

# Kimyeong Lee

## List of Publications by Year in descending order

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121  
papers

4,927  
citations

81839

39  
h-index

98753

67  
g-index

122  
all docs

122  
docs citations

122  
times ranked

1313  
citing authors

#	ARTICLE	IF	CITATIONS
1	SU(2) calorons and magnetic monopoles. Physical Review D, 1998, 58, .	1.6	236
2	Self-dual Chern-Simons solitons. Physical Review D, 1990, 42, 3488-3499.	1.6	234
3	Black holes in magnetic monopoles. Physical Review D, 1992, 45, 2751-2761.	1.6	190
4	Monopoles and instantons on partially compactified D-branes. Physical Review D, 1997, 56, 3711-3717.	1.6	160
5	Localization techniques in quantum field theories. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 440301.	0.7	154
6	5-dim superconformal index with enhanced E n global symmetry. Journal of High Energy Physics, 2012, 2012, 1.	1.6	145
7	Gauged Qballs. Physical Review D, 1989, 39, 1665-1673.	1.6	144
8	Supersymmetry and self-dual Chern-Simons systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 105-108.	1.5	137
9	Self-dual Maxwell Chern-Simons solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 79-83.	1.5	133
10	Wormholes and Goldstone Bosons. Physical Review Letters, 1988, 61, 263-266.	2.9	130
11	Decay of the true vacuum in curved space-time. Physical Review D, 1987, 36, 1088-1094.	1.6	124
12	Wormholes made without massless matter fields. Nuclear Physics B, 1990, 329, 387-409.	0.9	115
13	A classical instability of Reissner-Nordström solutions and the fate of magnetically charged black holes. Physical Review Letters, 1992, 68, 1100-1103.	2.9	114
14	On instantons as Kaluza-Klein modes of M5-branes. Journal of High Energy Physics, 2011, 2011, 1.	1.6	94
15	Moduli space of many BPS monopoles for arbitrary gauge groups. Physical Review D, 1996, 54, 1633-1643.	1.6	87
16	Tunneling without barriers. Nuclear Physics B, 1986, 267, 181-202.	0.9	82
17	The Chern-Simons coefficient in supersymmetric Yang-Mills Chern-Simons theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 94-99.	1.5	81
18	Electromagnetic duality and SU(3) monopoles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 376, 97-102.	1.5	76

#	ARTICLE	IF	CITATIONS
19	Mass-deformed Bagger-Lambert theory and its BPS objects. <i>Physical Review D</i> , 2008, 78, .	1.6	74
20	Finite Temperature Chern-Simons Coefficient. <i>Physical Review Letters</i> , 1997, 78, 3434-3437.	2.9	70
21	Instantons and magnetic monopoles on $R^3 \times S^1$ with arbitrary simple gauge groups. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 426, 323-328.	1.5	69
22	Noncommutative supersymmetric tubes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 509, 168-174.	1.5	66
23	A new 5d description of 6d D-type minimal conformal matter. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	66
24	Anyonic Bogomol'nyi solitons in a gauged $O(3)$ $\mathbb{Z}_2$ model. <i>Physical Review D</i> , 1996, 53, 4436-4440.	1.6	59
25	More on 5d descriptions of 6d SCFTs. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	59
26	Dyons in $N=4$ supersymmetric theories and three-pronged strings. <i>Physical Review D</i> , 1998, 58, .	1.6	58
27	Self-dual non-Abelian Chern-Simons solitons. <i>Physical Review Letters</i> , 1991, 66, 553-555.	2.9	57
28	Self-dual Chern-Simons Higgs systems with an $N=3$ extended supersymmetry. <i>Physical Review D</i> , 1992, 46, 4691-4697.	1.6	57
29	Massive and massless monopoles with non-Abelian magnetic charges. <i>Physical Review D</i> , 1996, 54, 6351-6371.	1.6	54
30	Noncommutative vortex solitons. <i>Physical Review D</i> , 2001, 63, .	1.6	53
31	Dualities and 5-brane webs for 5d rank 2 SCFTs. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	52
32	Elliptic genus of E-strings. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	50
33	Relativistic nonabelian self-dual Chern-Simons systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 255, 381-384.	1.5	49
34	Chern-Simons Theories on the Noncommutative Plane. <i>Physical Review Letters</i> , 2001, 87, 030402.	2.9	49
35	5-brane webs for 5d $Sp(N)$ $G_2$ gauge theories. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	49
36	Self-dual $SU(3)$ Chern-Simons Higgs systems. <i>Physical Review D</i> , 1994, 50, 6626-6632.	1.6	45

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37	Vortex dynamics in self-dual Chern-Simons-Higgs systems. <i>Physical Review D</i> , 1994, 49, 2041-2054.	1.6	45
38	Dual formulation of cosmic strings and vortices. <i>Physical Review D</i> , 1993, 48, 2493-2498.	1.6	43
39	6d SCFTs, 5d dualities and Tao web diagrams. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	43
40	1/2-BPS Wilson loops and vortices in ABJM model. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	39
41	Escape from the menace of the giant wormholes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 221, 242-249.	1.5	38
42	The CP(n) model on noncommutative plane. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 498, 277-284.	1.5	37
43	Line Operator Index on $S^1 \times S^3$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	37
44	BPS equations in six and eight dimensions. <i>Physical Review D</i> , 2002, 66, .	1.6	36
45	Supersymmetric M5 brane theories on $R^4 \times CP^2$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	35
46	Rank-3 antisymmetric matter on 5-brane webs. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	34
47	Equivalence of several descriptions for 6d SCFT. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	33
48	Charged black holes with scalar hair. <i>Physical Review D</i> , 1991, 44, 3159-3163.	1.6	32
49	Little strings and T-duality. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	31
50	Discrete theta angle from an O5-plane. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	30
51	Charge violation by instantons in Chern-Simons theories. <i>Nuclear Physics B</i> , 1992, 373, 735-748.	0.9	29
52	Nontopological Magnetic Monopoles and New Magnetically Charged Black Holes. <i>Physical Review Letters</i> , 1994, 73, 1203-1206.	2.9	28
53	Low energy dynamics for 1/4 BPS dyons. <i>Physical Review D</i> , 1999, 61, .	1.6	26
54	Superconformal index with duality domain wall. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	25

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55	Complete prepotential for 5d $\mathcal{N} = 1$ superconformal field theories. Journal of High Energy Physics, 2020, 2020, 1.	1.6	25
56	On elliptic genera of 6d string theories. Journal of High Energy Physics, 2018, 2018, 1.	1.6	24
57	Vacuum decay and internal symmetries. Physical Review D, 1997, 55, 4903-4909.	1.6	23
58	Quantum $1/4$ BPS dyons. Physical Review D, 2000, 61, .	1.6	23
59	Quantum spectrum of instanton solitons in five-dimensional noncommutative $U(N)$ theories. Physical Review D, 2000, 61, .	1.6	23
60	Density fluctuations and particle-antiparticle annihilation. Nuclear Physics B, 1984, 246, 354-370.	0.9	22
61	Complete supersymmetric quantum mechanics of magnetic monopoles in $N=4$ super Yang-Mills theory. Physical Review D, 2000, 62, .	1.6	22
62	Comments on noncommutative gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 305-312.	1.5	22
63	General low energy dynamics of supersymmetric monopoles. Physical Review D, 2001, 63, .	1.6	22
64	Supertubes connecting D4 branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 329-336.	1.5	22
65	Dyonic instanton as supertube between D4-branes. Journal of High Energy Physics, 2003, 2003, 035-035.	1.6	22
66	Vortex dynamics in self-dual Maxwell-Higgs systems with a uniform background electric charge density. Physical Review D, 1994, 49, 4265-4276.	1.6	21
67	BPS domain wall solutions in self-dual Chern-Simons-Higgs systems. Physical Review D, 1997, 55, 6447-6453.	1.6	21
68	Moduli space of two $U(1)$ instantons on noncommutative $R^4$ and $R^3 \tilde{\times} S^1$ . Physical Review D, 2001, 63, .	1.6	21
69	Instantons from blow-up. Journal of High Energy Physics, 2019, 2019, 1.	1.6	20
70	Phase of the Wilson Line at High Temperature in the Standard Model. Physical Review Letters, 1994, 73, 1754-1757.	2.9	19
71	Elongation of moving noncommutative solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 231-236.	1.5	19
72	Comments on the moduli dynamics of $1/4$ BPS dyons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 76-80.	1.5	18

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73	All higher genus BPS membranes in the plane wave background. Journal of High Energy Physics, 2005, 2005, 035-035.	1.6	18
74	BPS objects in $N=2$ supersymmetric gauge theories. Physical Review D, 2005, 72, .	1.6	17
75	Wilson-loop instantons. Physical Review Letters, 1987, 59, 1069-1071.	2.9	16
76	The self-dual Chern-Simons $CP(N)$ models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 380, 303-307.	1.5	16
77	Indices for 6 dimensional superconformal field theories. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 443017.	0.7	16
78	Quantum tunneling with global charge. Physical Review D, 1994, 50, 5333-5342.	1.6	14
79	BPS electromagnetic waves on giant gravitons. Journal of High Energy Physics, 2005, 2005, 111-111.	1.6	14
80	Tunnelling without barriers in curved space-time. Nuclear Physics B, 1987, 282, 509-530.	0.9	13
81	Two massive and one massless $Sp(4)$ monopole. Physical Review D, 1998, 57, 5260-5272.	1.6	13
82	Existence and stability of nontopological strings. Physical Review D, 1988, 38, 3023-3030.	1.6	12
83	The $N=1^*$ Theories on $R^1 \times S^1$ with Twisted Boundary Conditions. Journal of High Energy Physics, 2004, 2004, 040-040.	1.6	12
84	Higgsing and twisting of 6d DN gauge theories. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
85	Ground state of high-density matter. Nuclear Physics B, 1989, 319, 501-510.	0.9	11
86	The fate of magnetically charged black holes. General Relativity and Gravitation, 1992, 24, 1203-1207.	0.7	11
87	BPS magnetic monopole bags. Physical Review D, 2009, 79, .	1.6	11
88	Instanton partons in 5-dimensional $SU(N)$ gauge theory. Physical Review D, 2011, 84, .	1.6	11
89	Fermionic rational conformal field theories and modular linear differential equations. Progress of Theoretical and Experimental Physics, 2021, 2021, .	1.8	11
90	First and second order vortex dynamics. Physical Review D, 2002, 66, .	1.6	10

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91	Little strings on $D_n$ orbifolds. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
92	Bootstrapping fermionic rational CFTs with three characters. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
93	Topological mass terms on axion domain walls. Physical Review D, 1987, 35, 3286-3289.	1.6	9
94	Magnetic Monopole with Wilson-Loop Symmetry Breaking. Physical Review Letters, 1988, 60, 2231-2234.	2.9	9
95	Scale problem in wormhole physics. Physical Review Letters, 1989, 63, 20-23.	2.9	9
96	Big wormholes and little interactions. Nuclear Physics B, 1990, 341, 101-118.	0.9	9
97	The Chern-Simons coefficient in the Higgs phase. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 341, 181-186.	1.5	9
98	Super-Yang-Mills theories on $S^4/\mathbb{Z}_2$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	9
99	Higgsing towards E-strings. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
100	Cardy limits of 6d superconformal theories. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
101	Conformal Field Theories with Sporadic Group Symmetry. Communications in Mathematical Physics, 2021, 388, 1-105.	1.0	9
102	A family of $N = 2$ gauge theories with exact S-duality. Nuclear Physics B, 1998, 520, 157-178.	0.9	8
103	Monster anatomy. Journal of High Energy Physics, 2019, 2019, 1.	1.6	8
104	Twisted 6d $(2, 0)$ SCFTs on a circle. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
105	Non-unitary TQFTs from 3D $\mathcal{N} = 4$ rank 0 SCFTs. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
106	Self-dual anyons in uniform background fields. Physical Review D, 1995, 52, 2412-2421.	1.6	7
107	Quantum nucleation of vortex string loops. Physical Review D, 1995, 52, 6050-6056.	1.6	7
108	$1/4$ BPS dyonic calorons. Physical Review D, 2003, 67, .	1.6	7

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109	Vortex string dynamics in an external antisymmetric tensor field. Nuclear Physics B, 1999, 563, 461-476.	0.9	6
110	General dynamics of two distinct Bogomol'nyi-Prasad-Sommerfield monopoles. Physical Review D, 2000, 63, .	1.6	6
111	Quantum field dynamics in a uniform magnetic field: Description using fields in oblique phase space. Physical Review D, 2002, 65, .	1.6	5
112	Discrete light cone quantization of fivebranes, large N screening, and L2 harmonic forms on Calabi manifolds. Physical Review D, 2002, 65, .	1.6	5
113	Tales of D0 on D6 branes: matrix mechanics of identical particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 107-114.	1.5	5
114	1/4 BPS string junctions and N3 problem in 6-dimensional (2,0) superconformal theories. Physical Review D, 2011, 84, .	1.6	5
115	Elliptic quantum curves of 6d SO(N) theories. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
116	Anomalies and effective lagrangians of superconducting cosmic strings. Nuclear Physics B, 1988, 297, 765-786.	0.9	4
117	Magnetically charged AdS5 black holes from class $\mathcal{S}$ theories on hyperbolic 3-manifolds. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
118	S-foldings of 5d SCFTs. Journal of High Energy Physics, 2022, 2022, .	1.6	4
119	Emergent Schrödinger geometries from mass-deformed CFT. Journal of High Energy Physics, 2011, 2011, 1.	1.6	1
120	Quantum mechanical Hamiltonians with large ground-state degeneracy. Annals of Physics, 2013, 331, 258-268.	1.0	0
121	Algebraic surfaces, four-folds and moonshine. Journal of High Energy Physics, 2019, 2019, 1.	1.6	0