

Chang-Hwan Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Neutron star properties from astrophysical observations. <i>Journal of the Korean Physical Society</i> , 2021 , 78, 932-941	0.6	0
138	Comparison of heavy-ion transport simulations: Mean-field dynamics in a box. <i>Physical Review C</i> , 2021 , 104,	2.7	6
137	Neutron star equation of state and tidal deformability with nuclear energy density functionals. <i>European Physical Journal A</i> , 2020 , 56, 1	2.5	2
136	Extended parity doublet model with a new transport code. <i>Physical Review C</i> , 2020 , 101,	2.7	2
135	Deformed relativistic Hartree-Bogoliubov theory in continuum with a point-coupling functional: Examples of even-even Nd isotopes. <i>Physical Review C</i> , 2020 , 102,	2.7	17
134	Neutron star equations of state and their applications. <i>International Journal of Modern Physics E</i> , 2020 , 29, 2030007	0.7	1
133	Measurement of Tidal Deformability in the Gravitational Wave Parameter Estimation for Nonspinning Binary Neutron Star Mergers. <i>Journal of the Korean Physical Society</i> , 2019 , 74, 842-846	0.6	1
132	Strangeness in Neutron Star Cooling. <i>Journal of the Korean Physical Society</i> , 2019 , 74, 547-554	0.6	4
131	Effective interactions of hyperons and mass-radius relation of neutron stars. <i>Physical Review D</i> , 2018 , 97,	4.9	11
130	Gravitational wave searches for aligned-spin binary neutron stars using nonspinning templates. <i>Journal of the Korean Physical Society</i> , 2018 , 72, 1-5	0.6	3
129	Tidal deformability of neutron stars with realistic nuclear energy density functionals. <i>Physical Review C</i> , 2018 , 98,	2.7	15
128	Role of strangeness to the neutron star mass and cooling. <i>EPJ Web of Conferences</i> , 2018 , 168, 04011	0.3	
127	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
126	Nuclear equation of state and neutron star cooling. <i>International Journal of Modern Physics E</i> , 2017 , 26, 1750015	0.7	15
125	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121101	7.4	137
124	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
123	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107

122	Gravitational waves from neutron star binaries. <i>International Journal of Modern Physics E</i> , 2017 , 26, 1740015	1.5	1
121	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
120	Direct photon elliptic flow at energies available at the BNL Relativistic Heavy Ion Collider and the CERN Large Hadron Collider. <i>Physical Review C</i> , 2017 , 96,	2.7	10
119	Gravitational waves from neutron star binaries 2017 , 193-197		
118	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017 , 841, 89	4.7	42
117	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
116	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARBLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016 , 832, L21	7.9	130
115	Dense matter at RAON: Challenges and possibilities. <i>Journal of the Korean Physical Society</i> , 2016 , 69, 1430-1438	0.6	0
114	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
113	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
112	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914[(2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
111	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
110	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
109	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
108	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
107	Introduction to the DaeJeon Boltzmann-Uehling-Uhlenbeck (DJBUU) Project. <i>New Physics: Sae Mulli</i> , 2016 , 66, 1563-1570	1.7	3
106	Neutron Star Mass Distribution in Binaries. <i>Journal of Physics: Conference Series</i> , 2016 , 716, 012021	0.3	
105	Explicit flavor symmetry breaking and holographic compact stars. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 578-584	0.6	7

104	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
103	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
102	Hyperon puzzle of neutron stars with Skyrme force models. <i>International Journal of Modern Physics E</i> , 2015 , 24, 1550100	0.7	24
101	Application of artificial neural network to search for gravitational-wave signals associated with short gamma-ray bursts. <i>Classical and Quantum Gravity</i> , 2015 , 32, 245002	3.3	10
100	Implementation of an \mathcal{F} -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014 , 31, 165014	3.3	27
99	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109
98	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , 2014 , 31, 085014	3.3	18
97	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014 , 31, 115004	3.3	34
96	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. <i>Physical Review D</i> , 2014 , 89,	4.9	26
95	Search for gravitational waves associated with Γ -ray bursts detected by the interplanetary network. <i>Physical Review Letters</i> , 2014 , 113, 011102	7.4	30
94	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. <i>Physical Review D</i> , 2014 , 89,	4.9	32
93	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. <i>Physical Review D</i> , 2014 , 89,	4.9	25
92	Supercritical accretion in the evolution of neutron star binaries and its implications. <i>Nuclear Physics A</i> , 2014 , 928, 296-304	1.3	8
91	Application of the effective Fisher matrix to the frequency domain inspiral waveforms. <i>Classical and Quantum Gravity</i> , 2014 , 31, 235009	3.3	16
90	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51
89	Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. <i>Physical Review D</i> , 2014 , 89,	4.9	41
88	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. <i>Physical Review D</i> , 2014 , 89,	4.9	35
87	Kaon condensation in neutron stars with Skyrme-Hartree-Fock models. <i>Physical Review C</i> , 2014 , 89,	2.7	26

86	Electromagnetic radiation in hot QCD matter: Rates, electric conductivity, flavor susceptibility, and diffusion. <i>Physical Review C</i> , 2014 , 90,	2.7	17
85	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
84	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , 2014 , 113, 231101	7.4	74
83	Overview of the KoRIA Facility for Rare Isotope Beams. <i>Few-Body Systems</i> , 2013 , 54, 197-204	1.6	9
82	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010. <i>Physical Review D</i> , 2013 , 87,	4.9	91
81	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013 , 88,	4.9	30
80	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619	33.9	572
79	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 008-008	6.4	29
78	Gravitational waves from black hole-neutron star binaries: Effective Fisher matrices and parameter estimation using higher harmonics. <i>Physical Review D</i> , 2013 , 87,	4.9	58
77	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013 , 87,	4.9	84
76	Application of machine learning algorithms to the study of noise artifacts in gravitational-wave data. <i>Physical Review D</i> , 2013 , 88,	4.9	64
75	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013 , 88,	4.9	122
74	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013 , 88,	4.9	57
73	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85,	4.9	96
72	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85,	4.9	46
71	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz. <i>Physical Review D</i> , 2012 , 85,	4.9	40
70	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012 , 85,	4.9	172
69	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85,	4.9	61

68	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28	8	57
67	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3-3	59
66	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155	5-1	69
65	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. <i>Astrophysical Journal</i> , 2012 , 760, 12	4-7	94
64	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 539, A124	5-1	71
63	KERR PARAMETERS FOR STELLAR MASS BLACK HOLES AND THEIR CONSEQUENCES FOR GAMMA-RAY BURSTS AND HYPERNOVAE. <i>Astrophysical Journal</i> , 2011 , 727, 29	4-7	12
62	Holographic equations of state and astrophysical compact objects. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	2
61	K^*0 production in Cu + Cu and Au + Au collisions at $\sqrt{s_{NN}}=62.4$ GeV and 200 GeV. <i>Physical Review C</i> , 2011 , 84,	2-7	47
60	Pion femtoscopy in p + p collisions at $\sqrt{s}=200$ GeV. <i>Physical Review C</i> , 2011 , 83,	2-7	33
59	Hyperons and nuclear symmetry energy in neutron star matter. <i>Physical Review C</i> , 2011 , 84,	2-7	11
58	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
57	Formation and Evolution of Black Hole Binaries in the Galaxy 2011 , 305-316		
56	Kaon Condensation in Neutron Stars and Related Astrophysical Issues. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 2118-2121	0.6	2
55	Analytical Calculation of the Mergers of Black Hole-Neutron Star Binaries. <i>Publication of the Astronomical Society of Japan</i> , 2010 , 62, 315-321	3-2	4
54	J/ψ production at high transverse momenta in p+p and Cu+Cu collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2009 , 80,	2-7	76
53	Neutral pion production in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2009 , 80,	2-7	19
52	K/π Fluctuations at relativistic energies. <i>Physical Review Letters</i> , 2009 , 103, 092301	7-4	48
51	Pion interferometry in Au+Au and Cu+Cu collisions at $\sqrt{s_{NN}}=62.4$ and 200 GeV. <i>Physical Review C</i> , 2009 , 80,	2-7	45

50	Systematic measurements of identified particle spectra in pp, d+Au, and Au+Au collisions at the STAR detector. <i>Physical Review C</i> , 2009 , 79,	2.7	585
49	Growth of long range forward-backward multiplicity correlations with centrality in Au + Au collisions at square root of sNN = 200 GeV. <i>Physical Review Letters</i> , 2009 , 103, 172301	7.4	70
48	Holographic nuclear matter in the AdS/QCD model. <i>Physical Review D</i> , 2008 , 77,	4.9	21
47	Publisher's Note: Kaon Condensation, Black Holes, and Cosmological Natural Selection [Phys. Rev. Lett. 101, 091101 (2008)]. <i>Physical Review Letters</i> , 2008 , 101,	7.4	3
46	Kaon condensation, black holes, and cosmological natural selection. <i>Physical Review Letters</i> , 2008 , 101, 091101	7.4	9
45	LMC X-3 May Be a Relic of a GRB Similar to Cosmological GRBs. <i>Astrophysical Journal</i> , 2008 , 685, 1063-1069	4.7	7
44	The Case for Hypercritical Accretion in M33 X-7. <i>Astrophysical Journal</i> , 2008 , 689, L9-L12	4.7	23
43	Recent developments on kaon condensation and its astrophysical implications. <i>Physics Reports</i> , 2008 , 462, 1-20	27.7	27
42	Vector manifestation and matter formed in relativistic heavy-ion processes. <i>Physics Reports</i> , 2007 , 439, 161-191	27.7	21
41	Evolution and merging of binaries with compact objects. <i>Physics Reports</i> , 2007 , 442, 5-22	27.7	13
40	Mergers of Binary Compact Objects. <i>Astrophysical Journal</i> , 2007 , 670, 741-746	4.7	7
39	Gamma-Ray Bursts and Hypernova Explosions of Some Galactic Sources. <i>Astrophysical Journal</i> , 2007 , 671, L41-L44	4.7	15
38	The Problem of Mass: Mesonic Bound States Above Tc. <i>Nuclear Physics A</i> , 2006 , 774, 889-892	1.3	1
37	Transverse-momentum correlations on $\langle \Delta\phi \rangle$ from mean-p fluctuations in Au+Au collisions at GeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006 , 32, L37-L48	2.9	75
36	Vector manifestation of hidden local symmetry, hadronic freedom, and the STAR $\langle \Delta\phi \rangle$ ratio. <i>Physical Review C</i> , 2006 , 74,	2.7	6
35	Strangeness condensation by expanding about the fixed point of the Harada-Yamawaki vector manifestation. <i>Physical Review Letters</i> , 2006 , 96, 062303	7.4	24
34	Direct observation of dijets in central Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2006 , 97, 162301	7.4	157
33	Strange baryon resonance production in $\sqrt{s_{NN}}=200$ GeV p+p and Au+Au collisions. <i>Physical Review Letters</i> , 2006 , 97, 132301	7.4	95

32	Identified baryon and meson distributions at large transverse momenta from Au + Au collisions at square root $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2006 , 97, 152301	7.4	227
31	Forward neutral pion production in p + p and d + Au collisions at square root $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2006 , 97, 152302	7.4	140
30	Longitudinal double-spin asymmetry and cross section for inclusive jet production in polarized proton collisions at square root of $s = 200$ GeV. <i>Physical Review Letters</i> , 2006 , 97, 252001	7.4	127
29	$\mathbb{B} = 0$ effective weak chiral Lagrangian from the instanton vacuum. <i>European Physical Journal C</i> , 2006 , 45, 451-457	4.2	4
28	Hans Bethe and His Physics 2006 ,		4
27	Chemical equilibration in relativistic heavy ion collisions. <i>Nuclear Physics A</i> , 2005 , 747, 530-563	1.3	16
26	The problem of mass: Mesonic bound states above. <i>Nuclear Physics A</i> , 2005 , 763, 197-211	1.3	3
25	Strangeness-conserving effective weak chiral Lagrangian. <i>European Physical Journal A</i> , 2005 , 24, 105-105.5	2.5	2
24	The instanton molecule liquid and "sticky molasses" above T_c . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004 , 30, S1275-S1278	2.9	8
23	Soft X-Ray Transients as Ultraluminous X-Ray Sources. <i>Publication of the Astronomical Society of Japan</i> , 2004 , 56, 347-351	3.2	1
22	The case for Case C mass transfer in the galactic evolution of black hole binaries. <i>New Astronomy</i> , 2004 , 9, 225-237	1.8	5
21	The $q\bar{q}$ bound states and instanton molecules at $T \sim T_c$. <i>Nuclear Physics A</i> , 2004 , 740, 171-194	1.3	40
20	Nature of the chiral restoration transition in QCD. <i>Physics Reports</i> , 2004 , 391, 353-361	27.7	10
19	ON THE THEORY OF GAMMA RAY BURSTS AND HYPERNOVAE: THE BLACK HOLE SOFT X-RAY TRANSIENT SOURCES. <i>International Journal of Modern Physics A</i> , 2003 , 18, 527-576	1.2	4
18	Discovery of a Black Hole Mass-Period Correlation in Soft X-Ray Transients and Its Implication for Gamma-Ray Burst and Hypernova Mechanisms. <i>Astrophysical Journal</i> , 2002 , 575, 996-1006	4.7	59
17	Formation and evolution of black hole X-ray transient systems. <i>New Astronomy</i> , 2001 , 6, 331-338	1.8	8
16	Evolution of Neutron Star, Carbon-Oxygen White Dwarf Binaries. <i>Astrophysical Journal</i> , 2001 , 547, 345-354	4.7	18
15	Hypercritical Advection-dominated Accretion Flow. <i>Astrophysical Journal</i> , 2000 , 541, 918-923	4.7	19

14	A theory of gamma-ray bursts. <i>New Astronomy</i> , 2000 , 5, 191-210	1.8	84
13	The formation of high-mass black holes in low-mass X-ray binaries. <i>New Astronomy</i> , 1999 , 4, 313-323	1.8	46
12	Master formulae approach to photon fusion reactions. <i>Nuclear Physics A</i> , 1999 , 653, 185-208	1.3	8
11	Can Precessing Jets Explain the Light Curves of Gamma-Ray Bursts?. <i>Astrophysical Journal</i> , 1999 , 520, 666-679	4.7	29
10	Strange particles in dense matter and kaon condensates. <i>Nuclear Physics A</i> , 1998 , 639, 455c-464c	1.3	11
9	Dilepton and photon emission rates from a hadronic gas. III. <i>Physical Review C</i> , 1998 , 58, 2899-2906	2.7	14
8	Kaon Production in Heavy-Ion Collisions and Maximum Mass of Neutron Stars. <i>Physical Review Letters</i> , 1997 , 79, 5214-5217	7.4	137
7	Kaons in dense matter, kaon production in heavy-ion collisions, and kaon condensation in neutron stars. <i>Nuclear Physics A</i> , 1997 , 625, 372-434	1.3	149
6	Kaon condensation in dense stellar matter. <i>Physics Reports</i> , 1996 , 275, 255-341	27.7	114
5	The role of $\pi(1405)$ in kaon-proton interactions. <i>Nuclear Physics A</i> , 1996 , 602, 334-346	1.3	14
4	An effective chiral lagrangian approach to kaon-nuclear interactions Kaonic atom and kaon condensation. <i>Nuclear Physics A</i> , 1995 , 585, 401-449	1.3	114
3	Kaon condensation in nuclear star matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 335, 266-272	4.2	17
2	Kaon-nucleon scattering from chiral Lagrangians. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 326, 14-20	4.2	51
1	From kaon-nuclear interactions to kaon condensation. <i>Nuclear Physics A</i> , 1994 , 567, 937-956	1.3	222