

# Joon Sue Lee

## List of Publications by Citations

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38  
papers

2,637  
citations

19  
h-index

40  
g-index

40  
ext. papers

3,171  
ext. citations

9.7  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
38	Spin-transfer torque generated by a topological insulator. <i>Nature</i> , <b>2014</b> , 511, 449-51	50.4	851
37	Quantized Majorana conductance. <i>Nature</i> , <b>2018</b> , 556, 74-79	50.4	382
36	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 7126-32	11.5	200
35	Epitaxy of advanced nanowire quantum devices. <i>Nature</i> , <b>2017</b> , 548, 434-438	50.4	192
34	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator-Ferromagnetic-Insulator Heterostructures. <i>Physical Review Letters</i> , <b>2016</b> , 117, 076601	7.4	130
33	Coherent heteroepitaxy of Bi <sub>2</sub> Se <sub>3</sub> on GaAs (111)B. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262104	3.4	116
32	Superconducting proximity effect and possible evidence for Pearl vortices in a candidate topological insulator. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	115
31	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	66
30	Anomalous anisotropic magnetoresistance in topological insulator films. <i>Nano Research</i> , <b>2012</b> , 5, 739-746	6.0	59
29	Molecular beam epitaxial growth of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> topological insulators on GaAs (111) substrates: a potential route to fabricate topological insulator p-n junction. <i>AIP Advances</i> , <b>2013</b> , 3, 072112	1.5	56
28	Unidirectional spin-Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. <i>Nature Communications</i> , <b>2018</b> , 9, 111	17.4	55
27	Electric field tunable superconductor-semiconductor coupling in Majorana nanowires. <i>New Journal of Physics</i> , <b>2018</b> , 20, 103049	2.9	44
26	Characterizing the structure of topological insulator thin films. <i>APL Materials</i> , <b>2015</b> , 3, 083303	5.7	40
25	Ferromagnetism and spin-dependent transport in n-type Mn-doped bismuth telluride thin films. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	40
24	Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	26
23	Conductance-Matrix Symmetries of a Three-Terminal Hybrid Device. <i>Physical Review Letters</i> , <b>2020</b> , 124, 036802	7.4	22
22	Sum-rule constraints on the surface state conductance of topological insulators. <i>Physical Review Letters</i> , <b>2015</b> , 115, 116804	7.4	20

21	End-to-end correlated subgap states in hybrid nanowires. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	20
20	Faraday Rotation Due to Surface States in the Topological Insulator (BiSb)Te. <i>Nano Letters</i> , <b>2017</b> , 17, 980-984	11.5	19
19	Infrared electrodynamics and ferromagnetism in the topological semiconductors Bi <sub>2</sub> Te <sub>3</sub> and Mn-doped Bi <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	19
18	In-plane selective area InSb/Al nanowire quantum networks. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	18
17	Engineering the breaking of time-reversal symmetry in gate-tunable hybrid ferromagnet/topological insulator heterostructures. <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	17
16	Transport Studies of Epi-Al/InAs Two-Dimensional Electron Gas Systems for Required Building-Blocks in Topological Superconductor Networks. <i>Nano Letters</i> , <b>2019</b> , 19, 3083-3090	11.5	15
15	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127705	7.4	15
14	Materials considerations for forming the topological insulator phase in InAs/GaSb heterostructures. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	14
13	Transport studies in a gate-tunable three-terminal Josephson junction. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	13
12	Parity-preserving and magnetic field-resilient superconductivity in InSb nanowires with Sn shells. <i>Science</i> , <b>2021</b> , 372, 508-511	33.3	13
11	Topological materials by molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 210902	2.5	12
10	Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
9	Contribution of top barrier materials to high mobility in near-surface InAs quantum wells grown on GaSb(001). <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	8
8	Large-scale interlayer rotations and Te grain boundaries in (Bi,Sb) <sub>2</sub> Te <sub>3</sub> thin films. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	8
7	On the understanding of current-induced spin polarization of three-dimensional topological insulators. <i>Nature Communications</i> , <b>2019</b> , 10, 1461	17.4	7
6	Structure and basal twinning of topological insulator Bi <sub>2</sub> Se <sub>3</sub> grown by MBE onto crystalline Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	7
5	Adsorption-controlled growth of MnTe(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> by molecular beam epitaxy exhibiting stoichiometry-controlled magnetism. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	7
4	Evaluation of the vortex core size in gate-tunable Josephson junctions in Corbino geometry. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1

- 3 Supercurrent parity meter in a nanowire Cooper pair transistor.. *Science Advances*, **2022**, 8, eabm9896 14.3 ○
- 2 Probing Two-dimensional (Bi,Sb)<sub>2</sub>Te<sub>3</sub>/h-BN Heterostructures Using Complementary S/TEM and Simulation Techniques. *Microscopy and Microanalysis*, **2017**, 23, 1760-1761 0.5
- 1 S/TEM Investigation of the Structure of (Bi,Sb)<sub>2</sub>Te<sub>3</sub>/h-BN Heterostructures Grown by Molecular Beam Epitaxy. *Microscopy and Microanalysis*, **2016**, 22, 1602-1603 0.5