Gil-Ho Lee

List of Publications by Year
in descending order

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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	Spinâ€“Orbit Torque Switching in an Allâ€Van der Waals Heterostructure. Advanced Materials, 2022, 34, e2101730.	11.1	68
2	Steady Floquetâ€“Andreev states in graphene Josephson junctions. Nature, 2022, 603, 421-426.	13.7	27
3	Mapping current profiles of point-contacted graphene devices using single-spin scanning magnetometer. Applied Physics Letters, 2021, 118, .	1.5	6
4	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. Physical Review B, 2021, 103, .	1.1	16
5	Stacking-Specific Reversible Oxidation of Bilayer Graphene. Chemistry of Materials, 2021, 33, 1249-1256.	3.2	4
6	Topology and superconductivity on the edge. Nature Physics, 2021, 17, 542-546.	6.5	5
7	Josephson junction infrared single-photon detector. Science, 2021, 372, 409-412.	6.0	45
8	Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. Nano Letters, 2021, 21, 6336-6342.	4.5	10
9	Characterization of Shapiro steps in the presence of a 4Ï€-periodic Josephson current. Physical Review B, 2021, 103, .	1.1	5
10	Twisted van der Waals Josephson Junction Based on a High-T_c Superconductor. Nano Letters, 2021, 21, 10469-10477.	4.5	22
11	Deep-ultraviolet electroluminescence and photocurrent generation in graphene/hBN/graphene heterostructures. Nature Communications, 2021, 12, 7134.	5.8	32
12	Graphene-based Josephson junction microwave bolometer. Nature, 2020, 586, 42-46.	13.7	88
13	Robust subgap edge conduction in bilayer graphene with disordered edge termination. Physical Review B, 2020, 102, .	1.1	0
14	Imaging Andreev Reflection in Graphene. Nano Letters, 2020, 20, 4890-4894.	4.5	14
15	Strain effect on magnetic-exchange-induced phonon splitting in NiO films. Journal of Physics Condensed Matter, 2020, 32, 405607.	0.7	2
16	Spin-phonon interaction increased by compressive strain in antiferromagnetic MnO thin films. Journal of Physics Condensed Matter, 2020, 32, 175402.	0.7	1
17	Evidence of higher-order topology in multilayer WTe2 from Josephson coupling through anisotropic hinge states. Nature Materials, 2020, 19, 974-979.	13.3	80
18	Imaging the flow of holes from a collimating contact in graphene. Semiconductor Science and Technology, 2020, 35, 09LT02.	1.0	1

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19	Planar graphene Josephson coupling via van der Waals superconducting contacts. Current Applied Physics, 2019, 19, 251-255.	1.1	7
20	Strain-Induced Increase of Dielectric Constant in EuO Thin Film. Materials Research Express, 2019, 6, 106321.	0.8	5
21	Dielectric Properties of Strained Nickel Oxide Thin Films. Journal of the Korean Physical Society, 2019, 74, 984-988.	0.3	11
22	Graphene transistor based on tunable Dirac fermion optics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6575-6579.	3.3	34
23	Engineering Crossed Andreev Reflection in Double-Bilayer Graphene. Nano Letters, 2019, 19, 9002-9007.	4.5	7
24	Pulsed Laser Deposition of Rocksalt Magnetic Binary Oxides. Thin Solid Films, 2019, 692, 137606.	0.8	5
25	Impact of geometry and non-idealities on electron â€œopticsâ€•based graphene p-n junction devices. Applied Physics Letters, 2019, 114, .	1.5	17
26	Proximity coupling in superconductor-graphene heterostructures. Reports on Progress in Physics, 2018, 81, 056502.	8.1	52
27	Short Ballistic Josephson Coupling in Planar Graphene Junctions with Inhomogeneous Carrier Doping. Physical Review Letters, 2018, 120, 077701.	2.9	19
28	Imaging electron flow from collimating contacts in graphene. 2D Materials, 2018, 5, 021003.	2.0	13
29	Asymmetric Josephson effect in inversion symmetry breaking topological materials. Physical Review B, 2018, 98, .	1.1	54
30	Edge-Limited Valley-Preserved Transport in Quasi-1D Constriction of Bilayer Graphene. Nano Letters, 2018, 18, 5961-5966.	4.5	7
31	Analysis of Scanned Probe Images for Magnetic Focusing in Graphene. Journal of Electronic Materials, 2017, 46, 3837-3841.	1.0	6
32	Inducing superconducting correlation in quantum Hall edge states. Nature Physics, 2017, 13, 693-698.	6.5	132
33	Strong Proximity Josephson Coupling in Vertically Stacked NbSe₂â€“Grapheneâ€“NbSe₂ van der Waals Junctions. Nano Letters, 2017, 17, 6125-6130.	4.5	50
34	Graphene-Based Josephson-Junction Single-Photon Detector. Physical Review Applied, 2017, 8, .	1.5	74
35	Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi ₂ Se ₃ thin films on hexagonal boron nitride. 2D Materials, 2016, 3, 035029.	2.0	24
36	Imaging Cyclotron Orbits of Electrons in Graphene. Nano Letters, 2016, 16, 1690-1694.	4.5	68

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37	Continuous and reversible tuning of the disorder-driven superconductorâ€“insulator transition in bilayer graphene. Scientific Reports, 2015, 5, 13466.	1.6	6
38	Tuning Locality of Pair Coherence in Graphene-based Andreev Interferometers. Scientific Reports, 2015, 5, 8715.	1.6	7
39	Ultimately short ballistic vertical graphene Josephson junctions. Nature Communications, 2015, 6, 6181.	5.8	94
40	Observation of negative refraction of Dirac fermions in graphene. Nature Physics, 2015, 11, 925-929.	6.5	181
41	Local and Nonlocal Fraunhofer-like Pattern from an Edge-Stepped Topological Surface Josephson Current Distribution. Nano Letters, 2014, 14, 5029-5034.	4.5	23
42	Complete gate control of supercurrent in graphene pâ€“n junctions. Nature Communications, 2013, 4, 2525.	5.8	58
43	Josephson Coupling Realized in Graphite-Based Vertical Junction. Applied Physics Express, 2013, 6, 025102.	1.1	4
44	Observation of supercurrent in PbIn-graphene-PbIn Josephson junction. Physical Review B, 2011, 83, .	1.1	70
45	Electrically Tunable Macroscopic Quantum Tunneling in a Graphene-Based Josephson Junction. Physical Review Letters, 2011, 107, 146605.	2.9	62
46	Non-collective Josephson-Vortex Motion Induced byÂPancake-Vortex Pinning in Stacked Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1071-1074.	0.8	2
47	Switching dynamics in a short and a long natural Josephson junction of Bi2Sr2CaCu2O8+ single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, S815-S816.	0.6	0
48	Current distribution of collective thermal depinning of Josephson vortices in naturally stacked Josephson junctions. Physical Review B, 2010, 81, .	1.1	2
49	Coexisting multiple dynamic states generated by magnetic field in Bi 2 Sr 2 CaCu 2 O 8+Î´ stacked Josephson junctions. Europhysics Letters, 2009, 88, 27007.	0.7	4