

# Gil-Ho Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,524  
citations

411340

20  
h-index

355658

38  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of negative refraction of Dirac fermions in graphene. <i>Nature Physics</i> , 2015, 11, 925-929.	6.5	181
2	Inducing superconducting correlation in quantum Hall edge states. <i>Nature Physics</i> , 2017, 13, 693-698.	6.5	132
3	Ultimately short ballistic vertical graphene Josephson junctions. <i>Nature Communications</i> , 2015, 6, 6181.	5.8	94
4	Graphene-based Josephson junction microwave bolometer. <i>Nature</i> , 2020, 586, 42-46.	13.7	88
5	Evidence of higher-order topology in multilayer WTe <sub>2</sub> from Josephson coupling through anisotropic hinge states. <i>Nature Materials</i> , 2020, 19, 974-979.	13.3	80
6	Graphene-Based Josephson-Junction Single-Photon Detector. <i>Physical Review Applied</i> , 2017, 8, .	1.5	74
7	Observation of supercurrent in Pbln-graphene-Pbln Josephson junction. <i>Physical Review B</i> , 2011, 83, .	1.1	70
8	Imaging Cyclotron Orbits of Electrons in Graphene. <i>Nano Letters</i> , 2016, 16, 1690-1694.	4.5	68
9	Spin-Orbit Torque Switching in an All-Van der Waals Heterostructure. <i>Advanced Materials</i> , 2022, 34, e2101730.	11.1	68
10	Electrically Tunable Macroscopic Quantum Tunneling in a Graphene-Based Josephson Junction. <i>Physical Review Letters</i> , 2011, 107, 146605.	2.9	62
11	Complete gate control of supercurrent in graphene p-n junctions. <i>Nature Communications</i> , 2013, 4, 2525.	5.8	58
12	Asymmetric Josephson effect in inversion symmetry breaking topological materials. <i>Physical Review B</i> , 2018, 98, .	1.1	54
13	Proximity coupling in superconductor-graphene heterostructures. <i>Reports on Progress in Physics</i> , 2018, 81, 056502.	8.1	52
14	Strong Proximity Josephson Coupling in Vertically Stacked NbSe <sub>2</sub> -Graphene-NbSe <sub>2</sub> van der Waals Junctions. <i>Nano Letters</i> , 2017, 17, 6125-6130.	4.5	50
15	Josephson junction infrared single-photon detector. <i>Science</i> , 2021, 372, 409-412.	6.0	45
16	Graphene transistor based on tunable Dirac fermion optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6575-6579.	3.3	34
17	Deep-ultraviolet electroluminescence and photocurrent generation in graphene/hBN/graphene heterostructures. <i>Nature Communications</i> , 2021, 12, 7134.	5.8	32
18	Steady Floquet-Andreev states in graphene Josephson junctions. <i>Nature</i> , 2022, 603, 421-426.	13.7	27

#	ARTICLE	IF	CITATIONS
19	Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi <sub>2</sub> Se <sub>3</sub> thin films on hexagonal boron nitride. 2D Materials, 2016, 3, 035029.	2.0	24
20	Local and Nonlocal Fraunhofer-like Pattern from an Edge-Stepped Topological Surface Josephson Current Distribution. Nano Letters, 2014, 14, 5029-5034.	4.5	23
21	Twisted van der Waals Josephson Junction Based on a High-T <sub>c</sub> Superconductor. Nano Letters, 2021, 21, 10469-10477.	4.5	22
22	Short Ballistic Josephson Coupling in Planar Graphene Junctions with Inhomogeneous Carrier Doping. Physical Review Letters, 2018, 120, 077701.	2.9	19
23	Impact of geometry and non-idealities on electron optics-based graphene p-n junction devices. Applied Physics Letters, 2019, 114, .	1.5	17
24	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. Physical Review B, 2021, 103, .	1.1	16
25	Imaging Andreev Reflection in Graphene. Nano Letters, 2020, 20, 4890-4894.	4.5	14
26	Imaging electron flow from collimating contacts in graphene. 2D Materials, 2018, 5, 021003.	2.0	13
27	Dielectric Properties of Strained Nickel Oxide Thin Films. Journal of the Korean Physical Society, 2019, 74, 984-988.	0.3	11
28	Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. Nano Letters, 2021, 21, 6336-6342.	4.5	10
29	Tuning Locality of Pair Coherence in Graphene-based Andreev Interferometers. Scientific Reports, 2015, 5, 8715.	1.6	7
30	Edge-Limited Valley-Preserved Transport in Quasi-1D Constriction of Bilayer Graphene. Nano Letters, 2018, 18, 5961-5966.	4.5	7
31	Planar graphene Josephson coupling via van der Waals superconducting contacts. Current Applied Physics, 2019, 19, 251-255.	1.1	7
32	Engineering Crossed Andreev Reflection in Double-Bilayer Graphene. Nano Letters, 2019, 19, 9002-9007.	4.5	7
33	Continuous and reversible tuning of the disorder-driven superconductor-insulator transition in bilayer graphene. Scientific Reports, 2015, 5, 13466.	1.6	6
34	Analysis of Scanned Probe Images for Magnetic Focusing in Graphene. Journal of Electronic Materials, 2017, 46, 3837-3841.	1.0	6
35	Mapping current profiles of point-contacted graphene devices using single-spin scanning magnetometer. Applied Physics Letters, 2021, 118, .	1.5	6
36	Strain-Induced Increase of Dielectric Constant in EuO Thin Film. Materials Research Express, 2019, 6, 106321.	0.8	5

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37	Pulsed Laser Deposition of Rocksalt Magnetic Binary Oxides. <i>Thin Solid Films</i> , 2019, 692, 137606.	0.8	5
38	Topology and superconductivity on the edge. <i>Nature Physics</i> , 2021, 17, 542-546.	6.5	5
39	Characterization of Shapiro steps in the presence of a $4\pi$ -periodic Josephson current. <i>Physical Review B</i> , 2021, 103, .	1.1	5
40	Coexisting multiple dynamic states generated by magnetic field in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ stacked Josephson junctions. <i>Europhysics Letters</i> , 2009, 88, 27007.	0.7	4
41	Josephson Coupling Realized in Graphite-Based Vertical Junction. <i>Applied Physics Express</i> , 2013, 6, 025102.	1.1	4
42	Stacking-Specific Reversible Oxidation of Bilayer Graphene. <i>Chemistry of Materials</i> , 2021, 33, 1249-1256.	3.2	4
43	Non-collective Josephson-Vortex Motion Induced by Pancake-Vortex Pinning in Stacked Josephson Junctions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010, 23, 1071-1074.	0.8	2
44	Current distribution of collective thermal depinning of Josephson vortices in naturally stacked Josephson junctions. <i>Physical Review B</i> , 2010, 81, .	1.1	2
45	Strain effect on magnetic-exchange-induced phonon splitting in NiO films. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405607.	0.7	2
46	Spin-phonon interaction increased by compressive strain in antiferromagnetic MnO thin films. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 175402.	0.7	1
47	Imaging the flow of holes from a collimating contact in graphene. <i>Semiconductor Science and Technology</i> , 2020, 35, 09LT02.	1.0	1
48	Switching dynamics in a short and a long natural Josephson junction of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+}$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S815-S816.	0.6	0
49	Robust subgap edge conduction in bilayer graphene with disordered edge termination. <i>Physical Review B</i> , 2020, 102, .	1.1	0