

Yi Yu

List of Publications by Year in descending order

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66
papers

1,094
citations

471371

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docs citations

67
times ranked

807
citing authors

#	ARTICLE	IF	CITATIONS
1	Crosstalk-free all-optical switching enabled by Fano resonance in a multi-mode photonic crystal nanocavity. <i>Optics Express</i> , 2022, 30, 7457.	1.7	6
2	Electrically-operated buried-heterostructure nanocavity laser with sub-20 μ A threshold current. , 2021, , .		0
3	Ultra-coherent Fano laser based on a bound state in the continuum. <i>Nature Photonics</i> , 2021, 15, 758-764.	15.6	76
4	Optimal Scheduling Strategy of Cascade Hydropower Plants Under the Joint Market of Day-Ahead Energy and Frequency Regulation. <i>IEEE Access</i> , 2021, 9, 87749-87762.	2.6	6
5	Experimental Realization of Topology-Optimized InP Photonic Cavities with Extreme Dielectric Confinement. , 2021, , .		1
6	Remote excitation between quantum emitters mediated by an optical Fano resonance. <i>Optica</i> , 2021, 8, 1605.	4.8	7
7	Modal Properties of Photonic Crystal Cavities and Applications to Lasers. <i>Nanomaterials</i> , 2021, 11, 3030.	1.9	20
8	Direct Optical Modulation of Photonic Crystal Fano Laser via the Mirror. , 2021, , .		0
9	All-optical non-linear activation function for neuromorphic photonic computing using semiconductor Fano lasers. <i>Optics Letters</i> , 2020, 45, 3844.	1.7	28
10	In μ Plane Photonic Crystal Devices using Fano Resonances. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900054.	4.4	40
11	Coupling Distant Quantum Dots using a Photonic Crystal Fano Structure. , 2019, , .		0
12	Semiconductor Fano Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-14.	1.9	18
13	Ultrafast parametric process in a photonic-crystal nanocavity switch. <i>Physical Review A</i> , 2019, 99, .	1.0	1
14	Towards High-Speed Fano Photonic Switches. , 2019, , .		1
15	Low-Power Thermo-Optic Switching Using Photonic Crystal Fano Structure with p-i-n Junction. , 2019, , .		2
16	Suppression of Coherence Collapse in Semiconductor Fano Lasers. <i>Physical Review Letters</i> , 2019, 123, 233904.	2.9	21
17	Photonic crystal laser based on Fano interference allows for ultrafast frequency modulation in the THz range. , 2019, , .		2
18	Optimization of the threshold pump power of a photonic crystal nanolaser: experiment and theory. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Maximizing the quality factor to mode volume ratio for ultra-small photonic crystal cavities. Applied Physics Letters, 2018, 113, .	1.5	67
20	Fano Resonances for Realizing Compact and Low Energy Consumption Photonic Switches. , 2018, , .		0
21	Small and Large Signal Analysis of Photonic Crystal Fano Laser. Journal of Lightwave Technology, 2018, 36, 5611-5616.	2.7	8
22	Modes, stability, and small-signal response of photonic crystal Fano lasers. Optics Express, 2018, 26, 16365.	1.7	19
23	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. Optics Letters, 2018, 43, 955.	1.7	14
24	Signal reshaping and noise suppression using photonic crystal Fano structures. Optics Express, 2018, 26, 19596.	1.7	21
25	Coupled photonic crystal cavity-waveguide structures incorporating site-controlled semiconductor quantum dots. , 2018, , .		0
26	Parametric processes induced by ultrafast dynamics in a photonic crystal nanocavity switch. , 2018, , .		0
27	Demonstration of a self-pulsing photonic crystal Fano laser. Nature Photonics, 2017, 11, 81-84.	15.6	166
28	Theory of Self-Pulsing in Photonic Crystal Fano Lasers. Laser and Photonics Reviews, 2017, 11, 1700089.	4.4	24
29	Photonic crystal Fano lasers and Fano switches. , 2017, , .		0
30	Lasers, switches and non-reciprocal elements based on photonic crystal Fano resonances. , 2017, , .		1
31	Experimental demonstration of a Fano laser based on photonic crystals. , 2017, , .		0
32	Regimes of self-pulsing in photonic crystal Fano lasers. , 2017, , .		0
33	Large signal simulation of photonic crystal Fano laser. , 2017, , .		0
34	Theory and simulations of self-pulsing in photonic crystal Fano lasers. , 2017, , .		0
35	Photonic crystal Fano resonances for realizing optical switches, lasers, and non-reciprocal elements. , 2017, , .		1
36	Parametric gain assisted by free-carriers population oscillations in photonic crystal cavity. , 2016, , .		0

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37	Ultrafast Coherent Dynamics of a Photonic Crystal all-Optical Switch. Physical Review Letters, 2016, 117, 233901.	2.9	30
38	Spectral symmetry of Fano resonances in a waveguide coupled to a microcavity. Optics Letters, 2016, 41, 2065.	1.7	19
39	Switching dynamics in InP photonic-crystal nanocavity. Frontiers of Optoelectronics, 2016, 9, 395-398.	1.9	0
40	All-Optical Switching Improvement Using Photonic-Crystal Fano Structures. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	14
41	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. Physical Review Letters, 2016, 116, 063901.	2.9	59
42	Spectrally and temporally resolved resonance shifts of a photonic crystal cavity switch. , 2016, , .		0
43	Highly Sensitive Photonic Crystal Cavity Laser Noise Measurements using Bayesian Filtering. , 2015, , .		1
44	Ultrafast low-energy all-optical switching using a photonic-crystal asymmetric Fano structure. , 2015, , .		3
45	Slow-light effects in photonic crystal membrane lasers. , 2015, , .		0
46	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. Laser and Photonics Reviews, 2015, 9, 241-247.	4.4	125
47	Thermal analysis of line-defect photonic crystal lasers. Optics Express, 2015, 23, 18277.	1.7	12
48	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. Optics Letters, 2015, 40, 2357.	1.7	36
49	Experimental demonstration of non-reciprocal transmission in a nonlinear photonic-crystal Fano structure. , 2015, , .		0
50	Nonlinear switching dynamics in a photonic-crystal nanocavity. Applied Physics Letters, 2014, 105, .	1.5	16
51	Low-power 10 Gbit/s RZ-OOK all-optical modulation using a novel photonic-crystal Fano switch. , 2014, , .		1
52	Wavelength Conversion of a 9.35-Gb/s RZ OOK Signal in an InP Photonic Crystal Nanocavity. IEEE Photonics Technology Letters, 2014, 26, 257-260.	1.3	18
53	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. Applied Physics Letters, 2014, 105, .	1.5	107
54	All-optical signal processing using InP photonic-crystal nanocavity switches. , 2014, , .		1

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55	Temporal dynamics of all-optical switching in Photonic Crystal Cavity. , 2014, , .		0
56	Saturation broadening effect in an InP photonic-crystal nanocavity switch. , 2014, , .		0
57	Ultra-fast low energy switching using an InP photonic crystal HO nanocavity. , 2013, , .		2
58	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. Optics Express, 2013, 21, 31047.	1.7	50
59	All-Optical 9.35 Gb/s Wavelength Conversion in an InP Photonic Crystal Nanocavity. , 2013, , .		0
60	Experimental demonstration of a four-port photonic crystal cross-waveguide structure. Applied Physics Letters, 2012, 101, .	1.5	28
61	Influence of V/III ratio on QD size distribution. Frontiers of Optoelectronics in China, 2011, 4, 364-368.	0.2	3
62	An integrated circuit subsystem of quantum dot semiconductor optical amplifier coupled with electro-absorption modulator and its application in wavelength conversion. Optics Communications, 2011, 284, 1847-1854.	1.0	2
63	Circuit modeling of quantum dot semiconductor optical amplifier. Frontiers of Optoelectronics in China, 2010, 3, 232-240.	0.2	1
64	Performance study of InAs/GaAs quantum dot covered by graded In _x Ga _{1-x} As layer. Thin Solid Films, 2010, 518, 5278-5281.	0.8	8
65	Structural and optical properties of self-assembled InAs quantum dot molecules on GaAs substrates. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1271-1273.	0.6	1
66	Polarization-insensitive quantum-dot coupled quantum-well semiconductor optical amplifier. Semiconductor Science and Technology, 2009, 24, 015009.	1.0	6