of postdecoupling and merger. <i>Physical Review D</i> , 2014 , 90,	4.9	44
22	Improved moving puncture gauge conditions for compact binary evolutions. <i>Physical Review D</i> , 2014 , 90,	4.9	7
21	General-relativistic simulations of binary black hole-neutron stars: Precursor electromagnetic signals. <i>Physical Review D</i> , 2013 , 88,	4.9	64
20	Addendum to “The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries” <i>Classical and Quantum Gravity</i> , 2013 , 30, 199401	3.3	21
19	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. <i>Classical and Quantum Gravity</i> , 2013 , 31, 025012	3.3	104
18	Binary black-hole mergers in magnetized disks: simulations in full general relativity. <i>Physical Review Letters</i> , 2012 , 109, 221102	7.4	83
17	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124001	3.3	94
16	Importance of cooling in triggering the collapse of hypermassive neutron stars. <i>Physical Review D</i> , 2012 , 86,	4.9	55
15	General relativistic simulations of black-hole–neutron-star mergers: Effects of magnetic fields. <i>Physical Review D</i> , 2012 , 85,	4.9	72
14	Relativistic magnetohydrodynamics in dynamical spacetimes: Improved electromagnetic gauge condition for adaptive mesh refinement grids. <i>Physical Review D</i> , 2012 , 85,	4.9	57
13	General-relativistic simulations of black-hole–neutron-star mergers: Effects of tilted magnetic fields. <i>Physical Review D</i> , 2012 , 86,	4.9	53
12	Merger of binary white dwarf–neutron stars: Simulations in full general relativity. <i>Physical Review D</i> , 2011 , 84,	4.9	45
11	Head-on collisions of binary white dwarf–neutron stars: Simulations in full general relativity. <i>Physical Review D</i> , 2011 , 83,	4.9	23
10	Relativistic magnetohydrodynamics in dynamical spacetimes: A new adaptive mesh refinement implementation. <i>Physical Review D</i> , 2010 , 82,	4.9	81
9	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 165008	3.3	98
8	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 114003	3.3	36

7	Evolution of near-extremal-spin black holes using the moving puncture technique. <i>Physical Review D</i> , 2009 , 80,	4.9	19
6	General relativistic simulations of black-hole–neutron-star mergers: Effects of black-hole spin. <i>Physical Review D</i> , 2009 , 79,	4.9	122
5	Fully general relativistic simulations of black hole-neutron star mergers. <i>Physical Review D</i> , 2008 , 77,	4.9	115
4	General relativistic simulations of magnetized binary neutron star mergers. <i>Physical Review D</i> , 2008 , 78,	4.9	123
3	Filling the holes: Evolving excised binary black hole initial data with puncture techniques. <i>Physical Review D</i> , 2007 , 76,	4.9	55
2	Relativistic hydrodynamics in the presence of puncture black holes. <i>Physical Review D</i> , 2007 , 76,	4.9	27
1	General relativistic simulations of slowly and differentially rotating magnetized neutron stars. <i>Physical Review D</i> , 2006 , 74,	4.9	23