Thomas Jespersen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43 papers	3,211 citations	22 h-index	47 g-index
47 ext. papers	3,824 ext. citations	10.6 avg, IF	5.05 L-index

#	Paper	IF	Citations
43	Exponential protection of zero modes in Majorana islands. *Nature*, **2016**, 531, 206-9	50.4	675
42	Epitaxy of semiconductor-superconductor nanowires. *Nature Materials*, **2015**, 14, 400-6	27	280
41	Hard gap in epitaxial semiconductor-superconductor nanowires. *Nature Nanotechnology*, **2015**, 10, 232-6	28.7	259
40	Milestones Toward Majorana-Based Quantum Computing. *Physical Review X*, **2016**, 6,	9.1	258
39	A high-mobility two-dimensional electron gas at the spinel/perovskite interface of Al2O3/SrTiO3. *Nature Communications*, **2013**, 4, 1371	17.4	235
38	Semiconductor-Nanowire-Based Superconducting Qubit. *Physical Review Letters*, **2015**, 115, 127001	7.4	187
37	Extreme mobility enhancement of two-dimensional electron gases at oxide interfaces by charge-transfer-induced modulation doping. *Nature Materials*, **2015**, 14, 801-6	27	151
36	Tunneling spectroscopy of quasiparticle bound states in a spinful Josephson junction. *Physical Review Letters*, **2013**, 110, 217005	7.4	130
35	Parity lifetime of bound states in a proximitized semiconductor nanowire. *Nature Physics*, **2015**, 11, 1017-1021	16.2	129
34	Gate-dependent spin-orbit coupling in multielectron carbon nanotubes. *Nature Physics*, **2011**, 7, 348-353	16.2	116
33	Giant fluctuations and gate control of the g-factor in InAs nanowire quantum dots. *Nano Letters*, **2008**, 8, 3932-5	11.5	81
32	Charge trapping in carbon nanotube loops demonstrated by electrostatic force microscopy. *Nano Letters*, **2005**, 5, 1838-41	11.5	70
31	Transport Signatures of Quasiparticle Poisoning in a Majorana Island. *Physical Review Letters*, **2017**, 118, 137701	7.4	62
30	Quantization of Hall Resistance at the Metallic Interface between an Oxide Insulator and SrTiO_{3}. *Physical Review Letters*, **2016**, 117, 096804	7.4	62
29	Kondo physics in tunable semiconductor nanowire quantum dots. *Physical Review B*, **2006**, 74,	3.3	57
28	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. *Physical Review Materials*, **2018**, 2,	3.2	50
27	Mapping of individual carbon nanotubes in polymer/nanotube composites using electrostatic force microscopy. *Applied Physics Letters*, **2007**, 90, 183108	3.4	43

26	Evolution of Nanowire Transmon Qubits and Their Coherence in a Magnetic Field. *Physical Review Letters*, **2018**, 120, 100502	7.4	38
25	Stimulating Oxide Heterostructures: A Review on Controlling SrTiO3-Based Heterointerfaces with External Stimuli. *Advanced Materials Interfaces*, **2019**, 6, 1900772	4.6	35
24	Evidence of weak superconductivity at the room-temperature grown LaAlO3/SrTiO3 interface. *Physical Review B*, **2016**, 93,	3.3	31
23	Shadow Epitaxy for In Situ Growth of Generic Semiconductor/Superconductor Hybrids. *Advanced Materials*, **2020**, 32, e1908411	24	28
22	Mesoscopic conductance fluctuations in InAs nanowire-based SNS junctions. *New Journal of Physics*, **2009**, 11, 113025	2.9	25
21	Controlling the Carrier Density of SrTiO3-Based Heterostructures with Annealing. *Advanced Electronic Materials*, **2017**, 3, 1700026	6.4	21
20	Diluted Oxide Interfaces with Tunable Ground States. *Advanced Materials*, **2019**, 31, e1805970	24	19
19	Transport and excitations in a negative-U quantum dot at the LaAlO/SrTiO interface. *Nature Communications*, **2017**, 8, 395	17.4	18
18	Gate-dependent orbital magnetic moments in carbon nanotubes. *Physical Review Letters*, **2011**, 107, 186802	7.4	17
17	Highly Transparent Gatable Superconducting Shadow Junctions. *ACS Nano*, **2020**, 14, 14605-14615	16.7	16
16	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. *Nanotechnology*, **2016**, 27, 305704	3.4	16
15	Superconducting vanadium/indium-arsenide hybrid nanowires. *Nanotechnology*, **2019**, 30, 294005	3.4	15
14	Electric field control of the □Al2O3/SrTiO3 interface conductivity at room temperature. *Applied Physics Letters*, **2016**, 109, 021602	3.4	15
13	Patterning of high mobility electron gases at complex oxide interfaces. *Applied Physics Letters*, **2015**, 107, 191604	3.4	14
12	Crystal orientation dependence of the spin-orbit coupling in InAs nanowires. *Physical Review B*, **2018**, 97,	3.3	10
11	Probing the spatial electron distribution in InAs nanowires by anisotropic magnetoconductance fluctuations. *Physical Review B*, **2015**, 91,	3.3	7
10	Nonequilibrium cotunneling through a three-level quantum dot. *Physical Review B*, **2009**, 79,	3.3	7
9	On the emergence of conductivity at SrTiO-based oxide interfaces - an in-situ study. *Scientific Reports*, **2019**, 9, 18005	4.9	6

8	Raman spectroscopy and electrical properties of InAs nanowires with local oxidation enabled by substrate micro-trenches and laser irradiation. *Applied Physics Letters*, **2015**, 107, 243101	3.4	5
7	Nanoscale patterning of electronic devices at the amorphous LaAlO3/SrTiO3 oxide interface using an electron sensitive polymer mask. *Applied Physics Letters*, **2018**, 112, 171606	3.4	5
6	Comparison of gate geometries for tunable, local barriers in InAs nanowires. *Journal of Applied Physics*, **2012**, 112, 084323	2.5	4
5	Self-Formed, Conducting LaAlO3/SrTiO3 Micro-Membranes. *Advanced Functional Materials*, **2020**, 30, 1909964	15.6	4
4	Andreev Interference in the Surface Accumulation Layer of Half-Shell InAsSb/Al Hybrid Nanowires.. *Advanced Materials*, **2022**, e2108878	24	2
3	Superconductivity and Parity Preservation in As-Grown In Islands on InAs Nanowires. *Nano Letters*, **2021**, 21, 9875-9881	11.5	2
2	Size-Controlled Spalling of LaAlO/SrTiO Micromembranes. *ACS Applied Materials & Interfaces*, **2021**, 13, 12341-12346	9.5	2
1	Multiterminal Quantized Conductance in InSb Nanocrosses. *Advanced Materials*, **2021**, 33, e2100078	24	1