Christoph Strunk

List of Publications by Year
in descending order

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Version: 2024-02-01

42	2,334	471509 17	289244 40
papers	citations	h-index	g-index

45	45	45	3119
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Supercurrent rectification and magnetochiral effects in symmetric Josephson junctions. Nature Nanotechnology, 2022, 17, 39-44.	31.5	134
2	Effect of Rashba and Dresselhaus spinâ€“orbit coupling on supercurrent rectification and magnetochiral anisotropy of ballistic Josephson junctions. Journal of Physics Condensed Matter, 2022, 34, 154005.	1.8	39
3	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>Ï€</mml:mi></mml:mrow></mml -periodic supercurrent tuned by an axial magnetic flux in topological insulator nanowires. Physical Review Research, 2022, 4, .	3.6	13
4	Josephson Inductance as a Probe for Highly Ballistic Semiconductor-Superconductor Weak Links. Physical Review Letters, 2021, 126, 037001.	7.8	14
5	Narrow-band high-lying excitonsÂwith negative-mass electrons in monolayer WSe2. Nature Communications, 2021, 12, 5500.	12.8	29
6	Supercurrent and Phase Slips in a Ballistic Carbon Nanotube Bundle Embedded into a van der Waals Heterostructure. Nano Letters, 2021, 21, 8627-8633.	9.1	3
7	Quantum Transport of Particles and Entropy. Entropy, 2021, 23, 1573.	2.2	5
8	Air tightness of hBN encapsulation and its impact on Raman spectroscopy of van der Waals materials. 2D Materials, 2020, 7, 015012.	4.4	10
9	Interlayer Excitons in Transitionâ€Metal Dichalcogenide Heterobilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900308.	1.5	15
10	Coherent population trapping by dark state formation in a carbon nanotube quantum dot. Nature Communications, 2019, 10, 381.	12.8	31
11	Phase slip lines in superconducting few-layer NbSe ₂ crystals. 2D Materials, 2019, 6, 025039.	4.4	21
12	Majorana quasiparticles in semiconducting carbon nanotubes. Physical Review B, 2018, 97, .	3.2	24
13	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. Nature Physics, 2018, 14, 801-805.	16.7	229
14	A microcalorimeter for simultaneous measurement of the electric and thermal transport coefficients in ferromagnetic thin films. Journal Physics D: Applied Physics, 2018, 51, 294006.	2.8	3
15	Optical spectroscopy of interlayer excitons in TMDC heterostructures: exciton dynamics, interactions, and giant valley-selective magnetic splitting. , 2018, , .		0
16	Interlayer exciton dynamics in a dichalcogenide monolayer heterostructure. 2D Materials, 2017, 4, 025112.	4.4	146
17	Giant magnetic splitting inducing near-unity valley polarization in van der Waals heterostructures. Nature Communications, 2017, 8, 1551.	12.8	105
18	Polarized surface-enhanced Raman spectroscopy of suspended carbon nanotubes by Pt-Re nanoantennas. Physical Review B, 2017, 96, .	3.2	4

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19	Signal enhancement in amperometric peroxide detection by using graphene materials with low number of defects. Mikrochimica Acta, 2016, 183, 83-90.	5.0	10
20	Identification of excitons, trions and biexcitons in single-layer WS₂. Physica Status Solidi - Rapid Research Letters, 2015, 9, 457-461.	2.4	282
21	Transport across a carbon nanotube quantum dot contacted with ferromagnetic leads: Experiment and nonperturbative modeling. Physical Review B, 2015, 91, .	3.2	16
22	Tailored nanoantennas for directional Raman studies of individual carbon nanotubes. Physical Review B, 2015, 91, .	3.2	6
23	Broken SU(4) symmetry in a Kondo-correlated carbon nanotube. Physical Review B, 2015, 91, .	3.2	38
24	Impact of thermal frequency drift on highest precision force microscopy using quartz-based force sensors at low temperatures. Beilstein Journal of Nanotechnology, 2014, 5, 407-412.	2.8	10
25	Weak localization and Raman study of anisotropically etched graphene antidots. Applied Physics Letters, 2013, 103, 143111.	3.3	29
26	Dual threshold diode based on the superconductor-to-insulator transition in ultrathin TiN films. Applied Physics Letters, 2013, 102, .	3.3	7
27	Direct observation of the superconducting gap in a thin film of titanium nitride using terahertz spectroscopy. Physical Review B, 2012, 86, .	3.2	34
28	Magnetoconductance of carbon nanotubes probed in parallel magnetic fields up to 60â€‰T. Physica Status Solidi (B): Basic Research, 2011, 248, 2672-2675.	1.5	1
29	Microwave reflection measurement of critical currents in a nanotube Josephson transistor with a resistive environment. Nanotechnology, 2011, 22, 125203.	2.6	2
30	Localization induced by magnetic fields in carbon nanotubes. Physical Review B, 2011, 83, .	3.2	17
31	Temperature dependence of the visibility in an electronic Machâ€“Zehnder interferometer. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1091-1094.	2.7	6
32	Towards entangled electrons. Nature Nanotechnology, 2010, 5, 11-12.	31.5	4
33	Nonlocal versus local vortex dynamics in the transversal flux transformer effect. Physical Review B, 2010, 81, .	3.2	5
34	Reversal of Nonlocal Vortex Motion in the Regime of Strong Nonequilibrium. Physical Review Letters, 2010, 104, 027005.	7.8	7
35	Superinsulator and quantum synchronization. Nature, 2008, 452, 613-615.	27.8	193
36	Superconductivity and macroscopic quantum effects in superconducting/ferromagnetic hybrid nanostructures. Comptes Rendus Physique, 2006, 7, 116-127.	0.9	2

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37	Quantum Transport in Carbon Nanotubes. , 2006, , 351-380.		3
38	Strongly nonequilibrium flux flow in the presence of perforating submicron holes. Physica C: Superconductivity and Its Applications, 2005, 432, 223-230.	1.2	2
39	Effect of Band Structure on Quantum Interference in Multiwall Carbon Nanotubes. Physical Review Letters, 2005, 94, 186802.	7.8	94
40	APPLIED PHYSICS: Boosting Magnetoresistance in Molecular Devices. Science, 2004, 306, 63-64.	12.6	2
41	Shot Noise in Diffusive Superconductor/Normal Metal Heterostructures. , 2003, , 119-133.		1
42	Aharonovâ€“Bohm oscillations in carbon nanotubes. Nature, 1999, 397, 673-675.	27.8	736