

# Jonathan Simon

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

4,647  
citations

331259

21  
h-index

433756

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

4409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological photonics. <i>Reviews of Modern Physics</i> , 2019, 91, .	16.4	2,190
2	Quantum simulation of antiferromagnetic spin chains in an optical lattice. <i>Nature</i> , 2011, 472, 307-312.	13.7	730
3	A dissipatively stabilized Mott insulator of photons. <i>Nature</i> , 2019, 566, 51-57.	13.7	213
4	Time- and Site-Resolved Dynamics in a Topological Circuit. <i>Physical Review X</i> , 2015, 5, .	2.8	199
5	Synthetic Landau levels for photons. <i>Nature</i> , 2016, 534, 671-675.	13.7	152
6	Interfacing Collective Atomic Excitations and Single Photons. <i>Physical Review Letters</i> , 2007, 98, 183601.	2.9	133
7	Probing the Berry curvature and Fermi arcs of a Weyl circuit. <i>Physical Review B</i> , 2019, 99, .	1.1	115
8	Photonic materials in circuit quantum electrodynamics. <i>Nature Physics</i> , 2020, 16, 268-279.	6.5	115
9	Single-photon bus connecting spin-wave quantum memories. <i>Nature Physics</i> , 2007, 3, 765-769.	6.5	80
10	Interaction between Atomic Ensembles and Optical Resonators. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2011, 60, 201-237.	2.3	79
11	Observation of Laughlin states made of light. <i>Nature</i> , 2020, 582, 41-45.	13.7	79
12	Heralded Single-Magnon Quantum Memory for Photon Polarization States. <i>Physical Review Letters</i> , 2009, 103, 043601.	2.9	72
13	Engineering Topological Many-Body Materials in Microwave Cavity Arrays. <i>Physical Review X</i> , 2016, 6, .	2.8	61
14	A strongly interacting polaritonic quantum dot. <i>Nature Physics</i> , 2018, 14, 550-554.	6.5	56
15	Effective three-body interactions via photon-assisted tunneling in an optical lattice. <i>Physical Review A</i> , 2014, 89, .	1.0	51
16	Observation and characterization of cavity Rydberg polaritons. <i>Physical Review A</i> , 2016, 93, .	1.0	51
17	Quarter-flux Hofstadter lattice in a qubit-compatible microwave cavity array. <i>Physical Review A</i> , 2018, 97, .	1.0	51
18	Interacting Floquet polaritons. <i>Nature</i> , 2019, 571, 532-536.	13.7	38

#	ARTICLE	IF	CITATIONS
19	Electromagnetic and gravitational responses of photonic Landau levels. <i>Nature</i> , 2019, 565, 173-179.	13.7	36
20	Autonomous stabilizer for incompressible photon fluids and solids. <i>Physical Review A</i> , 2017, 95, .	1.0	30
21	Engineering photonic Floquet Hamiltonians through Fabry-Pérot resonators. <i>New Journal of Physics</i> , 2016, 18, 035008.	1.2	22
22	Hamiltonian tomography of photonic lattices. <i>Physical Review A</i> , 2017, 95, .	1.0	19
23	Noise- and disorder-resilient optical lattices. <i>Physical Review A</i> , 2012, 86, .	1.0	14
24	A tunable high-Q millimeter wave cavity for hybrid circuit and cavity QED experiments. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	14
25	A duo of graphene mimics. <i>Nature</i> , 2012, 483, 282-284.	13.7	10
26	Photons and polaritons in a broken-time-reversal nonplanar resonator. <i>Physical Review A</i> , 2018, 97, .	1.0	9
27	Theory of interacting cavity Rydberg polaritons. <i>Quantum Science and Technology</i> , 2019, 4, 014005.	2.6	9
28	Adiabatic flux insertion and growing of Laughlin states of cavity Rydberg polaritons. <i>Physical Review A</i> , 2018, 98, .	1.0	8
29	Aberrated optical cavities. <i>Physical Review A</i> , 2021, 104, .	1.0	8
30	Magnetic fields without magnetic fields. <i>Nature</i> , 2014, 515, 202-203.	13.7	2
31	Vacuum-induced transparency. , 2011, , .		0