

Eun-Ah Kim

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.

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	Strong interlayer interactions in bilayer and trilayer moiré superlattices.. <i>Science Advances</i> , 2022 , 8, eaab1911	14.1	1
86	Quantum Phases of Transition Metal Dichalcogenide Moiré Systems.. <i>Physical Review Letters</i> , 2022 , 128, 157602	7.4	0
85	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
84	Correlator convolutional neural networks as an interpretable architecture for image-like quantum matter data. <i>Nature Communications</i> , 2021 , 12, 3905	17.4	8
83	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
82	Topological orders competing for the Dirac surface state in FeSeTe surfaces. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
81	Strange Metals from Melting Correlated Insulators in Twisted Bilayer Graphene.. <i>Physical Review Letters</i> , 2021 , 127, 266601	7.4	0
80	One-component order parameter in URuSi uncovered by resonant ultrasound spectroscopy and machine learning. <i>Science Advances</i> , 2020 , 6, eaaz4074	14.3	12
79	Ab Initio Mismatched Interface Theory of Graphene on RuCl_3 : Doping and Magnetism. <i>Physical Review Letters</i> , 2020 , 124, 106804	7.4	18
78	Tests of nematic-mediated superconductivity applied to $\text{Ba}_{1-x}\text{Sr}_x\text{Ni}_2\text{As}_2$. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
77	Interpreting machine learning of topological quantum phase transitions. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
76	Slope invariant T-linear resistivity from local self-energy. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
75	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. <i>Nano Letters</i> , 2020 , 20, 8446-8452	11.5	16
74	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
73	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020 , 3, 042006	4.2	48
72	Optical signatures of the chiral anomaly in mirror-symmetric Weyl semimetals. <i>Physical Review B</i> , 2019 , 100,	3.3	6
71	Machine learning in electronic-quantum-matter imaging experiments. <i>Nature</i> , 2019 , 570, 484-490	50.4	74

70	Magnetic field-induced pair density wave state in the cuprate vortex halo. <i>Science</i> , 2019 , 364, 976-980	33.3	47
69	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
68	Probing transport in quantum many-fermion simulations via quantum loop topography. <i>Physical Review B</i> , 2019 , 99,	3.3	3
67	Strong spin-phonon coupling unveiled by coherent phonon oscillations in Ca ₂ RuO ₄ . <i>Physical Review B</i> , 2019 , 99,	3.3	9
66	Non-Abelian bosonization and modular transformation approach to superuniversality. <i>Physical Review B</i> , 2019 , 99,	3.3	11
65	Evidence of pair-density wave in spin-valley locked systems. <i>Science Advances</i> , 2019 , 5, eaat4698	14.3	8
64	Multifaceted machine learning of competing orders in disordered interacting systems. <i>Physical Review B</i> , 2019 , 100,	3.3	6
63	Quantum limit transport and destruction of the Weyl nodes in TaAs. <i>Nature Communications</i> , 2018 , 9, 2217	17.4	40
62	Machine Learning Out-of-Equilibrium Phases of Matter. <i>Physical Review Letters</i> , 2018 , 120, 257204	7.4	70
61	Quantum Spin Liquid Intertwining Nematic and Superconducting Order in Fese. <i>Physical Review Letters</i> , 2018 , 121, 237002	7.4	11
60	Pomeranchuk Instability of Composite Fermi Liquids. <i>Physical Review Letters</i> , 2018 , 121, 147601	7.4	13
59	Coherent Superconductivity with a Large Gap Ratio from Incoherent Metals. <i>Physical Review Letters</i> , 2018 , 121, 187001	7.4	20
58	Topological superconductivity in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2017 , 8, 14985	17.4	94
57	Nematic fluctuations balancing the zoo of phases in half-filled quantum Hall systems. <i>Physical Review B</i> , 2017 , 95,	3.3	10
56	Machine learning Z ₂ quantum spin liquids with quasiparticle statistics. <i>Physical Review B</i> , 2017 , 96,	3.3	69
55	Dirac spin-orbit torques and charge pumping at the surface of topological insulators. <i>Physical Review B</i> , 2017 , 96,	3.3	48
54	Quantum Loop Topography for Machine Learning. <i>Physical Review Letters</i> , 2017 , 118, 216401	7.4	161
53	Topological superconductivity in metal/quantum-spin-ice heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	8

52	Hybridization-induced interface states in a topological-insulator/ferromagnetic-metal heterostructure. <i>Physical Review B</i> , 2017 , 96,	3-3	12
51	Manipulating superconductivity in ruthenates through Fermi surface engineering. <i>Physical Review B</i> , 2016 , 94,	3-3	21
50	Spin-torque generation in topological insulator based heterostructures. <i>Physical Review B</i> , 2016 , 93,	3-3	45
49	Observation of semilocalized dispersive states in the strongly correlated electron-doped ferromagnet $\text{Eu}_{1-x}\text{Gd}_x\text{O}$. <i>Physical Review B</i> , 2016 , 94,	3-3	1
48	Cold-spots and glassy nematicity in underdoped cuprates. <i>Physical Review B</i> , 2016 , 94,	3-3	14
47	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
46	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
45	Detection of a Cooper-pair density wave in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Nature</i> , 2016 , 532, 343-7	50.4	145
44	Anomalous scaling of the penetration depth in nodal superconductors. <i>Physical Review B</i> , 2015 , 92,	3-3	15
43	Non-Abelian phases in two-component $\nu=2/3$ fractional quantum Hall states: Emergence of Fibonacci anyons. <i>Physical Review B</i> , 2015 , 92,	3-3	17
42	Entanglement Entropy of the $\nu=1/2$ Composite Fermion Non-Fermi Liquid State. <i>Physical Review Letters</i> , 2015 , 114, 206402	7-4	27
41	Identifying the fingerprint of antiferromagnetic spin fluctuations in iron pnictide superconductors. <i>Nature Physics</i> , 2015 , 11, 177-182	16.2	30
40	Simultaneous transitions in cuprate momentum-space topology and electronic symmetry breaking. <i>Science</i> , 2014 , 344, 612-6	33-3	176
39	Spin-transfer torque generated by a topological insulator. <i>Nature</i> , 2014 , 511, 449-51	50.4	851
38	Effects of surface-bulk hybridization in three-dimensional topological metals. <i>Physical Review B</i> , 2014 , 89,	3-3	10
37	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
36	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
35	Superconducting proximity effect in topological metals. <i>Physical Review B</i> , 2014 , 90,	3-3	10

34	Spectroscopic imaging STM studies of broken electronic symmetries in underdoped cuprates. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1859-1863	2.8	
33	Electronic liquid crystal physics of underdoped cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 168-177	1.3	1
32	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
31	Picometer registration of zinc impurity states in Bi ₂ Sr ₂ CaCu ₂ O ₈ for phase determination in intra-unit-cell Fourier transform STM. <i>New Journal of Physics</i> , 2012 , 14, 053017	2.9	21
30	Edge states for topological insulators in two dimensions and their Luttinger-like liquids. <i>Physical Review B</i> , 2012 , 86,	3.3	7
29	Spectroscopic Imaging STM studies of broken electronic symmetries in underdoped cuprates. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 022022	0.3	
28	Topological defects coupling smectic modulations to intra-unit-cell nematicity in cuprates. <i>Science</i> , 2011 , 333, 426-30	33.3	126
27	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
26	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
25	Intra-unit-cell electronic nematicity of the high-T(c) copper-oxide pseudogap states. <i>Nature</i> , 2010 , 466, 347-51	50.4	416
24	Interference of nematic quantum critical quasiparticles: A route to the octet model. <i>Physical Review B</i> , 2010 , 81,	3.3	5
23	Spin Aharonov-Bohm effect and topological spin transistor. <i>Physical Review B</i> , 2010 , 82,	3.3	48
22	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
21	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
20	Dirac spectrum in piecewise constant one-dimensional (1D) potentials. <i>New Journal of Physics</i> , 2010 , 12, 123020	2.9	37
19	Universal entanglement entropy in two-dimensional conformal quantum critical points. <i>Physical Review B</i> , 2009 , 79,	3.3	84
18	Fractional charges on an integer quantum Hall edge. <i>Physical Review Letters</i> , 2009 , 102, 236402	7.4	69
17	Corner junction as a probe of helical edge states. <i>Physical Review Letters</i> , 2009 , 102, 076602	7.4	110

16	Graphene as an electronic membrane. <i>Europhysics Letters</i> , 2008 , 84, 57007	1.6	229
15	Theory of the nodal nematic quantum phase transition in superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	75
14	Non-abelian statistics in the interference noise of the MooreRead quantum Hall state. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, L04001	1.9	10
13	Stability of half-quantum vortices in $p(x)+ip(y)$ superconductors. <i>Physical Review Letters</i> , 2007 , 99, 197007	7.4	80
12	Upper limit on spontaneous supercurrents in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2007 , 76,	3.3	166
11	Dynamical layer decoupling in a stripe-ordered high-T(c) superconductor. <i>Physical Review Letters</i> , 2007 , 99, 127003	7.4	204
10	Theory of stripes in quasi-two-dimensional rare-earth tellurides. <i>Physical Review B</i> , 2006 , 74,	3.3	62
9	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
8	Measuring fractional charge and statistics in fractional quantum Hall fluids through noise experiments. <i>Physical Review B</i> , 2006 , 74,	3.3	27
7	Aharanov-Bohm interference and fractional statistics in a quantum Hall interferometer. <i>Physical Review Letters</i> , 2006 , 97, 216404	7.4	23
6	Quantum Hall line junction with impurities as a multislit Luttinger liquid interferometer. <i>Physical Review B</i> , 2005 , 71,	3.3	14
5	Signatures of fractional statistics in noise experiments in quantum Hall fluids. <i>Physical Review Letters</i> , 2005 , 95, 176402	7.4	64
4	Cooper-pair tunneling in junctions of singlet quantum Hall States and superconductors. <i>Physical Review Letters</i> , 2004 , 93, 266803	7.4	16
3	Phase transitions in models for coupled charge-density waves. <i>Physical Review B</i> , 2004 , 69,	3.3	2
2	Double point contact in quantum Hall line junctions. <i>Physical Review Letters</i> , 2003 , 91, 156801	7.4	13
1	Interedge tunneling in quantum Hall line junctions. <i>Physical Review B</i> , 2003 , 67,	3.3	25