

David A Nichols

List of Publications by Year in descending order

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papers

2,540
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304743

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docs citations

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times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent gravitational wave observables: Curve deviation in asymptotically flat spacetimes. Physical Review D, 2022, 105, .	4.7	15
2	Measuring the dark matter environments of black hole binaries with gravitational waves. Physical Review D, 2022, 105, .	4.7	29
3	Brans-Dicke theory in Bondi-Sachs form: Asymptotically flat solutions, asymptotic symmetries, and gravitational-wave memory effects. Physical Review D, 2021, 103, .	4.7	24
4	Definitions of angular momentum and super angular momentum in asymptotically flat spacetimes: Properties and applications to compact-binary mergers. Physical Review D, 2021, 104, .	4.7	5
5	Gravitational-wave memory effects in Brans-Dicke theory: Waveforms and effects in the post-Newtonian approximation. Physical Review D, 2021, 104, .	4.7	18
6	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
7	Detecting dark matter around black holes with gravitational waves: Effects of dark-matter dynamics on the gravitational waveform. Physical Review D, 2020, 102, .	4.7	63
8	Persistent gravitational wave observables: Nonlinear plane wave spacetimes. Physical Review D, 2020, 101, .	4.7	7
9	Forecasts for detecting the gravitational-wave memory effect with Advanced LIGO and Virgo. Physical Review D, 2020, 101, .	4.7	41
10	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$. <i>EPJ Web of Conferences</i> , 2020, 230, 01001.	4.0	41
11	Center-of-mass angular momentum and memory effect in asymptotically flat spacetimes. Physical Review D, 2018, 98, .	4.7	45
12	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.3	9
13	Conserved charges of the extended Bondi-Metzner-Sachs algebra. Physical Review D, 2017, 95, .	4.7	117
14	Illuminating gravitational waves: A concordant picture of photons from a neutron star merger. Science, 2017, 358, 1559-1565.	12.6	559
15	A radio counterpart to a neutron star merger. Science, 2017, 358, 1579-1583.	12.6	390
16	Spin memory effect for compact binaries in the post-Newtonian approximation. Physical Review D, 2017, 95, .	4.7	56
17	Testing general relativity using golden black-hole binaries. Physical Review D, 2016, 94, .	4.7	80
18	Properties of an affine transport equation and its holonomy. General Relativity and Gravitation, 2016, 48, 1.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Prescriptions for measuring and transporting local angular momenta in general relativity. <i>Physical Review D</i> , 2016, 93, .	4.7	11
20	Observer dependence of angular momentum in general relativity and its relationship to the gravitational-wave memory effect. <i>Physical Review D</i> , 2015, 92, .	4.7	24
21	Comparison of electromagnetic and gravitational radiation: What we can learn about each from the other. <i>American Journal of Physics</i> , 2013, 81, 575-584.	0.7	8
22	Branching of quasinormal modes for nearly extremal Kerr black holes. <i>Physical Review D</i> , 2013, 87, .	4.7	66
23	Quasinormal-mode spectrum of Kerr black holes and its geometric interpretation. <i>Physical Review D</i> , 2012, 86, .	4.7	137
24	Hybrid method for understanding black-hole mergers: Inspiralling case. <i>Physical Review D</i> , 2012, 85, .	4.7	13
25	Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes. III. Quasinormal pulsations of Schwarzschild and Kerr black holes. <i>Physical Review D</i> , 2012, 86, .	4.7	29
26	Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes. II. Stationary black holes. <i>Physical Review D</i> , 2012, 86, .	4.7	25
27	Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes: General theory and weak-gravity applications. <i>Physical Review D</i> , 2011, 84, .	4.7	64
28	Frame-Dragging Vortexes and Tidal Tendexes Attached to Colliding Black Holes: Visualizing the Curvature of Spacetime. <i>Physical Review Letters</i> , 2011, 106, 151101.	7.8	66
29	Classifying the isolated zeros of asymptotic gravitational radiation by tendex and vortex lines. <i>Physical Review D</i> , 2011, 84, .	4.7	16
30	Momentum flow in black-hole binaries. II. Numerical simulations of equal-mass, head-on mergers with antiparallel spins. <i>Physical Review D</i> , 2010, 82, .	4.7	30
31	Hybrid method for understanding black-hole mergers: Head-on case. <i>Physical Review D</i> , 2010, 82, .	4.7	13
32	Momentum flow in black-hole binaries. I. Post-Newtonian analysis of the inspiral and spin-induced bobbing. <i>Physical Review D</i> , 2009, 80, .	4.7	20
33	Post-Newtonian approximation in Maxwell-like form. <i>Physical Review D</i> , 2009, 80, .	4.7	28