Daniel E Holz

List of Publications by Year
in descending order

140 papers	18,649 citations	15504 65 h-index	11607 135 g-index
141 all docs	141 docs citations	141 times ranked	8761 citing authors

#	Article	IF	Citations
1	Probing Extremal Gravitational-wave Events with Coarse-grained Likelihoods. Astrophysical Journal, 2022, 926, 34.	4.5	15
2	Please Repeat: Strong Lensing of Gravitational Waves as a Probe of Compact Binary and Galaxy Populations. Astrophysical Journal, 2022, 929, 9.	4.5	26
3	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Journal of High Energy Astrophysics, 2022, 34, 49-211.	6.7	350
4	SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*. Astrophysical Journal, 2022, 929, 115.	4.5	9
5	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
6	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. Astrophysical Journal, Supplement Series, 2022, 260, 18.	7.7	21
7	Bridging the Gap: Categorizing Gravitational-wave Events at the Transition between Neutron Stars and Black Holes. Astrophysical Journal, 2022, 931, 108.	4.5	25
8	Distance measures in gravitational-wave astrophysics and cosmology. Classical and Quantum Gravity, 2021, 38, 055010.	4.0	62
9	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
10	Jumping the Gap: Searching for LIGOâ€™s Biggest Black Holes. Astrophysical Journal Letters, 2021, 909, L23.	8.3	47
11	Phase effects from strong gravitational lensing of gravitational waves. Physical Review D, 2021, 103, .	4.7	53
12	One Channel to Rule Them All? Constraining the Origins of Binary Black Holes Using Multiple Formation Pathways. Astrophysical Journal, 2021, 910, 152.	4.5	177
13	When Are LIGO/Virgoâ€™s Big Black Hole Mergers?. Astrophysical Journal, 2021, 912, 98.	4.5	48
14	Black Hole Leftovers: The Remnant Population from Binary Black Hole Mergers. Astrophysical Journal Letters, 2021, 914, L18.	8.3	19
15	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. Astroparticle Physics, 2021, 131, 102605.	4.3	228
16	Cosmology with Love: Measuring the Hubble constant using neutron star universal relations. Physical Review D, 2021, 104, .	4.7	20
17	The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Starâ€“Black Hole Merger GW190814. Astrophysical Journal, 2021, 923, 258.	4.5	19
18	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

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19	Cosmological inference using gravitational wave standard sirens: A mock data analysis. Physical Review D, 2020, 101, .	4.7	95
20	Nonparametric inference of neutron star composition, equation of state, and maximum mass with GW170817. Physical Review D, 2020, 101, .	4.7	108
21	Direct astrophysical tests of chiral effective field theory at supranuclear densities. Physical Review C, 2020, 102, .	2.9	73
22	Shouts and Murmurs: Combining Individual Gravitational-wave Sources with the Stochastic Background to Measure the History of Binary Black Hole Mergers. Astrophysical Journal Letters, 2020, 896, L32.	8.3	51
23	Picky Partners: The Pairing of Component Masses in Binary Black Hole Mergers. Astrophysical Journal Letters, 2020, 891, L27.	8.3	50
24	Black Hole Coagulation: Modeling Hierarchical Mergers in Black Hole Populations. Astrophysical Journal, 2020, 893, 35.	4.5	66
25	Evolutionary roads leading to low effective spins, high black hole masses, and O1/O2 rates for LIGO/Virgo binary black holes. Astronomy and Astrophysics, 2020, 636, A104.	5.1	256
26	Counting on Short Gamma-Ray Bursts: Gravitational-wave Constraints of Jet Geometry. Astrophysical Journal, 2020, 895, 108.	4.5	12
27	Constraints on the Physical Properties of GW190814 through Simulations Based on DECam Follow-up Observations by the Dark Energy Survey. Astrophysical Journal, 2020, 901, 83.	4.5	28
28	The Binaryâ€"Host Connection: Astrophysics of Gravitational-Wave Binaries from Host Galaxy Properties. Astrophysical Journal, 2020, 905, 21.	4.5	17
29	The Most Massive Binary Black Hole Detections and the Identification of Population Outliers. Astrophysical Journal Letters, 2020, 891, L31.	8.3	57
30	Does Matter Matter? Using the Mass Distribution to Distinguish Neutron Stars and Black Holes. Astrophysical Journal Letters, 2020, 899, L8.	8.3	38
31	A Statistical Standard Siren Measurement of the Hubble Constant from the LIGO/Virgo Gravitational Wave Compact Object Merger GW190814 and Dark Energy Survey Galaxies. Astrophysical Journal Letters, 2020, 900, L33.	8.3	74
32	The Origin of Inequality: Isolated Formation of a 30+10 M _{âŠ™} Binary Black Hole Merger. Astrophysical Journal Letters, 2020, 901, L39.	8.3	37
33	Minding the Gap: GW190521 as a Straddling Binary. Astrophysical Journal Letters, 2020, 904, L26.	8.3	77
34	Standard sirens with a running Planck mass. Physical Review D, 2019, 99, .	4.7	71
35	Black hole shadows, photon rings, and lensing rings. Physical Review D, 2019, 100, .	4.7	271
36	Calibrating gravitational-wave detectors with GW170817. Classical and Quantum Gravity, 2019, 36, 125002.	4.0	9

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37	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13.	8.3	145
38	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binaryâ€“Black-hole Merger GW170814. Astrophysical Journal Letters, 2019, 876, L7.	8.3	179
39	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. Astrophysical Journal Letters, 2019, 873, L24.	8.3	14
40	A Future Percent-level Measurement of the Hubble Expansion at Redshift 0.8 with Advanced LIGO. Astrophysical Journal Letters, 2019, 883, L42.	8.3	106
41	How Many Kilonovae Can Be Found in Past, Present, and Future Survey Data Sets?. Astrophysical Journal Letters, 2018, 852, L3.	8.3	60
42	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
43	A Precise Distance to the Host Galaxy of the Binary Neutron Star Merger GW170817 Using Surface Brightness Fluctuations^{âˆ—}. Astrophysical Journal Letters, 2018, 854, L31.	8.3	99
44	Using Spin to Understand the Formation of LIGO and Virgoâ€™s Black Holes. Astrophysical Journal Letters, 2018, 854, L9.	8.3	108
45	Impact of inter-correlated initial binary parameters on double black hole and neutron star mergers. Astronomy and Astrophysics, 2018, 619, A77.	5.1	59
46	Measuring cosmic distances with standard sirens. Physics Today, 2018, 71, 34-40.	0.3	2
47	A two per cent Hubble constant measurement from standard sirens within five years. Nature, 2018, 562, 545-547.	27.8	282
48	Cosmological impact of future constraints on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mm from gravitational-wave standard sirens. Physical Review D, 2018, 98, .	4.7	26
49	Limits on the number of spacetime dimensions from GW170817. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 048-048.	5.4	89
50	Does the Black Hole Merger Rate Evolve with Redshift?. Astrophysical Journal Letters, 2018, 863, L41.	8.3	157
51	Explaining LIGOâ€™s observations via isolated binary evolution with natal kicks. Physical Review D, 2018, 97, .	4.7	65
52	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
53	A Search for Kilonovae in the Dark Energy Survey. Astrophysical Journal, 2017, 837, 57.	4.5	34
54	Facilitating Follow-up of LIGOâ€“Virgo Events Using Rapid Sky Localization. Astrophysical Journal, 2017, 840, 88.	4.5	13

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55	Are LIGO's Black Holes Made from Smaller Black Holes?. Astrophysical Journal Letters, 2017, 840, L24.	8.3	189
56	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models. Astrophysical Journal Letters, 2017, 848, L17.	8.3	656
57	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. III. Optical and UV Spectra of a Blue Kilonova from Fast Polar Ejecta. Astrophysical Journal Letters, 2017, 848, L18.	8.3	327
58	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. IV. Detection of Near-infrared Signatures of r-process Nucleosynthesis with Gemini-South. Astrophysical Journal Letters, 2017, 848, L19.	8.3	390
59	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. V. Rising X-Ray Emission from an Off-axis Jet. Astrophysical Journal Letters, 2017, 848, L20.	8.3	313
60	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VIII. A Comparison to Cosmological Short-duration Gamma-Ray Bursts. Astrophysical Journal Letters, 2017, 848, L23.	8.3	103
61	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VII. Properties of the Host Galaxy and Constraints on the Merger Timescale. Astrophysical Journal Letters, 2017, 848, L22.	8.3	107
62	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera. Astrophysical Journal Letters, 2017, 848, L16.	8.3	392
63	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VI. Radio Constraints on a Relativistic Jet and Predictions for Late-time Emission from the Kilonova Ejecta. Astrophysical Journal Letters, 2017, 848, L21.	8.3	266
64	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
65	Where Are LIGOâ€™s Big Black Holes?. Astrophysical Journal Letters, 2017, 851, L25.	8.3	160
66	SUPPLEMENT: â€œGOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UPâ€• (2016, ApJL, 829, L15). Astrophysical Journal, Supplement Series, 2016, 226, 10.	7.7	41
67	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
68	COMPACT BINARY MERGER RATES: COMPARISON WITH LIGO/VIRGO UPPER LIMITS. Astrophysical Journal, 2016, 819, 108.	4.5	193
69	A DECAM SEARCH FOR AN OPTICAL COUNTERPART TO THE LIGO GRAVITATIONAL-WAVE EVENT GW151226. Astrophysical Journal Letters, 2016, 826, L29.	8.3	38
70	The effect of pair-instability mass loss on black-hole mergers. Astronomy and Astrophysics, 2016, 594, A97.	5.1	289
71	GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP. Astrophysical Journal Letters, 2016, 829, L15.	8.3	126
72	The first gravitational-wave source from the isolated evolution of two stars in the 40â€"100 solar mass range. Nature, 2016, 534, 512-515.	27.8	712

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73	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
74	NEUTRON STARS VERSUS BLACK HOLES: PROBING THE MASS GAP WITH LIGO/VIRGO. Astrophysical Journal Letters, 2015, 807, L24.	8.3	51
75	DOUBLE COMPACT OBJECTS. III. GRAVITATIONAL-WAVE DETECTION RATES. Astrophysical Journal, 2015, 806, 263.	4.5	336
76	THE FORMATION AND GRAVITATIONAL-WAVE DETECTION OF MASSIVE STELLAR BLACK HOLE BINARIES. Astrophysical Journal, 2014, 789, 120.	4.5	98
77	C7 multi-messenger astronomy of GW sources. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
78	SUPERMASSIVE SEEDS FOR SUPERMASSIVE BLACK HOLES. Astrophysical Journal, 2013, 771, 116.	4.5	88
79	DOUBLE COMPACT OBJECTS. II. COSMOLOGICAL MERGER RATES. Astrophysical Journal, 2013, 779, 72.	4.5	334
80	SEEING THE FIRST SUPERNOVAE AT THE EDGE OF THE UNIVERSE WITH <i>JWST</i>. Astrophysical Journal Letters, 2013, 762, L6.	8.3	74
81	FINDING THE FIRST COSMIC EXPLOSIONS. II. CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2013, 768, 95.	4.5	42
82	FINDING THE FIRST COSMIC EXPLOSIONS. I. PAIR-INSTABILITY SUPERNOVAE. Astrophysical Journal, 2013, 777, 110.	4.5	74
83	Gamma-Ray-Burst Beaming and Gravitational-Wave Observations. Physical Review Letters, 2013, 111, 181101.	7.8	36
84	ILLUMINATING THE PRIMEVAL UNIVERSE WITH TYPE IIn SUPERNOVAE. Astrophysical Journal, 2013, 768, 195.	4.5	39
85	COMPACT REMNANT MASS FUNCTION: DEPENDENCE ON THE EXPLOSION MECHANISM AND METALLICITY. Astrophysical Journal, 2012, 749, 91.	4.5	695
86	EVIDENCE FOR TYPE Ia SUPERNOVA DIVERSITY FROM ULTRAVIOLET OBSERVATIONS WITH THE<i>HUBBLE SPACE TELESCOPE</i>. Astrophysical Journal, 2012, 749, 126.	4.5	49
87	DOUBLE COMPACT OBJECTS. I. THE SIGNIFICANCE OF THE COMMON ENVELOPE ON MERGER RATES. Astrophysical Journal, 2012, 759, 52.	4.5	613
88	THE MOST MASSIVE OBJECTS IN THE UNIVERSE. Astrophysical Journal Letters, 2012, 755, L36.	8.3	27
89	MISSING BLACK HOLES UNVEIL THE SUPERNOVA EXPLOSION MECHANISM. Astrophysical Journal, 2012, 757, 91.	4.5	209
90	LOCALIZING COMPACT BINARY INSPIRALS ON THE SKY USING GROUND-BASED GRAVITATIONAL WAVE INTERFEROMETERS. Astrophysical Journal, 2011, 739, 99.	4.5	81

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91	OUTFLOWING GALACTIC WINDS IN POST-STARBURST AND ACTIVE GALACTIC NUCLEUS HOST GALAXIES AT 0.2 <<i>z</i>< 0.8. Astrophysical Journal, 2011, 743, 46.	4.5	89
92	EXPLORING SHORT GAMMA-RAY BURSTS AS GRAVITATIONAL-WAVE STANDARD SIRENS. Astrophysical Journal, 2010, 725, 496-514.	4.5	282
93	THE EFFECT OF METALLICITY ON THE DETECTION PROSPECTS FOR GRAVITATIONAL WAVES. Astrophysical Journal Letters, 2010, 715, L138-L141.	8.3	253
94	ON THE ORIGIN OF THE HIGHEST REDSHIFT GAMMA-RAY BURSTS. Astrophysical Journal, 2010, 708, 117-126.	4.5	35
95	Measuring dark energy spatial inhomogeneity with supernova data. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 015-015.	5.4	34
96	Reducing the weak lensing noise for the gravitational wave Hubble diagram using the non-Gaussianity of the magnification distribution. Physical Review D, 2010, 81, .	4.7	89
97	No evidence for dark energy dynamics from a global analysis of cosmological data. Physical Review D, 2009, 80, .	4.7	65
98	Weak lensing and dark energy: The impact of dark energy on nonlinear dark matter clustering. Physical Review D, 2009, 80, .	4.7	23
99	Ultrahigh precision cosmology from gravitational waves. Physical Review D, 2009, 80, .	4.7	179
100	Beyond Two Dark Energy Parameters. Physical Review Letters, 2008, 100, 241302.	7.8	31
101	Close Pairs as Proxies for Galaxy Cluster Mergers. Astrophysical Journal, 2008, 683, 1-11.	4.5	13
102	Implications of Two Type Ia Supernova Populations for Cosmological Measurements. Astrophysical Journal, 2008, 684, L13-L16.	4.5	12
103	Toward a Halo Mass Function for Precision Cosmology: The Limits of Universality. Astrophysical Journal, 2008, 688, 709-728.	4.5	1,387
104	Lensing and Supernovae: Quantifying the Bias on the Dark Energy Equation of State. Astrophysical Journal, 2008, 678, 1-5.	4.5	36
105	Narrowing constraints with type Ia supernovae: converging on a cosmological constant. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 004-004.	5.4	39
106	The Clustering of Massive Halos. Astrophysical Journal, 2007, 656, 139-147.	4.5	86
107	Direct reconstruction of the dark energy scalar-field potential. Physical Review D, 2007, 75, .	4.7	23
108	CMB cluster lensing: Cosmography with the longest lever arm. Physical Review D, 2007, 76, .	4.7	18

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109	A New Population of Highâ€Redshift Shortâ€Duration Gammaâ€Ray Bursts. Astrophysical Journal, 2007, 664, 1000-1010.	4.5	145
110	Short GRB and binary black hole standard sirens as a probe of dark energy. Physical Review D, 2006, 74, .	4.7	220
111	Precision Determination of the Mass Function of Dark Matter Halos. Astrophysical Journal, 2006, 646, 881-885.	4.5	448
112	Cosmology from Supernova Magnification Maps. Astrophysical Journal, 2006, 637, L77-L80.	4.5	37
113	An Accelerated History of the Universe. AIP Conference Proceedings, 2006, , .	0.4	1
114	Problems with Small Area Surveys: Lensing Covariance of Supernova Distance Measurements. Physical Review Letters, 2006, 96, 021301.	7.8	28
115	Safety in Numbers: Gravitational Lensing Degradation of the Luminosity Distanceâ€"Redshift Relation. Astrophysical Journal, 2005, 631, 678-688.	4.5	134
116	Using Gravitationalâ€Wave Standard Sirens. Astrophysical Journal, 2005, 629, 15-22.	4.5	539
117	B2(II): COSMOLOGY (II). LATE UNIVERSE AND GRAVITATIONAL LENSES. , 2005, , .		0
118	Consequences of Gravitational Radiation Recoil. Astrophysical Journal, 2004, 607, L9-L12.	4.5	260
119	How Black Holes Get Their Kicks: Gravitational Radiation Recoil Revisited. Astrophysical Journal, 2004, 607, L5-L8.	4.5	154
120	Gravitational Waves from Stellar Collapse: Correlations to Explosion Asymmetries. Astrophysical Journal, 2004, 609, 288-300.	4.5	48
121	Stellar Collapse and Gravitational Waves. Astrophysics and Space Science Library, 2004, , 373-402.	2.7	4
122	On the remarkable spectrum of a non-Hermitian random matrix model. Journal of Physics A, 2003, 36, 3385-3400.	1.6	16
123	Cosmology with coalescing massive black holes. Classical and Quantum Gravity, 2003, 20, S65-S72.	4.0	40
124	Gravitational waves from core collapse. , 2003, , .		0
125	Corrective Lenses for High-Redshift Supernovae. Astrophysical Journal, 2003, 585, L11-L14.	4.5	46
126	Hydrostatic Expansion and Spin Changes during Type I Xâ€Ray Bursts. Astrophysical Journal, 2002, 564, 343-352.	4.5	33

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127	Retroâ€MACHOs: Ï€ in the Sky?. Astrophysical Journal, 2002, 578, 330-334.	4.5	53
128	Gravitational Wave Emission from Core Collapse of Massive Stars. Astrophysical Journal, 2002, 565, 430-446.	4.5	157
129	A Universal Probability Distribution Function for Weak-lensing Amplification. Astrophysical Journal, 2002, 572, L15-L18.	4.5	66
130	Seeing Double: Strong Gravitational Lensing of High-Redshift Supernovae. Astrophysical Journal, 2001, 556, L71-L74.	4.5	50
131	SYMMETRY WITHOUT SYMMETRY: NUMERICAL SIMULATION OF AXISYMMETRIC SYSTEMS USING CARTESIAN GRIDS. International Journal of Modern Physics D, 2001, 10, 273-289.	2.1	121
132	Constant crunch coordinates for black hole simulations. Physical Review D, 2001, 63, .	4.7	14
133	Apparent horizons in simplicial Brill wave initial data. Classical and Quantum Gravity, 1999, 16, 1979-1985.	4.0	11
134	Shedding light on dark matter. Nature, 1999, 400, 819-820.	27.8	1
135	Gravitational Lensing Limits on the Average Redshift of Gammaâ€Ray Bursts. Astrophysical Journal, 1999, 510, 54-63.	4.5	13
136	New method for determining cumulative gravitational lensing effects in inhomogeneous universes. Physical Review D, 1998, 58, .	4.7	162
137	Lensing and High-[CLC][ITAL]z[/ITAL][/CLC] Supernova Surveys. Astrophysical Journal, 1998, 506, L1-L5.	4.5	83
138	THE ISSUE OF TIME EVOLUTION IN QUANTUM GRAVITY. International Journal of Modern Physics A, 1996, 11, 2977-3002.	1.5	4
139	Photon Statistics Limits for Earthâ€based Parallax Measurements of Events. Astrophysical Journal, 1996, 471, 64-67.	4.5	50
140	Spin dynamics of the LAGEOS satellite in support of a measurement of the Earthâ€™s gravitomagnetism. Physical Review D, 1994, 50, 6068-6079.	4.7	21