

# Robert Keil

## List of Publications by Year in descending order

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69  
papers

2,687  
citations

159358

30  
h-index

182168

51  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classical Simulation of Relativistic Zitterbewegung in Photonic Lattices. Physical Review Letters, 2010, 105, 143902.	2.9	189
2	Compact Surface Fano States Embedded in the Continuum of Waveguide Arrays. Physical Review Letters, 2013, 111, 240403.	2.9	175
3	Anderson localization in optical waveguide arrays with off-diagonal coupling disorder. Optics Express, 2011, 19, 13636.	1.7	169
4	Coherent quantum transport in photonic lattices. Physical Review A, 2013, 87, .	1.0	146
5	Quantum Walks of Correlated Photon Pairs in Two-Dimensional Waveguide Arrays. Physical Review Letters, 2014, 112, 143604.	2.9	116
6	On-chip generation of high-order single-photon W-states. Nature Photonics, 2014, 8, 791-795.	15.6	109
7	Adiabatic transfer of light via a continuum in optical waveguides. Optics Letters, 2009, 34, 2405.	1.7	98
8	Wave localization at the boundary of disordered photonic lattices. Optics Letters, 2010, 35, 1172.	1.7	95
9	Tuning the structural properties of femtosecond-laser-induced nanogratings. Applied Physics A: Materials Science and Processing, 2010, 100, 1-6.	1.1	85
10	Implementation of quantum and classical discrete fractional Fourier transforms. Nature Communications, 2016, 7, 11027.	5.8	81
11	Classical Analogue of Displaced Fock States and Quantum Correlations in Glauber-Fock Photonic Lattices. Physical Review Letters, 2011, 107, 103601.	2.9	79
12	Geometric Potential and Transport in Photonic Topological Crystals. Physical Review Letters, 2010, 104, 150403.	2.9	75
13	Optical Analogues for Massless Dirac Particles and Conical Diffraction in One Dimension. Physical Review Letters, 2012, 109, 023602.	2.9	73
14	Amorphous Photonic Lattices: Band Gaps, Effective Mass, and Suppressed Transport. Physical Review Letters, 2011, 106, 193904.	2.9	69
15	Einstein-Podolsky-Rosen Spatial Entanglement in Ordered and Anderson Photonic Lattices. Physical Review Letters, 2013, 110, 150503.	2.9	67
16	All-optical routing and switching for three-dimensional photonic circuitry. Scientific Reports, 2011, 1, 94.	1.6	66
17	Klein tunneling of light in waveguide superlattices. Europhysics Letters, 2012, 97, 10008.	0.7	64
18	Polychromatic beam splitting by fractional stimulated Raman adiabatic passage. Applied Physics Letters, 2009, 95, 261102.	1.5	61

#	ARTICLE	IF	CITATIONS
19	Universal Sign Control of Coupling in Tight-Binding Lattices. <i>Physical Review Letters</i> , 2016, 116, 213901.	2.9	56
20	Perfect transfer of path-entangled photons in $\langle \langle J \rangle \rangle$ photonic lattices. <i>Physical Review A</i> , 2013, 87, .	1.0	55
21	Optical simulation of charge conservation violation and Majorana dynamics. <i>Optica</i> , 2015, 2, 454.	4.8	41
22	Photon correlations in two-dimensional waveguide arrays and their classical estimate. <i>Physical Review A</i> , 2010, 81, .	1.0	38
23	Tailoring the correlation and anticorrelation behavior of path-entangled photons in Glauber-Fock oscillator lattices. <i>Physical Review A</i> , 2012, 85, .	1.0	38
24	Observation of Bloch-like revivals in semi-infinite Glauber-Fock photonic lattices. <i>Optics Letters</i> , 2012, 37, 3801.	1.7	37
25	Obtaining tight bounds on higher-order interferences with a 5-path interferometer. <i>New Journal of Physics</i> , 2017, 19, 033017.	1.2	37
26	Observation of Three-Dimensional Discrete-Continuous $X$ Waves in Photonic Lattices. <i>Physical Review Letters</i> , 2009, 103, 113903.	2.9	36
27	Biphoton generation in quadratic waveguide arrays: A classical optical simulation. <i>Scientific Reports</i> , 2012, 2, 562.	1.6	35
28	The random mass Dirac model and long-range correlations on an integrated optical platform. <i>Nature Communications</i> , 2013, 4, 1368.	5.8	34
29	Nonlinearity-induced broadening of resonances in dynamically modulated couplers. <i>Optics Letters</i> , 2009, 34, 2700.	1.7	33
30	Totally Destructive Many-Particle Interference. <i>Physical Review Letters</i> , 2018, 120, 240404.	2.9	31
31	Observation of discrete solitons in lattices with second-order interaction. <i>Optics Letters</i> , 2009, 34, 2838.	1.7	28
32	Perfect imaging through a disordered waveguide lattice. <i>Optics Letters</i> , 2012, 37, 809.	1.7	27
33	Observation of anharmonic Bloch oscillations. <i>Optics Letters</i> , 2011, 36, 3963.	1.7	25
34	Nonlinear discrete optics in femtosecond laser-written photonic lattices. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 469-480.	1.1	25
35	Many-body quantum interference on hypercubes. <i>Quantum Science and Technology</i> , 2017, 2, 015003.	2.6	23
36	Exploring complex graphs using three-dimensional quantum walks of correlated photons. <i>Science Advances</i> , 2021, 7, .	4.7	21

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37	Observation of two-dimensional superlattice solitons. <i>Optics Letters</i> , 2009, 34, 3701.	1.7	20
38	Totally destructive interference for permutation-symmetric many-particle states. <i>Physical Review A</i> , 2018, 97, .	1.0	20
39	Direct measurement of second-order coupling in a waveguide lattice. <i>Applied Physics Letters</i> , 2015, 107, 241104.	1.5	19
40	Classical characterization of biphoton correlation in waveguide lattices. <i>Physical Review A</i> , 2011, 83, .	1.0	17
41	Negative coupling between defects in waveguide arrays. <i>Optics Letters</i> , 2012, 37, 533.	1.7	17
42	Two-dimensional solitons at interfaces between binary superlattices and homogeneous lattices. <i>Physical Review A</i> , 2009, 80, .	1.0	15
43	Hybrid waveguide-bulk multi-path interferometer with switchable amplitude and phase. <i>APL Photonics</i> , 2016, 1, 081302.	3.0	12
44	Many-particle interference in a two-component bosonic Josephson junction: an all-optical simulation. <i>New Journal of Physics</i> , 2017, 19, 125015.	1.2	12
45	Observation of localized modes at phase slips in two-dimensional photonic lattices. <i>Optics Letters</i> , 2010, 35, 2738.	1.7	11
46	Correlations of indistinguishable particles in non-Hermitian lattices. <i>New Journal of Physics</i> , 2013, 15, 033008.	1.2	11
47	Observation of two-dimensional coherent surface vector lattice solitons. <i>Optics Letters</i> , 2009, 34, 1624.	1.7	10
48	Disorder-enhanced nonlinear delocalization in segmented waveguide arrays. <i>New Journal of Physics</i> , 2012, 14, 073026.	1.2	10
49	Nonlinear localized states in the vicinity of topological defects in waveguide arrays. <i>New Journal of Physics</i> , 2010, 12, 113020.	1.2	9
50	Fast and efficient demultiplexing of single photons from a quantum dot with resonantly enhanced electro-optic modulators. <i>APL Photonics</i> , 2022, 7, .	3.0	9
51	Solitons in geometric potentials. <i>Optics Letters</i> , 2011, 36, 3470.	1.7	8
52	Ultraprecise phase manipulation in integrated photonic quantum circuits with generalized directional couplers. <i>Applied Physics Letters</i> , 2014, 105, 061111.	1.5	8
53	Symmetry Allows for Distinguishability in Totally Destructive Many-Particle Interference. <i>PRX Quantum</i> , 2021, 2, .	3.5	8
54	Optical limiting and spectral stabilization in segmented photonic lattices. <i>Optics Express</i> , 2012, 20, 27299.	1.7	7

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55	Photonic coherent state transfer with Hamiltonian dynamics. Optics Letters, 2014, 39, 123.	1.7	6
56	Hanbury Brown and Twiss anticorrelation in disordered photonic lattices. Physical Review A, 2016, 94, .	1.0	5
57	Towards probing for hypercomplex quantum mechanics in a waveguide interferometer. New Journal of Physics, 2021, 23, 093038.	1.2	4
58	Approaching the Tsirelson bound with a Sagnac source of polarization-entangled photons. SciPost Physics, 2021, 10, .	1.5	4
59	Experimental optimization of the fiber coupling efficiency of GaAs quantum dot-based photon sources. Applied Physics Letters, 2021, 119, .	1.5	2
60	Displaced Fock states and photon correlations in Glauber-Fock photonic lattices. , 2011, , .		0
61	Observation of Anderson co-localization of spatially entangled photon pairs. , 2012, , .		0
62	Highly Efficient Eigenstate-Assisted Long-Distance Quantum State Transfer in Photonic Lattices. , 2014, , .		0
63	The right platform for the job. Nature Physics, 2019, 15, 879-880.	6.5	0
64	Optical limiting and spectral stabilization in segmented photonic lattices. , 2013, , .		0
65	Controlling Mandel's Q-parameter in Disordered Lattices via Excitation-Symmetry Breaking. , 2016, , .		0
66	Optical simulation of unphysical Majorana dynamics. , 2016, , .		0
67	Tailoring Photon-number Distribution in Disordered Lattices with Chiral Symmetry. , 2016, , .		0
68	Implementation of quantum discrete fractional Fourier transform. , 2017, , .		0
69	Exploring complex graphs with 3D quantum walks of correlated photons. , 2020, , .		0