

# Alexandru Petrescu

## 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.

16  
papers

445  
citations

9  
h-index

17  
g-index

17  
ext. papers

545  
ext. citations

3.6  
avg. IF

4.06  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 16 | Operating in a deep underground facility improves the locking of gradiometric fluxonium qubits at the sweet spots. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 054001 | 3.4 | 0         |
| 15 | Lifetime renormalization of weakly anharmonic superconducting qubits. I. Role of number nonconserving terms. <i>Physical Review B</i> , <b>2020</b> , 101,                    | 3.3 | 7         |
| 14 | Lifetime renormalization of driven weakly anharmonic superconducting qubits. II. The readout problem. <i>Physical Review B</i> , <b>2020</b> , 101,                           | 3.3 | 9         |
| 13 | From topological superconductivity to quantum Hall states in coupled wires. <i>Physical Review B</i> , <b>2020</b> , 101,   | 3.3 | 7         |
| 12 | Emergent Chiral Spin State in the Mott Phase of a Bosonic Kane-Mele-Hubbard Model. <i>Physical Review Letters</i> , <b>2018</b> , 120, 157201                                 | 7.4 | 6         |
| 11 | Driven dissipative dynamics and topology of quantum impurity systems. <i>Comptes Rendus Physique</i> , <b>2018</b> , 19, 451-483  | 1.4 | 18        |
| 10 | Fluxon-based quantum simulation in circuit QED. <i>Physical Review B</i> , <b>2018</b> , 98,  | 3.3 | 4         |
| 9  | Precursor of the Laughlin state of hard-core bosons on a two-leg ladder. <i>Physical Review B</i> , <b>2017</b> , 96,   | 3.3 | 36        |
| 8  | Cutoff-Free Circuit Quantum Electrodynamics. <i>Physical Review Letters</i> , <b>2017</b> , 119, 073601   | 7.4 | 27        |
| 7  | Non-Markovian dynamics of a superconducting qubit in an open multimode resonator. <i>Physical Review A</i> , <b>2016</b> , 94,  | 2.6 | 8         |
| 6  | Many-body quantum electrodynamics networks: Non-equilibrium condensed matter physics with light. <i>Comptes Rendus Physique</i> , <b>2016</b> , 17, 808-835                   | 1.4 | 68        |
| 5  | Chiral Mott insulators, Meissner effect, and Laughlin states in quantum ladders. <i>Physical Review B</i> , <b>2015</b> , 91,   | 3.3 | 53        |
| 4  | Chiral bosonic phases on the Haldane honeycomb lattice. <i>Physical Review B</i> , <b>2015</b> , 91,  | 3.3 | 37        |
| 3  | Fluctuations and entanglement spectrum in quantum Hall states. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P10005                    | 1.9 | 27        |
| 2  | Bosonic Mott insulator with Meissner currents. <i>Physical Review Letters</i> , <b>2013</b> , 111, 150601   | 7.4 | 72        |
| 1  | Anomalous Hall effects of light and chiral edge modes on the Kagom lattice. <i>Physical Review A</i> , <b>2012</b> , 86,  | 2.6 | 66        |