

# William E East

## List of Publications by Year in descending order

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38  
papers

1,938  
citations

172457

29  
h-index

302126

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g-index

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all docs

39  
docs citations

39  
times ranked

1390  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superradiant Instability and Backreaction of Massive Vector Fields around Kerr Black Holes. <i>Physical Review Letters</i> , 2017, 119, 041101.	7.8	176
2	Beginning inflation in an inhomogeneous universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 010-010.	5.4	121
3	Relativistic simulations of eccentric binary neutron star mergers: One-arm spiral instability and effects of neutron star spin. <i>Physical Review D</i> , 2016, 93, .	4.7	102
4	One-arm spiral instability in hypermassive neutron stars formed by dynamical-capture binary neutron star mergers. <i>Physical Review D</i> , 2015, 92, .	4.7	84
5	ECCENTRIC BLACK-HOLE-NEUTRON-STAR MERGERS. <i>Astrophysical Journal Letters</i> , 2011, 737, L5.	8.3	81
6	Exploring the sensitivity of gravitational wave detectors to neutron star physics. <i>Physical Review D</i> , 2019, 99, .	4.7	78
7	Eccentric black hole-neutron star mergers: Effects of black hole spin and equation of state. <i>Physical Review D</i> , 2012, 85, .	4.7	77
8	Observing complete gravitational wave signals from dynamical capture binaries. <i>Physical Review D</i> , 2013, 87, .	4.7	70
9	Dynamics of Spontaneous Black Hole Scalarization and Mergers in Einstein-Scalar-Gauss-Bonnet Gravity. <i>Physical Review Letters</i> , 2021, 127, 101102.	7.8	69
10	Ultrarelativistic Black Hole Formation. <i>Physical Review Letters</i> , 2013, 110, 101101.	7.8	66
11	Evolution of Einstein-scalar-Gauss-Bonnet gravity using a modified harmonic formulation. <i>Physical Review D</i> , 2021, 103, .	4.7	66
12	DYNAMICAL CAPTURE BINARY NEUTRON STAR MERGERS. <i>Astrophysical Journal Letters</i> , 2012, 760, L4.	8.3	64
13	Massive Boson Superradiant Instability of Black Holes: Nonlinear Growth, Saturation, and Gravitational Radiation. <i>Physical Review Letters</i> , 2018, 121, 131104.	7.8	59
14	Hydrodynamics in full general relativity with conservative adaptive mesh refinement. <i>Physical Review D</i> , 2012, 85, .	4.7	54
15	Gravitational wave signatures of ultralight vector bosons from black hole superradiance. <i>Physical Review D</i> , 2020, 101, .	4.7	53
16	Spacetime dynamics of a Higgs vacuum instability during inflation. <i>Physical Review D</i> , 2017, 95, .	4.7	52
17	KINETIC STUDY OF RADIATION-REACTION-LIMITED PARTICLE ACCELERATION DURING THE RELAXATION OF UNSTABLE FORCE-FREE EQUILIBRIA. <i>Astrophysical Journal</i> , 2016, 828, 92.	4.5	51
18	Can We Distinguish Low-mass Black Holes in Neutron Star Binaries?. <i>Astrophysical Journal</i> , 2018, 856, 110.	4.5	50

#	ARTICLE	IF	CITATIONS
19	Stability of rotating scalar boson stars with nonlinear interactions. <i>Physical Review D</i> , 2021, 103, .	4.7	47
20	Black hole superradiance in dynamical spacetime. <i>Physical Review D</i> , 2014, 89, .	4.7	46
21	Equation of state effects and one-arm spiral instability in hypermassive neutron stars formed in eccentric neutron star mergers. <i>Classical and Quantum Gravity</i> , 2016, 33, 244004.	4.0	46
22	Conformal thin-sandwich solver for generic initial data. <i>Physical Review D</i> , 2012, 86, .	4.7	41
23	Modeling and searching for a stochastic gravitational-wave background from ultralight vector bosons. <i>Physical Review D</i> , 2021, 103, .	4.7	37
24	Evolution of highly eccentric binary neutron stars including tidal effects. <i>Physical Review D</i> , 2018, 98, .	4.7	35
25	ECCENTRIC MERGERS OF BLACK HOLES WITH SPINNING NEUTRON STARS. <i>Astrophysical Journal Letters</i> , 2015, 807, L3.	8.3	34
26	FREELY DECAYING TURBULENCE IN FORCE-FREE ELECTRODYNAMICS. <i>Astrophysical Journal</i> , 2016, 817, 89.	4.5	34
27	Comparing fully general relativistic and Newtonian calculations of structure formation. <i>Physical Review D</i> , 2018, 97, .	4.7	33
28	KINETIC SIMULATIONS OF THE LOWEST-ORDER UNSTABLE MODE OF RELATIVISTIC MAGNETOSTATIC EQUILIBRIA. <i>Astrophysical Journal</i> , 2016, 826, 115.	4.5	31
29	Nonlinear effects in the black hole ringdown: Absorption-induced mode excitation. <i>Physical Review D</i> , 2022, 105, .	4.7	31
30	Binary neutron star mergers: Effects of spin and post-merger dynamics. <i>Physical Review D</i> , 2019, 100, .	4.7	27
31	Spontaneous Decay of Periodic Magnetostatic Equilibria. <i>Physical Review Letters</i> , 2015, 115, 095002.	7.8	24
32	Cosmic Censorship Upheld in Spheroidal Collapse of Collisionless Matter. <i>Physical Review Letters</i> , 2019, 122, 231103.	7.8	22
33	Fate of a neutron star with an endoparasitic black hole and implications for dark matter. <i>Physical Review D</i> , 2019, 100, .	4.7	22
34	Black hole formation from the collision of plane-fronted gravitational waves. <i>Physical Review D</i> , 2018, 98, .	4.7	12
35	Magnetosphere of a spinning black hole and the role of the current sheet. <i>Physical Review D</i> , 2018, 98, .	4.7	11
36	Einstein-Vlasov calculations of structure formation. <i>Physical Review D</i> , 2019, 100, .	4.7	9

#	ARTICLE	IF	CITATIONS
37	Toward observing neutron star collapse with gravitational wave detectors. Physical Review D, 2021, 103, .	4.7	9
38	Nonlinear dynamics of flux compactification. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1