Manuel Tiglio

List of Publications by Year
in descending order

19	926	687363 13	839539 18
papers	citations	h-index	g-index

20	20	20	1044
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Turduckening black holes: An analytical and computational study. Physical Review D, 2009, 79, .	4.7	174
2	Fast Prediction and Evaluation of Gravitational Waveforms Using Surrogate Models. Physical Review X, 2014, 4, .	8.9	137
3	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
4	Continuum and Discrete Initial-Boundary Value Problems and Einsteinâ€™s Field Equations. Living Reviews in Relativity, 2012, 15, 9.	26.7	106
5	Accelerated Gravitational Wave Parameter Estimation with Reduced Order Modeling. Physical Review Letters, 2015, 114, 071104.	7.8	79
6	Reduced Basis Catalogs for Gravitational Wave Templates. Physical Review Letters, 2011, 106, 221102.	7.8	76
7	Gravitational wave parameter estimation with compressed likelihood evaluations. Physical Review D, 2013, 87, .	4.7	52
8	Two-Step Greedy Algorithm for Reduced Order Quadratures. Journal of Scientific Computing, 2013, 57, 604-637.	2.3	34
9	Numerical simulations with a first-order BSSN formulation of Einsteinâ€™s field equations. Physical Review D, 2012, 85, .	4.7	29
10	Reduced basis representations of multi-mode black hole ringdown gravitational waves. Classical and Quantum Gravity, 2012, 29, 095016.	4.0	24
11	Orbiting binary black hole evolutions with a multipatch high order finite-difference approach. Physical Review D, 2009, 80, .	4.7	20
12	Mode coupling of Schwarzschild perturbations: Ringdown frequencies. Physical Review D, 2010, 82, .	4.7	15
13	Sparse Representations of Gravitational Waves from Precessing Compact Binaries. Physical Review Letters, 2014, 113, 021101.	7.8	15
14	Integrating post-Newtonian equations on graphics processing units. Classical and Quantum Gravity, 2010, 27, 032001.	4.0	11
15	Statistical constraints on binary black hole inspiral dynamics. Classical and Quantum Gravity, 2010, 27, 245007.	4.0	11
16	Reduced order and surrogate models for gravitational waves. Living Reviews in Relativity, 2022, 25, .	26.7	7
17	Gravitational wave surrogates through automated machine learning. Classical and Quantum Gravity, 2022, 39, 085011.	4.0	6
18	On ab initio-based, free and closed-form expressions for gravitational waves. Scientific Reports, 2021, 11, 5832.	3.3	4

#	Article	IF	Citations
19	On the stability and accuracy of the Empirical Interpolation Method and Gravitational Wave Surrogates. Classical and Quantum Gravity, 0, , .	4.0	2