

# Edo Waks

## List of Publications by Citations

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117  
papers

6,752  
citations

39  
h-index

81  
g-index

147  
ext. papers

8,010  
ext. citations

7  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
117	Ultrabright source of polarization-entangled photons. <i>Physical Review A</i> , <b>1999</b> , 60, R773-R776	2.6	770
116	Controlling the spontaneous emission rate of single quantum dots in a two-dimensional photonic crystal. <i>Physical Review Letters</i> , <b>2005</b> , 95, 013904	7.4	684
115	Policing stabilizes construction of social niches in primates. <i>Nature</i> , <b>2006</b> , 439, 426-9	50.4	467
114	Dipole induced transparency in drop-filter cavity-waveguide systems. <i>Physical Review Letters</i> , <b>2006</b> , 96, 153601	7.4	301
113	A topological quantum optics interface. <i>Science</i> , <b>2018</b> , 359, 666-668	33.3	293
112	Structure of growing social networks. <i>Physical Review E</i> , <b>2001</b> , 64, 046132	2.4	278
111	Secure communication: quantum cryptography with a photon turnstile. <i>Nature</i> , <b>2002</b> , 420, 762	50.4	213
110	Cavity QED treatment of interactions between a metal nanoparticle and a dipole emitter. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	188
109	The size of the sync basin. <i>Chaos</i> , <b>2006</b> , 16, 015103	3.3	182
108	Two-dimensionally confined topological edge states in photonic crystals. <i>New Journal of Physics</i> , <b>2016</b> , 18, 113013	2.9	143
107	Low-photon-number optical switching with a single quantum dot coupled to a photonic crystal cavity. <i>Physical Review Letters</i> , <b>2012</b> , 108, 227402	7.4	132
106	Reservoir observers: Model-free inference of unmeasured variables in chaotic systems. <i>Chaos</i> , <b>2017</b> , 27, 041102	3.3	128
105	A quantum logic gate between a solid-state quantum bit and a photon. <i>Nature Photonics</i> , <b>2013</b> , 7, 373-377	35.9	110
104	Hybrid Integration of Solid-State Quantum Emitters on a Silicon Photonic Chip. <i>Nano Letters</i> , <b>2017</b> , 17, 7394-7400	11.5	95
103	Submicrosecond correlations in photoluminescence from InAs quantum dots. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	93
102	A room temperature continuous-wave nanolaser using colloidal quantum wells. <i>Nature Communications</i> , <b>2017</b> , 8, 143	17.4	92
101	Direct observation of nonclassical photon statistics in parametric down-conversion. <i>Physical Review Letters</i> , <b>2004</b> , 92, 113602	7.4	90

100	A quantum phase switch between a single solid-state spin and a photon. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 539-544	28.7	89
99	A single-photon switch and transistor enabled by a solid-state quantum memory. <i>Science</i> , <b>2018</b> , 361, 57-60	33.3	82
98	Two-photon interference from a bright single-photon source at telecom wavelengths. <i>Optica</i> , <b>2016</b> , 3, 577	8.6	80
97	High-efficiency photon-number detection for quantum information processing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 1502-1511	3.8	77
96	Hybrid integration methods for on-chip quantum photonics. <i>Optica</i> , <b>2020</b> , 7, 291	8.6	77
95	Ultrafast nonlinear optical tuning of photonic crystal cavities. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 091118	3.4	76
94	Spectral properties of networks with community structure. <i>Physical Review E</i> , <b>2009</b> , 80, 056114	2.4	75
93	The effect of network topology on the stability of discrete state models of genetic control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8209-14	11.5	72
92	Simple model of epidemics with pathogen mutation. <i>Physical Review E</i> , <b>2002</b> , 65, 031915	2.4	70
91	Generation of photon number states. <i>New Journal of Physics</i> , <b>2006</b> , 8, 4-4	2.9	69
90	Predicting maximum tree heights and other traits from allometric scaling and resource limitations. <i>PLoS ONE</i> , <b>2011</b> , 6, e20551	3.7	63
89	Onset of irreversibility in cyclic shear of granular packings. <i>Physical Review E</i> , <b>2012</b> , 85, 021309	2.4	59
88	Dispersive properties and large Kerr nonlinearities using dipole-induced transparency in a single-sided cavity. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	54
87	Security aspects of quantum key distribution with sub-Poisson light. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	53
86	Coupled mode theory for photonic crystal cavity-waveguide interaction. <i>Optics Express</i> , <b>2005</b> , 13, 5064-73	3.3	49
85	Strong coupling between two quantum dots and a photonic crystal cavity using magnetic field tuning. <i>Optics Express</i> , <b>2011</b> , 19, 2589-98	3.3	47
84	Optimal design, robustness, and risk aversion. <i>Physical Review Letters</i> , <b>2002</b> , 89, 028301	7.4	47
83	All-optical coherent control of vacuum Rabi oscillations. <i>Nature Photonics</i> , <b>2014</b> , 8, 858-864	33.9	45

82	Annotation enrichment analysis: an alternative method for evaluating the functional properties of gene sets. <i>Scientific Reports</i> , <b>2014</b> , 4, 4191	4.9	44
81	Nanoscale probing of image-dipole interactions in a metallic nanostructure. <i>Nature Communications</i> , <b>2015</b> , 6, 6558	17.4	43
80	Coupling Emission from Single Localized Defects in Two-Dimensional Semiconductor to Surface Plasmon Polaritons. <i>Nano Letters</i> , <b>2017</b> , 17, 6564-6568	11.5	40
79	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. <i>Chaos</i> , <b>2016</b> , 26, 094811	3.3	39
78	Chiral quantum optics using a topological resonator. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	38
77	Manipulating quantum dots to nanometer precision by control of flow. <i>Nano Letters</i> , <b>2010</b> , 10, 2525-30	11.5	37
76	Resonant interactions between a Mollow triplet sideband and a strongly coupled cavity. <i>Physical Review Letters</i> , <b>2014</b> , 113, 027403	7.4	36
75	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3463-3469	6.4	35
74	Flow Control of Small Objects on Chip: Manipulating Live Cells, Quantum Dots, and Nanowires. <i>IEEE Control Systems</i> , <b>2012</b> , 32, 26-53	2.9	35
73	Integration of quantum dots with lithium niobate photonics. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 221102	3.4	35
72	Super-Radiant Emission from Quantum Dots in a Nanophotonic Waveguide. <i>Nano Letters</i> , <b>2018</b> , 18, 4734-4740	11.5	35
71	Radiative Enhancement of Single Quantum Emitters in WSe <sub>2</sub> Monolayers Using Site-Controlled Metallic Nanopillars. <i>ACS Photonics</i> , <b>2018</b> , 5, 3466-3471	6.3	32
70	Controlled coupling of photonic crystal cavities using photochromic tuning. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 141118	3.4	32
69	Dynamical transitions in large systems of mean field-coupled Landau-Stuart oscillators: Extensive chaos and cluster states. <i>Chaos</i> , <b>2015</b> , 25, 123122	3.3	29
68	Strain tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 151102	3.4	29
67	Observation of strong coupling through transmission modification of a cavity-coupled photonic crystal waveguide. <i>Optics Express</i> , <b>2011</b> , 19, 5398-409	3.3	28
66	Magnetic field tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 091102	3.4	28
65	Large optical Stark shifts in semiconductor quantum dots coupled to photonic crystal cavities. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 121109	3.4	28

64	Transferrable single crystalline 4H-SiC nanomembranes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 264-268	11.5	26
63	Positioning and immobilization of individual quantum dots with nanoscale precision. <i>Nano Letters</i> , <b>2010</b> , 10, 4673-9	11.5	26
62	Two-Photon Interference from the Far-Field Emission of Chip-Integrated Cavity-Coupled Emitters. <i>Nano Letters</i> , <b>2016</b> , 16, 7061-7066	11.5	25
61	Spontaneous emission enhancement and saturable absorption of colloidal quantum dots coupled to photonic crystal cavity. <i>Optics Express</i> , <b>2013</b> , 21, 29612-9	3.3	25
60	Local synchronization in complex networks of coupled oscillators. <i>Chaos</i> , <b>2011</b> , 21, 025109	3.3	24
59	Multiscale dynamics in communities of phase oscillators. <i>Chaos</i> , <b>2012</b> , 22, 013102	3.3	24
58	Reversible tuning of photonic crystal cavities using photochromic thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 153303	3.4	23
57	All-Optical Switch Using Quantum-Dot Saturable Absorbers in a DBR Microcavity. <i>IEEE Journal of Quantum Electronics</i> , <b>2011</b> , 47, 31-39	2	22
56	Modeling the network dynamics of pulse-coupled neurons. <i>Chaos</i> , <b>2017</b> , 27, 033102	3.3	20
55	Generation and manipulation of nonclassical light using photonic crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 32, 466-470	3	20
54	Integrated Photonic Platform for Rare-Earth Ions in Thin Film Lithium Niobate. <i>Nano Letters</i> , <b>2020</b> , 20, 741-747	11.5	20
53	Competing opinions and stubbornness: Connecting models to data. <i>Physical Review E</i> , <b>2016</b> , 93, 032305	2.4	18
52	Synthetic Gauge Field for Two-Dimensional Time-Multiplexed Quantum Random Walks. <i>Physical Review Letters</i> , <b>2019</b> , 123, 150503	7.4	18
51	Coupling quantum emitters in WSe <sub>2</sub> monolayers to a metal-insulator-metal waveguide. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 191105	3.4	18
50	A reversibly tunable photonic crystal nanocavity laser using photochromic thin film. <i>Optics Express</i> , <b>2011</b> , 19, 5551-8	3.3	17
49	All-optical tuning of a quantum dot in a coupled cavity system. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 231107	3.4	17
48	The myopia of crowds: Cognitive load and collective evaluation of answers on Stack Exchange. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173610	3.7	15
47	Dynamical instability in Boolean networks as a percolation problem. <i>Physical Review Letters</i> , <b>2012</b> , 109, 085701	7.4	15

46	Echo phenomena in large systems of coupled oscillators. <i>Chaos</i> , <b>2008</b> , 18, 037115	3.3	15
45	Single-shot optical readout of a quantum bit using cavity quantum electrodynamics. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	14
44	Weakly explosive percolation in directed networks. <i>Physical Review E</i> , <b>2013</b> , 87, 052127	2.4	14
43	Development of metal etch mask by single layer lift-off for silicon nitride photonic crystals. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 994-998	2.5	13
42	Chiral light-matter interactions using spin-valley states in transition metal dichalcogenides. <i>Optics Express</i> , <b>2019</b> , 27, 21367-21379	3.3	13
41	Serialized quantum error correction protocol for high-bandwidth quantum repeaters. <i>New Journal of Physics</i> , <b>2016</b> , 18, 093008	2.9	13
40	Nanostructure-Induced Distortion in Single-Emitter Microscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 5415-9	11.5	12
39	Modeling the dynamics of bivalent histone modifications. <i>PLoS ONE</i> , <b>2013</b> , 8, e77944	3.7	12
38	Blue blood or black blood: R1 effects in gradient-echo echo-planar functional neuroimaging. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 369-78	3.3	12
37	A Spin-Photon Interface Using Charge-Tunable Quantum Dots Strongly Coupled to a Cavity. <i>Nano Letters</i> , <b>2019</b> , 19, 7072-7077	11.5	11
36	Spontaneous emission enhancement of colloidal perovskite nanocrystals by a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 221104	3.4	11
35	Stability of Boolean networks: the joint effects of topology and update rules. <i>Physical Review E</i> , <b>2014</b> , 90, 022814	2.4	11
34	Interpreting patterns of gene expression: signatures of coregulation, the data processing inequality, and triplet motifs. <i>PLoS ONE</i> , <b>2012</b> , 7, e31969	3.7	11
33	A fiber-integrated nanobeam single photon source emitting at telecom wavelengths. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 171101	3.4	9
32	Overcoming Auger recombination in nanocrystal quantum dot laser using spontaneous emission enhancement. <i>Optics Express</i> , <b>2014</b> , 22, 3013-27	3.3	9
31	Deterministic generation of entanglement between a quantum-dot spin and a photon. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	9
30	Cavity-Enhanced Optical Readout of a Single Solid-State Spin. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	8
29	Silicon photonic add-drop filter for quantum emitters. <i>Optics Express</i> , <b>2019</b> , 27, 16882-16889	3.3	8

28	Finding New Order in Biological Functions from the Network Structure of Gene Annotations. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004565	5	8
27	Large stark tuning of InAs/InP quantum dots. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 071105	3.4	7
26	Spatially embedded growing small-world networks. <i>Scientific Reports</i> , <b>2014</b> , 4, 7047	4.9	7
25	Scanning localized magnetic fields in a microfluidic device with a single nitrogen vacancy center. <i>Nano Letters</i> , <b>2015</b> , 15, 1481-6	11.5	7
24	Implications of functional similarity for gene regulatory interactions. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 1625-36	4.1	7
23	Map model for synchronization of systems of many coupled oscillators. <i>Chaos</i> , <b>2010</b> , 20, 023109	3.3	6
22	Guiding and confining of light in a two-dimensional synthetic space using electric fields. <i>Optica</i> , <b>2020</b> , 7, 506	8.6	6
21	Bright Telecom-Wavelength Single Photons Based on a Tapered Nanobeam. <i>Nano Letters</i> , <b>2021</b> , 21, 323-329	11.5	6
20	Fabrication of nanoassemblies using flow control. <i>Nano Letters</i> , <b>2013</b> , 13, 3936-41	11.5	5
19	Consequences of anomalous diffusion in disordered systems under cyclic forcing. <i>Physical Review Letters</i> , <b>2014</b> , 112, 228001	7.4	5
18	Wireless current sensing by near field induction from a spin transfer torque nano-oscillator. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 242403	3.4	5
17	A pathway-centric view of spatial proximity in the 3D nucleome across cell lines. <i>Scientific Reports</i> , <b>2016</b> , 6, 39279	4.9	5
16	Active Control of Photon Recycling for Tunable Optoelectronic Materials. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701323	8.1	4
15	A network function-based definition of communities in complex networks. <i>Chaos</i> , <b>2012</b> , 22, 033129	3.3	4
14	Controlling the dark exciton spin eigenstates by external magnetic field. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	4
13	High rectification sensitivity of radiofrequency signal through adiabatic stochastic resonance in nanoscale magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 192402	3.4	3
12	Stability of Boolean networks with generalized canalizing rules. <i>Physical Review E</i> , <b>2012</b> , 85, 046106	2.4	3
11	Frequency conversion of microwave signal without direct bias current using nanoscale magnetic tunnel junctions. <i>Scientific Reports</i> , <b>2019</b> , 9, 828	4.9	3

10	Impact of imperfect information on network attack. <i>Physical Review E</i> , <b>2015</b> , 91, 032807	2.4	2
9	Deterministic generation of multidimensional photonic cluster states using time-delay feedback. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	2
8	Inhibitory neurons promote robust critical firing dynamics in networks of integrate-and-fire neurons. <i>Physical Review E</i> , <b>2016</b> , 94, 062309	2.4	2
7	C-band single photons from a trapped ion via two-stage frequency conversion. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 084001	3.4	2
6	Storing light in a tiny box. <i>Science</i> , <b>2017</b> , 357, 1354-1355	33.3	1
5	Activation of Microwave Signals in Nanoscale Magnetic Tunnel Junctions by Neuronal Action Potentials. <i>IEEE Magnetism Letters</i> , <b>2019</b> , 10, 1-5	1.6	1
4	Origin of spectral brightness variations in InAs/InP quantum dot telecom single photon emitters. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 011202	1.3	1
3	Design of an Integrated Bell-State Analyzer on a Thin-Film Lithium Niobate Platform. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-9	1.8	0
2	Temporal shaping of single photons by engineering exciton dynamics in a single quantum dot. <i>APL Photonics</i> , <b>2021</b> , 6, 080801	5.2	0
1	Interfacing Single Quantum Dot Spins with Photons Using a Nanophotonic Cavity. <i>Nano-optics and Nanophotonics</i> , <b>2017</b> , 359-378	0	