

Tudor D Stanescu

List of Publications by Year in descending order

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48
papers

3,578
citations

249298

26
h-index

232693

48
g-index

48
all docs

48
docs citations

48
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Partially separated Majorana modes in a disordered medium. <i>Physical Review B</i> , 2022, 105, .	1.1	14
2	Enhanced topological superconductivity in spatially modulated planar Josephson junctions. <i>Physical Review B</i> , 2021, 104, .	1.1	14
3	Giant Third-Harmonic Optical Generation from Topological Insulator Heterostructures. <i>Nano Letters</i> , 2021, 21, 8872-8879.	4.5	5
4	Charge-Impurity Effects in Hybrid Majorana Nanowires. <i>Physical Review Applied</i> , 2021, 16, .	1.5	24
5	Estimating disorder and its adverse effects in semiconductor Majorana nanowires. <i>Physical Review Materials</i> , 2021, 5, .	0.9	40
6	Majorana fermions go for a ride. <i>Science</i> , 2020, 367, 23-24.	6.0	1
7	Feasibility of measurement-based braiding in the quasi-Majorana regime of semiconductor-superconductor heterostructures. <i>Physical Review B</i> , 2020, 102, .	1.1	10
8	Hybridization energy oscillations of Majorana and Andreev bound states in semiconductor-superconductor nanowire heterostructures. <i>Physical Review B</i> , 2020, 101, .	1.1	6
9	Enhanced topological protection in planar quasi-one-dimensional channels with periodically modulated width. <i>Physical Review B</i> , 2020, 101, .	1.1	10
10	Subband occupation in semiconductor-superconductor nanowires. <i>Physical Review B</i> , 2020, 101, .	1.1	23
11	Robust low-energy Andreev bound states in semiconductor-superconductor structures: Importance of partial separation of component Majorana bound states. <i>Physical Review B</i> , 2019, 100, .	1.1	52
12	Zero-energy pinning of topologically trivial bound states in multiband semiconductor-superconductor nanowires. <i>Physical Review B</i> , 2019, 100, .	1.1	55
13	Conductance smearing and anisotropic suppression of induced superconductivity in a Majorana nanowire. <i>Physical Review B</i> , 2019, 99, .	1.1	18
14	Electronic structure of full-shell InAs/Al hybrid semiconductor-superconductor nanowires: Spin-orbit coupling and topological phase space. <i>Physical Review B</i> , 2019, 99, .	1.1	18
15	Analytical solution of the finite-length Kitaev chain coupled to a quantum dot. <i>Physical Review B</i> , 2019, 99, .	1.1	9
16	Curvature of gap closing features and the extraction of Majorana nanowire parameters. <i>Physical Review B</i> , 2019, 99, .	1.1	11
17	Two-terminal charge tunneling: Disentangling Majorana zero modes from partially separated Andreev bound states in semiconductor-superconductor heterostructures. <i>Physical Review B</i> , 2018, 97, .	1.1	174
18	Building topological quantum circuits: Majorana nanowire junctions. <i>Physical Review B</i> , 2018, 97, .	1.1	21

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19	Robust topological phase in proximitized core-shell nanowires coupled to multiple superconductors. Beilstein Journal of Nanotechnology, 2018, 9, 1512-1526.	1.5	12
20	Quasiparticle gaps in multiprobe Majorana nanowires. Physical Review B, 2018, 98, .	1.1	10
21	Metamorphosis of Andreev bound states into Majorana bound states in pristine nanowires. Physical Review B, 2018, 98, .	1.1	33
22	Quantized zero-bias conductance plateau in semiconductor-superconductor heterostructures without topological Majorana zero modes. Physical Review B, 2018, 98, .	1.1	144
23	Effective theory approach to the Schrödinger-Poisson problem in semiconductor Majorana devices. Physical Review B, 2018, 98, .	1.1	74
24	Control and detection of Majorana bound states in quantum dot arrays. Physical Review B, 2018, 98, .	1.1	14
25	Andreev bound states versus Majorana bound states in quantum dot-nanowire-superconductor hybrid structures: Trivial versus topological zero-bias conductance peaks. Physical Review B, 2017, 96, .	1.1	310
26	Experimental phase diagram of zero-bias conductance peaks in superconductor/semiconductor nanowire devices. Science Advances, 2017, 3, e1701476.	4.7	159
27	Proximity-induced low-energy renormalization in hybrid semiconductor-superconductor Majorana structures. Physical Review B, 2017, 96, .	1.1	45
28	Tunneling conductance in semiconductor-superconductor hybrid structures. Physical Review B, 2017, 96, .	1.1	12
29	Hidden-symmetry decoupling of Majorana bound states in topological superconductors. Physical Review B, 2015, 91, .	1.1	10
30	Effects of large induced superconducting gap on semiconductor Majorana nanowires. Physical Review B, 2015, 92, .	1.1	56
31	Phase Diagram of a Three-Dimensional Antiferromagnet with Random Magnetic Anisotropy. Physical Review Letters, 2015, 114, 097201.	2.9	6
32	Soft superconducting gap in semiconductor-based Majorana nanowires. Physical Review B, 2014, 90, .	1.1	26
33	Dimensional crossover in spin-orbit-coupled semiconductor nanowires with induced superconducting pairing. Physical Review B, 2013, 87, .	1.1	49
34	Momentum relaxation in a semiconductor proximity-coupled to a disordered s -wave superconductor: Effect of scattering on topological superconductivity. Physical Review B, 2012, 85, .	1.1	39
35	Splitting of the zero-bias conductance peak as smoking gun evidence for the existence of the Majorana mode in a superconductor-semiconductor nanowire. Physical Review B, 2012, 86, .	1.1	256
36	To Close or Not to Close: The Fate of the Superconducting Gap Across the Topological Quantum Phase Transition in Majorana-Carrying Semiconductor Nanowires. Physical Review Letters, 2012, 109, 266402.	2.9	58

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37	Electrostatic effects and band bending in doped topological insulators. <i>Physical Review B</i> , 2012, 86, .	1.1	19
38	Search for Majorana Fermions in Multiband Semiconducting Nanowires. <i>Physical Review Letters</i> , 2011, 106, 127001.	2.9	239
39	Majorana fermions in semiconductor nanowires. <i>Physical Review B</i> , 2011, 84, .	1.1	332
40	Non-Abelian quantum order in spin-orbit-coupled semiconductors: Search for topological Majorana particles in solid-state systems. <i>Physical Review B</i> , 2010, 82, .	1.1	408
41	Topological states in two-dimensional optical lattices. <i>Physical Review A</i> , 2010, 82, .	1.0	109
42	Proximity effect at the superconductorâ€“topological insulator interface. <i>Physical Review B</i> , 2010, 81, .	1.1	178
43	Two-dimensional surface charge transport in topological insulators. <i>Physical Review B</i> , 2010, 82, .	1.1	162
44	Mott transition on a triangular lattice. <i>Physical Review B</i> , 2009, 79, .	1.1	26
45	Topological insulators and metals in atomic optical lattices. <i>Physical Review A</i> , 2009, 79, .	1.0	91
46	Effective Masses in a Strongly Anisotropic Fermi Liquid. <i>Physical Review Letters</i> , 2008, 101, 066405.	2.9	9
47	Nonequilibrium Spin Dynamics in a Trapped Fermi Gas with Effective Spin-Orbit Interactions. <i>Physical Review Letters</i> , 2007, 99, 110403.	2.9	116
48	Finite-Temperature Density Instability at High Landau Level Occupancy. <i>Physical Review Letters</i> , 2000, 84, 1288-1291.	2.9	71