

# Hyung Mok Lee

## List of Publications by Year in descending order

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84  
papers

5,412  
citations

147726

31  
h-index

79644

73  
g-index

84  
all docs

84  
docs citations

84  
times ranked

6568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	15.6	825
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
3	The X-ray counterpart to the gravitational-wave event GW170817. <i>Nature</i> , 2017, 551, 71-74.	13.7	627
4	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447
5	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
6	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
7	Evolution of dust temperature of galaxies through cosmic time as seen by Herschel~... <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 75-82.	1.6	145
8	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.	1.6	144
9	Compact binaries ejected from globular clusters as gravitational wave sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2714-2725.	1.6	90
10	Black hole binaries dynamically formed in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4665-4674.	1.6	87
11	Evolution of infrared luminosity functions of galaxies in the AKARI NEP-deep field. <i>Astronomy and Astrophysics</i> , 2010, 514, A6.	2.1	79
12	<i>AKARI</i> OBSERVATION OF THE FLUCTUATION OF THE NEAR-INFRARED BACKGROUND. <i>Astrophysical Journal</i> , 2011, 742, 124.	1.6	72
13	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	0.9	69
14	New Spectral Evidence of an Unaccounted Component of the Near-infrared Extragalactic Background Light from the CIBER. <i>Astrophysical Journal</i> , 2017, 839, 7.	1.6	67
15	REST-FRAME OPTICAL SPECTRA AND BLACK HOLE MASSES OF 3 <i>z</i> 6 QUASARS. <i>Astrophysical Journal</i> , 2015, 806, 109.	1.6	64
16	Environmental dependence of local luminous infrared galaxies. <i>Astronomy and Astrophysics</i> , 2010, 522, A33.	2.1	62
17	Distance and Properties of NGC 4993 as the Host Galaxy of the Gravitational-wave Source GW170817. <i>Astrophysical Journal Letters</i> , 2017, 849, L16.	3.0	59
18	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.	1.6	52

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19	Dynamical evolution of rotating stellar systems - II. Post-collapse, equal-mass system. Monthly Notices of the Royal Astronomical Society, 2002, 334, 310-322.	1.6	49
20	First cryogenic test operation of underground km-scale gravitational-wave observatory KAGRA. Classical and Quantum Gravity, 2019, 36, 165008.	1.5	45
21	Black hole binaries in galactic nuclei and gravitational wave sources. Monthly Notices of the Royal Astronomical Society, 2015, 448, 754-770.	1.6	43
22	Comparative study between N-body and Fokker-Planck simulations for rotating star clusters - I. Equal-mass system. Monthly Notices of the Royal Astronomical Society, 2008, 383, 2-10.	1.6	42
23	The AKARI NEP-Deep survey: a mid-infrared source catalogue. Astronomy and Astrophysics, 2012, 537, A24.	2.1	41
24	SCUBA-2 Ultra Deep Imaging EAO Survey (STUDIES): Faint-end Counts at 450 $\mu$ m. Astrophysical Journal, 2017, 850, 37.	1.6	40
25	Comparative study between N-body and Fokker-Planck simulations for rotating star clusters - II. Two-component models. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2960-2972.	1.6	39
26	Evolution of multimass globular clusters in the Galactic tidal field with the effects of velocity anisotropy. Monthly Notices of the Royal Astronomical Society, 2000, 316, 671-683.	1.6	38
27	OPTICAL IMAGES AND SOURCE CATALOG OF AKARI NORTH ECLIPTIC POLE WIDE SURVEY FIELD. Astrophysical Journal, Supplement Series, 2010, 190, 166-180.	3.0	37
28	The North Ecliptic Pole Wide survey of AKARI: a near- and mid-infrared source catalog. Astronomy and Astrophysics, 2012, 548, A29.	2.1	36
29	HECTOSPEC AND HYDRA SPECTRA OF INFRARED LUMINOUS SOURCES IN THE AKARI NORTH ECLIPTIC POLE SURVEY FIELD. Astrophysical Journal, Supplement Series, 2013, 207, 37.	3.0	33
30	PHYSICAL PROPERTIES OF TIDAL FEATURES OF INTERACTING DISK GALAXIES: THREE-DIMENSIONAL SELF-CONSISTENT MODELS. Astrophysical Journal, 2015, 807, 73.	1.6	32
31	Low-frequency terrestrial tensor gravitational-wave detector. Classical and Quantum Gravity, 2016, 33, 075003.	1.5	32
32	A TALE OF TWO FEEDBACKS: STAR FORMATION IN THE HOST GALAXIES OF RADIO AGNs. Astrophysical Journal, 2014, 784, 137.	1.6	31
33	Gravitational waves from compact binaries in post-Newtonian accurate hyperbolic orbits. Physical Review D, 2018, 98, .	1.6	31
34	Infrared luminosity functions of AKARI Sloan Digital Sky Survey galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1903-1913.	1.6	28
35	THE AKARI 2.5-5.0 $\mu$ m SPECTRAL ATLAS OF TYPE-1 ACTIVE GALACTIC NUCLEI: BLACK HOLE MASS ESTIMATOR, LINE RATIO, AND HOT DUST TEMPERATURE. Astrophysical Journal, Supplement Series, 2015, 216, 17.	3.0	28
36	MEASUREMENTS OF THE MEAN DIFFUSE GALACTIC LIGHT SPECTRUM IN THE 0.95-1.65 $\mu$ m BAND FROM CIBER. Astrophysical Journal, 2015, 806, 69.	1.6	27

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37	A deep survey of the AKARI north ecliptic pole field. <i>Astronomy and Astrophysics</i> , 2010, 517, A54.	2.1	26
38	MERGING GALAXY CLUSTER A2255 IN MID-INFRARED. <i>Astrophysical Journal</i> , 2011, 727, 14.	1.6	25
39	ULTRA DEEP AKARI OBSERVATIONS OF ABELL 2218: RESOLVING THE 15 $\mu$ m EXTRAGALACTIC BACKGROUND LIGHT. <i>Astrophysical Journal Letters</i> , 2010, 716, L45-L50.	3.0	22
40	AKARI OBSERVATION OF THE SUB-DEGREE SCALE FLUCTUATION OF THE NEAR-INFRARED BACKGROUND. <i>Astrophysical Journal</i> , 2015, 807, 140.	1.6	22
41	J- AND H-BAND IMAGING OF AKARI NORTH ECLIPTIC POLE SURVEY FIELD. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 20.	3.0	20
42	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	20
43	AKARI OBSERVATION OF THE NORTH ECLIPTIC POLE (NEP) SUPERCLUSTER AT $z = 0.087$ : MID-INFRARED VIEW OF TRANSITION GALAXIES. <i>Astrophysical Journal</i> , 2012, 745, 181.	1.6	18
44	Spitzer Observations of the North Ecliptic Pole. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 38.	3.0	18
45	A deep ATCA 20 cm radio survey of the AKARI Deep Field South near the South Ecliptic Pole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1830-1846.	1.6	17
46	UKIRT Widefield Infrared Survey for Fe+. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 2650-2660.	1.6	16
47	THE 3.3 $\mu$ m POLYCYCLIC AROMATIC HYDROCARBON EMISSION AS A STAR FORMATION RATE INDICATOR. <i>Astrophysical Journal</i> , 2012, 760, 120.	1.6	15
48	Evolution of mid-infrared galaxy luminosity functions from the entire AKARI NEP deep field with new CFHT photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1684-1693.	1.6	14
49	The First release of the AKARI-FIS Bright Source Catalogue. , 2009, , .		13
50	Detection and characterization of spin-orbit resonances in the advanced gravitational wave detectors era. <i>Physical Review D</i> , 2018, 98, .	1.6	13
51	NEPSC2, the North Ecliptic Pole SCUBA-2 survey: 850- $\mu$ m map and catalogue of 850- $\mu$ m-selected sources over $2\pi$ deg <sup>2</sup> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5065-5079.	1.6	12
52	Generalized quasi-Keplerian solution for eccentric, nonspinning compact binaries at 4PN order and the associated inspiral-merger-ringdown waveform. <i>Physical Review D</i> , 2022, 105, .	1.6	11
53	Finite size effects on the Poynting-Robertson effect: A fully general relativistic treatment. <i>New Astronomy</i> , 2011, 16, 183-186.	0.8	9
54	Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. <i>Classical and Quantum Gravity</i> , 2019, 36, 095015.	1.5	9

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55	Large angular scale fluctuations of near-infrared extragalactic background light based on the IRTS observations. Publication of the Astronomical Society of Japan, 2019, 71, .	1.0	8
56	Characteristics of mid-infrared PAH emission from star-forming galaxies selected at 250 $\mu$ m in the North Ecliptic Pole field. Publication of the Astronomical Society of Japan, 2019, 71, .	1.0	8
57	Mid-infrared luminosity function of local star-forming galaxies in the North Ecliptic Pole-Wide survey field of AKARI. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1573-1584.	1.6	7
58	Gravitational wave astrophysics, data analysis and multimessenger astronomy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	7
59	Gravitational radiation driven capture in unequal mass black hole encounters. Physical Review D, 2017, 96, .	1.6	7
60	Analytic Keplerian-type parametrization for general spinning compact binaries with leading order spin-orbit interactions. Physical Review D, 2019, 100, .	1.6	7
61	AKARI NEP field: Point source catalogs from GALEX and Herschel observations and selection of candidate lensed sub-millimeter galaxies. Publication of the Astronomical Society of Japan, 2019, 71, .	1.0	7
62	Application of independent component analysis to the iKAGRA data. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	7
63	System design of the compact IR space imaging system MIRIS. Proceedings of SPIE, 2010, , .	0.8	6
64	Gravitational-wave Detectors and a New Low-frequency Detector SOGRO. New Physics: Sae Mulli, 2016, 66, 272-282.	0.0	6
65	Axially symmetric pseudo-Newtonian hydrodynamics code. Monthly Notices of the Royal Astronomical Society, 2012, 424, 830-842.	1.6	5
66	BONNOR-TYPE BLACK DIHOLE SOLUTION IN BRANSâ€“DICKEâ€“MAXWELL THEORY. International Journal of Modern Physics A, 2005, 20, 6461-6485.	0.5	4
67	Pseudo-Newtonian models for the equilibrium structures of rotating relativistic stars. Monthly Notices of the Royal Astronomical Society, 2009, 399, 229-238.	1.6	4
68	AKARI infrared bright source catalogues. Proceedings of SPIE, 2010, , .	0.8	4
69	Optical design and performance of MIRIS near-infrared camera. , 2010, , .		4
70	Equilibrium and dynamical evolution of a self-gravitating system embedded in a potential well. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2728-2738.	1.6	4
71	Deep learning model on gravitational waveforms in merging and ringdown phases of binary black hole coalescences. Physical Review D, 2021, 103, .	1.6	4
72	Detection of H $\alpha$ emission from $z > 3.5$ submillimetre luminous galaxies with AKARI-FUHYU spectroscopy. Monthly Notices of the Royal Astronomical Society, 2013, 436, 395-400.	1.6	3

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73	A fully general relativistic numerical simulation code for spherically symmetric matter. Journal of the Korean Physical Society, 2013, 62, 393-405.	0.3	2
74	Long Journey toward the Detection of Gravitational Waves and New Era of Gravitational Wave Astrophysics. Journal of the Korean Physical Society, 2018, 73, 684-700.	0.3	2
75	Discovery of remote star clusters in the halo of the Irregular galaxy NGC 6822. Proceedings of the International Astronomical Union, 2005, 1, 257-258.	0.0	1
76	LOW-RESOLUTION NEAR-INFRARED STELLAR SPECTRA OBSERVED BY THE COSMIC INFRARED BACKGROUND EXPERIMENT (CIBER). Astronomical Journal, 2017, 153, 84.	1.9	1
77	The interplay between active galactic nuclei and star formation activities of type 1 active galactic nuclei probed by polycyclic aromatic hydrocarbon 3.3 $\mu$ m emission feature with AKARI. Publication of the Astronomical Society of Japan, 2019, 71, .	1.0	1
78	Space missions for astronomy and astrophysics in Korea: past, present, and future. Journal of the Korean Physical Society, 2021, 78, 942-971.	0.3	1
79	Gravitational Wave Detection: Its Significance and Perspectives. New Physics: Sae Mulli, 2016, 66, 258-263.	0.0	1
80	The Life and Death of Globular Clusters. Symposium - International Astronomical Union, 2002, 207, 584-592.	0.1	0
81	The AKARI Extragalactic Large Area Survey Towards the North Ecliptic Pole. , 2010, , .		0
82	Evolution of a globular cluster with a two-component BH mass spectrum. Proceedings of the International Astronomical Union, 2014, 10, 245-246.	0.0	0
83	Terrestrial detector for low-frequency gravitational waves based on full tensor measurement. Journal of Physics: Conference Series, 2016, 716, 012001.	0.3	0
84	DYNAMICS OF BLACK HOLE CLUSTERS WITH ROTATION. , 2002, , .		0