

Gil-Ho Lee

List of Publications by Year in descending order

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49
papers

1,524
citations

331670

21
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315739

38
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all docs

51
docs citations

51
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	Spinâ€œOrbit Torque Switching in an Allâ€œVan der Waals Heterostructure. <i>Advanced Materials</i> , 2022, 34, e2101730.	21.0	68
2	Steady Floquetâ€œAndreev states in graphene Josephson junctions. <i>Nature</i> , 2022, 603, 421-426.	27.8	27
3	Mapping current profiles of point-contacted graphene devices using single-spin scanning magnetometer. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
4	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. <i>Physical Review B</i> , 2021, 103, .	3.2	16
5	Stacking-Specific Reversible Oxidation of Bilayer Graphene. <i>Chemistry of Materials</i> , 2021, 33, 1249-1256.	6.7	4
6	Topology and superconductivity on the edge. <i>Nature Physics</i> , 2021, 17, 542-546.	16.7	5
7	Josephson junction infrared single-photon detector. <i>Science</i> , 2021, 372, 409-412.	12.6	45
8	Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. <i>Nano Letters</i> , 2021, 21, 6336-6342.	9.1	10
9	Characterization of Shapiro steps in the presence of a 4iâ€œperiodic Josephson current. <i>Physical Review B</i> , 2021, 103, .	3.2	5
10	Twisted van der Waals Josephson Junction Based on a High- <i>T_c</i> Superconductor. <i>Nano Letters</i> , 2021, 21, 10469-10477.	9.1	22
11	Deep-ultraviolet electroluminescence and photocurrent generation in graphene/hBN/graphene heterostructures. <i>Nature Communications</i> , 2021, 12, 7134.	12.8	32
12	Graphene-based Josephson junction microwave bolometer. <i>Nature</i> , 2020, 586, 42-46.	27.8	88
13	Robust subgap edge conduction in bilayer graphene with disordered edge termination. <i>Physical Review B</i> , 2020, 102, .	3.2	0
14	Imaging Andreev Reflection in Graphene. <i>Nano Letters</i> , 2020, 20, 4890-4894.	9.1	14
15	Strain effect on magnetic-exchange-induced phonon splitting in NiO films. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405607.	1.8	2
16	Spin-phonon interaction increased by compressive strain in antiferromagnetic MnO thin films. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 175402.	1.8	1
17	Evidence of higher-order topology in multilayer WTe ₂ from Josephson coupling through anisotropic hinge states. <i>Nature Materials</i> , 2020, 19, 974-979.	27.5	80
18	Imaging the flow of holes from a collimating contact in graphene. <i>Semiconductor Science and Technology</i> , 2020, 35, 09LT02.	2.0	1

#	ARTICLE	IF	CITATIONS
19	Planar graphene Josephson coupling via van der Waals superconducting contacts. <i>Current Applied Physics</i> , 2019, 19, 251-255.	2.4	7
20	Strain-Induced Increase of Dielectric Constant in EuO Thin Film. <i>Materials Research Express</i> , 2019, 6, 106321.	1.6	5
21	Dielectric Properties of Strained Nickel Oxide Thin Films. <i>Journal of the Korean Physical Society</i> , 2019, 74, 984-988.	0.7	11
22	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.	7.1	34
23	Engineering Crossed Andreev Reflection in Double-Bilayer Graphene. <i>Nano Letters</i> , 2019, 19, 9002-9007.	9.1	7
24	Pulsed Laser Deposition of Rocksalt Magnetic Binary Oxides. <i>Thin Solid Films</i> , 2019, 692, 137606.	1.8	5
25	Impact of geometry and non-idealities on electron "optics"-based graphene p-n junction devices. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	17
26	Proximity coupling in superconductor-graphene heterostructures. <i>Reports on Progress in Physics</i> , 2018, 81, 056502.	20.1	52
27	Short Ballistic Josephson Coupling in Planar Graphene Junctions with Inhomogeneous Carrier Doping. <i>Physical Review Letters</i> , 2018, 120, 077701.	7.8	19
28	Imaging electron flow from collimating contacts in graphene. <i>2D Materials</i> , 2018, 5, 021003.	4.4	13
29	Asymmetric Josephson effect in inversion symmetry breaking topological materials. <i>Physical Review B</i> , 2018, 98, .	3.2	54
30	Edge-Limited Valley-Preserved Transport in Quasi-1D Constriction of Bilayer Graphene. <i>Nano Letters</i> , 2018, 18, 5961-5966.	9.1	7
31	Analysis of Scanned Probe Images for Magnetic Focusing in Graphene. <i>Journal of Electronic Materials</i> , 2017, 46, 3837-3841.	2.2	6
32	Inducing superconducting correlation in quantum Hall edge states. <i>Nature Physics</i> , 2017, 13, 693-698.	16.7	132
33	Strong Proximity Josephson Coupling in Vertically Stacked NbSe ₂ "Graphene"NbSe ₂ van der Waals Junctions. <i>Nano Letters</i> , 2017, 17, 6125-6130.	9.1	50
34	Graphene-Based Josephson-Junction Single-Photon Detector. <i>Physical Review Applied</i> , 2017, 8, .	3.8	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. <i>2D Materials</i> , 2016, 3, 035029.	4.4	24
36	Imaging Cyclotron Orbits of Electrons in Graphene. <i>Nano Letters</i> , 2016, 16, 1690-1694.	9.1	68

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37	Continuous and reversible tuning of the disorder-driven superconductor-insulator transition in bilayer graphene. Scientific Reports, 2015, 5, 13466.	3.3	6
38	Tuning Locality of Pair Coherence in Graphene-based Andreev Interferometers. Scientific Reports, 2015, 5, 8715.	3.3	7
39	Ultimately short ballistic vertical graphene Josephson junctions. Nature Communications, 2015, 6, 6181.	12.8	94
40	Observation of negative refraction of Dirac fermions in graphene. Nature Physics, 2015, 11, 925-929.	16.7	181
41	Local and Nonlocal Fraunhofer-like Pattern from an Edge-Stepped Topological Surface Josephson Current Distribution. Nano Letters, 2014, 14, 5029-5034.	9.1	23
42	Complete gate control of supercurrent in graphene p-n junctions. Nature Communications, 2013, 4, 2525.	12.8	58
43	Josephson Coupling Realized in Graphite-Based Vertical Junction. Applied Physics Express, 2013, 6, 025102.	2.4	4
44	Observation of supercurrent in Pbn-graphene-Pbn Josephson junction. Physical Review B, 2011, 83, .	3.2	70
45	Electrically Tunable Macroscopic Quantum Tunneling in a Graphene-Based Josephson Junction. Physical Review Letters, 2011, 107, 146605.	7.8	62
46	Non-collective Josephson-Vortex Motion Induced by Pancake-Vortex Pinning in Stacked Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1071-1074.	1.8	2
47	Switching dynamics in a short and a long natural Josephson junction of Bi ₂ Sr ₂ CaCu ₂ O ₈ + single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, S815-S816.	1.2	0
48	Current distribution of collective thermal depinning of Josephson vortices in naturally stacked Josephson junctions. Physical Review B, 2010, 81, .	3.2	2
49	Coexisting multiple dynamic states generated by magnetic field in Bi ₂ Sr ₂ CaCu ₂ O ₈ + stacked Josephson junctions. Europhysics Letters, 2009, 88, 27007.	2.0	4