Chang-Hwan Lee

List of Publications by Citations

139 papers	13,974 citations	51 h-index	118 g-index
155 ext. papers	15,826 ext. citations	4.9 avg, IF	5.52 L-index

#	Paper	IF	Citations
139	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
138	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
137	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
136	Characterization of the LIGO detectors during their sixth science run. *Classical and Quantum Gravity* , **2015**, 32, 115012	3.3	790
135	Systematic measurements of identified particle spectra in pp, d+Au, and Au+Au collisions at the STAR detector. *Physical Review C*, **2009**, 79,	2.7	585
134	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. *Nature Photonics*, **2013**, 7, 613-619	33.9	572
133	A gravitational wave observatory operating beyond the quantum shot-noise limit. *Nature Physics*, **2011**, 7, 962-965	16.2	554
132	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
131	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512
130	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
129	Identified baryon and meson distributions at large transverse momenta from Au + Au collisions at square root sNN=200 GeV. *Physical Review Letters*, **2006**, 97, 152301	7.4	227
128	From kaon-nuclear interactions to kaon condensation. *Nuclear Physics A*, **1994**, 567, 937-956	1.3	222
127	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
126	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. *Physical Review D*, **2012**, 85,	4.9	172
125	Direct observation of dijets in central Au+Au collisions at sqrt[sNN]=200 GeV. *Physical Review Letters*, **2006**, 97, 162301	7.4	157
124	Kaons in dense matter, kaon production in heavy-ion collisions, and kaon condensation in neutron stars. *Nuclear Physics A*, **1997**, 625, 372-434	1.3	149
123	Forward neutral pion production in p + p and d + Au collisions at square root sNN=200 GeV. *Physical Review Letters*, **2006**, 97, 152302	7.4	140

122	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101	7.4	137
121	Kaon Production in Heavy-Ion Collisions and Maximum Mass of Neutron Stars. *Physical Review Letters*, **1997**, 79, 5214-5217	7.4	137
120	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARBLACK HOLE MERGERS FROM ADVANCED LIGOS FIRST OBSERVING RUN. *Astrophysical Journal Letters*, **2016**, 832, L21	7.9	130
119	Longitudinal double-spin asymmetry and cross section for inclusive jet production in polarized proton collisions at square root of s = 200 GeV. *Physical Review Letters*, **2006**, 97, 252001	7.4	127
118	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. *Physical Review D*, **2013**, 88,	4.9	122
117	An effective chiral lagrangian approach to kaon-nuclear interactions Kaonic atom and kaon condensation. *Nuclear Physics A*, **1995**, 585, 401-449	1.3	114
116	Kaon condensation in dense stellar matter. *Physics Reports*, **1996**, 275, 255-341	27.7	114
115	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. *Astrophysical Journal*, **2014**, 785, 119	4.7	109
114	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
113	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. *Physical Review D*, **2012**, 85,	4.9	96
112	Strange baryon resonance production in sqrt s NN=200 GeV p+p and Au+Au collisions. *Physical Review Letters*, **2006**, 97, 132301	7.4	95
111	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. *Astrophysical Journal*, **2012**, 760, 12	4.7	94
110	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 20092010. *Physical Review D*, **2013**, 87,	4.9	91
109	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. *Physical Review D*, **2013**, 87,	4.9	84
108	A theory of gamma-ray bursts. *New Astronomy*, **2000**, 5, 191-210	1.8	84
107	J/production at high transverse momenta in p+p and Cu+Cu collisions at sNN=200 GeV. *Physical Review C*, **2009**, 80,	2.7	76
106	Transverse-momentumptcorrelations on (phi) from mean-ptfluctuations in Au2Au collisions at GeV. *Journal of Physics G: Nuclear and Particle Physics*, **2006**, 32, L37-L48	2.9	75
105	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74

104	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. *Physical Review Letters*, **2014**, 113, 231101	7.4	74
103	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. *Astronomy and Astrophysics*, **2012**, 539, A124	5.1	71
102	Growth of long range forward-backward multiplicity correlations with centrality in Au + Au collisions at square root of sNN = 200 GeV. *Physical Review Letters*, **2009**, 103, 172301	7.4	70
101	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. *Astronomy and Astrophysics*, **2012**, 541, A155	5.1	69
100	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102	7.4	65
99	Application of machine learning algorithms to the study of noise artifacts in gravitational-wave data. *Physical Review D*, **2013**, 88,	4.9	64
98	All-sky search for periodic gravitational waves in the full S5 LIGO data. *Physical Review D*, **2012**, 85,	4.9	61
97	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. *Physical Review Letters*, **2014**, 112, 131101	7.4	59
96	The characterization of Virgo data and its impact on gravitational-wave searches. *Classical and Quantum Gravity*, **2012**, 29, 155002	3.3	59
95	Discovery of a Black Hole Mass-Period Correlation in Soft X-Ray Transients and Its Implication for Gamma-Ray Burst and Hypernova Mechanisms. *Astrophysical Journal*, **2002**, 575, 996-1006	4.7	59
94	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. *Astrophysical Journal*, **2015**, 813, 39	4.7	58
93	Gravitational waves from black hole-neutron star binaries: Effective Fisher matrices and parameter estimation using higher harmonics. *Physical Review D*, **2013**, 87,	4.9	58
92	Directed search for continuous gravitational waves from the Galactic center. *Physical Review D*, **2013**, 88,	4.9	57
91	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. *Astrophysical Journal, Supplement Series*, **2012**, 203, 28	8	57
90	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. *Astrophysical Journal, Supplement Series*, **2014**, 211, 7	8	51
89	Kaon-nucleon scattering from chiral Lagrangians. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1994**, 326, 14-20	4.2	51
88	K/pi Fluctuations at relativistic energies. *Physical Review Letters*, **2009**, 103, 092301	7.4	48
87	K*0 production in Cu + Cu and Au + Au collisions at sNN=62.4 GeV and 200 GeV. *Physical Review C*, **2011**, 84,	2.7	47

86	Search for gravitational waves from intermediate mass binary black holes. *Physical Review D*, **2012**, 85,	4.9	46
85	The formation of high-mass black holes in low-mass X-ray binaries. *New Astronomy*, **1999**, 4, 313-323	1.8	46
84	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
83	Pion interferometry in Au+Au and Cu+Cu collisions at sNN=62.4 and 200 GeV. *Physical Review C*, **2009**, 80,	2.7	45
82	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	4.7	42
81	Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. *Physical Review D*, **2014**, 89,	4.9	41
80	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600 1000 Hz. *Physical Review D*, **2012**, 85,	4.9	40
79	The q q bound states and instanton molecules at T?Tc. *Nuclear Physics A*, **2004**, 740, 171-194	1.3	40
78	SUPPLEMENT: OCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). *Astrophysical Journal, Supplement Series*, **2016**, 225, 8	8	38
77	Parameter estimation of gravitational waves from nonprecessing black hole-neutron star inspirals with higher harmonics: Comparing Markov-chain Monte Carlo posteriors to an effective Fisher matrix. *Physical Review D*, **2014**, 89,	4.9	35
76	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. *Classical and Quantum Gravity*, **2014**, 31, 115004	3.3	34
75	Pion femtoscopy in p + p collisions at s=200 GeV. *Physical Review C*, **2011**, 83,	2.7	33
74	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. *Physical Review D*, **2014**, 89,	4.9	32
73	Search for gravitational waves associated with ray bursts detected by the interplanetary network. *Physical Review Letters*, **2014**, 113, 011102	7.4	30
72	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. *Physical Review D*, **2013**, 88,	4.9	30
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69	Implementation of an $mathcal{F}$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. *Classical and Quantum Gravity*, **2014**, 31, 165014	3.3	27

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65	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. *Physical Review D*, **2014**, 89,	4.9	25
64	Hyperon puzzle of neutron stars with Skyrme force models. *International Journal of Modern Physics E*, **2015**, 24, 1550100	0.7	24
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62	The Case for Hypercritical Accretion in M33 X-7. *Astrophysical Journal*, **2008**, 689, L9-L12	4.7	23
61	Holographic nuclear matter in the AdS/QCD model. *Physical Review D*, **2008**, 77,	4.9	21
60	Vector manifestation and matter formed in relativistic heavy-ion processes. *Physics Reports*, **2007**, 439, 161-191	27.7	21
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58	Hypercritical Advection-dominated Accretion Flow. *Astrophysical Journal*, **2000**, 541, 918-923	4.7	19
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55	Electromagnetic radiation in hot QCD matter: Rates, electric conductivity, flavor susceptibility, and diffusion. *Physical Review C*, **2014**, 90,	2.7	17
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53	Deformed relativistic Hartree-Bogoliubov theory in continuum with a point-coupling functional: Examples of even-even Nd isotopes. *Physical Review C*, **2020**, 102,	2.7	17
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45	Evolution and merging of binaries with compact objects. *Physics Reports*, **2007**, 442, 5-22	27.7	13
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21	Hans Bethe and His Physics **2006**,		4
20	Gravitational wave searches for aligned-spin binary neutron stars using nonspinning templates. *Journal of the Korean Physical Society*, **2018**, 72, 1-5	0.6	3
19	Publisher□ Note: Kaon Condensation, Black Holes, and Cosmological Natural Selection [Phys. Rev. Lett. 101, 091101 (2008)]. *Physical Review Letters*, **2008**, 101,	7.4	3
18	The problem of mass: Mesonic bound states above. *Nuclear Physics A*, **2005**, 763, 197-211	1.3	3
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7	Neutron star equations of state and their applications. *International Journal of Modern Physics E*, **2020**, 29, 2030007	0.7	1
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4	Gravitational waves from neutron star binaries **2017**, 193-197		
3	Formation and Evolution of Black Hole Binaries in the Galaxy **2011**, 305-316		
2	Neutron Star Mass Distribution in Binaries. *Journal of Physics: Conference Series*, **2016**, 716, 012021	0.3	
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