

Frank Löffler

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Einstein Toolkit: a community computational infrastructure for relativistic astrophysics. <i>Classical and Quantum Gravity</i> , 2012, 29, 115001.	4.0	409
2	Three-dimensional relativistic simulations of rotating neutron-star collapse to a Kerr black hole. <i>Physical Review D</i> , 2005, 71, .	4.7	275
3	A survey of high level frameworks in block-structured adaptive mesh refinement packages. <i>Journal of Parallel and Distributed Computing</i> , 2014, 74, 3217-3227.	4.1	112
4	GRHydro: a new open-source general-relativistic magnetohydrodynamics code for the Einstein toolkit. <i>Classical and Quantum Gravity</i> , 2014, 31, 015005.	4.0	110
5	Dynamics and Gravitational Wave Signature of Collapsar Formation. <i>Physical Review Letters</i> , 2011, 106, 161103.	7.8	88
6	A NEW MONTE CARLO METHOD FOR TIME-DEPENDENT NEUTRINO RADIATION TRANSPORT. <i>Astrophysical Journal</i> , 2012, 755, 111.	4.5	84
7	Numerical evolutions of a black hole-neutron star system in full general relativity: Head-on collision. <i>Physical Review D</i> , 2006, 74, .	4.7	72
8	Excision methods for high resolution shock capturing schemes applied to general relativistic hydrodynamics. <i>Physical Review D</i> , 2005, 71, .	4.7	61
9	AN INTRODUCTION TO THE EINSTEIN TOOLKIT. <i>International Journal of Modern Physics A</i> , 2013, 28, 1340014.	1.5	55
10	Modeling equal and unequal mass binary neutron star mergers using public codes. <i>Physical Review D</i> , 2016, 93, .	4.7	40
11	Spectral analysis of gravitational waves from binary neutron star merger remnants. <i>Physical Review D</i> , 2017, 96, .	4.7	31
12	Convective Excitation of Inertial Modes in Binary Neutron Star Mergers. <i>Physical Review Letters</i> , 2018, 120, 221101.	7.8	27
13	Numerical-relativity simulations of long-lived remnants of binary neutron star mergers. <i>Physical Review D</i> , 2020, 101, .	4.7	27
14	Binary neutron star merger simulations with different initial orbital frequency and equation of state. <i>Classical and Quantum Gravity</i> , 2016, 33, 175009.	4.0	26
15	An environment for sustainable research software in Germany and beyond: current state, open challenges, and call for action. <i>F1000Research</i> , 2020, 9, 295.	1.6	21
16	Stiffness effects on the dynamics of the bar-mode instability of neutron stars in full general relativity. <i>Physical Review D</i> , 2015, 91, .	4.7	16
17	Report on the Third Workshop on Sustainable Software for Science: Practice and Experiences (WSSSP3). <i>Journal of Open Research Software</i> , 2016, 4, 37.	5.9	15
18	Computational models of stellar collapse and core-collapse supernovae. <i>Journal of Physics: Conference Series</i> , 2009, 180, 012022.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Modeling mergers of known galactic systems of binary neutron stars. Classical and Quantum Gravity, 2017, 34, 034001.	4.0	14
20	Neutron star instabilities in full general relativity using a $\tilde{\nu}$ ideal fluid. Physical Review D, 2014, 90, .	4.7	12
21	A new parallelization scheme for adaptive mesh refinement. Journal of Computational Science, 2016, 16, 79-88.	2.9	11
22	Machine Learning Pipelines: Provenance, Reproducibility and FAIR Data Principles. Lecture Notes in Computer Science, 2021, , 226-230.	1.3	9
23	Component specification in the Cactus Framework: The Cactus Configuration Language. , 2010, , .		8
24	Automatic Facet Generation and Selection over Knowledge Graphs. Lecture Notes in Computer Science, 2019, , 310-325.	1.3	8
25	Chemora: A PDE-Solving Framework for Modern High-Performance Computing Architectures. Computing in Science and Engineering, 2015, 17, 53-64.	1.2	5
26	Simplifying complex software assembly. , 2010, , .		4
27	A practical and comprehensive graduate course preparing students for research involving scientific computing. Procedia Computer Science, 2011, 4, 1927-1936.	2.0	4
28	Integrating Web 2.0 technologies with scientific simulation codes for real-time collaboration. , 2009, , .		3
29	Runtime analysis tools for parallel scientific applications. , 2011, , .		2
30	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
31	The Prickly Pear Archive. Procedia Computer Science, 2011, 4, 750-758.	2.0	2
32	Using the TeraGrid to teach scientific computing. , 2011, , .		2
33	A virtual "Werkstatt" for digitization in the sciences. Research Ideas and Outcomes, 0, 6, .	1.0	2
34	Inkling: An Executable Paper System for Reviewing Scientific Applications. , 2013, , .		0
35	Sign Learning Kink-based (SiLK) Quantum Monte Carlo for molecular systems. Journal of Chemical Physics, 2016, 144, 014101.	3.0	0
36	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

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37	The Prickly Pear Archive. , 2012, , .		0