

Hugh O H Churchill

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

4,344
citations

361296

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h-index

477173

29
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29
all docs

29
docs citations

29
times ranked

7252
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoelectronic devices based on electrically tunable p-n diodes in a monolayer dichalcogenide. Nature Nanotechnology, 2014, 9, 262-267.	15.6	1,270
2	Superconductor-nanowire devices from tunneling to the multichannel regime: Zero-bias oscillations and magnetoconductance crossover. Physical Review B, 2013, 87, .	1.1	657
3	Intrinsic Electronic Transport Properties of High-Quality Monolayer and Bilayer MoS ₂ . Nano Letters, 2013, 13, 4212-4216.	4.5	558
4	Phosphorus joins the family. Nature Nanotechnology, 2014, 9, 330-331.	15.6	528
5	A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. Nature Nanotechnology, 2007, 2, 622-625.	15.6	287
6	Electron-nuclear interaction in 13C nanotube double quantum dots. Nature Physics, 2009, 5, 321-326.	6.5	151
7	Relaxation and Dephasing in a Two-Electron C_{13} Nanotube Double Quantum Dot. Physical Review Letters, 2009, 102, 166802.	2.9	124
8	Electronic Transport of Encapsulated Graphene and WSe ₂ Devices Fabricated by Pick-up of Prepatterned hBN. Nano Letters, 2015, 15, 1898-1903.	4.5	115
9	Two-Dimensional Disorder in Black Phosphorus and Monochalcogenide Monolayers. Nano Letters, 2016, 16, 1704-1712.	4.5	96
10	Correlation of pH-dependent surface interaction forces to amino acid adsorption: Implications for the origin of life. American Mineralogist, 2004, 89, 1048-1055.	0.9	93
11	Carbon nanotubes for coherent spintronics. Materials Today, 2010, 13, 18-26.	8.3	64
12	Magnetic field dependence of Pauli spin blockade: A window into the sources of spin relaxation in silicon quantum dots. Physical Review B, 2012, 86, .	1.1	52
13	Toward Single Atom Chains with Exfoliated Tellurium. Nanoscale Research Letters, 2017, 12, 488.	3.1	52
14	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. Nano Letters, 2020, 20, 8446-8452.	4.5	44
15	Tuning Infrared Plasmon Resonance of Black Phosphorene Nanoribbon with a Dielectric Interface. Scientific Reports, 2018, 8, 3224.	1.6	36
16	High anisotropy of lateral alignment in multilayered (In,Ga)As-GaAs(100) quantum dot structures. Journal of Applied Physics, 2004, 96, 6908-6911.	1.1	35
17	Spin-orbit effects in carbon-nanotube double quantum dots. Physical Review B, 2010, 82, .	1.1	34
18	Exfoliation energy, quasiparticle band structure, and excitonic properties of selenium and tellurium atomic chains. Physical Review B, 2018, 98, .	1.1	33

#	ARTICLE	IF	CITATIONS
19	Low-temperature infrared spectroscopy of H ₂ in crystalline C ₆₀ . Physical Review B, 2006, 73, .	1.1	22
20	Cryogenic apparatus for diffuse reflection infrared spectroscopy with high-pressure capabilities. Review of Scientific Instruments, 2006, 77, 093110.	0.6	20
21	Gate-Defined Accumulation-Mode Quantum Dots in Monolayer and Bilayer WSe ₂ . Physical Review Applied, 2020, 13, .	1.5	18
22	Integration of multi-layer black phosphorus into photoconductive antennas for THz emission. Journal of Applied Physics, 2020, 128, 063104.	1.1	10
23	Black phosphorus photoconductive terahertz antenna: 3D modeling and experimental reference comparison. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1367.	0.9	9
24	Giant topological Hall effect in centrosymmetric tetragonal $Mn_{1-x}Co_x$. Physical Review B, 2021, 104, .		
25	g-tensor control in bent carbon nanotube quantum dots. Physical Review B, 2014, 89, .	1.1	7
26	Growth and Strain Engineering of Trigonal Te for Topological Quantum Phases in Non-Symmorphic Chiral Crystals. Crystals, 2019, 9, 486.	1.0	5
27	Gate voltage and doping effects on near-field radiation heat transfer in plasmonic heterogeneous pairs of graphene and black phosphorene. RSC Advances, 2019, 9, 29173-29181.	1.7	5
28	Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. Journal of Visualized Experiments, 2019, , .	0.2	5
29	Array of Graphene Variable Capacitors on 100 mm Silicon Wafers for Vibration-Based Applications. Membranes, 2022, 12, 533.	1.4	5