

Kimyeong Lee

List of Publications by Year in descending order

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121
papers

4,927
citations

81900

39
h-index

98798

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, . | 4.7 | 236 |
| 2 | Self-dual Chern-Simons solitons. Physical Review D, 1990, 42, 3488-3499. | 4.7 | 234 |
| 3 | Black holes in magnetic monopoles. Physical Review D, 1992, 45, 2751-2761. | 4.7 | 190 |
| 4 | Monopoles and instantons on partially compactified D-branes. Physical Review D, 1997, 56, 3711-3717. | 4.7 | 160 |
| 5 | Localization techniques in quantum field theories. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 440301. | 2.1 | 154 |
| 6 | 5-dim superconformal index with enhanced E n global symmetry. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 145 |
| 7 | Gauged Qballs. Physical Review D, 1989, 39, 1665-1673. | 4.7 | 144 |
| 8 | Supersymmetry and self-dual Chern-Simons systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 105-108. | 4.1 | 137 |
| 9 | Self-dual Maxwell Chern-Simons solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 79-83. | 4.1 | 133 |
| 10 | Wormholes and Goldstone Bosons. Physical Review Letters, 1988, 61, 263-266. | 7.8 | 130 |
| 11 | Decay of the true vacuum in curved space-time. Physical Review D, 1987, 36, 1088-1094. | 4.7 | 124 |
| 12 | Wormholes made without massless matter fields. Nuclear Physics B, 1990, 329, 387-409. | 2.5 | 115 |
| 13 | A classical instability of Reissner-Nordström solutions and the fate of magnetically charged black holes. Physical Review Letters, 1992, 68, 1100-1103. | 7.8 | 114 |
| 14 | On instantons as Kaluza-Klein modes of M5-branes. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 94 |
| 15 | Moduli space of many BPS monopoles for arbitrary gauge groups. Physical Review D, 1996, 54, 1633-1643. | 4.7 | 87 |
| 16 | Tunneling without barriers. Nuclear Physics B, 1986, 267, 181-202. | 2.5 | 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. | 4.1 | 81 |
| 18 | Electromagnetic duality and SU(3) monopoles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 376, 97-102. | 4.1 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Mass-deformed Bagger-Lambert theory and its BPS objects. <i>Physical Review D</i> , 2008, 78, . | 4.7 | 74 |
| 20 | Finite Temperature Chern-Simons Coefficient. <i>Physical Review Letters</i> , 1997, 78, 3434-3437. | 7.8 | 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. | 4.1 | 69 |
| 22 | Noncommutative supersymmetric tubes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 509, 168-174. | 4.1 | 66 |
| 23 | A new 5d description of 6d D-type minimal conformal matter. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 4.7 | 66 |
| 24 | Anyonic Bogomol'nyi solitons in a gauged $O(3)$ \mathbb{Z}_2 model. <i>Physical Review D</i> , 1996, 53, 4436-4440. | 4.7 | 59 |
| 25 | More on 5d descriptions of 6d SCFTs. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 59 |
| 26 | Dyons in $N=4$ supersymmetric theories and three-pronged strings. <i>Physical Review D</i> , 1998, 58, . | 4.7 | 58 |
| 27 | Self-dual non-Abelian Chern-Simons solitons. <i>Physical Review Letters</i> , 1991, 66, 553-555. | 7.8 | 57 |
| 28 | Self-dual Chern-Simons Higgs systems with an $N=3$ extended supersymmetry. <i>Physical Review D</i> , 1992, 46, 4691-4697. | 4.7 | 57 |
| 29 | Massive and massless monopoles with non-Abelian magnetic charges. <i>Physical Review D</i> , 1996, 54, 6351-6371. | 4.7 | 54 |
| 30 | Noncommutative vortex solitons. <i>Physical Review D</i> , 2001, 63, . | 4.7 | 53 |
| 31 | Dualities and 5-brane webs for 5d rank 2 SCFTs. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 52 |
| 32 | Elliptic genus of E-strings. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 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. | 4.1 | 49 |
| 34 | Chern-Simons Theories on the Noncommutative Plane. <i>Physical Review Letters</i> , 2001, 87, 030402. | 7.8 | 49 |
| 35 | 5-brane webs for 5d $\mathcal{N} = 1$ G_2 gauge theories. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 49 |
| 36 | Self-dual $SU(3)$ Chern-Simons Higgs systems. <i>Physical Review D</i> , 1994, 50, 6626-6632. | 4.7 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Vortex dynamics in self-dual Chern-Simons-Higgs systems. <i>Physical Review D</i> , 1994, 49, 2041-2054. | 4.7 | 45 |
| 38 | Dual formulation of cosmic strings and vortices. <i>Physical Review D</i> , 1993, 48, 2493-2498. | 4.7 | 43 |
| 39 | 6d SCFTs, 5d dualities and Tao web diagrams. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 43 |
| 40 | 1/2-BPS Wilson loops and vortices in ABJM model. <i>Journal of High Energy Physics</i> , 2010, 2010, 1. | 4.7 | 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. | 4.1 | 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. | 4.1 | 37 |
| 43 | Line Operator Index on $S^1 \times S^3$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 37 |
| 44 | BPS equations in six and eight dimensions. <i>Physical Review D</i> , 2002, 66, . | 4.7 | 36 |
| 45 | Supersymmetric M5 brane theories on $R^4 \times CP^2$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 35 |
| 46 | Rank-3 antisymmetric matter on 5-brane webs. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 34 |
| 47 | Equivalence of several descriptions for 6d SCFT. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 33 |
| 48 | Charged black holes with scalar hair. <i>Physical Review D</i> , 1991, 44, 3159-3163. | 4.7 | 32 |
| 49 | Little strings and T-duality. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 31 |
| 50 | Discrete theta angle from an O5-plane. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 30 |
| 51 | Charge violation by instantons in Chern-Simons theories. <i>Nuclear Physics B</i> , 1992, 373, 735-748. | 2.5 | 29 |
| 52 | Nontopological Magnetic Monopoles and New Magnetically Charged Black Holes. <i>Physical Review Letters</i> , 1994, 73, 1203-1206. | 7.8 | 28 |
| 53 | Low energy dynamics for 1/4 BPS dyons. <i>Physical Review D</i> , 1999, 61, . | 4.7 | 26 |
| 54 | Superconformal index with duality domain wall. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Complete prepotential for 5d $\mathcal{N} = 1$ superconformal field theories. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 25 |
| 56 | On elliptic genera of 6d string theories. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 24 |
| 57 | Vacuum decay and internal symmetries. Physical Review D, 1997, 55, 4903-4909. | 4.7 | 23 |
| 58 | Quantum $1/4$ BPS dyons. Physical Review D, 2000, 61, . | 4.7 | 23 |
| 59 | Quantum spectrum of instanton solitons in five-dimensional noncommutative $U(N)$ theories. Physical Review D, 2000, 61, . | 4.7 | 23 |
| 60 | Density fluctuations and particle-antiparticle annihilation. Nuclear Physics B, 1984, 246, 354-370. | 2.5 | 22 |
| 61 | Complete supersymmetric quantum mechanics of magnetic monopoles in $N=4$ super Yang-Mills theory. Physical Review D, 2000, 62, . | 4.7 | 22 |
| 62 | Comments on noncommutative gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 305-312. | 4.1 | 22 |
| 63 | General low energy dynamics of supersymmetric monopoles. Physical Review D, 2001, 63, . | 4.7 | 22 |
| 64 | Supertubes connecting D4 branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 329-336. | 4.1 | 22 |
| 65 | Dyonic instanton as supertube between D4-branes. Journal of High Energy Physics, 2003, 2003, 035-035. | 4.7 | 22 |
| 66 | Vortex dynamics in self-dual Maxwell-Higgs systems with a uniform background electric charge density. Physical Review D, 1994, 49, 4265-4276. | 4.7 | 21 |
| 67 | BPS domain wall solutions in self-dual Chern-Simons-Higgs systems. Physical Review D, 1997, 55, 6447-6453. | 4.7 | 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, . | 4.7 | 21 |
| 69 | Instantons from blow-up. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 20 |
| 70 | Phase of the Wilson Line at High Temperature in the Standard Model. Physical Review Letters, 1994, 73, 1754-1757. | 7.8 | 19 |
| 71 | Elongation of moving noncommutative solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 231-236. | 4.1 | 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. | 4.1 | 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. | 4.7 | 18 |
| 74 | BPS objects in $N=2$ supersymmetric gauge theories. Physical Review D, 2005, 72, . | 4.7 | 17 |
| 75 | Wilson-loop instantons. Physical Review Letters, 1987, 59, 1069-1071. | 7.8 | 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. | 4.1 | 16 |
| 77 | Indices for 6 dimensional superconformal field theories. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 443017. | 2.1 | 16 |
| 78 | Quantum tunneling with global charge. Physical Review D, 1994, 50, 5333-5342. | 4.7 | 14 |
| 79 | BPS electromagnetic waves on giant gravitons. Journal of High Energy Physics, 2005, 2005, 111-111. | 4.7 | 14 |
| 80 | Tunnelling without barriers in curved space-time. Nuclear Physics B, 1987, 282, 509-530. | 2.5 | 13 |
| 81 | Two massive and one massless $Sp(4)$ monopole. Physical Review D, 1998, 57, 5260-5272. | 4.7 | 13 |
| 82 | Existence and stability of nontopological strings. Physical Review D, 1988, 38, 3023-3030. | 4.7 | 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. | 4.7 | 12 |
| 84 | Higgsing and twisting of 6d DN gauge theories. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12 |
| 85 | Ground state of high-density matter. Nuclear Physics B, 1989, 319, 501-510. | 2.5 | 11 |
| 86 | The fate of magnetically charged black holes. General Relativity and Gravitation, 1992, 24, 1203-1207. | 2.0 | 11 |
| 87 | BPS magnetic monopole bags. Physical Review D, 2009, 79, . | 4.7 | 11 |
| 88 | Instanton partons in 5-dimensional $SU(N)$ gauge theory. Physical Review D, 2011, 84, . | 4.7 | 11 |
| 89 | Fermionic rational conformal field theories and modular linear differential equations. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 11 |
| 90 | First and second order vortex dynamics. Physical Review D, 2002, 66, . | 4.7 | 10 |

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| 91 | Little strings on D n orbifolds. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 92 | Bootstrapping fermionic rational CFTs with three characters. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 10 |
| 93 | Topological mass terms on axion domain walls. Physical Review D, 1987, 35, 3286-3289. | 4.7 | 9 |
| 94 | Magnetic Monopole with Wilson-Loop Symmetry Breaking. Physical Review Letters, 1988, 60, 2231-2234. | 7.8 | 9 |
| 95 | Scale problem in wormhole physics. Physical Review Letters, 1989, 63, 20-23. | 7.8 | 9 |
| 96 | Big wormholes and little interactions. Nuclear Physics B, 1990, 341, 101-118. | 2.5 | 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. | 4.1 | 9 |
| 98 | Super-Yang-Mills theories on S^4/\mathbb{Z}_2 . Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 9 |
| 99 | Higgsing towards E-strings. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 9 |
| 100 | Cardy limits of 6d superconformal theories. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 9 |
| 101 | Conformal Field Theories with Sporadic Group Symmetry. Communications in Mathematical Physics, 2021, 388, 1-105. | 2.2 | 9 |
| 102 | A family of $N = 2$ gauge theories with exact S-duality. Nuclear Physics B, 1998, 520, 157-178. | 2.5 | 8 |
| 103 | Monster anatomy. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 8 |
| 104 | Twisted 6d (2, 0) SCFTs on a circle. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 105 | Non-unitary TQFTs from 3D $\mathcal{N} = 4$ rank 0 SCFTs. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 106 | Self-dual anyons in uniform background fields. Physical Review D, 1995, 52, 2412-2421. | 4.7 | 7 |
| 107 | Quantum nucleation of vortex string loops. Physical Review D, 1995, 52, 6050-6056. | 4.7 | 7 |
| 108 | 1/4 BPS dyonic calorons. Physical Review D, 2003, 67, . | 4.7 | 7 |

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| 109 | Vortex string dynamics in an external antisymmetric tensor field. Nuclear Physics B, 1999, 563, 461-476. | 2.5 | 6 |
| 110 | General dynamics of two distinct Bogomol'nyi-Prasad-Sommerfield monopoles. Physical Review D, 2000, 63, . | 4.7 | 6 |
| 111 | Quantum field dynamics in a uniform magnetic field: Description using fields in oblique phase space. Physical Review D, 2002, 65, . | 4.7 | 5 |
| 112 | Discrete light cone quantization of fivebranes, large N screening, and L2 harmonic forms on Calabi manifolds. Physical Review D, 2002, 65, . | 4.7 | 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. | 4.1 | 5 |
| 114 | 1/4 BPS string junctions and N3 problem in 6-dimensional (2,0) superconformal theories. Physical Review D, 2011, 84, . | 4.7 | 5 |
| 115 | Elliptic quantum curves of 6d SO(N) theories. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 5 |
| 116 | Anomalies and effective lagrangians of superconducting cosmic strings. Nuclear Physics B, 1988, 297, 765-786. | 2.5 | 4 |
| 117 | Magnetically charged AdS5 black holes from class \mathcal{S} theories on hyperbolic 3-manifolds. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 4 |
| 118 | S-foldings of 5d SCFTs. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 4 |
| 119 | Emergent Schrödinger geometries from mass-deformed CFT. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 1 |
| 120 | Quantum mechanical Hamiltonians with large ground-state degeneracy. Annals of Physics, 2013, 331, 258-268. | 2.8 | 0 |
| 121 | Algebraic surfaces, four-folds and moonshine. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 0 |