

Sebastian Heedt

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.

24
papers

403
citations

11
h-index

20
g-index

28
ext. papers

537
ext. citations

9.4
avg, IF

3.26
L-index

#	Paper	IF	Citations
24	Single-Shot Fabrication of Semiconducting/Superconducting Nanowire Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2102388	15.6	1
23	Full parity phase diagram of a proximitized nanowire island. <i>Physical Review B</i> , 2021 , 104,	3.3	5
22	Shadow-wall lithography of ballistic superconductor-semiconductor quantum devices. <i>Nature Communications</i> , 2021 , 12, 4914	17.4	8
21	Exfoliated hexagonal BN as gate dielectric for InSb nanowire quantum dots with improved gate hysteresis and charge noise. <i>Applied Physics Letters</i> , 2020 , 116, 253101	3.4	2
20	Transmission phase read-out of a large quantum dot in a nanowire interferometer. <i>Nature Communications</i> , 2020 , 11, 3666	17.4	2
19	High Mobility Stemless InSb Nanowires. <i>Nano Letters</i> , 2019 , 19, 3575-3582	11.5	18
18	Dresselhaus spin-orbit coupling in [111]-oriented semiconductor nanowires. <i>Physical Review B</i> , 2019 , 99,	3.3	5
17	Selectivity Map for Molecular Beam Epitaxy of Advanced III-V Quantum Nanowire Networks. <i>Nano Letters</i> , 2019 , 19, 218-227	11.5	51
16	Parity transitions in the superconducting ground state of hybrid InSb-Al Coulomb islands. <i>Nature Communications</i> , 2018 , 9, 4801	17.4	28
15	Signatures of interaction-induced helical gaps in nanowire quantum point contacts. <i>Nature Physics</i> , 2017 , 13, 563-567	16.2	57
14	Electrical properties of lightly Ga-doped ZnO nanowires. <i>Semiconductor Science and Technology</i> , 2017 , 32, 125010	1.8	6
13	Magnetoconductance correction in zinc-blende semiconductor nanowires with spin-orbit coupling. <i>Physical Review B</i> , 2017 , 96,	3.3	7
12	Impact of Tunnel-Barrier Strength on Magnetoresistance in Carbon Nanotubes. <i>Physical Review Applied</i> , 2016 , 5,	4.3	5
11	Weak (anti)localization in tubular semiconductor nanowires with spin-orbit coupling. <i>Physical Review B</i> , 2016 , 93,	3.3	21
10	Adiabatic Edge Channel Transport in a Nanowire Quantum Point Contact Register. <i>Nano Letters</i> , 2016 , 16, 4569-75	11.5	23
9	Crystal Phase Transformation in Self-Assembled InAs Nanowire Junctions on Patterned Si Substrates. <i>Nano Letters</i> , 2016 , 16, 1933-41	11.5	24
8	Electronic Properties of Complex Self-Assembled InAs Nanowire Networks. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500460	6.4	9

7	Confinement and inhomogeneous broadening effects in the quantum oscillatory magnetization of quantum dot ensembles. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 045301	1.8	2
6	Ballistic Transport and Exchange Interaction in InAs Nanowire Quantum Point Contacts. <i>Nano Letters</i> , 2016 , 16, 3116-23	11.5	37
5	Resolving ambiguities in nanowire field-effect transistor characterization. <i>Nanoscale</i> , 2015 , 7, 18188-97	7.7	25
4	Amphoteric nature of Sn in CdS nanowires. <i>Nano Letters</i> , 2014 , 14, 518-23	11.5	27
3	Frequency anomaly in the Rashba-effect induced magnetization oscillations of a high-mobility two-dimensional electron system. <i>Physical Review B</i> , 2013 , 87,	3.3	9
2	Electrical spin injection into InN semiconductor nanowires. <i>Nano Letters</i> , 2012 , 12, 4437-43	11.5	31
1	Toward Spin Electronic Devices Based on Semiconductor Nanowires	328-339	