Frank Löffler

List of Publications by Year
in descending order

37 papers	1,593 citations	567281 15 h-index	501196 28 g-index
40 all docs	40 docs citations	40 times ranked	1863 citing authors

#	Article	IF	Citations
1	Machine Learning Pipelines: Provenance, Reproducibility and FAIR Data Principles. Lecture Notes in Computer Science, 2021, , 226-230.	1.3	9
2	Numerical-relativity simulations of long-lived remnants of binary neutron star mergers. Physical Review D, 2020, 101, .	4.7	27
3	An environment for sustainable research software in Germany and beyond: current state, open challenges, and call for action. F1000Research, 2020, 9, 295.	1.6	21
4	Automatic Facet Generation and Selection over Knowledge Graphs. Lecture Notes in Computer Science, 2019, , 310-325.	1.3	8
5	Convective Excitation of Inertial Modes in Binary Neutron Star Mergers. Physical Review Letters, 2018, 120, 221101.	7.8	27
6	Modeling mergers of known galactic systems of binary neutron stars. Classical and Quantum Gravity, 2017, 34, 034001.	4.0	14
7	Spectral analysis of gravitational waves from binary neutron star merger remnants. Physical Review D, 2017, 96, .	4.7	31
8	Sign Learning Kink-based (SiLK) Quantum Monte Carlo for molecular systems. Journal of Chemical Physics, 2016, 144, 014101.	3.0	0
9	Binary neutron star merger simulations with different initial orbital frequency and equation of state. Classical and Quantum Gravity, 2016, 33, 175009.	4.0	26
10	Modeling equal and unequal mass binary neutron star mergers using public codes. Physical Review D, 2016, 93, .	4.7	40
11	A new parallelization scheme for adaptive mesh refinement. Journal of Computational Science, 2016, 16, 79-88.	2.9	11
12	Report on the Third Workshop on Sustainable Software for Science: Practice and Experiences (WSSSPE3). Journal of Open Research Software, 2016, 4, 37.	5.9	15
13	Chemora: A PDE-Solving Framework for Modern High-Performance Computing Architectures. Computing in Science and Engineering, 2015, 17, 53-64.	1.2	5
14	Stiffness effects on the dynamics of the bar-mode instability of neutron stars in full general relativity. Physical Review D, 2015, 91, .	4.7	16
15	Neutron star instabilities in full general relativity using a $\Gamma=2.75$ ideal fluid. Physical Review D, 2014, 90, .	4.7	12
16	GRHydro: a new open-source general-relativistic magnetohydrodynamics code for the Einstein toolkit. Classical and Quantum Gravity, 2014, 31, 015005.	4.0	110
17	A survey of high level frameworks in block-structured adaptive mesh refinement packages. Journal of Parallel and Distributed Computing, 2014, 74, 3217-3227.	4.1	112
18	Inkling: An Executable Paper System for Reviewing Scientific Applications. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	AN INTRODUCTION TO THE EINSTEIN TOOLKIT. International Journal of Modern Physics A, 2013, 28, 1340014.	1.5	55
20	A NEW MONTE CARLO METHOD FOR TIME-DEPENDENT NEUTRINO RADIATION TRANSPORT. Astrophysical Journal, 2012, 755, 111.	4.5	84
21	The Einstein Toolkit: a community computational infrastructure for relativistic astrophysics. Classical and Quantum Gravity, 2012, 29, 115001.	4.0	409
22	The Prickly Pear Archive. , 2012, , .		0
23	Runtime analysis tools for parallel scientific applications. , 2011, , .		2
24	New open-source approaches to the modeling of stellar collapse and the formation of black holes. Astrophysics and Space Science, 2011, 336, 151-156.	1.4	2
25	The Prickly Pear Archive. Procedia Computer Science, 2011, 4, 750-758.	2.0	2
26	A practical and comprehensive graduate course preparing students for research involving scientific computing. Procedia Computer Science, 2011, 4, 1927-1936.	2.0	4
27	Using the TeraGrid to teach scientific computing. , 2011, , .		2
28	Dynamics and Gravitational Wave Signature of Collapsar Formation. Physical Review Letters, 2011, 106, 161103.	7.8	88
29	Simplifying complex software assembly. , 2010, , .		4
30	Component specification in the Cactus Framework: The Cactus Configuration Language. , 2010, , .		8
31	Benchmarking Parallel I/O Performance for a Large Scale Scientific Application on the TeraGrid. Lecture Notes in Computer Science, 2010, , 272-279.	1.3	0
32	Integrating Web 2.0 technologies with scientific simulation codes for real-time collaboration. , 2009, , .		3
33	Computational models of stellar collapse and core-collapse supernovae. Journal of Physics: Conference Series, 2009, 180, 012022.	0.4	14
34	Numerical evolutions of a black hole-neutron star system in full general relativity: Head-on collision. Physical Review D, 2006, 74, .	4.7	72
35	Excision methods for high resolution shock capturing schemes applied to general relativistic hydrodynamics. Physical Review D, 2005, 71, .	4.7	61
36	Three-dimensional relativistic simulations of rotating neutron-star collapse to a Kerr black hole. Physical Review D, 2005, 71, .	4.7	275

#	Article	IF	Citations
37	A virtual â€œWerkstattâ€•for digitization in the sciences. Research Ideas and Outcomes, 0, 6, .	1.0	2