Robert Keil

List of Publications by Year
in descending order

69	2,687	159358 30	182168 51
papers	citations	h-index	g-index

72	72	72	2076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast and efficient demultiplexing of single photons from a quantum dot with resonantly enhanced electro-optic modulators. APL Photonics, 2022, 7, .	3.0	9
2	Exploring complex graphs using three-dimensional quantum walks of correlated photons. Science Advances, 2021, 7, .	4.7	21
3	Symmetry Allows for Distinguishability in Totally Destructive Many-Particle Interference. PRX Quantum, 2021, 2, .	3.5	8
4	Towards probing for hypercomplex quantum mechanics in a waveguide interferometer. New Journal of Physics, 2021, 23, 093038.	1.2	4
5	Approaching the Tsirelson bound with a Sagnac source of polarization-entangled photons. SciPost Physics, 2021, 10, .	1.5	4
6	Experimental optimization of the fiber coupling efficiency of GaAs quantum dot-based photon sources. Applied Physics Letters, 2021, 119, .	1.5	2
7	Exploring complex graphs with 3D quantum walks of correlated photons. , 2020, , .		0
8	The right platform for the job. Nature Physics, 2019, 15, 879-880.	6.5	0
9	Totally Destructive Many-Particle Interference. Physical Review Letters, 2018, 120, 240404.	2.9	31
10	Totally destructive interference for permutation-symmetric many-particle states. Physical Review A, 2018, 97, .	1.0	20
11	Obtaining tight bounds on higher-order interferences with a 5-path interferometer. New Journal of Physics, 2017, 19, 033017.	1.2	37
12	Many-body quantum interference on hypercubes. Quantum Science and Technology, 2017, 2, 015003.	2.6	23
13	Many-particle interference in a two-component bosonic Josephson junction: an all-optical simulation. New Journal of Physics, 2017, 19, 125015.	1.2	12
14	Implementation of quantum discrete fractional Fourier transform. , 2017, , .		0
15	Hybrid waveguide-bulk multi-path interferometer with switchable amplitude and phase. APL Photonics, 2016, 1, 081302.	3.0	12
16	Hanbury Brown and Twiss anticorrelation in disordered photonic lattices. Physical Review A, 2016, 94, .	1.0	5
17	Universal Sign Control of Coupling in Tight-Binding Lattices. Physical Review Letters, 2016, 116, 213901.	2.9	56
18	Implementation of quantum and classical discrete fractional Fourier transforms. Nature Communications, 2016, 7, 11027.	5.8	81

#	Article	IF	Citations
19	Controlling Mandelâ€™s Q-parameter in Disordered Lattices via Excitation-Symmetry Breaking. , 2016, , .		0
20	Optical simulation of unphysical Majorana dynamics. , 2016, , .		0
21	Tailoring Photon-number Distribution in Disordered Lattices with Chiral Symmetry. , 2016, , .		0
22	Direct measurement of second-order coupling in a waveguide lattice. Applied Physics Letters, 2015, 107, 241104.	1.5	19
23	Optical simulation of charge conservation violation and Majorana dynamics. Optica, 2015, 2, 454.	4.8	41
24	Highly Efficient Eigenstate-Assisted Long-Distance Quantum State Transfer in Photonic Lattices. , 2014, , .		0
25	Photonic coherent state transfer with Hamiltonian dynamics. Optics Letters, 2014, 39, 123.	1.7	6
26	Ultraprecise phase manipulation in integrated photonic quantum circuits with generalized directional couplers. Applied Physics Letters, 2014, 105, 061111.	1.5	8
27	Quantum Walks of Correlated Photon Pairs in Two-Dimensional Waveguide Arrays. Physical Review Letters, 2014, 112, 143604.	2.9	116
28	On-chip generation of high-order single-photon W-states. Nature Photonics, 2014, 8, 791-795.	15.6	109
29	Compact Surface Fano States Embedded in the Continuum of Waveguide Arrays. Physical Review Letters, 2013, 111, 240403.	2.9	175
30	Einstein-Podolsky-Rosen Spatial Entanglement in Ordered and Anderson Photonic Lattices. Physical Review Letters, 2013, 110, 150503.	2.9	67
31	The random mass Dirac model and long-range correlations on an integrated optical platform. Nature Communications, 2013, 4, 1368.	5.8	34
32	Correlations of indistinguishable particles in non-Hermitian lattices. New Journal of Physics, 2013, 15, 033008.	1.2	11
33	Coherent quantum transport in photonic lattices. Physical Review A, 2013, 87, .	1.0	146
34	Perfect transfer of path-entangled photons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>photonic lattices. Physical Review A, 2013, 87, .	1.0	55
35	Optical limiting and spectral stabilization in segmented photonic lattices. , 2013, , .		0
36	Optical limiting and spectral stabilization in segmented photonic lattices. Optics Express, 2012, 20, 27299.	1.7	7

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37	Observation of Bloch-like revivals in semi-infinite Glauberâ€“Fock photonic lattices. Optics Letters, 2012, 37, 3801.	1.7	37
38	Negative coupling between defects in waveguide arrays. Optics Letters, 2012, 37, 533.	1.7	17
39	Perfect imaging through a disordered waveguide lattice. Optics Letters, 2012, 37, 809.	1.7	27
40	Tailoring the correlation and anticorrelation behavior of path-entangled photons in Glauber-Fock oscillator lattices. Physical Review A, 2012, 85, .	1.0	38
41	Disorder-enhanced nonlinear delocalization in segmented waveguide arrays. New Journal of Physics, 2012, 14, 073026.	1.2	10
42	Biphoton generation in quadratic waveguide arrays: A classical optical simulation. Scientific Reports, 2012, 2, 562.	1.6	35
43	Klein tunneling of light in waveguide superlattices. Europhysics Letters, 2012, 97, 10008.	0.7	64
44	Observation of Anderson co-localization of spatially entangled photon pairs. , 2012, , .		0
45	Optical Analogues for Massless Dirac Particles and Conical Diffraction in One Dimension. Physical Review Letters, 2012, 109, 023602.	2.9	73
46	Classical Analogue of Displaced Fock States and Quantum Correlations in Glauber-Fock Photonic Lattices. Physical Review Letters, 2011, 107, 103601.	2.9	79
47	Anderson localization in optical waveguide arrays with off-diagonal coupling disorder. Optics Express, 2011, 19, 13636.	1.7	169
48	Solitons in geometric potentials. Optics Letters, 2011, 36, 3470.	1.7	8
49	Observation of anharmonic Bloch oscillations. Optics Letters, 2011, 36, 3963.	1.7	25
50	Nonlinear discrete optics in femtosecond laser-written photonic lattices. Applied Physics B: Lasers and Optics, 2011, 104, 469-480.	1.1	25
51	All-optical routing and switching for three-dimensional photonic circuitry. Scientific Reports, 2011, 1, 94.	1.6	66
52	Amorphous Photonic Lattices: Band Gaps, Effective Mass, and Suppressed Transport. Physical Review Letters, 2011, 106, 193904.	2.9	69
53	Classical characterization of biphoton correlation in waveguide lattices. Physical Review A, 2011, 83, .	1.0	17
54	Displaced Fock states and photon correlations in Glauber-Fock photonic lattices. , 2011, , .		0

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55	Tuning the structural properties of femtosecond-laser-induced nanogratings. Applied Physics A: Materials Science and Processing, 2010, 100, 1-6.	1.1	85
56	Nonlinear localized states in the vicinity of topological defects in waveguide arrays. New Journal of Physics, 2010, 12, 113020.	1.2	9
57	Geometric Potential and Transport in Photonic Topological Crystals. Physical Review Letters, 2010, 104, 150403.	2.9	75
58	Wave localization at the boundary of disordered photonic lattices. Optics Letters, 2010, 35, 1172.	1.7	95
59	Observation of localized modes at phase slips in two-dimensional photonic lattices. Optics Letters, 2010, 35, 2738.	1.7	11
60	Classical Simulation of RelativisticZitterbewegungin Photonic Lattices. Physical Review Letters, 2010, 105, 143902.	2.9	189
61	Photon correlations in two-dimensional waveguide arrays and their classical estimate. Physical Review A, 2010, 81, .	1.0	38
62	Observation of Three-Dimensional Discrete-Continuous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi></mml:math>Waves in Photonic Lattices. Physical Review Letters, 2009, 103, 113903.	2.9	36
63	Polychromatic beam splitting by fractional stimulated Raman adiabatic passage. Applied Physics Letters, 2009, 95, 261102.	1.5	61
64	Observation of two-dimensional coherent surface vector lattice solitons. Optics Letters, 2009, 34, 1624.	1.7	10
65	Adiabatic transfer of light via a continuum in optical waveguides. Optics Letters, 2009, 34, 2405.	1.7	98
66	Nonlinearity-induced broadening of resonances in dynamically modulated couplers. Optics Letters, 2009, 34, 2700.	1.7	33
67	Observation of discrete solitons in lattices with second-order interaction. Optics Letters, 2009, 34, 2838.	1.7	28
68	Observation of two-dimensional superlattice solitons. Optics Letters, 2009, 34, 3701.	1.7	20
69	Two-dimensional solitons at interfaces between binary superlattices and homogeneous lattices. Physical Review A, 2009, 80, .	1.0	15