

# S R Plissard

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

47  
papers

5,920  
citations

30  
h-index

53  
g-index

53  
ext. papers

6,855  
ext. citations

10.9  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
47	Integration of the Rhombohedral BiSb(0001) Topological Insulator on a Cubic GaAs(001) Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36492-36498	9.5	0
46	Erasing odd-parity states in semiconductor quantum dots coupled to superconductors. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
45	Ubiquitous Non-Majorana Zero-Bias Conductance Peaks in Nanowire Devices. <i>Physical Review Letters</i> , <b>2019</b> , 123, 107703	7.4	42
44	Spin-Orbit Protection of Induced Superconductivity in Majorana Nanowires. <i>Physical Review Letters</i> , <b>2019</b> , 122, 187702	7.4	30
43	Importance of point defect reactions for the atomic-scale roughness of III-V nanowire sidewalls. <i>Nanotechnology</i> , <b>2019</b> , 30, 324002	3.4	2
42	Iuliacumite: A Novel Chemical Short-Range Order in a Two-Dimensional Wurtzite Single Monolayer InAsSb Shell on InAs Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 8801-8805	11.5	1
41	Composition modulation by twinning in InAsSb nanowires. <i>Nanotechnology</i> , <b>2019</b> , 30, 324005	3.4	4
40	Insight of surface treatments for CMOS compatibility of InAs nanowires. <i>Nano Research</i> , <b>2019</b> , 12, 581-586		2
39	Split-Channel Ballistic Transport in an InSb Nanowire. <i>Nano Letters</i> , <b>2018</b> , 18, 2282-2287	11.5	15
38	Ballistic Majorana nanowire devices. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 192-197	28.7	185
37	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127705	7.4	15
36	Hard Superconducting Gap in InSb Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 2690-2696	11.5	80
35	Experimental phase diagram of zero-bias conductance peaks in superconductor/semiconductor nanowire devices. <i>Science Advances</i> , <b>2017</b> , 3, e1701476	14.3	115
34	Andreev molecules in semiconductor nanowire double quantum dots. <i>Nature Communications</i> , <b>2017</b> , 8, 585	17.4	35
33	Conductance through a helical state in an Indium antimonide nanowire. <i>Nature Communications</i> , <b>2017</b> , 8, 478	17.4	50
32	Supercurrent Interference in Few-Mode Nanowire Josephson Junctions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 187704	7.4	28
31	Ballistic superconductivity in semiconductor nanowires. <i>Nature Communications</i> , <b>2017</b> , 8, 16025	17.4	136

30	Observation of Conductance Quantization in InSb Nanowire Networks. <i>Nano Letters</i> , <b>2017</b> , 17, 6511-6515	11.5	27
29	InSb Nanowires with Built-In GaInSb Tunnel Barriers for Majorana Devices. <i>Nano Letters</i> , <b>2017</b> , 17, 721-727	11.5	6
28	Lazarevicite-type short-range ordering in ternary III-V nanowires. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
27	Influence of growth conditions on the performance of InP nanowire solar cells. <i>Nanotechnology</i> , <b>2016</b> , 27, 454003	3.4	8
26	Twin-Induced InSb Nanosails: A Convenient High Mobility Quantum System. <i>Nano Letters</i> , <b>2016</b> , 16, 825-833	11.5	61
25	Revealing the band structure of InSb nanowires by high-field magnetotransport in the quasiballistic regime. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	2
24	High-Yield Growth and Characterization of <100> InP p-n Diode Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 3071-3077	11.5	11
23	Josephson $\pi$ -junction in nanowire quantum dots. <i>Nature Physics</i> , <b>2016</b> , 12, 568-572	16.2	122
22	Conductance Quantization at Zero Magnetic Field in InSb Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 3482-6	11.5	71
21	Self-Equilibration of the Diameter of Ga-Catalyzed GaAs Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 5580-4	11.5	90
20	Exploring Crystal Phase Switching in GaP Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 8062-9	11.5	47
19	Realization of Microwave Quantum Circuits Using Hybrid Superconducting-Semiconducting Nanowire Josephson Elements. <i>Physical Review Letters</i> , <b>2015</b> , 115, 127002	7.4	120
18	Type I band alignment in GaAs <sub>81</sub> Sb <sub>19</sub> /GaAs core-shell nanowires. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 112102	11.5	13
17	Spin-orbit interaction in InSb nanowires. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	98
16	Towards high mobility InSb nanowire devices. <i>Nanotechnology</i> , <b>2015</b> , 26, 215202	3.4	68
15	Rationally designed single-crystalline nanowire networks. <i>Advanced Materials</i> , <b>2014</b> , 26, 4875-9	24	55
14	Gold-free ternary III-V antimonide nanowire arrays on silicon: twin-free down to the first bilayer. <i>Nano Letters</i> , <b>2014</b> , 14, 326-32	11.5	80
13	Reversible switching of InP nanowire growth direction by catalyst engineering. <i>Nano Letters</i> , <b>2013</b> , 13, 3802-6	11.5	95

12	Formation and electronic properties of InSb nanocrosses. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 859-64	28.7	106
11	Efficiency enhancement of InP nanowire solar cells by surface cleaning. <i>Nano Letters</i> , <b>2013</b> , 13, 4113-7	11.5	119
10	High optical quality single crystal phase wurtzite and zincblende InP nanowires. <i>Nanotechnology</i> , <b>2013</b> , 24, 115705	3.4	50
9	Quantized conductance in an InSb nanowire. <i>Nano Letters</i> , <b>2013</b> , 13, 387-91	11.5	111
8	Electrical control of single hole spins in nanowire quantum dots. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 170-4	28.7	107
7	Direct band gap wurtzite gallium phosphide nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 1559-63	11.5	230
6	Quantum computing based on semiconductor nanowires. <i>MRS Bulletin</i> , <b>2013</b> , 38, 809-815	3.2	36
5	Fast spin-orbit qubit in an indium antimonide nanowire. <i>Physical Review Letters</i> , <b>2013</b> , 110, 066806	7.4	123
4	From InSb nanowires to nanocubes: looking for the sweet spot. <i>Nano Letters</i> , <b>2012</b> , 12, 1794-8	11.5	102
3	Signatures of Majorana fermions in hybrid superconductor-semiconductor nanowire devices. <i>Science</i> , <b>2012</b> , 336, 1003-7	33.3	2788
2	Spectroscopy of spin-orbit quantum bits in indium antimonide nanowires. <i>Physical Review Letters</i> , <b>2012</b> , 108, 166801	7.4	222
1	Effects of crystal phase mixing on the electrical properties of InAs nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 2424-9	11.5	200