

Eun-Ah Kim

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6967029/eun-ah-kim-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

87
papers

4,745
citations

32
h-index

68
g-index

93
ext. papers

5,575
ext. citations

8.5
avg, IF

5.78
L-index

#	Paper	IF	Citations
87	Spin-transfer torque generated by a topological insulator. <i>Nature</i> , 2014 , 511, 449-51	50.4	851
86	Intra-unit-cell electronic nematicity of the high-T(c) copper-oxide pseudogap states. <i>Nature</i> , 2010 , 466, 347-51	50.4	416
85	Graphene as an electronic membrane. <i>Europhysics Letters</i> , 2008 , 84, 57007	1.6	229
84	Dynamical layer decoupling in a stripe-ordered high-T(c) superconductor. <i>Physical Review Letters</i> , 2007 , 99, 127003	7.4	204
83	Simultaneous transitions in cuprate momentum-space topology and electronic symmetry breaking. <i>Science</i> , 2014 , 344, 612-6	33.3	176
82	Direct phase-sensitive identification of a d-form factor density wave in underdoped cuprates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3026-32	11.5	176
81	Upper limit on spontaneous supercurrents in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2007 , 76,	3.3	166
80	Quantum Loop Topography for Machine Learning. <i>Physical Review Letters</i> , 2017 , 118, 216401	7.4	161
79	Detection of a Cooper-pair density wave in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Nature</i> , 2016 , 532, 343-7	50.4	145
78	Topological defects coupling smectic modulations to intra-unit-cell nematicity in cuprates. <i>Science</i> , 2011 , 333, 426-30	33.3	126
77	Corner junction as a probe of helical edge states. <i>Physical Review Letters</i> , 2009 , 102, 076602	7.4	110
76	Topological superconductivity in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2017 , 8, 14985	17.4	94
75	Atomic-scale electronic structure of the cuprate d-symmetry form factor density wave state. <i>Nature Physics</i> , 2016 , 12, 150-156	16.2	94
74	Universal entanglement entropy in two-dimensional conformal quantum critical points. <i>Physical Review B</i> , 2009 , 79,	3.3	84
73	Stability of half-quantum vortices in p(x)+ip(y) superconductors. <i>Physical Review Letters</i> , 2007 , 99, 197007	7.4	80
72	Theory of the nodal nematic quantum phase transition in superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	75
71	Machine learning in electronic-quantum-matter imaging experiments. <i>Nature</i> , 2019 , 570, 484-490	50.4	74

70	Machine Learning Out-of-Equilibrium Phases of Matter. <i>Physical Review Letters</i> , 2018 , 120, 257204	7.4	70
69	Machine learning Z2 quantum spin liquids with quasiparticle statistics. <i>Physical Review B</i> , 2017 , 96,	3.3	69
68	Fractional charges on an integer quantum Hall edge. <i>Physical Review Letters</i> , 2009 , 102, 236402	7.4	69
67	Spectroscopic Imaging Scanning Tunneling Microscopy Studies of Electronic Structure in the Superconducting and Pseudogap Phases of Cuprate High-Tc Superconductors. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 011005	1.5	67
66	Signatures of fractional statistics in noise experiments in quantum Hall fluids. <i>Physical Review Letters</i> , 2005 , 95, 176402	7.4	64
65	Theory of stripes in quasi-two-dimensional rare-earth tellurides. <i>Physical Review B</i> , 2006 , 74,	3.3	62
64	Commensurate 4-period charge density modulations throughout the BiSrCaCuO pseudogap regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12661-12668	11.5	57
63	Mean-field analysis of intra-unit-cell order in the Emery model of the CuO ₂ plane. <i>Physical Review B</i> , 2011 , 84,	3.3	49
62	Dirac spin-orbit torques and charge pumping at the surface of topological insulators. <i>Physical Review B</i> , 2017 , 96,	3.3	48
61	Spin Aharonov-Bohm effect and topological spin transistor. <i>Physical Review B</i> , 2010 , 82,	3.3	48
60	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020 , 3, 042006	4.2	48
59	Magnetic field-induced pair density wave state in the cuprate vortex halo. <i>Science</i> , 2019 , 364, 976-980	33.3	47
58	Spin-torque generation in topological insulator based heterostructures. <i>Physical Review B</i> , 2016 , 93,	3.3	45
57	Quantum limit transport and destruction of the Weyl nodes in TaAs. <i>Nature Communications</i> , 2018 , 9, 2217	17.4	40
56	Dirac spectrum in piecewise constant one-dimensional (1D) potentials. <i>New Journal of Physics</i> , 2010 , 12, 123020	2.9	37
55	Electronic structure of the cuprate superconducting and pseudogap phases from spectroscopic imaging STM. <i>New Journal of Physics</i> , 2011 , 13, 065014	2.9	32
54	Evidence for a vestigial nematic state in the cuprate pseudogap phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13249-13254	11.5	30
53	Identifying the fingerprint of antiferromagnetic spin fluctuations in iron pnictide superconductors. <i>Nature Physics</i> , 2015 , 11, 177-182	16.2	30

52	Entanglement Entropy of the $\mathbb{Z}/2$ Composite Fermion Non-Fermi Liquid State. <i>Physical Review Letters</i> , 2015 , 114, 206402	7.4	27
51	Measuring fractional charge and statistics in fractional quantum Hall fluids through noise experiments. <i>Physical Review B</i> , 2006 , 74,	3.3	27
50	Interedge tunneling in quantum Hall line junctions. <i>Physical Review B</i> , 2003 , 67,	3.3	25
49	Aharonov-Bohm interference and fractional statistics in a quantum Hall interferometer. <i>Physical Review Letters</i> , 2006 , 97, 216404	7.4	23
48	Manipulating superconductivity in ruthenates through Fermi surface engineering. <i>Physical Review B</i> , 2016 , 94,	3.3	21
47	Picometer registration of zinc impurity states in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ for phase determination in intra-unit-cell Fourier transform STM. <i>New Journal of Physics</i> , 2012 , 14, 053017	2.9	21
46	Coherent Superconductivity with a Large Gap Ratio from Incoherent Metals. <i>Physical Review Letters</i> , 2018 , 121, 187001	7.4	20
45	Nematic and spin-charge orders driven by hole-doping a charge-transfer insulator. <i>New Journal of Physics</i> , 2014 , 16, 093057	2.9	19
44	Spin-charge interplay in electronic liquid crystals: fluctuating spin stripe driven by charge nematic ordering. <i>Physical Review Letters</i> , 2010 , 104, 106405	7.4	19
43	Ab initio Mismatched Interface Theory of Graphene on RuCl_3 : Doping and Magnetism. <i>Physical Review Letters</i> , 2020 , 124, 106804	7.4	18
42	Linear resistivity and Sachdev-Ye-Kitaev (SYK) spin liquid behavior in a quantum critical metal with spin-1/2 fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18341-18346	11.5	18
41	Non-Abelian phases in two-component $\mathbb{Z}/3$ fractional quantum Hall states: Emergence of Fibonacci anyons. <i>Physical Review B</i> , 2015 , 92,	3.3	17
40	Topological quantum phase transition in an exactly solvable model of a chiral spin liquid at finite temperature. <i>Physical Review B</i> , 2010 , 81,	3.3	17
39	Interpreting machine learning of topological quantum phase transitions. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
38	Cooper-pair tunneling in junctions of singlet quantum Hall States and superconductors. <i>Physical Review Letters</i> , 2004 , 93, 266803	7.4	16
37	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. <i>Nano Letters</i> , 2020 , 20, 8446-8452	11.5	16
36	Anomalous scaling of the penetration depth in nodal superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	15
35	Cold-spots and glassy nematicity in underdoped cuprates. <i>Physical Review B</i> , 2016 , 94,	3.3	14

34	Quantum Hall line junction with impurities as a multislit Luttinger liquid interferometer. <i>Physical Review B</i> , 2005 , 71,	3.3	14
33	Double point contact in quantum Hall line junctions. <i>Physical Review Letters</i> , 2003 , 91, 156801	7.4	13
32	Pomeranchuk Instability of Composite Fermi Liquids. <i>Physical Review Letters</i> , 2018 , 121, 147601	7.4	13
31	One-component order parameter in URuSi uncovered by resonant ultrasound spectroscopy and machine learning. <i>Science Advances</i> , 2020 , 6, eaaz4074	14.3	12
30	Hybridization-induced interface states in a topological-insulator/ferromagnetic-metal heterostructure. <i>Physical Review B</i> , 2017 , 96,	3.3	12
29	Non-Abelian bosonization and modular transformation approach to superuniversality. <i>Physical Review B</i> , 2019 , 99,	3.3	11
28	Slope invariant T-linear resistivity from local self-energy. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
27	Quantum Spin Liquid Intertwining Nematic and Superconducting Order in Fese. <i>Physical Review Letters</i> , 2018 , 121, 237002	7.4	11
26	Nematic fluctuations balancing the zoo of phases in half-filled quantum Hall systems. <i>Physical Review B</i> , 2017 , 95,	3.3	10
25	Effects of surface-bulk hybridization in three-dimensional topological metals. <i>Physical Review B</i> , 2014 , 89,	3.3	10
24	Superconducting proximity effect in topological metals. <i>Physical Review B</i> , 2014 , 90,	3.3	10
23	Non-abelian statistics in the interference noise of the Moore-Read quantum Hall state. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, L04001	1.9	10
22	Strong spin-phonon coupling unveiled by coherent phonon oscillations in Ca ₂ RuO ₄ . <i>Physical Review B</i> , 2019 , 99,	3.3	9
21	Evidence of pair-density wave in spin-valley locked systems. <i>Science Advances</i> , 2019 , 5, eaat4698	14.3	8
20	Topological superconductivity in metal/quantum-spin-ice heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	8
19	Correlator convolutional neural networks as an interpretable architecture for image-like quantum matter data. <i>Nature Communications</i> , 2021 , 12, 3905	17.4	8
18	Edge states for topological insulators in two dimensions and their Luttinger-like liquids. <i>Physical Review B</i> , 2012 , 86,	3.3	7
17	Inferring effective interactions from the local density of states: Application to STM data from Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Physical Review B</i> , 2006 , 74,	3.3	7

16	Utilizing complex oxide substrates to control carrier concentration in large-area monolayer MoS ₂ films. <i>Applied Physics Letters</i> , 2021 , 118, 093103	3.4	7
15	Optical signatures of the chiral anomaly in mirror-symmetric Weyl semimetals. <i>Physical Review B</i> , 2019 , 100,	3.3	6
14	Multifaceted machine learning of competing orders in disordered interacting systems. <i>Physical Review B</i> , 2019 , 100,	3.3	6
13	Interference of nematic quantum critical quasiparticles: A route to the octet model. <i>Physical Review B</i> , 2010 , 81,	3.3	5
12	Topological orders competing for the Dirac surface state in FeSeTe surfaces. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
11	Probing transport in quantum many-fermion simulations via quantum loop topography. <i>Physical Review B</i> , 2019 , 99,	3.3	3
10	Phase transitions in models for coupled charge-density waves. <i>Physical Review B</i> , 2004 , 69,	3.3	2
9	Tests of nematic-mediated superconductivity applied to Ba _{1-x} Sr _x Ni ₂ As ₂ . <i>Physical Review Research</i> , 2020 , 2,	3.9	2
8	Observation of semilocalized dispersive states in the strongly correlated electron-doped ferromagnet Eu _{1-x} Gd _x O. <i>Physical Review B</i> , 2016 , 94,	3.3	1
7	Electronic liquid crystal physics of underdoped cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 168-177	1.3	1
6	Strong interlayer interactions in bilayer and trilayer moiré superlattices.. <i>Science Advances</i> , 2022 , 8, eabk1941	7.4	1
5	Identification of Non-Fermi Liquid Physics in a Quantum Critical Metal via Quantum Loop Topography. <i>Physical Review Letters</i> , 2021 , 127, 046601	7.4	0
4	Strange Metals from Melting Correlated Insulators in Twisted Bilayer Graphene.. <i>Physical Review Letters</i> , 2021 , 127, 266601	7.4	0
3	Quantum Phases of Transition Metal Dichalcogenide Moiré Systems.. <i>Physical Review Letters</i> , 2022 , 128, 157602	7.4	0
2	Spectroscopic imaging STM studies of broken electronic symmetries in underdoped cuprates. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1859-1863	2.8	
1	Spectroscopic Imaging STM studies of broken electronic symmetries in underdoped cuprates. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 022022	0.3	