

DaniÃle A Steer

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

9,228
citations

94433

37
h-index

60623

81
g-index

84
all docs

84
docs citations

84
times ranked

5503
citing authors

#	ARTICLE	IF	CITATIONS
1	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020, 896, L44.	8.3	1,090
2	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{A}^{1/4} \hat{A}^{3.4} M_{\text{sub}} \hat{S}^{\text{TM}}$. <i>Astrophysical Journal Letters</i> , 2020, 892, L3.	8.3	1,049
3	From $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -essence to generalized Galileons. <i>Physical Review D</i> , 2011, 84, .	4.7	845
4	GW190521: A Binary Black Hole Merger with a Total Mass of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 150 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{A}^{\%} \langle \text{mml:mtext} \rangle \hat{A}^{\%} \langle \text{mml:mtext} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review Letters</i> , 2020, 125, 101102.	7.8	836
5	Observation of Gravitational Waves from Two Neutron Star "Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	8.3	453
6	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
7	Properties and Astrophysical Implications of the 150 $M_{\text{sub}} \hat{S}^{\text{TM}}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	8.3	406
8	Beyond $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si33.gif" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle \hat{l} \langle \text{mml:mi} \rangle \langle \text{mml:mstyle mathvariant="normal"} \rangle \langle \text{mml:mi} \rangle \text{CDM} \langle \text{mml:mi} \rangle \langle \text{mml:mstyle} \rangle \langle \text{mml:math} \rangle$: Problems, solutions, and the road ahead. <i>Physics of the Dark Universe</i> , 2016, 12, 56-99.	4.9	361
9	Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo. <i>SoftwareX</i> , 2021, 13, 100658.	2.6	275
10	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019, 123, 231108.	7.8	254
11	Primordial perturbations and non-Gaussianities in DBI and general multifield inflation. <i>Physical Review D</i> , 2008, 78, .	4.7	193
12	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary "Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019, 876, L7.	8.3	179
13	Probing the gravitational wave background from cosmic strings with LISA. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 034-034.	5.4	164
14	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13.	8.3	145
15	Primordial Fluctuations and Non-Gaussianities in Multifield Dirac-Born-Infeld Inflation. <i>Physical Review Letters</i> , 2008, 101, 061301.	7.8	144
16	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	4.5	144
17	A formal introduction to Horndeski and Galileon theories and their generalizations. <i>Classical and Quantum Gravity</i> , 2013, 30, 214006.	4.0	132
18	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	7.8	119

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19	Inflation and primordial non-Gaussianities of α -generalized Galileons. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 019-019.	5.4	107
20	Tachyon inflation: Tests and comparison with single scalar field inflation. Physical Review D, 2004, 70, .	4.7	102
21	Cosmological inference using gravitational wave standard sirens: A mock data analysis. Physical Review D, 2020, 101, .	4.7	95
22	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. Astrophysical Journal, 2019, 879, 10.	4.5	88
23	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. Physical Review Letters, 2021, 126, 241102.	7.8	87
24	Counting the degrees of freedom of generalized Galileons. Physical Review D, 2015, 92, .	4.7	85
25	Collisions of Strings with Y Junctions. Physical Review Letters, 2006, 97, 021602.	7.8	74
26	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149.	4.5	72
27	Constraints on string networks with junctions. Physical Review D, 2007, 75, .	4.7	65
28	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21.	8.3	65
29	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. Astrophysical Journal, 2019, 875, 122.	4.5	61
30	Multi-field DBI inflation: introducing bulk forms and revisiting the gravitational wave constraints. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 021-021.	5.4	59
31	On the importance of source population models for gravitational-wave cosmology. Physical Review D, 2021, 104, .	4.7	48
32	Collision of cosmic superstrings. Physical Review D, 2008, 77, .	4.7	45
33	Probing modified gravity theories and cosmology using gravitational-waves and associated electromagnetic counterparts. Physical Review D, 2020, 102, .	4.7	41
34	Evolution of a network of cosmic string loops. Physical Review D, 1998, 58, .	4.7	40
35	Radio broadcasts from superconducting strings. Physical Review D, 2012, 86, .	4.7	40
36	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 921, 80.	4.5	39

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37	Kinematic constraints on formation of bound states of cosmic strings: Field theoretical approach. <i>Physical Review D</i> , 2008, 77, .	4.7	38
38	Inflationary potentials yielding constant scalar perturbation spectral indices. <i>Physical Review D</i> , 2004, 69, .	4.7	38
39	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , 2020, 125, 131101.	7.8	35
40	Creating Kinks from Particles. <i>Physical Review Letters</i> , 2008, 101, 121601.	7.8	34
41	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019, 870, 134.	4.5	32
42	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021, 913, L27.	8.3	32
43	Gravitational wave signatures from kink proliferation on cosmic (super-) strings. <i>Physical Review D</i> , 2010, 82, .	4.7	30
44	Scaling configurations of cosmic superstring networks and their cosmological implications. <i>Physical Review D</i> , 2011, 83, .	4.7	30
45	Gravitational wave bursts from cosmic superstrings with Y-junctions. <i>Physical Review D</i> , 2009, 80, .	4.7	29
46	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019, 886, 75.	4.5	29
47	Particle emission and gravitational radiation from cosmic strings: Observational constraints. <i>Physical Review D</i> , 2020, 101, .	4.7	29
48	Rotating spacetimes with a cosmological constant. <i>Journal of High Energy Physics</i> , 2007, 2007, 064-064.	4.7	28
49	Dynamics and properties of chiral cosmic strings in Minkowski space. <i>Physical Review D</i> , 2000, 62, .	4.7	27
50	Dirac Born Infeld (DBI) cosmic strings. <i>Journal of High Energy Physics</i> , 2009, 2009, 091-091.	4.7	26
51	Constraints on the Fundamental String Coupling from B-Mode Experiments. <i>Physical Review Letters</i> , 2011, 107, 121301.	7.8	26
52	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163.	4.5	26
53	Cosmic string loop production functions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 015-015.	5.4	24
54	Evolution and stability of cosmic string loops with Y-junctions. <i>Physical Review D</i> , 2009, 80, .	4.7	20

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55	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
56	Non-BPS Brane Cosmology. Journal of High Energy Physics, 2002, 2002, 016-016.	4.7	17
57	Gravitational wave observations, distance measurement uncertainties, and cosmology. Physical Review D, 2019, 100, .	4.7	17
58	Brane Gas Inflation. Journal of High Energy Physics, 2002, 2002, 032-032.	4.7	16
59	Perturbations on a moving D3-brane and mirage cosmology. Physical Review D, 2002, 66, .	4.7	15
60	Proliferation of sharp kinks on cosmic (super)string loops with junctions. Physical Review D, 2010, 82, .	4.7	15
61	Light from cosmic strings. Physical Review D, 2011, 83, .	4.7	15
62	Brane Cosmology, Varying Speed of Light and Inflation in Models with One or More Extra Dimensions. International Journal of Theoretical Physics, 2002, 41, 2255-2286.	1.2	14
63	Singular tachyon kinks from regular profiles. Physical Review D, 2003, 68, .	4.7	14
64	On multi-field flows in gravity and holography. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
65	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. Astrophysical Journal, 2020, 893, 100.	4.5	12
66	Cosmological parameter dependence in local string theories of structure formation. Physical Review D, 2000, 61, .	4.7	10
67	Self-intersections and gravitational properties of chiral cosmic strings in Minkowski space. Physical Review D, 2001, 63, .	4.7	9
68	Irreducible cosmic production of relic vortons. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 098.	5.4	9
69	Statistical physics of cosmological networks of string loops. Physical Review D, 1999, 60, .	4.7	7
70	Symplectic structure for elastic and chiral conducting cosmic string models. Physical Review D, 2004, 69, .	4.7	7
71	Statistical mechanics of strings with Y-junctions. Physical Review D, 2008, 78, .	4.7	7
72	Triplcation of SU(5) Monopoles. Physical Review Letters, 2003, 90, 061801.	7.8	5

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73	Wick's theorem for nonsymmetric normal ordered products and contractions. Journal of Mathematical Physics, 1998, 39, 5726-5738.	1.1	3
74	Domain walls and fermion scattering in grand unified models. Physical Review D, 2006, 73, .	4.7	3
75	Y-junction intercommutations of current carrying strings. Physical Review D, 2018, 97, .	4.7	3
76	Superimposed oscillations in brane inflation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 032-032.	5.4	2
77	Translation invariant time-dependent massive gravity: Hamiltonian analysis. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 034-034.	5.4	2
78	On normal ordering and canonical transformations in thermal field theory. Journal of Physics A, 1999, 32, 1185-1195.	1.6	1
79	Cosmic superstring networks with Y-junctions: Evolution, B-modes and gravitational waves. Journal of Physics: Conference Series, 2014, 544, 012028.	0.4	0
80	Measuring Cosmological Parameters with Gravitational Waves. , 2022, , 1821-1871.		0