

David A Nichols

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4673854/publications.pdf>

Version: 2024-02-01

33
papers

2,540
citations

304743

22
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	Illuminating gravitational waves: A concordant picture of photons from a neutron star merger. <i>Science</i> , 2017, 358, 1559-1565.	12.6	559
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	26.7	447
3	A radio counterpart to a neutron star merger. <i>Science</i> , 2017, 358, 1579-1583.	12.6	390
4	Quasinormal-mode spectrum of Kerr black holes and its geometric interpretation. <i>Physical Review D</i> , 2012, 86, .	4.7	137
5	Conserved charges of the extended Bondi-Metzner-Sachs algebra. <i>Physical Review D</i> , 2017, 95, .	4.7	117
6	Testing general relativity using golden black-hole binaries. <i>Physical Review D</i> , 2016, 94, .	4.7	80
7	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
8	Branching of quasinormal modes for nearly extremal Kerr black holes. <i>Physical Review D</i> , 2013, 87, .	4.7	66
9	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
10	Detecting dark matter around black holes with gravitational waves: Effects of dark-matter dynamics on the gravitational waveform. <i>Physical Review D</i> , 2020, 102, .	4.7	63
11	Spin memory effect for compact binaries in the post-Newtonian approximation. <i>Physical Review D</i> , 2017, 95, .	4.7	56
12	Center-of-mass angular momentum and memory effect in asymptotically flat spacetimes. <i>Physical Review D</i> , 2018, 98, .	4.7	45
13	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $\langle \dot{h} \rangle$ ($\langle \dot{t} \rangle$) Tj ETQq1 1 0.784314 rgBT /Over 4.0 41	4.7	41
14	Forecasts for detecting the gravitational-wave memory effect with Advanced LIGO and Virgo. <i>Physical Review D</i> , 2020, 101, .	4.7	41
15	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
16	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
17	Measuring the dark matter environments of black hole binaries with gravitational waves. <i>Physical Review D</i> , 2022, 105, .	4.7	29
18	Post-Newtonian approximation in Maxwell-like form. <i>Physical Review D</i> , 2009, 80, .	4.7	28

#	ARTICLE	IF	CITATIONS
19	Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes. II. Stationary black holes. Physical Review D, 2012, 86, .	4.7	25
20	Observer dependence of angular momentum in general relativity and its relationship to the gravitational-wave memory effect. Physical Review D, 2015, 92, .	4.7	24
21	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
22	Momentum flow in black-hole binaries. I. Post-Newtonian analysis of the inspiral and spin-induced bobbing. Physical Review D, 2009, 80, .	4.7	20
23	Gravitational-wave memory effects in Brans-Dicke theory: Waveforms and effects in the post-Newtonian approximation. Physical Review D, 2021, 104, .	4.7	18
24	Classifying the isolated zeros of asymptotic gravitational radiation by tendex and vortex lines. Physical Review D, 2011, 84, .	4.7	16
25	Persistent gravitational wave observables: Curve deviation in asymptotically flat spacetimes. Physical Review D, 2022, 105, .	4.7	15
26	Hybrid method for understanding black-hole mergers: Head-on case. Physical Review D, 2010, 82, .	4.7	13
27	Hybrid method for understanding black-hole mergers: Inspiralling case. Physical Review D, 2012, 85, .	4.7	13
28	Prescriptions for measuring and transporting local angular momenta in general relativity. Physical Review D, 2016, 93, .	4.7	11
29	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.3	9
30	Comparison of electromagnetic and gravitational radiation: What we can learn about each from the other. American Journal of Physics, 2013, 81, 575-584.	0.7	8
31	Persistent gravitational wave observables: Nonlinear plane wave spacetimes. Physical Review D, 2020, 101, .	4.7	7
32	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
33	Properties of an affine transport equation and its holonomy. General Relativity and Gravitation, 2016, 48, 1.	2.0	3