

Hugh O H Churchill

List of Publications by Citations

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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.

28

papers

3,652

citations

19

h-index

29

g-index

29

ext. papers

4,039

ext. citations

8

avg, IF

5.6

L-index

#	Paper	IF	Citations
28	Optoelectronic devices based on electrically tunable p-n diodes in a monolayer dichalcogenide. <i>Nature Nanotechnology</i> , 2014 , 9, 262-7	28.7	1065
27	Superconductor-nanowire devices from tunneling to the multichannel regime: Zero-bias oscillations and magnetoconductance crossover. <i>Physical Review B</i> , 2013 , 87,	3.3	576
26	Intrinsic electronic transport properties of high-quality monolayer and bilayer MoS ₂ . <i>Nano Letters</i> , 2013 , 13, 4212-6	11.5	483
25	Two-dimensional crystals: phosphorus joins the family. <i>Nature Nanotechnology</i> , 2014 , 9, 330-1	28.7	444
24	A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. <i>Nature Nanotechnology</i> , 2007 , 2, 622-5	28.7	252
23	Electron-nuclear interaction in ¹³ C nanotube double quantum dots. <i>Nature Physics</i> , 2009 , 5, 321-326	16.2	139
22	Relaxation and dephasing in a two-electron ¹³ C nanotube double quantum dot. <i>Physical Review Letters</i> , 2009 , 102, 166802	7.4	110
21	Electronic transport of encapsulated graphene and WSe ₂ devices fabricated by pick-up of prepatterned hBN. <i>Nano Letters</i> , 2015 , 15, 1898-903	11.5	98
20	Two-Dimensional Disorder in Black Phosphorus and Monochalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 1704-12	11.5	82
19	Correlation of pH-dependent surface interaction forces to amino acid adsorption: Implications for the origin of life. <i>American Mineralogist</i> , 2004 , 89, 1048-1055	2.9	78
18	Carbon nanotubes for coherent spintronics. <i>Materials Today</i> , 2010 , 13, 18-26	21.8	60
17	Magnetic field dependence of Pauli spin blockade: A window into the sources of spin relaxation in silicon quantum dots. <i>Physical Review B</i> , 2012 , 86,	3.3	40
16	Toward Single Atom Chains with Exfoliated Tellurium. <i>Nanoscale Research Letters</i> , 2017 , 12, 488	5	36
15	Spin-orbit effects in carbon-nanotube double quantum dots. <i>Physical Review B</i> , 2010 , 82,	3.3	32
14	High anisotropy of lateral alignment in multilayered (In,Ga)As/GaAs(100) quantum dot structures. <i>Journal of Applied Physics</i> , 2004 , 96, 6908-6911	2.5	31
13	Tuning Infrared Plasmon Resonance of Black Phosphorene Nanoribbon with a Dielectric Interface. <i>Scientific Reports</i> , 2018 , 8, 3224	4.9	22
12	Exfoliation energy, quasiparticle band structure, and excitonic properties of selenium and tellurium atomic chains. <i>Physical Review B</i> , 2018 , 98,	3.3	20

11	Cryogenic apparatus for diffuse reflection infrared spectroscopy with high-pressure capabilities. <i>Review of Scientific Instruments</i> , 2006 , 77, 093110	1.7	20
10	Low-temperature infrared spectroscopy of H ₂ in crystalline C ₆₀ . <i>Physical Review B</i> , 2006 , 73,	3.3	20
9	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. <i>Nano Letters</i> , 2020 , 20, 8446-8452	1.5	16
8	Gate-Defined Accumulation-Mode Quantum Dots in Monolayer and Bilayer WSe ₂ . <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
7	g-tensor control in bent carbon nanotube quantum dots. <i>Physical Review B</i> , 2014 , 89,	3.3	6
6	Integration of multi-layer black phosphorus into photoconductive antennas for THz emission. <i>Journal of Applied Physics</i> , 2020 , 128, 063104	2.5	4
5	Growth and Strain Engineering of Trigonal Te for Topological Quantum Phases in Non-Symmorphic Chiral Crystals. <i>Crystals</i> , 2019 , 9, 486	2.3	3
4	Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
3	Black phosphorus photoconductive terahertz antenna: 3D modeling and experimental reference comparison. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 1367	1.7	2
2	Gate voltage and doping effects on near-field radiation heat transfer in plasmonic heterogeneous pairs of graphene and black phosphorene.. <i>RSC Advances</i> , 2019 , 9, 29173-29181	3.7	2
1	Array of Graphene Variable Capacitors on 100 mm Silicon Wafers for Vibration-Based Applications. <i>Membranes</i> , 2022 , 12, 533	3.8	0