

# Thomas Jespersen

## List of Publications by Year in Descending Order

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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	Andreev Interference in the Surface Accumulation Layer of Half-Shell InAsSb/Al Hybrid Nanowires.. <i>Advanced Materials</i> , <b>2022</b> , e2108878	24	2
42	Superconductivity and Parity Preservation in As-Grown In Islands on InAs Nanowires. <i>Nano Letters</i> , <b>2021</b> , 21, 9875-9881	11.5	2
41	Size-Controlled Spalling of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Micromembranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12341-12346	9.5	2
40	Multiterminal Quantized Conductance in InSb Nanocrosses. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100078	24	1
39	Highly Transparent Gatable Superconducting Shadow Junctions. <i>ACS Nano</i> , <b>2020</b> , 14, 14605-14615	16.7	16
38	Shadow Epitaxy for In Situ Growth of Generic Semiconductor/Superconductor Hybrids. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908411	24	28
37	Self-Formed, Conducting LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Micro-Membranes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909964	15.6	4
36	Superconducting vanadium/indium-arsenide hybrid nanowires. <i>Nanotechnology</i> , <b>2019</b> , 30, 294005	3.4	15
35	Stimulating Oxide Heterostructures: A Review on Controlling SrTiO <sub>3</sub> -Based Heterointerfaces with External Stimuli. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900772	4.6	35
34	On the emergence of conductivity at SrTiO <sub>3</sub> -based oxide interfaces - an in-situ study. <i>Scientific Reports</i> , <b>2019</b> , 9, 18005	4.9	6
33	Diluted Oxide Interfaces with Tunable Ground States. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805970	24	19
32	Evolution of Nanowire Transmon Qubits and Their Coherence in a Magnetic Field. <i>Physical Review Letters</i> , <b>2018</b> , 120, 100502	7.4	38
31	Crystal orientation dependence of the spin-orbit coupling in InAs nanowires. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
30	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	50
29	Nanoscale patterning of electronic devices at the amorphous LaAlO <sub>3</sub> /SrTiO <sub>3</sub> oxide interface using an electron sensitive polymer mask. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 171606	3.4	5
28	Transport Signatures of Quasiparticle Poisoning in a Majorana Island. <i>Physical Review Letters</i> , <b>2017</b> , 118, 137701	7.4	62
27	Transport and excitations in a negative-U quantum dot at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Nature Communications</i> , <b>2017</b> , 8, 395	17.4	18

26	Controlling the Carrier Density of SrTiO <sub>3</sub> -Based Heterostructures with Annealing. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700026	6.4	21
25	Quantization of Hall Resistance at the Metallic Interface between an Oxide Insulator and SrTiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 096804	7.4	62
24	Evidence of weak superconductivity at the room-temperature grown LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	31
23	Exponential protection of zero modes in Majorana islands. <i>Nature</i> , <b>2016</b> , 531, 206-9	50.4	675
22	Electric field control of the Al <sub>2</sub> O <sub>3</sub> /SrTiO <sub>3</sub> interface conductivity at room temperature. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 021602	3.4	15
21	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. <i>Nanotechnology</i> , <b>2016</b> , 27, 305704	3.4	16
20	Milestones Toward Majorana-Based Quantum Computing. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	258
19	Epitaxy of semiconductor-superconductor nanowires. <i>Nature Materials</i> , <b>2015</b> , 14, 400-6	27	280
18	Probing the spatial electron distribution in InAs nanowires by anisotropic magnetoconductance fluctuations. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	7
17	Parity lifetime of bound states in a proximitized semiconductor nanowire. <i>Nature Physics</i> , <b>2015</b> , 11, 1017-1021	16.21	129
16	Semiconductor-Nanowire-Based Superconducting Qubit. <i>Physical Review Letters</i> , <b>2015</b> , 115, 127001	7.4	187
15	Raman spectroscopy and electrical properties of InAs nanowires with local oxidation enabled by substrate micro-trenches and laser irradiation. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 243101	3.4	5
14	Patterning of high mobility electron gases at complex oxide interfaces. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 191604	3.4	14
13	Extreme mobility enhancement of two-dimensional electron gases at oxide interfaces by charge-transfer-induced modulation doping. <i>Nature Materials</i> , <b>2015</b> , 14, 801-6	27	151
12	Hard gap in epitaxial semiconductor-superconductor nanowires. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 232-238	8.7	259
11	Tunneling spectroscopy of quasiparticle bound states in a spinful Josephson junction. <i>Physical Review Letters</i> , <b>2013</b> , 110, 217005	7.4	130
10	A high-mobility two-dimensional electron gas at the spinel/perovskite interface of Al <sub>2</sub> O <sub>3</sub> /SrTiO <sub>3</sub> . <i>Nature Communications</i> , <b>2013</b> , 4, 1371	17.4	235
9	Comparison of gate geometries for tunable, local barriers in InAs nanowires. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 084323	2.5	4

- 8 Gate-dependent spin-orbit coupling in multielectron carbon nanotubes. *Nature Physics*, **2011**, 7, 348-353 16.2 116
- 7 Gate-dependent orbital magnetic moments in carbon nanotubes. *Physical Review Letters*, **2011**, 107, 186802 7.4 17
- 6 Mesoscopic conductance fluctuations in InAs nanowire-based SNS junctions. *New Journal of Physics*, **2009**, 11, 113025 2.9 25
- 5 Nonequilibrium cotunneling through a three-level quantum dot. *Physical Review B*, **2009**, 79, 333001 3.3 7
- 4 Giant fluctuations and gate control of the g-factor in InAs nanowire quantum dots. *Nano Letters*, **2008**, 8, 3932-5 11.5 81
- 3 Mapping of individual carbon nanotubes in polymer/nanotube composites using electrostatic force microscopy. *Applied Physics Letters*, **2007**, 90, 183108 3.4 43
- 2 Kondo physics in tunable semiconductor nanowire quantum dots. *Physical Review B*, **2006**, 74, 041404 3.3 57
- 1 Charge trapping in carbon nanotube loops demonstrated by electrostatic force microscopy. *Nano Letters*, **2005**, 5, 1838-41 11.5 70