Carsten Gundlach

List of Publications by Year
in descending order

21 papers	951 citations	687363 13 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	431 citing authors

#	Article	IF	Citations
1	Critical collapse of a spherically symmetric ultrarelativistic fluid in 2+1 dimensions. Physical Review D, 2021, 103, .	4.7	3
2	Fully constrained, high-resolution shock-capturing, formulation of the Einstein-fluid equations in 2+1 dimensions. Physical Review D, 2021, 104, .	4.7	1
3	Critical collapse of an axisymmetric ultrarelativistic fluid in 2+1 dimensions. Physical Review D, 2021, 104, .	4.7	1
4	Rigidly rotating perfect fluid stars in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> dimensions. Physical Review D, 2020, 102, .	4.7	6
5	Critical phenomena in gravitational collapse with two competing massless matter fields. Physical Review D, 2019, 100, .	4.7	7
6	Critical Phenomena in the Gravitational Collapse of Electromagnetic Waves. Physical Review Letters, 2019, 123, 171103.	7.8	16
7	Critical gravitational collapse with angular momentum. II. Soft equations of state. Physical Review D, 2018, 97, .	4.7	11
8	Critical collapse of a rotating scalar field in 2+1 dimensions. Physical Review D, 2017, 95, .	4.7	7
9	Critical gravitational collapse with angular momentum. Physical Review D, 2016, 94, .	4.7	12
10	Critical Collapse of Rotating Radiation Fluids. Physical Review Letters, 2016, 116, 221103.	7.8	24
11	Scalar field critical collapse in2+1dimensions. Physical Review D, 2015, 92, .	4.7	13
12	Critical phenomena at the threshold of immediate merger in binary black hole systems: The extreme mass ratio case. Physical Review D, 2012, 86, .	4.7	17
13	Critical Phenomena in Gravitational Collapse. Living Reviews in Relativity, 2007, 10, 5.	26.7	220
14	Critical phenomena in gravitational collapse. Physics Reports, 2003, 376, 339-405.	25.6	129
15	Global structure of Choptuikâ€™s critical solution in scalar field collapse. Physical Review D, 2003, 68, .	4.7	27
16	Critical gravitational collapse of a perfect fluid: Nonspherical perturbations. Physical Review D, 2002, 65, .	4.7	23
17	All nonspherical perturbations of the Choptuik spacetime decay. Physical Review D, 1999, 59, .	4.7	49
18	Echoing and scaling in Einstein-Yang-Mills critical collapse. Physical Review D, 1997, 55, 6002-6013.	4.7	32

#	Article	IF	Citations
19	Understanding critical collapse of a scalar field. Physical Review D, 1997, 55, 695-713.	4.7	99
20	Choptuik Spacetime as an Eigenvalue Problem. Physical Review Letters, 1995, 75, 3214-3217.	7.8	87
21	Late-time behavior of stellar collapse and explosions. II. Nonlinear evolution. Physical Review D, 1994, 49, 890-899.	4.7	167