

Christoph Strunk

List of Publications by Year in descending order

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42

papers

2,334

citations

471509

17

h-index

289244

40

g-index

45

all docs

45

docs citations

45

times ranked

3119

citing authors

#	ARTICLE	IF	CITATIONS
1	Aharonovâ€Bohm oscillations in carbon nanotubes. <i>Nature</i> , 1999, 397, 673-675.	27.8	736
2	Identification of excitons, trions and biexcitons in single-layer WS ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 457-461.	2.4	282
3	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. <i>Nature Physics</i> , 2018, 14, 801-805.	16.7	229
4	Superinsulator and quantum synchronization. <i>Nature</i> , 2008, 452, 613-615.	27.8	193
5	Interlayer exciton dynamics in a dichalcogenide monolayer heterostructure. <i>2D Materials</i> , 2017, 4, 025112.	4.4	146
6	Supercurrent rectification and magnetochiral effects in symmetric Josephson junctions. <i>Nature Nanotechnology</i> , 2022, 17, 39-44.	31.5	134
7	Giant magnetic splitting inducing near-unity valley polarization in van der Waals heterostructures. <i>Nature Communications</i> , 2017, 8, 1551.	12.8	105
8	Effect of Band Structure on Quantum Interference in Multiwall Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 186802.	7.8	94
9	Effect of Rashba and Dresselhaus spinâ€orbit coupling on supercurrent rectification and magnetochiral anisotropy of ballistic Josephson junctions. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 154005.	1.8	39
10	Broken SU(4) symmetry in a Kondo-correlated carbon nanotube. <i>Physical Review B</i> , 2015, 91, .	3.2	38
11	Direct observation of the superconducting gap in a thin film of titanium nitride using terahertz spectroscopy. <i>Physical Review B</i> , 2012, 86, .	3.2	34
12	Coherent population trapping by dark state formation in a carbon nanotube quantum dot. <i>Nature Communications</i> , 2019, 10, 381.	12.8	31
13	Weak localization and Raman study of anisotropically etched graphene antidots. <i>Applied Physics Letters</i> , 2013, 103, 143111.	3.3	29
14	Narrow-band high-lying excitonsâ€with negative-mass electrons in monolayer WSe ₂ . <i>Nature Communications</i> , 2021, 12, 5500.	12.8	29
15	Majorana quasiparticles in semiconducting carbon nanotubes. <i>Physical Review B</i> , 2018, 97, .	3.2	24
16	Phase slip lines in superconducting few-layer NbSe ₂ crystals. <i>2D Materials</i> , 2019, 6, 025039.	4.4	21
17	Localization induced by magnetic fields in carbon nanotubes. <i>Physical Review B</i> , 2011, 83, .	3.2	17
18	Transport across a carbon nanotube quantum dot contacted with ferromagnetic leads: Experiment and nonperturbative modeling. <i>Physical Review B</i> , 2015, 91, .	3.2	16

#	ARTICLE	IF	CITATIONS
19	Interlayer Excitons in Transitionâ€¢Metal Dichalcogenide Heterobilayers. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900308.	1.5	15
20	Josephson Inductance as a Probe for Highly Ballistic Semiconductor-Superconductor Weak Links. <i>Physical Review Letters</i> , 2021, 126, 037001.	7.8	14
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi> π </mml:mi><mml:mn>3.6</mml:mn></mml:mrow></mml:math>-periodic supercurrent tuned by an axial magnetic flux in topological insulator nanowires. <i>Physical Review Research</i> , 2022, 4, .	3.6	13
22	Impact of thermal frequency drift on highest precision force microscopy using quartz-based force sensors at low temperatures. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 407-412.	2.8	10
23	Signal enhancement in amperometric peroxide detection by using graphene materials with low number of defects. <i>Mikrochimica Acta</i> , 2016, 183, 83-90.	5.0	10
24	Air tightness of hBN encapsulation and its impact on Raman spectroscopy of van der Waals materials. <i>2D Materials</i> , 2020, 7, 015012.	4.4	10
25	Reversal of Nonlocal Vortex Motion in the Regime of Strong Nonequilibrium. <i>Physical Review Letters</i> , 2010, 104, 027005.	7.8	7
26	Dual threshold diode based on the superconductor-to-insulator transition in ultrathin TiN films. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	7
27	Temperature dependence of the visibility in an electronic Machâ€¢Zehnder interferometer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1091-1094.	2.7	6
28	Tailored nanoantennas for directional Raman studies of individual carbon nanotubes. <i>Physical Review B</i> , 2015, 91, .	3.2	6
29	Nonlocal versus local vortex dynamics in the transversal flux transformer effect. <i>Physical Review B</i> , 2010, 81, .	3.2	5
30	Quantum Transport of Particles and Entropy. <i>Entropy</i> , 2021, 23, 1573.	2.2	5
31	Towards entangled electrons. <i>Nature Nanotechnology</i> , 2010, 5, 11-12.	31.5	4
32	Polarized surface-enhanced Raman spectroscopy of suspended carbon nanotubes by Pt-Re nanoantennas. <i>Physical Review B</i> , 2017, 96, .	3.2	4
33	Quantum Transport in Carbon Nanotubes. , 2006, , 351-380.		3
34	A microcalorimeter for simultaneous measurement of the electric and thermal transport coefficients in ferromagnetic thin films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 294006.	2.8	3
35	Supercurrent and Phase Slips in a Ballistic Carbon Nanotube Bundle Embedded into a van der Waals Heterostructure. <i>Nano Letters</i> , 2021, 21, 8627-8633.	9.1	3
36	APPLIED PHYSICS: Boosting Magnetoresistance in Molecular Devices. <i>Science</i> , 2004, 306, 63-64.	12.6	2

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37	Strongly nonequilibrium flux flow in the presence of perforating submicron holes. Physica C: Superconductivity and Its Applications, 2005, 432, 223-230.	1.2	2
38	Superconductivity and macroscopic quantum effects in superconducting/ferromagnetic hybrid nanostructures. Comptes Rendus Physique, 2006, 7, 116-127.	0.9	2
39	Microwave reflection measurement of critical currents in a nanotube Josephson transistor with a resistive environment. Nanotechnology, 2011, 22, 125203.	2.6	2
40	Magnetoconductance of carbon nanotubes probed in parallel magnetic fields up to 60 T. Physica Status Solidi (B): Basic Research, 2011, 248, 2672-2675.	1.5	1
41	Shot Noise in Diffusive Superconductor/Normal Metal Heterostructures., 2003, , 119-133.		1
42	Optical spectroscopy of interlayer excitons in TMDC heterostructures: exciton dynamics, interactions, and giant valley-selective magnetic splitting., 2018, ,		0