

Yosef Zlochower

List of Publications by Year in descending order

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78
papers

10,094
citations

76326

40
h-index

62596

80
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80
all docs

80
docs citations

80
times ranked

7578
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	8.3	453
2	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.	4.5	17
3	Mass-ratio and Magnetic Flux Dependence of Modulated Accretion from Circumbinary Disks. <i>Astrophysical Journal</i> , 2021, 922, 175.	4.5	19
4	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, .	4.7	19
5	Properties and Astrophysical Implications of the 150 M_{\odot} Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	8.3	406
6	Hybrid waveforms for generic precessing binaries for gravitational-wave data analysis. <i>Physical Review D</i> , 2020, 102, .	4.7	4
7	Numerical relativity of compact binaries in the 21st century. <i>Reports on Progress in Physics</i> , 2019, 82, 016902.	20.1	56
8	Second RIT binary black hole simulations catalog and its application to gravitational waves parameter estimation. <i>Physical Review D</i> , 2019, 100, .	4.7	50
9	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019, 882, L24.	8.3	566
10	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019, 100, .	4.7	82
11	Comparing an analytical spacetime metric for a merging binary to a fully nonlinear numerical evolution using curvature scalars. <i>Physical Review D</i> , 2018, 97, .	4.7	2
12	Numerical relativity in spherical coordinates with the Einstein Toolkit. <i>Physical Review D</i> , 2018, 97, .	4.7	15
13	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101.	7.8	1,473
14	Evolutions of unequal mass, highly spinning black hole binaries. <i>Physical Review D</i> , 2018, 97, .	4.7	8
15	Puncture initial data for black-hole binaries with high spins and high boosts. <i>Physical Review D</i> , 2017, 95, .	4.7	26
16	Modeling the Black Hole Merger of QSO 3C 186. <i>Astrophysical Journal Letters</i> , 2017, 841, L28.	8.3	11
17	Nonspinning binary black hole merger scenario revisited. <i>Physical Review D</i> , 2017, 96, .	4.7	21
18	Evolutions of nearly maximally spinning black hole binaries using the moving puncture approach. <i>Physical Review D</i> , 2017, 96, .	4.7	15

#	ARTICLE	IF	CITATIONS
19	The RIT binary black hole simulations catalog. <i>Classical and Quantum Gravity</i> , 2017, 34, 224001.	4.0	67
20	Post-Newtonian quasicircular initial orbits for numerical relativity. <i>Classical and Quantum Gravity</i> , 2017, 34, 145011.	4.0	22
21	Inspiraling black-hole binary spacetimes: Challenges in transitioning from analytical to numerical techniques. <i>Physical Review D</i> , 2016, 93, .	4.7	2
22	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016, 116, 221101.	7.8	1,224
23	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016, 116, 241102.	7.8	673
24	Modeling the source of GW150914 with targeted numerical-relativity simulations. <i>Classical and Quantum Gravity</i> , 2016, 33, 244002.	4.0	67
25	High energy collisions of black holes numerically revisited. <i>Physical Review D</i> , 2016, 94, .	4.7	23
26	Perturbative extraction of gravitational waveforms generated with numerical relativity. <i>Physical Review D</i> , 2015, 91, .	4.7	44
27	Modeling the remnant mass, spin, and recoil from unequal-mass, precessing black-hole binaries: The intermediate mass ratio regime. <i>Physical Review D</i> , 2015, 92, .	4.7	43
28	Resolving the relative influence of strong field spacetime dynamics and MHD on circumbinary disk physics. <i>Physical Review D</i> , 2015, 91, .	4.7	20
29	Where angular momentum goes in a precessing black-hole binary. <i>Physical Review D</i> , 2014, 89, .	4.7	15
30	Black hole binary remnant mass and spin: A new phenomenological formula. <i>Physical Review D</i> , 2014, 89, .	4.7	40
31	Remnant mass, spin, and recoil from spin aligned black-hole binaries. <i>Physical Review D</i> , 2014, 90, .	4.7	119
32	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014, 31, 115004.	4.0	42
33	Approximate black hole binary spacetime via asymptotic matching. <i>Physical Review D</i> , 2014, 89, .	4.7	25
34	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.	4.0	28
35	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. <i>Classical and Quantum Gravity</i> , 2013, 31, 025012.	4.0	123
36	Exploring the outer limits of numerical relativity. <i>Physical Review D</i> , 2013, 88, .	4.7	22

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37	Nonlinear gravitational recoil from the mergers of precessing black-hole binaries. <i>Physical Review D</i> , 2013, 87, .	4.7	61
38	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.	4.0	106
39	Accuracy issues for numerical waveforms. <i>Physical Review D</i> , 2012, 86, .	4.7	29
40	Gravitational recoil from accretion-aligned black-hole binaries. <i>Physical Review D</i> , 2012, 85, .	4.7	126
41	CIRCUMBINARY MAGNETOHYDRODYNAMIC ACCRETION INTO INSPIRALING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2012, 755, 51.	4.5	147
42	Study of conformally flat initial data for highly spinning black holes and their early evolutions. <i>Physical Review D</i> , 2012, 85, .	4.7	15
43	Orbital Evolution of Extreme-Mass-Ratio Black-Hole Binaries with Numerical Relativity. <i>Physical Review Letters</i> , 2011, 106, 041101.	7.8	89
44	Perturbative effects of spinning black holes in the extreme mass-ratio limit. <i>Classical and Quantum Gravity</i> , 2011, 28, 134005.	4.0	5
45	Hybrid black-hole binary initial data. <i>Classical and Quantum Gravity</i> , 2011, 28, 134003.	4.0	14
46	Seeking for toroidal event horizons from initially stationary BH configurations. <i>Classical and Quantum Gravity</i> , 2011, 28, 145027.	4.0	10
47	Modeling gravitational recoil from black-hole binaries using numerical relativity. <i>Classical and Quantum Gravity</i> , 2011, 28, 114015.	4.0	21
48	Binary black hole waveform extraction at null infinity. <i>Classical and Quantum Gravity</i> , 2011, 28, 134006.	4.0	20
49	Intermediate-mass-ratio black hole binaries. II. Modeling trajectories and gravitational waveforms. <i>Physical Review D</i> , 2011, 84, .	4.7	35
50	Hangup Kicks: Still Larger Recoils by Partial Spin-Orbit Alignment of Black-Hole Binaries. <i>Physical Review Letters</i> , 2011, 107, 231102.	7.8	161
51	Modeling maximum astrophysical gravitational recoil velocities. <i>Physical Review D</i> , 2011, 83, .	4.7	33
52	Intermediate-Mass-Ratio Black-Hole Binaries: Numerical Relativity Meets Perturbation Theory. <i>Physical Review Letters</i> , 2010, 104, 211101.	7.8	50
53	Remnant masses, spins and recoils from the merger of generic black hole binaries. <i>Classical and Quantum Gravity</i> , 2010, 27, 114006.	4.0	132
54	Post-Newtonian initial data with waves: progress in evolution. <i>Classical and Quantum Gravity</i> , 2010, 27, 114005.	4.0	16

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55	Advances in simulations of generic black-hole binaries. <i>Classical and Quantum Gravity</i> , 2010, 27, 084034.	4.0	13
56	Intermediate-mass-ratio black hole binaries: Intertwining numerical and perturbative techniques. <i>Physical Review D</i> , 2010, 82, .	4.7	67
57	Statistical studies of spinning black-hole binaries. <i>Physical Review D</i> , 2010, 81, .	4.7	45
58	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.	4.0	110
59	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009, 26, 114008.	4.0	39
60	Comparison of numerical and post-Newtonian waveforms for generic precessing black-hole binaries. <i>Physical Review D</i> , 2009, 79, .	4.7	96
61	Algebraic classification of numerical spacetimes and black-hole-binary remnants. <i>Physical Review D</i> , 2009, 79, .	4.7	24
62	Modeling gravitational recoil from precessing highly spinning unequal-mass black-hole binaries. <i>Physical Review D</i> , 2009, 79, .	4.7	76
63	Extra-large remnant recoil velocities and spins from near-extremal-Bowen-York-spin black-hole binaries. <i>Physical Review D</i> , 2008, 78, .	4.7	76
64	Close encounters of three black holes. <i>Physical Review D</i> , 2008, 77, .	4.7	36
65	Further insight into gravitational recoil. <i>Physical Review D</i> , 2008, 77, .	4.7	101
66	Implementation of standard testbeds for numerical relativity. <i>Classical and Quantum Gravity</i> , 2008, 25, 125012.	4.0	39
67	Foundations of multiple-black-hole evolutions. <i>Physical Review D</i> , 2008, 77, .	4.7	79
68	Comparisons of binary black hole merger waveforms. <i>Classical and Quantum Gravity</i> , 2007, 24, S25-S31.	4.0	132
69	Large Merger Recoils and Spin Flips from Generic Black Hole Binaries. <i>Astrophysical Journal</i> , 2007, 659, L5-L8.	4.5	416
70	Maximum Gravitational Recoil. <i>Physical Review Letters</i> , 2007, 98, 231102.	7.8	371
71	Quasilocal linear momentum in black-hole binaries. <i>Physical Review D</i> , 2007, 76, .	4.7	34
72	Practical formula for the radiated angular momentum. <i>Physical Review D</i> , 2007, 76, .	4.7	54

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73	Spin flips and precession in black-hole-binary mergers. Physical Review D, 2007, 75, .	4.7	159
74	Accurate Evolutions of Orbiting Black-Hole Binaries without Excision. Physical Review Letters, 2006, 96, 111101.	7.8	1,068
75	Gravitational wave extraction based on Cauchyâ€œcharacteristic extraction and characteristic evolution. Classical and Quantum Gravity, 2005, 22, 5089-5107.	4.0	38
76	Mode coupling in the nonlinear response of black holes. Physical Review D, 2003, 68, .	4.7	55
77	Retarded radiation from colliding black holes in the close limit. Physical Review D, 2002, 65, .	4.7	22
78	Close limit from a null point of view: The advanced solution. Physical Review D, 2001, 63, .	4.7	19