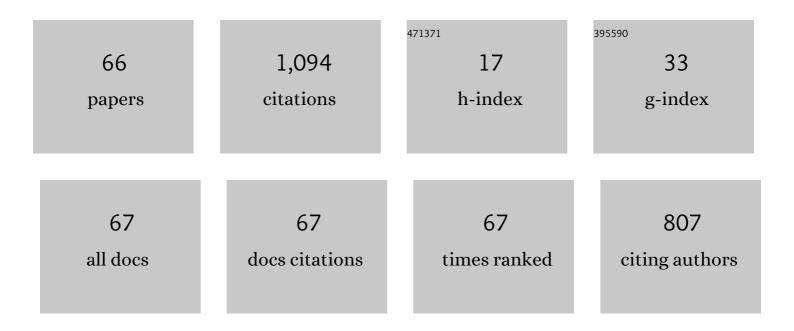


## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Demonstration of a self-pulsing photonic crystal Fano laser. Nature Photonics, 2017, 11, 81-84.	15.6	166
2	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. Laser and Photonics Reviews, 2015, 9, 241-247.	4.4	125
3	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. Applied Physics Letters, 2014, 105, .	1.5	107
4	Ultra-coherent Fano laser based on a bound state in the continuum. Nature Photonics, 2021, 15, 758-764.	15.6	76
5	Maximizing the quality factor to mode volume ratio for ultra-small photonic crystal cavities. Applied Physics Letters, 2018, 113, .	1.5	67
6	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. Physical Review Letters, 2016, 116, 063901.	2.9	59
7	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. Optics Express, 2013, 21, 31047.	1.7	50
8	Inâ€Plane Photonic Crystal Devices using Fano Resonances. Laser and Photonics Reviews, 2019, 13, 1900054.	4.4	40
9	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. Optics Letters, 2015, 40, 2357.	1.7	36
10	Ultrafast Coherent Dynamics of a Photonic Crystal all-Optical Switch. Physical Review Letters, 2016, 117, 233901.	2.9	30
11	Experimental demonstration of a four-port photonic crystal cross-waveguide structure. Applied Physics Letters, 2012, 101, .	1.5	28
12	All-optical non-linear activation function for neuromorphic photonic computing using semiconductor Fano lasers. Optics Letters, 2020, 45, 3844.	1.7	28
13	Theory of Selfâ€pulsing in Photonic Crystal Fano Lasers. Laser and Photonics Reviews, 2017, 11, 1700089.	4.4	24
14	Signal reshaping and noise suppression using photonic crystal Fano structures. Optics Express, 2018, 26, 19596.	1.7	21
15	Suppression of Coherence Collapse in Semiconductor Fano Lasers. Physical Review Letters, 2019, 123, 233904.	2.9	21
16	Modal Properties of Photonic Crystal Cavities and Applications to Lasers. Nanomaterials, 2021, 11, 3030.	1.9	20
17	Spectral symmetry of Fano resonances in a waveguide coupled to a microcavity. Optics Letters, 2016, 41, 2065.	1.7	19
18	Modes, stability, and small-signal response of photonic crystal Fano lasers. Optics Express, 2018, 26, 16365.	1.7	19

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#	Article	IF	CITATIONS
19	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
20	Semiconductor Fano Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	1.9	18
21	Nonlinear switching dynamics in a photonic-crystal nanocavity. Applied Physics Letters, 2014, 105, .	1.5	16
22	All-Optical Switching Improvement Using Photonic-Crystal Fano Structures. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	14
23	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. Optics Letters, 2018, 43, 955.	1.7	14
24	Thermal analysis of line-defect photonic crystal lasers. Optics Express, 2015, 23, 18277.	1.7	12
25	Performance study of InAs/GaAs quantum dot covered by graded InxGa1â^'xAs layer. Thin Solid Films, 2010, 518, 5278-5281.	0.8	8
26	Small and Large Signal Analysis of Photonic Crystal Fano Laser. Journal of Lightwave Technology, 2018, 36, 5611-5616.	2.7	8
27	Remote excitation between quantum emitters mediated by an optical Fano resonance. Optica, 2021, 8, 1605.	4.8	7
28	Polarization-insensitive quantum-dot coupled quantum-well semiconductor optical amplifier. Semiconductor Science and Technology, 2009, 24, 015009.	1.0	6
29	Optimal Scheduling Strategy of Cascade Hydropower Plants Under the Joint Market of Day-Ahead Energy and Frequency Regulation. IEEE Access, 2021, 9, 87749-87762.	2.6	6
30	Crosstalk-free all-optical switching enabled by Fano resonance in a multi-mode photonic crystal nanocavity. Optics Express, 2022, 30, 7457.	1.7	6
31	Influence of V/III ratio on QD size distribution. Frontiers of Optoelectronics in China, 2011, 4, 364-368.	0.2	3
32	Ultrafast low-energy all-optical switching using a photonic-crystal asymmetric Fano structure. , 2015, , .		3
33	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
34	Ultra-fast low energy switching using an InP photonic crystal H0 nanocavity. , 2013, , .		2
35	Low-Power Thermo-Optic Switching Using Photonic Crystal Fano Structure with p-i-n Junction. , 2019, , .		2
36	Photonic crystal laser based on Fano interference allows for ultrafast frequency modulation in the THz range. , 2019, , .		2

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#	Article	IF	CITATIONS
37	Circuit modeling of quantum dot semiconductor optical amplifier. Frontiers of Optoelectronics in China, 2010, 3, 232-240.	0.2	1
38	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
39	Low-power 10 Gbit/s RZ-OOK all-optical modulation using a novel photonic-crystal Fano switch. , 2014, , .		1
40	All-optical signal processing using InP photonic-crystal nanocavity switches. , 2014, , .		1
41	Highly Sensitive Photonic Crystal Cavity Laser Noise Measurements using Bayesian Filtering. , 2015, , .		1
42	Lasers, switches and non-reciprocal elements based on photonic crystal Fano resonances. , 2017, , .		1
43	Ultrafast parametric process in a photonic-crystal nanocavity switch. Physical Review A, 2019, 99, .	1.0	1
44	Towards High-Speed Fano Photonic Switches. , 2019, , .		1
45	Photonic crystal Fano resonances for realizing optical switches, lasers, and non-reciprocal elements. , 2017, , .		1
46	Experimental Realization of Topology-Optimized InP Photonic Cavities with Extreme Dielectric Confinement. , 2021, , .		1
47	Temporal dynamics of all-optical switching in Photonic Crystal Cavity. , 2014, , .		0
48	Slow-light effects in photonic crystal membrane lasers. , 2015, , .		0
49	Parametric gain assisted by free-carriers population oscillations in photonic crystal cavity. , 2016, , .		0
50	Switching dynamics in InP photonic-crystal nanocavity. Frontiers of Optoelectronics, 2016, 9, 395-398.	1.9	0
51	Photonic crystal Fano lasers and Fano switches. , 2017, , .		0
52	Experimental demonstration of a Fano laser based on photonic crystals. , 2017, , .		0
53	Regimes of self-pulsing in photonic crystal Fano lasers. , 2017, , .		0
54	Large signal simulation of photonic crystal Fano laser. , 2017, , .		0

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#	Article	IF	Citations
55	Theory and simulations of self-pulsing in photonic crystal Fano lasers. , 2017, , .		0
56	Fano Resonances for Realizing Compact and Low Energy Consumption Photonic Switches. , 2018, , .		0
57	Coupling Distant Quantum Dots using a Photonic Crystal Fano Structure. , 2019, , .		Ο
58	Electrically-operated buried-heterostructure nanocavity laser with sub-20 $\hat{l}$ /4A threshold current. , 2021, , .		0
59	All-Optical 9.35 Gb/s Wavelength Conversion in an InP Photonic Crystal Nanocavity. , 2013, , .		О
60	Saturation broadening effect in an InP photonic-crystal nanocavity switch. , 2014, , .		0
61	Experimental demonstration of non-reciprocal transmission in a nonlinear photonic-crystal Fano structure. , 2015, , .		Ο
62	Spectrally and temporally resolved resonance shifts of a photonic crystal cavity switch. , 2016, , .		0
63	Coupled photonic crystal cavity-waveguide structures incorporating site-controlled semiconductor quantum dots. , 2018, , .		Ο
64	Parametric processes induced by ultrafast dynamics in a photonic crystal nanocavity switch. , 2018, , .		0
65	Optimization of the threshold pump power of a photonic crystal nanolaser: experiment and theory. , 2019, , .		0
66	Direct Optical Modulation of Photonic Crystal Fano Laser via the Mirror. , 2021, , .		0