S R Plissard

List of Publications by Citations

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	Signatures of Majorana fermions in hybrid superconductor-semiconductor nanowire devices. *Science*, **2012**, 336, 1003-7	33.3	2788
46	Direct band gap wurtzite gallium phosphide nanowires. *Nano Letters*, **2013**, 13, 1559-63	11.5	230
45	Spectroscopy of spin-orbit quantum bits in indium antimonide nanowires. *Physical Review Letters*, **2012**, 108, 166801	7.4	222
44	Effects of crystal phase mixing on the electrical properties of InAs nanowires. *Nano Letters*, **2011**, 11, 2424-9	11.5	200
43	Ballistic Majorana nanowire devices. *Nature Nanotechnology*, **2018**, 13, 192-197	28.7	185
42	Ballistic superconductivity in semiconductor nanowires. *Nature Communications*, **2017**, 8, 16025	17.4	136
41	Fast spin-orbit qubit in an indium antimonide nanowire. *Physical Review Letters*, **2013**, 110, 066806	7.4	123
40	Josephson ?0-junction in nanowire quantum dots. *Nature Physics*, **2016**, 12, 568-572	16.2	122
39	Realization of Microwave Quantum Circuits Using Hybrid Superconducting-Semiconducting Nanowire Josephson Elements. *Physical Review Letters*, **2015**, 115, 127002	7.4	120
38	Efficiency enhancement of InP nanowire solar cells by surface cleaning. *Nano Letters*, **2013**, 13, 4113-7	11.5	119
37	Experimental phase diagram of zero-bias conductance peaks in superconductor/semiconductor nanowire devices. *Science Advances*, **2017**, 3, e1701476	14.3	115
36	Quantized conductance in an InSb nanowire. *Nano Letters*, **2013**, 13, 387-91	11.5	111
35	Electrical control of single hole spins in nanowire quantum dots. *Nature Nanotechnology*, **2013**, 8, 170-4	28.7	107
34	Formation and electronic properties of InSb nanocrosses. *Nature Nanotechnology*, **2013**, 8, 859-64	28.7	106
33	From InSb nanowires to nanocubes: looking for the sweet spot. *Nano Letters*, **2012**, 12, 1794-8	11.5	102
32	Spin-orbit interaction in InSb nanowires. *Physical Review B*, **2015**, 91,	3.3	98
31	Reversible switching of InP nanowire growth direction by catalyst engineering. *Nano Letters*, **2013**, 13, 3802-6	11.5	95

30	Self-Equilibration of the Diameter of Ga-Catalyzed GaAs Nanowires. *Nano Letters*, **2015**, 15, 5580-4	11.5	90
29	Hard Superconducting Gap in InSb Nanowires. *Nano Letters*, **2017**, 17, 2690-2696	11.5	80
28	Gold-free ternary III-V antimonide nanowire arrays on silicon: twin-free down to the first bilayer. *Nano Letters*, **2014**, 14, 326-32	11.5	80
27	Conductance Quantization at Zero Magnetic Field in InSb Nanowires. *Nano Letters*, **2016**, 16, 3482-6	11.5	71
26	Towards high mobility InSb nanowire devices. *Nanotechnology*, **2015**, 26, 215202	3.4	68
25	Twin-Induced InSb Nanosails: A Convenient High Mobility Quantum System. *Nano Letters*, **2016**, 16, 825-33	11.5	61
24	Rationally designed single-crystalline nanowire networks. *Advanced Materials*, **2014**, 26, 4875-9	24	55
23	High optical quality single crystal phase wurtzite and zincblende InP nanowires. *Nanotechnology*, **2013**, 24, 115705	3.4	50
22	Conductance through a helical state in an Indium antimonide nanowire. *Nature Communications*, **2017**, 8, 478	17.4	50
21	Exploring Crystal Phase Switching in GaP Nanowires. *Nano Letters*, **2015**, 15, 8062-9	11.5	47
20	Ubiquitous Non-Majorana Zero-Bias Conductance Peaks in Nanowire Devices. *Physical Review Letters*, **2019**, 123, 107703	7.4	42
19	Quantum computing based on semiconductor nanowires. *MRS Bulletin*, **2013**, 38, 809-815	3.2	36
18	Andreev molecules in semiconductor nanowire double quantum dots. *Nature Communications*, **2017**, 8, 585	17.4	35
17	Spin-Orbit Protection of Induced Superconductivity in Majorana Nanowires. *Physical Review Letters*, **2019**, 122, 187702	7.4	30
16	Supercurrent Interference in Few-Mode Nanowire Josephson Junctions. *Physical Review Letters*, **2017**, 119, 187704	7.4	28
15	Observation of Conductance Quantization in InSb Nanowire Networks. *Nano Letters*, **2017**, 17, 6511-6515	11.5	27
14	Split-Channel Ballistic Transport in an InSb Nanowire. *Nano Letters*, **2018**, 18, 2282-2287	11.5	15
13	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. *Physical Review Letters*, **2018**, 121, 127705	7.4	15

12	Type I band alignment in GaAs81Sb19/GaAs core-shell nanowires. *Applied Physics Letters*, **2015**, 107, 112102	3.4	13
11	High-Yield Growth and Characterization of <100> InP p-n Diode Nanowires. *Nano Letters*, **2016**, 16, 3071-7	11.5	11
10	Influence of growth conditions on the performance of InP nanowire solar cells. *Nanotechnology*, **2016**, 27, 454003	3.4	8
9	Erasing odd-parity states in semiconductor quantum dots coupled to superconductors. *Physical Review B*, **2020**, 101,	3.3	6
8	Lazarevicite-type short-range ordering in ternary III-V nanowires. *Physical Review B*, **2016**, 94,	3.3	6
7	InSb Nanowires with Built-In GaInSb Tunnel Barriers for Majorana Devices. *Nano Letters*, **2017**, 17, 721-727	11.5	6
6	Composition modulation by twinning in InAsSb nanowires. *Nanotechnology*, **2019**, 30, 324005	3.4	4
5	Importance of point defect reactions for the atomic-scale roughness of III-V nanowire sidewalls. *Nanotechnology*, **2019**, 30, 324002	3.4	2
4	Revealing the band structure of InSb nanowires by high-field magnetotransport in the quasiballistic regime. *Physical Review B*, **2016**, 94,	3.3	2
3	Insight of surface treatments for CMOS compatibility of InAs nanowires. *Nano Research*, **2019**, 12, 581-586	10	2
2	Iuliacumite: A Novel Chemical Short-Range Order in a Two-Dimensional Wurtzite Single Monolayer InAsSb Shell on InAs Nanowires. *Nano Letters*, **2019**, 19, 8801-8805	11.5	1
1	Integration of the Rhombohedral BiSb(0001) Topological Insulator on a Cubic GaAs(001) Substrate. *ACS Applied Materials & Interfaces*, **2021**, 13, 36492-36498	9.5	0