Joshua A Faber

List of Publications by Year
in descending order

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	Binary Neutron Star Mergers. Living Reviews in Relativity, 2012, 15, 8.	26.7	227
2	Fully general relativistic simulations of black hole-neutron star mergers. Physical Review D, 2008, 77, .	4.7	133
3	GRHydro: a new open-source general-relativistic magnetohydrodynamics code for the Einstein toolkit. Classical and Quantum Gravity, 2014, 31, 015005.	4.0	110
4	General Relativistic Binary Merger Simulations and Short Gamma-Ray Bursts. Astrophysical Journal, 2006, 641, L93-L96.	4.5	84
5	Filling the holes: Evolving excised binary black hole initial data with puncture techniques. Physical Review D, 2007, 76, .	4.7	79
6	Measuring Neutron-Star Radii with Gravitational-Wave Detectors. Physical Review Letters, 2002, 89, 231102.	7.8	66
7	Dynamical evolution of black hole-neutron star binaries in general relativity: Simulations of tidal disruption. Physical Review D, 2006, 73, .	4.7	66
8	The influence of neutrinos on r-process nucleosynthesis in the ejecta of black holeâ€“neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3907-3919.	4.4	64
9	Quasiequilibrium black hole-neutron star binaries in general relativity. Physical Review D, 2007, 75, .	4.7	51
10	Black hole-neutron star binaries in general relativity: Effects of neutron star spin. Physical Review D, 2005, 72, .	4.7	50
11	Post-Newtonian SPH calculations of binary neutron star coalescence: Method and first results. Physical Review D, 2000, 62, .	4.7	47
12	Relativistic black hole-neutron star binaries in quasiequilibrium: Effects of the black hole excision boundary condition. Physical Review D, 2008, 77, .	4.7	47
13	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
14	Quasiequilibrium sequences of black-holeâ€“neutron-star binaries in general relativity. Physical Review D, 2006, 74, .	4.7	37
15	Mergers of irrotational neutron star binaries in conformally flat gravity. Physical Review D, 2004, 69, .	4.7	32
16	Relativistic hydrodynamics in the presence of puncture black holes. Physical Review D, 2007, 76, .	4.7	32
17	Post-Newtonian SPH calculations of binary neutron star coalescence. III. Irrotational systems and gravitational wave spectra. Physical Review D, 2002, 65, .	4.7	29
18	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. Astrophysical Journal, 2021, 919, 95.	4.5	17

#	Article	IF	Citations
19	ACCRETION DISKS AROUND KICKED BLACK HOLES: POST-KICK DYNAMICS. Astrophysical Journal, 2012, 745, 71.	4.5	16
20	An asymptotically consistent approximant for the equatorial bending angle of light due to Kerr black holes. Classical and Quantum Gravity, 2017, 34, 135017.	4.0	15
21	An efficient radiative cooling approximation for use in hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2015, 447, 25-35.	4.4	12
22	Numerical generation of vector potentials from specified magnetic fields. Journal of Computational Physics, 2019, 379, 421-437.	3.8	6
23	Black Hole-Neutron Star Binary Merger Calculations: GRB Progenitors and the Stability of Mass Transfer. AIP Conference Proceedings, 2006, , .	0.4	4
24	Accurate closed-form trajectories of light around a Kerr black hole using asymptotic approximants. Classical and Quantum Gravity, 2018, 35, 205009.	4.0	4
25	Probing the neutron star equation of state with gravitational wave detectors. , 2003, 4856, 156.		0