

Joshua A Faber

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,269
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1464
citing authors

#	ARTICLE	IF	CITATIONS
1	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. <i>Astrophysical Journal</i> , 2021, 919, 95.	4.5	17
2	Numerical generation of vector potentials from specified magnetic fields. <i>Journal of Computational Physics</i> , 2019, 379, 421-437.	3.8	6
3	Accurate closed-form trajectories of light around a Kerr black hole using asymptotic approximants. <i>Classical and Quantum Gravity</i> , 2018, 35, 205009.	4.0	4
4	An asymptotically consistent approximant for the equatorial bending angle of light due to Kerr black holes. <i>Classical and Quantum Gravity</i> , 2017, 34, 135017.	4.0	15
5	The influence of neutrinos on r-process nucleosynthesis in the ejecta of black hole–neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3907-3919.	4.4	64
6	An efficient radiative cooling approximation for use in hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 25-35.	4.4	12
7	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
8	Binary Neutron Star Mergers. <i>Living Reviews in Relativity</i> , 2012, 15, 8.	26.7	227
9	ACCRETION DISKS AROUND KICKED BLACK HOLES: POST-KICK DYNAMICS. <i>Astrophysical Journal</i> , 2012, 745, 71.	4.5	16
10	Fully general relativistic simulations of black hole-neutron star mergers. <i>Physical Review D</i> , 2008, 77, .	4.7	133
11	Relativistic black hole-neutron star binaries in quasiequilibrium: Effects of the black hole excision boundary condition. <i>Physical Review D</i> , 2008, 77, .	4.7	47
12	Quasiequilibrium black hole-neutron star binaries in general relativity. <i>Physical Review D</i> , 2007, 75, .	4.7	51
13	Filling the holes: Evolving excised binary black hole initial data with puncture techniques. <i>Physical Review D</i> , 2007, 76, .	4.7	79
14	Relativistic hydrodynamics in the presence of puncture black holes. <i>Physical Review D</i> , 2007, 76, .	4.7	32
15	Quasiequilibrium sequences of black-hole–neutron-star binaries in general relativity. <i>Physical Review D</i> , 2006, 74, .	4.7	37
16	Dynamical evolution of black hole-neutron star binaries in general relativity: Simulations of tidal disruption. <i>Physical Review D</i> , 2006, 73, .	4.7	66
17	Black Hole-Neutron Star Binary Merger Calculations: GRB Progenitors and the Stability of Mass Transfer. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	4
18	General Relativistic Binary Merger Simulations and Short Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2006, 641, L93-L96.	4.5	84

#	ARTICLE	IF	CITATIONS
19	Black hole-neutron star binaries in general relativity: Effects of neutron star spin. Physical Review D, 2005, 72, .	4.7	50
20	Mergers of irrotational neutron star binaries in conformally flat gravity. Physical Review D, 2004, 69, .	4.7	32
21	Probing the neutron star equation of state with gravitational wave detectors. , 2003, 4856, 156.		0
22	Measuring Neutron-Star Radii with Gravitational-Wave Detectors. Physical Review Letters, 2002, 89, 231102.	7.8	66
23	Post-Newtonian SPH calculations of binary neutron star coalescence. III. Irrotational systems and gravitational wave spectra. Physical Review D, 2002, 65, .	4.7	29
24	Post-Newtonian smoothed particle hydrodynamics calculations of binary neutron star coalescence. II. Binary mass ratio, equation of state, and spin dependence. Physical Review D, 2001, 63, .	4.7	40
25	Post-Newtonian SPH calculations of binary neutron star coalescence: Method and first results. Physical Review D, 2000, 62, .	4.7	47