

# Joon Sue Lee

## List of Publications by Year in descending order

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37  
papers

3,529  
citations

304701

22  
h-index

345203

36  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-transfer torque generated by a topological insulator. <i>Nature</i> , 2014, 511, 449-451.	27.8	1,134
2	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator $\text{Bi}_2\text{Se}_3$ . <i>Nano Letters</i> , 2015, 15, 7126-7132.	9.1	257
3	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator/Ferromagnetic-Insulator Heterostructures. <i>Physical Review Letters</i> , 2016, 117, 076601.	7.8	162
4	Coherent heteroepitaxy of $\text{Bi}_2\text{Se}_3$ on GaAs (111)B. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	132
5	Superconducting proximity effect and possible evidence for Pearl vortices in a candidate topological insulator. <i>Physical Review B</i> , 2011, 84, .	3.2	128
6	Unidirectional spin-Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. <i>Nature Communications</i> , 2018, 9, 111.	12.8	87
7	Electric field tunable superconductor-semiconductor coupling in Majorana nanowires. <i>New Journal of Physics</i> , 2018, 20, 103049.	2.9	81
8	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. <i>Physical Review B</i> , 2015, 92, .	3.2	78
9	Conductance-Matrix Symmetries of a Three-Terminal Hybrid Device. <i>Physical Review Letters</i> , 2020, 124, 036802.	7.8	72
10	Anomalous anisotropic magnetoresistance in topological insulator films. <i>Nano Research</i> , 2012, 5, 739-746.	10.4	71
11	Molecular beam epitaxial growth of $\text{Bi}_2\text{Te}_3$ and $\text{Sb}_2\text{Te}_3$ topological insulators on GaAs (111) substrates: a potential route to fabricate topological insulator p-n junction. <i>AIP Advances</i> , 2013, 3, .	1.3	66
12	Ferromagnetism and spin-dependent transport in Mn-doped bismuth telluride thin films. <i>Physical Review B</i> , 2014, 89, .	3.2	52
13	Parity-preserving and magnetic field-resilient superconductivity in InSb nanowires with Sn shells. <i>Science</i> , 2021, 372, 508-511.	12.6	50
14	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> , 2019, 3, .	2.4	48
15	Characterizing the structure of topological insulator thin films. <i>APL Materials</i> , 2015, 3, .	5.1	46
16	Transport studies in a gate-tunable three-terminal Josephson junction. <i>Physical Review B</i> , 2020, 101, .	3.2	44
17	Transport Studies of Epi-Al/InAs Two-Dimensional Electron Gas Systems for Required Building-Blocks in Topological Superconductor Networks. <i>Nano Letters</i> , 2019, 19, 3083-3090.	9.1	38
18	In-plane selective area InSb-Al nanowire quantum networks. <i>Communications Physics</i> , 2020, 3, .	5.3	37

#	ARTICLE	IF	CITATIONS
19	End-to-end correlated subgap states in hybrid nanowires. <i>Physical Review B</i> , 2019, 100, .	3.2	36
20	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 127705.	7.8	27
21	Sum-Rule Constraints on the Surface State Conductance of Topological Insulators. <i>Physical Review Letters</i> , 2015, 115, 116804.	7.8	22
22	Infrared electrodynamics and ferromagnetism in the topological semiconductors $\text{Bi}_2\text{Te}_3$ and Mn-doped $\text{Bi}_2\text{Te}_3$ . <i>Physical Review B</i> , 2014, 89, .	3.2	21
23	Faraday Rotation Due to Surface States in the Topological Insulator $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$ . <i>Nano Letters</i> , 2017, 17, 980-984.	9.1	21
24	Topological materials by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	21
25	Engineering the breaking of time-reversal symmetry in gate-tunable hybrid ferromagnet/topological insulator heterostructures. <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	20
26	Materials considerations for forming the topological insulator phase in InAs/GaSb heterostructures. <i>Physical Review Materials</i> , 2018, 2, .	2.4	17
27	Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , 2019, 99, .	3.2	16
28	Adsorption-controlled growth of $\text{MnTe}$ by molecular beam epitaxy exhibiting stoichiometry-controlled magnetism. <i>Physical Review Materials</i> , 2020, 4, .	2.4	15
29	Contribution of top barrier materials to high mobility in near-surface InAs quantum wells grown on GaSb(001). <i>Physical Review Materials</i> , 2019, 3, .	2.4	12
30	Structure and basal twinning of topological insulator $\text{Bi}_2\text{S}_3$ . <i>Physical Review Materials</i> , 2020, 4, .	2.4	12
31	Large-scale interlayer rotations and Te grain boundaries in $\text{Bi}_2\text{Te}_3$ thin films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	10
32	On the understanding of current-induced spin polarization of three-dimensional topological insulators. <i>Nature Communications</i> , 2019, 10, 1461.	12.8	9
33	Supercurrent parity meter in a nanowire Cooper pair transistor. <i>Science Advances</i> , 2022, 8, eabm9896.	10.3	5
34	Evaluation of the vortex core size in gate-tunable Josephson junctions in Corbino geometry. <i>Physical Review B</i> , 2020, 102, .	3.2	3
35	Unidirectional spin Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures (Conference Presentation). , 2018, , .		1
36	S/TEM Investigation of the Structure of $(\text{Bi,Sb})_2\text{Te}_3/\text{h-BN}$ Heterostructures Grown by Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1602-1603.	0.4	0

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37	Probing Two-dimensional (Bi,Sb)2Te3/h-BN Heterostructures Using Complementary S/TEM and Simulation Techniques. <i>Microscopy and Microanalysis</i> , 2017, 23, 1760-1761.	0.4	0