

# Scott E Field

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5285205/publications.pdf>

Version: 2024-02-01

32  
papers

1,950  
citations

279798

23  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Large Recoil Velocity from a Black Hole Merger Signal. <i>Physical Review Letters</i> , 2022, 128, .	7.8	26
2	Eccentric binary black hole surrogate models for the gravitational waveform and remnant properties: Comparable mass, nonspinning case. <i>Physical Review D</i> , 2021, 103, .	4.7	53
3	Genetic-algorithm-optimized neural networks for gravitational wave classification. <i>Neural Computing and Applications</i> , 2021, 33, 13859-13883.	5.6	11
4	Improved analysis of GW190412 with a precessing numerical relativity surrogate waveform model. <i>Physical Review D</i> , 2021, 103, .	4.7	15
5	Bayesian Inference for Gravitational Waves from Binary Neutron Star Mergers in Third Generation Observatories. <i>Physical Review Letters</i> , 2021, 127, 081102.	7.8	21
6	High precision source characterization of intermediate mass-ratio black hole coalescences with gravitational waves: The importance of higher order multipoles. <i>Physical Review D</i> , 2021, 104, .	4.7	5
7	Learning orbital dynamics of binary black hole systems from gravitational wave measurements. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
8	Surrogate model for gravitational wave signals from comparable and large-mass-ratio black hole binaries. <i>Physical Review D</i> , 2020, 101, .	4.7	57
9	Impact of subdominant modes on the interpretation of gravitational-wave signals from heavy binary black hole systems. <i>Physical Review D</i> , 2020, 101, .	4.7	28
10	Constraining the parameters of GW150914 and GW170104 with numerical relativity surrogates. <i>Physical Review D</i> , 2019, 99, .	4.7	32
11	The SXS collaboration catalog of binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2019, 36, 195006.	4.0	217
12	Surrogate model of hybridized numerical relativity binary black hole waveforms. <i>Physical Review D</i> , 2019, 99, .	4.7	153
13	Surrogate models for precessing binary black hole simulations with unequal masses. <i>Physical Review Research</i> , 2019, 1, .	3.6	213
14	Parametrized tests of the strong-field dynamics of general relativity using gravitational wave signals from coalescing binary black holes: Fast likelihood calculations and sensitivity of the method. <i>Physical Review D</i> , 2018, 97, .	4.7	40
15	SpECTRE: A task-based discontinuous Galerkin code for relativistic astrophysics. <i>Journal of Computational Physics</i> , 2017, 335, 84-114.	3.8	77
16	Numerical relativity waveform surrogate model for generically precessing binary black hole mergers. <i>Physical Review D</i> , 2017, 96, .	4.7	134
17	Accelerating parameter estimation of gravitational waves from black hole binaries with reduced order quadratures. , 2017, , .		0
18	A Surrogate model of gravitational waveforms from numerical relativity simulations of precessing binary black hole mergers. <i>Physical Review D</i> , 2017, 95, .	4.7	96

#	ARTICLE	IF	CITATIONS
19	Fast and accurate inference on gravitational waves from precessing compact binaries. Physical Review D, 2016, 94, .	4.7	116
20	Fast and Accurate Prediction of Numerical Relativity Waveforms from Binary Black Hole Coalescences Using Surrogate Models. Physical Review Letters, 2015, 115, 121102.	7.8	124
21	Accelerated Gravitational Wave Parameter Estimation with Reduced Order Modeling. Physical Review Letters, 2015, 114, 071104.	7.8	79
22	Fast Evaluation of Far-Field Signals for Time-Domain Wave Propagation. Journal of Scientific Computing, 2015, 64, 647-669.	2.3	2
23	Modern Gravitational Lens Cosmology for Introductory Physics and Astronomy Students. Physics Teacher, 2015, 53, 266-270.	0.3	10
24	Fast Prediction and Evaluation of Gravitational Waveforms Using Surrogate Models. Physical Review X, 2014, 4, .	8.9	137
25	Two-Step Greedy Algorithm for Reduced Order Quadratures. Journal of Scientific Computing, 2013, 57, 604-637.	2.3	34
26	Gravitational wave parameter estimation with compressed likelihood evaluations. Physical Review D, 2013, 87, .	4.7	52
27	Towards beating the curse of dimensionality for gravitational waves using reduced basis. Physical Review D, 2012, 86, .	4.7	24
28	Numerical simulations with a first-order BSSN formulation of Einstein's field equations. Physical Review D, 2012, 85, .	4.7	29
29	Reduced Basis Catalogs for Gravitational Wave Templates. Physical Review Letters, 2011, 106, 221102.	7.8	76
30	Persistent junk solutions in time-domain modeling of extreme mass ratio binaries. Physical Review D, 2010, 81, .	4.7	16
31	Discontinuous Galerkin method for the spherically reduced Baumgarte-Shapiro-Shibata-Nakamura system with second-order operators. Physical Review D, 2010, 82, .	4.7	35
32	Discontinuous Galerkin method for computing gravitational waveforms from extreme mass ratio binaries. Classical and Quantum Gravity, 2009, 26, 165010.	4.0	36