Thomas Jespersen

List of Publications by Year
in descending order

47 papers	4,275 citations	218662 26 h-index	223791 46 g-index
47 all docs	47 docs citations	47 times ranked	3950 citing authors

#	Article	IF	Citations
1	Exponential protection of zero modes in Majorana islands. Nature, 2016, 531, 206-209.	27.8	877
2	Milestones Toward Majorana-Based Quantum Computing. Physical Review X, 2016, 6, .	8.9	387
3	Epitaxy of semiconductorâ€“superconductor nanowires. Nature Materials, 2015, 14, 400-406.	27.5	381
4	Hard gap in epitaxial semiconductorâ€“superconductor nanowires. Nature Nanotechnology, 2015, 10, 232-236.	31.5	331
5	Semiconductor-Nanowire-Based Superconducting Qubit. Physical Review Letters, 2015, 115, 127001.	7.8	287
6	A high-mobility two-dimensional electron gas at the spinel/perovskite interface of Î³-Al2O3/SrTiO3. Nature Communications, 2013, 4, 1371.	12.8	285
7	Extreme mobility enhancement ofÂtwo-dimensional electron gases at oxide interfaces byÂcharge-transfer-induced modulationÂdoping. Nature Materials, 2015, 14, 801-806.	27.5	174
8	Parity lifetime of bound states in a proximitized semiconductor nanowire. Nature Physics, 2015, 11, 1017-1021.	16.7	160
9	Tunneling Spectroscopy of Quasiparticle Bound States in a Spinful Josephson Junction. Physical Review Letters, 2013, 110, 217005.	7.8	151
10	Gate-dependent spinâ€“orbit coupling in multielectron carbon nanotubes. Nature Physics, 2011, 7, 348-353.	16.7	122
11	Giant Fluctuations and Gate Control of the <i>g</i>-Factor in InAs Nanowire Quantum Dots. Nano Letters, 2008, 8, 3932-3935.	9.1	90
12	Quantization of Hall Resistance at the Metallic Interface between an Oxide Insulator and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2016, 117, 096804.	7.8	87
13	Transport Signatures of Quasiparticle Poisoning in a Majorana Island. Physical Review Letters, 2017, 118, 137701.	7.8	84
14	Charge Trapping in Carbon Nanotube Loops Demonstrated by Electrostatic Force Microscopy. Nano Letters, 2005, 5, 1838-1841.	9.1	75
15	Kondo physics in tunable semiconductor nanowire quantum dots. Physical Review B, 2006, 74, .	3.2	65
16	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. Physical Review Materials, 2018, 2, .	2.4	65
17	Evolution of Nanowire Transmon Qubits and Their Coherence in a Magnetic Field. Physical Review Letters, 2018, 120, 100502.	7.8	63
18	Stimulating Oxide Heterostructures: A Review on Controlling SrTiO₃â€Based Heterointerfaces with External Stimuli. Advanced Materials Interfaces, 2019, 6, 1900772.	3.7	56

#	Article	IF	Citations
19	Mapping of individual carbon nanotubes in polymer/nanotube composites using electrostatic force microscopy. Applied Physics Letters, 2007, 90, 183108.	3.3	52
20	Shadow Epitaxy for In Situ Growth of Generic Semiconductor/Superconductor Hybrids. Advanced Materials, 2020, 32, e1908411.	21.0	51
21	Evidence of weak superconductivity at the room-temperature grown<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></m Physical Review B, 2016, 93, .	3.2	41
22	Freestanding Perovskite Oxide Films: Synthesis, Challenges, and Properties. Annalen Der Physik, 2022, 534, .	2.4	36
23	Highly Transparent Gatable Superconducting Shadow Junctions. ACS Nano, 2020, 14, 14605-14615.	14.6	32
24	Transport and excitations in a negative-U quantum dot at the LaAlO3/SrTiO3 interface. Nature Communications, 2017, 8, 395.	12.8	31
25	Controlling the Carrier Density of SrTiO₃â€Based Heterostructures with Annealing. Advanced Electronic Materials, 2017, 3, 1700026.	5.1	28
26	Diluted Oxide Interfaces with Tunable Ground States. Advanced Materials, 2019, 31, e1805970.	21.0	28
27	Mesoscopic conductance fluctuations in InAs nanowire-based SNS junctions. New Journal of Physics, 2009, 11, 113025.	2.9	27
28	Superconducting vanadium/indium-arsenide hybrid nanowires. Nanotechnology, 2019, 30, 294005.	2.6	22
29	Gate-Dependent Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2011, 107, 186802.	7.8	20
30	Electric field control of the Î³-Al2O3/SrTiO3 interface conductivity at room temperature. Applied Physics Letters, 2016, 109, .	3.3	20
31	Patterning of high mobility electron gases at complex oxide interfaces. Applied Physics Letters, 2015, 107, .	3.3	18
32	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. Nanotechnology, 2016, 27, 305704.	2.6	18
33	Selfâ€Formed, Conducting LaAlO₃/SrTiO₃ Microâ€Membranes. Advanced Functional Materials, 2020, 30, 1909964.	14.9	17
34	Crystal orientation dependence of the spin-orbit coupling in InAs nanowires. Physical Review B, 2018, 97, .	3.2	15
35	Size-Controlled Spalling of LaAlO₃/SrTiO₃ Micromembranes. ACS Applied Materials & Interfaces, 2021, 13, 12341-12346.	8.0	11
36	On the emergence of conductivity at SrTiO3-based oxide interfaces â€“ an in-situ study. Scientific Reports, 2019, 9, 18005.	3.3	10

#	Article	IF	Citations
37	A Two-Dimensional Superconducting Electron Gas in Freestanding LaAlO₃/SrTiO₃ Micromembranes. Nano Letters, 2022, 22, 4758-4764.	9.1	9
38	Nonequilibrium cotunneling through a three-level quantum dot. Physical Review B, 2009, 79, .	3.2	7
39	Probing the spatial electron distribution in InAs nanowires by anisotropic magnetoconductance fluctuations. Physical Review B, 2015, 91, .	3.2	7
40	Superconductivity and Parity Preservation in As-Grown In Islands on InAs Nanowires. Nano Letters, 2021, 21, 9875-9881.	9.1	7
41	Nanoscale patterning of electronic devices at the amorphous LaAlO3/SrTiO3 oxide interface using an electron sensitive polymer mask. Applied Physics Letters, 2018, 112, .	3.3	6
42	Multiterminal Quantized Conductance in InSb Nanocrosses. Advanced Materials, 2021, 33, 2100078.	21.0	6
43	Comparison of gate geometries for tunable, local barriers in InAs nanowires. Journal of Applied Physics, 2012, 112, .	2.5	5
44	Raman spectroscopy and electrical properties of InAs nanowires with local oxidation enabled by substrate micro-trenches and laser irradiation. Applied Physics Letters, 2015, 107, .	3.3	5
45	Andreev Interference in the Surface Accumulation Layer of Halfâ€Shell InAsSb/Al Hybrid Nanowires. Advanced Materials, 2022, 34, e2108878.	21.0	4
46	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> -factors in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><m quantum dots. Physical Review Materials, 2020, 4, .	2.4	2
47	Coupling of shells in a carbon nanotube quantum dot. Physical Review B, 2019, 99, .	3.2	0