

Hugh O H Churchill

List of Publications by Year in Descending Order

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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 | Array of Graphene Variable Capacitors on 100 mm Silicon Wafers for Vibration-Based Applications. <i>Membranes</i> , 2022 , 12, 533 | 3.8 | 0 |
| 27 | 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 |
| 26 | Gate-Defined Accumulation-Mode Quantum Dots in Monolayer and Bilayer WSe ₂ . <i>Physical Review Applied</i> , 2020 , 13, | 4.3 | 8 |
| 25 | Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. <i>Nano Letters</i> , 2020 , 20, 8446-8452 | 11.5 | 16 |
| 24 | Integration of multi-layer black phosphorus into photoconductive antennas for THz emission. <i>Journal of Applied Physics</i> , 2020 , 128, 063104 | 2.5 | 4 |
| 23 | 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 |
| 22 | 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 |
| 21 | Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. <i>Journal of Visualized Experiments</i> , 2019 , | 1.6 | 3 |
| 20 | Tuning Infrared Plasmon Resonance of Black Phosphorene Nanoribbon with a Dielectric Interface. <i>Scientific Reports</i> , 2018 , 8, 3224 | 4.9 | 22 |
| 19 | Exfoliation energy, quasiparticle band structure, and excitonic properties of selenium and tellurium atomic chains. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 20 |
| 18 | Toward Single Atom Chains with Exfoliated Tellurium. <i>Nanoscale Research Letters</i> , 2017 , 12, 488 | 5 | 36 |
| 17 | Two-Dimensional Disorder in Black Phosphorus and Monochalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 1704-12 | 11.5 | 82 |
| 16 | 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 |
| 15 | Two-dimensional crystals: phosphorus joins the family. <i>Nature Nanotechnology</i> , 2014 , 9, 330-1 | 28.7 | 444 |
| 14 | g-tensor control in bent carbon nanotube quantum dots. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 6 |
| 13 | Optoelectronic devices based on electrically tunable p-n diodes in a monolayer dichalcogenide. <i>Nature Nanotechnology</i> , 2014 , 9, 262-7 | 28.7 | 1065 |
| 12 | Intrinsic electronic transport properties of high-quality monolayer and bilayer MoS ₂ . <i>Nano Letters</i> , 2013 , 13, 4212-6 | 11.5 | 483 |

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|----|--|------|-----|
| 11 | 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 |
| 10 | 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 |
| 9 | Spin-orbit effects in carbon-nanotube double quantum dots. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 32 |
| 8 | Carbon nanotubes for coherent spintronics. <i>Materials Today</i> , 2010 , 13, 18-26 | 21.8 | 60 |
| 7 | Relaxation and dephasing in a two-electron ¹³ C nanotube double quantum dot. <i>Physical Review Letters</i> , 2009 , 102, 166802 | 7.4 | 110 |
| 6 | Electron-Nuclear interaction in ¹³ C nanotube double quantum dots. <i>Nature Physics</i> , 2009 , 5, 321-326 | 16.2 | 139 |
| 5 | A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. <i>Nature Nanotechnology</i> , 2007 , 2, 622-5 | 28.7 | 252 |
| 4 | Cryogenic apparatus for diffuse reflection infrared spectroscopy with high-pressure capabilities. <i>Review of Scientific Instruments</i> , 2006 , 77, 093110 | 1.7 | 20 |
| 3 | Low-temperature infrared spectroscopy of H ₂ in crystalline C ₆₀ . <i>Physical Review B</i> , 2006 , 73, | 3.3 | 20 |
| 2 | 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 |
| 1 | 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 |