

Edo Waks

List of Publications by Year in descending order

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145
papers

8,964
citations

53939

47
h-index

46524

93
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147
all docs

147
docs citations

147
times ranked

10174
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of an Integrated Bell-State Analyzer on a Thin-Film Lithium Niobate Platform. IEEE Photonics Journal, 2022, 14, 1-9.	1.0	2
2	Multiplexed quantum repeaters based on dual-species trapped-ion systems. Physical Review A, 2022, 105, .	1.0	13
3	Quantum Fourier transform on photonic qubits using cavity QED. Physical Review A, 2022, 106, .	1.0	5
4	Bright Telecom-Wavelength Single Photons Based on a Tapered Nanobeam. Nano Letters, 2021, 21, 323-329.	4.5	17
5	Single-Shot Readout of a Solid-State Spin in a Decoherence-Free Subspace. Physical Review Applied, 2021, 15, .	1.5	2
6	Deterministic generation of multidimensional photonic cluster states using time-delay feedback. Physical Review A, 2021, 104, .	1.0	13
7	C-band single photons from a trapped ion via two-stage frequency conversion. Applied Physics Letters, 2021, 119, .	1.5	13
8	Temporal shaping of single photons by engineering exciton dynamics in a single quantum dot. APL Photonics, 2021, 6, 080801.	3.0	3
9	Integrated Photonic Platform for Rare-Earth Ions in Thin Film Lithium Niobate. Nano Letters, 2020, 20, 741-747.	4.5	60
10	Chiral quantum optics using a topological resonator. Physical Review B, 2020, 101, .	1.1	84
11	Hybrid integration methods for on-chip quantum photonics. Optica, 2020, 7, 291.	4.8	161
12	Guiding and confining of light in a two-dimensional synthetic space using electric fields. Optica, 2020, 7, 506.	4.8	14
13	Single-shot readout of a solid-state spin in a decoherence-free subspace. , 2020, , .		0
14	Chiral coupling of a quantum emitter in a topological photonic resonator. , 2020, , .		0
15	Arbitrary sequenced spin control of a Quantum Dot strongly coupled to a photonic crystal cavity. , 2020, , .		0
16	Synthetic Gauge Field for Two-Dimensional Time-Multiplexed Quantum Random Walks. Physical Review Letters, 2019, 123, 150503.	2.9	43
17	High rectification sensitivity of radiofrequency signal through adiabatic stochastic resonance in nanoscale magnetic tunnel junctions. Applied Physics Letters, 2019, 115, .	1.5	5
18	A Spin-Photon Interface Using Charge-Tunable Quantum Dots Strongly Coupled to a Cavity. Nano Letters, 2019, 19, 7072-7077.	4.5	22

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19	Activation of Microwave Signals in Nanoscale Magnetic Tunnel Junctions by Neuronal Action Potentials. IEEE Magnetics Letters, 2019, 10, 1-5.	0.6	1
20	A fiber-integrated nanobeam single photon source emitting at telecom wavelengths. Applied Physics Letters, 2019, 114, .	1.5	25
21	Large stark tuning of InAs/InP quantum dots. Applied Physics Letters, 2019, 114, .	1.5	14
22	Origin of spectral brightness variations in InAs/InP quantum dot telecom single photon emitters. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 011202.	0.6	3
23	Frequency conversion of microwave signal without direct bias current using nanoscale magnetic tunnel junctions. Scientific Reports, 2019, 9, 828.	1.6	3
24	Silicon photonic add-drop filter for quantum emitters. Optics Express, 2019, 27, 16882.	1.7	9
25	Chiral light-matter interactions using spin-valley states in transition metal dichalcogenides. Optics Express, 2019, 27, 21367.	1.7	19
26	Integration of Quantum Emitters with Lithium Niobate Photonics. , 2019, , .		1
27	A Charge-Tunable Quantum Dot Strongly Coupled to a Nanophotonic Cavity. , 2019, , .		0
28	A topological quantum optics interface. Science, 2018, 359, 666-668.	6.0	518
29	Active Control of Photon Recycling for Tunable Optoelectronic Materials. Advanced Optical Materials, 2018, 6, 1701323.	3.6	6
30	Integration of quantum dots with lithium niobate photonics. Applied Physics Letters, 2018, 113, .	1.5	66
31	Coupling quantum emitters in WSe2 monolayers to a metal-insulator-metal waveguide. Applied Physics Letters, 2018, 113, .	1.5	19
32	Scalable Quantum Photonics Using Quantum Dots. , 2018, , .		0
33	Hybrid Integration of Solid-State Quantum Emitters with a Silicon Chip. , 2018, , .		0
34	A single-photon switch and transistor enabled by a solid-state quantum memory. Science, 2018, 361, 57-60.	6.0	137
35	Super-Radiant Emission from Quantum Dots in a Nanophotonic Waveguide. Nano Letters, 2018, 18, 4734-4740.	4.5	67
36	Cavity-Enhanced Optical Readout of a Single Solid-State Spin. Physical Review Applied, 2018, 9, .	1.5	13

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37	Radiative Enhancement of Single Quantum Emitters in WSe ₂ Monolayers Using Site-Controlled Metallic Nanopillars. ACS Photonics, 2018, 5, 3466-3471.	3.2	51
38	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 3463-3469.	2.1	50
39	A Silicon Photonic On-Chip Filter for Quantum Emitters. , 2018, , .		0
40	Controlling light with quantum dot spin on-a-chip. , 2018, , .		0
41	MBE growth of telecommunication wavelength single photon emitters. , 2018, , .		0
42	Modeling the network dynamics of pulse-coupled neurons. Chaos, 2017, 27, 033102.	1.0	24
43	Reservoir observers: Model-free inference of unmeasured variables in chaotic systems. Chaos, 2017, 27, 041102.	1.0	200
44	Transferrable single crystalline 4H-SiC nanomembranes. Journal of Materials Chemistry C, 2017, 5, 264-268.	2.7	30
45	Coupling Emission from Single Localized Defects in Two-Dimensional Semiconductor to Surface Plasmon Polaritons. Nano Letters, 2017, 17, 6564-6568.	4.5	57
46	Storing light in a tiny box. Science, 2017, 357, 1354-1355.	6.0	1
47	A room temperature continuous-wave nanolaser using colloidal quantum wells. Nature Communications, 2017, 8, 143.	5.8	119
48	Spontaneous emission enhancement of colloidal perovskite nanocrystals by a photonic crystal cavity. Applied Physics Letters, 2017, 111, .	1.5	14
49	Hybrid Integration of Solid-State Quantum Emitters on a Silicon Photonic Chip. Nano Letters, 2017, 17, 7394-7400.	4.5	142
50	Semiconductor quantum networks using quantum dots. , 2017, , .		1
51	Observation of edge states at telecom wavelengths in a nanoscale topological photonic crystal. , 2017, , .		0
52	The myopia of crowds: Cognitive load and collective evaluation of answers on Stack Exchange. PLoS ONE, 2017, 12, e0173610.	1.1	24
53	Nanophotonic Spin-photon Quantum Transistor. , 2017, , .		0
54	Two-Photon Interference from Multiple Solid-State Quantum Emitters. , 2017, , .		0

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55	Interfacing Single Quantum Dot Spins with Photons Using a Nanophotonic Cavity. Nano-optics and Nanophotonics, 2017, , 359-378.	0.2	1
56	Chip-Integrated Multiple Identical Quantum Emitters. , 2017, , .		0
57	Quantum dots in photonic crystals for integrated quantum photonics. , 2017, , .		0
58	Serialized quantum error correction protocol for high-bandwidth quantum repeaters. New Journal of Physics, 2016, 18, 093008.	1.2	20
59	Two-photon interference from a bright single-photon source at telecom wavelengths. Optica, 2016, 3, 577.	4.8	115
60	Two-dimensionally confined topological edge states in photonic crystals. New Journal of Physics, 2016, 18, 113013.	1.2	222
61	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. Chaos, 2016, 26, 094811.	1.0	58
62	Inhibitory neurons promote robust critical firing dynamics in networks of integrate-and-fire neurons. Physical Review E, 2016, 94, 062309.	0.8	3
63	Wireless current sensing by near field induction from a spin transfer torque nano-oscillator. Applied Physics Letters, 2016, 108, .	1.5	10
64	A pathway-centric view of spatial proximity in the 3D nucleome across cell lines. Scientific Reports, 2016, 6, 39279.	1.6	10
65	Controlling the dark exciton spin eigenstates by external magnetic field. Physical Review B, 2016, 94, .	1.1	5
66	Nanostructure-Induced Distortion in Single-Emitter Microscopy. Nano Letters, 2016, 16, 5415-5419.	4.5	18
67	Single-shot optical readout of a quantum bit using cavity quantum electrodynamics. Physical Review A, 2016, 94, .	1.0	22
68	Competing opinions and stubbornness: Connecting models to data. Physical Review E, 2016, 93, 032305.	0.8	20
69	Two-Photon Interference from the Far-Field Emission of Chip-Integrated Cavity-Coupled Emitters. Nano Letters, 2016, 16, 7061-7066.	4.5	41
70	A quantum phase switch between a single solid-state spin and a photon. Nature Nanotechnology, 2016, 11, 539-544.	15.6	129
71	Dynamical transitions in large systems of mean field-coupled Landau-Stuart oscillators: Extensive chaos and cluster states. Chaos, 2015, 25, 123122.	1.0	36
72	Spatially embedded growing small-world networks. Scientific Reports, 2015, 4, 7047.	1.6	8

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73	Improved voltage response in III-V solar cells based on engineered spontaneous emission. , 2015, , .		0
74	Scanning Localized Magnetic Fields in a Microfluidic Device with a Single Nitrogen Vacancy Center. Nano Letters, 2015, 15, 1481-1486.	4.5	12
75	Nanoscale probing of image-dipole interactions in a metallic nanostructure. Nature Communications, 2015, 6, 6558.	5.8	49
76	Impact of imperfect information on network attack. Physical Review E, 2015, 91, 032807.	0.8	4
77	Control of the cavity reflectivity using a single quantum dot spin. Proceedings of SPIE, 2015, , .	0.8	1
78	Finding New Order in Biological Functions from the Network Structure of Gene Annotations. PLoS Computational Biology, 2015, 11, e1004565.	1.5	11
79	Overcoming Auger recombination in nanocrystal quantum dot laser using spontaneous emission enhancement. Optics Express, 2014, 22, 3013.	1.7	9
80	Consequences of Anomalous Diffusion in Disordered Systems under Cyclic Forcing. Physical Review Letters, 2014, 112, 228001.	2.9	5
81	Deterministic generation of entanglement between a quantum-dot spin and a photon. Physical Review A, 2014, 90, .	1.0	18
82	Resonant Interactions between a Mollow Triplet Sideband and a Strongly Coupled Cavity. Physical Review Letters, 2014, 113, 027403.	2.9	41
83	Stability of Boolean networks: The joint effects of topology and update rules. Physical Review E, 2014, 90, 022814.	0.8	14
84	All-optical coherent control of vacuum Rabi oscillations. Nature Photonics, 2014, 8, 858-864.	15.6	58
85	Annotation Enrichment Analysis: An Alternative Method for Evaluating the Functional Properties of Gene Sets. Scientific Reports, 2014, 4, 4191.	1.6	56
86	Fabrication of Nanoassemblies Using Flow Control. Nano Letters, 2013, 13, 3936-3941.	4.5	10
87	Controlled coupling of photonic crystal cavities using photochromic tuning. Applied Physics Letters, 2013, 102, .	1.5	42
88	A quantum logic gate between a solid-state quantum bit and a photon. Nature Photonics, 2013, 7, 373-377.	15.6	138
89	Weakly explosive percolation in directed networks. Physical Review E, 2013, 87, 052127.	0.8	17
90	Spontaneous emission enhancement and saturable absorption of colloidal quantum dots coupled to photonic crystal cavity. Optics Express, 2013, 21, 29612.	1.7	30

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91	Strain tuning of a quantum dot strongly coupled to a photonic crystal cavity. Applied Physics Letters, 2013, 103, .	1.5	40
92	Modeling the Dynamics of Bivalent Histone Modifications. PLoS ONE, 2013, 8, e77944.	1.1	15
93	Implications of functional similarity for gene regulatory interactions. Journal of the Royal Society Interface, 2012, 9, 1625-1636.	1.5	7
94	Multiscale dynamics in communities of phase oscillators. Chaos, 2012, 22, 013102.	1.0	28
95	Stability of Boolean networks with generalized canalizing rules. Physical Review E, 2012, 85, 046106.	0.8	3
96	Dynamical Instability in Boolean Networks as a Percolation Problem. Physical Review Letters, 2012, 109, 085701.	2.9	16
97	All-optical tuning of a quantum dot in a coupled cavity system. Applied Physics Letters, 2012, 100, 231107.	1.5	20
98	Onset of irreversibility in cyclic shear of granular packings. Physical Review E, 2012, 85, 021309.	0.8	63
99	A network function-based definition of communities in complex networks. Chaos, 2012, 22, 033129.	1.0	4
100	Flow Control of Small Objects on Chip: Manipulating Live Cells, Quantum Dots, and Nanowires. IEEE Control Systems, 2012, 32, 26-53.	1.0	53
101	Low-Photon-Number Optical Switching with a Single Quantum Dot Coupled to a Photonic Crystal Cavity. Physical Review Letters, 2012, 108, 227402.	2.9	157
102	Interpreting Patterns of Gene Expression: Signatures of Coregulation, the Data Processing Inequality, and Triplet Motifs. PLoS ONE, 2012, 7, e31969.	1.1	11
103	Selective nano-assembly of single quantum dots on a two dimensional surface. , 2011, , .		0
104	Selective coupling of quantum dot exciton spin states to a photonic crystal cavity using magnetic field tuning. , 2011, , .		0
105	Deterministic nano-manipulation and immobilization of single quantum dots. , 2011, , .		0
106	Overcoming Auger recombination in nanocrystal quantum dots using Purcell enhancement. , 2011, , .		0
107	Strong coupling between two quantum dots and a photonic crystal cavity using magnetic field tuning. Optics Express, 2011, 19, 2589.	1.7	58
108	Observation of strong coupling through transmission modification of a cavity-coupled photonic crystal waveguide. Optics Express, 2011, 19, 5398.	1.7	34

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109	A reversibly tunable photonic crystal nanocavity laser using photochromic thin film. Optics Express, 2011, 19, 5551.	1.7	19
110	Predicting Maximum Tree Heights and Other Traits from Allometric Scaling and Resource Limitations. PLoS ONE, 2011, 6, e20551.	1.1	76
111	All-Optical Switch Using Quantum-Dot Saturable Absorbers in a DBR Microcavity. IEEE Journal of Quantum Electronics, 2011, 47, 31-39.	1.0	26
112	Development of metal etch mask by single layer lift-off for silicon nitride photonic crystals. Microelectronic Engineering, 2011, 88, 994-998.	1.1	16
113	Local synchronization in complex networks of coupled oscillators. Chaos, 2011, 21, 025109.	1.0	27
114	Low photon nonlinear effects in integrated photonic crystal cavities coupled to quantum dots. , 2011, , .		0
115	Magnetic field tuning of a quantum dot strongly coupled to a photonic crystal cavity. Applied Physics Letters, 2011, 98, .	1.5	37
116	Large optical Stark shifts in semiconductor quantum dots coupled to photonic crystal cavities. Applied Physics Letters, 2011, 98, .	1.5	35
117	Reversible tuning of photonic crystal cavities using photochromic thin films. Applied Physics Letters, 2010, 96, 153303.	1.5	31
118	Cavity QED treatment of interactions between a metal nanoparticle and a dipole emitter. Physical Review A, 2010, 82, .	1.0	231
119	Map model for synchronization of systems of many coupled oscillators. Chaos, 2010, 20, 023109.	1.0	7
120	Nanometer positioning of single quantum dots by flow control. , 2010, , .		0
121	Positioning and Immobilization of Individual Quantum Dots with Nanoscale Precision. Nano Letters, 2010, 10, 4673-4679.	4.5	39
122	Manipulating Quantum Dots to Nanometer Precision by Control of Flow. Nano Letters, 2010, 10, 2525-2530.	4.5	54
123	Spectral properties of networks with community structure. Physical Review E, 2009, 80, 056114.	0.8	84
124	The effect of network topology on the stability of discrete state models of genetic control. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8209-8214.	3.3	85
125	Echo phenomena in large systems of coupled oscillators. Chaos, 2008, 18, 037115.	1.0	22
126	Ultrafast nonlinear optical tuning of photonic crystal cavities. Applied Physics Letters, 2007, 90, 091118.	1.5	90

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127	Ultra Fast Nonlinear Optical Tuning of Photonic Crystal Cavities. , 2007, , .		0
128	Dispersive properties and large Kerr nonlinearities using dipole-induced transparency in a single-sided cavity. Physical Review A, 2006, 73, .	1.0	65
129	The size of the sync basin. Chaos, 2006, 16, 015103.	1.0	223
130	Dipole Induced Transparency in Drop-Filter Cavity-Waveguide Systems. Physical Review Letters, 2006, 96, 153601.	2.9	366
131	Policing stabilizes construction of social niches in primates. Nature, 2006, 439, 426-429.	13.7	545
132	Generation and manipulation of nonclassical light using photonic crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 466-470.	1.3	33
133	Generation of photon number states. New Journal of Physics, 2006, 8, 4-4.	1.2	84
134	Coupled mode theory for photonic crystal cavity-waveguide interaction. Optics Express, 2005, 13, 5064.	1.7	67
135	Controlling the Spontaneous Emission Rate of Single Quantum Dots in a Two-Dimensional Photonic Crystal. Physical Review Letters, 2005, 95, 013904.	2.9	805
136	Direct Observation of Nonclassical Photon Statistics in Parametric Down-Conversion. Physical Review Letters, 2004, 92, 113602.	2.9	117
137	Submicrosecond correlations in photoluminescence from InAs quantum dots. Physical Review B, 2004, 69, .	1.1	106
138	High-efficiency photon-number detection for quantum information processing. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1502-1511.	1.9	92
139	Simple model of epidemics with pathogen mutation. Physical Review E, 2002, 65, 031915.	0.8	81
140	Optimal Design, Robustness, and Risk Aversion. Physical Review Letters, 2002, 89, 028301.	2.9	55
141	Security aspects of quantum key distribution with sub-Poisson light. Physical Review A, 2002, 66, .	1.0	71
142	Quantum cryptography with a photon turnstile. Nature, 2002, 420, 762-762.	13.7	272
143	Structure of growing social networks. Physical Review E, 2001, 64, 046132.	0.8	347
144	Ultrabright source of polarization-entangled photons. Physical Review A, 1999, 60, R773-R776.	1.0	931

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145	Blue blood or black blood: R1 effects in gradient-echo echo-planar functional neuroimaging. Magnetic Resonance Imaging, 1995, 13, 369-378.	1.0	12