Hamed Alipour-Banaei

List of Publications by Year
in descending order

70	3,054	109137	155451
papers	citations	35 h-index	55 g-index

71	71	71	494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using nonlinear ring resonators for designing anÂall optical comparator. Journal of Optical Communications, 2024, 44, s441-s447.	4.0	0
2	Nonlinear optical decoder based on photonic quasi crystal ring resonator structure. Journal of Optical Communications, 2024, 44, s403-s408.	4.0	2
3	A proposal for 5-bit all optical analog to digital converter using nonlinear photonic crystal based ring resonators. Optical and Quantum Electronics, 2021, 53, 1.	1.5	21
4	Photonic crystal-based optical decoders: design methods and prospective. European Physical Journal Plus, 2021, 136, 1.	1.2	5
5	Creation of a fast optical Toffoli gate based on photonic crystal nonlinear ring resonators. Journal of Computational Electronics, 2020, 19, 1281-1287.	1.3	29
6	A novel proposal for an all-optical 2-bit adder/subtractor based on photonic crystal ring resonators. Photonics and Nanostructures - Fundamentals and Applications, 2020, 39, 100777.	1.0	11
7	All-optical Fredkin gate using photonic-crystal-based nonlinear cavities. Applied Optics, 2020, 59, 635.	0.9	27
8	An ultra fast optical reversible gate based on electromagnetic scattering in nonlinear photonic crystal resonant cavities. Optical Materials, 2019, 94, 371-377.	1.7	29
9	A novel proposal for all optical 1-bit comparator using nonlinear PhCRRs. Photonics and Nanostructures - Fundamentals and Applications, 2019, 34, 19-23.	1.0	66
10	A novel proposal for all-optical compact and fast XOR/XNOR gate based on photonic crystal. Journal of Modern Optics, 2019, 66, 599-605.	0.6	13
11	An all optical 8 to 3 encoder based on photonic crystal OR-gate ring resonators. Optics Communications, 2018, 410, 793-798.	1.0	57
12	Design and simulation of all optical decoder based on nonlinear PhCRRs. Optik, 2018, 156, 701-706.	1.4	60
13	Application of Photonic Crystal Ring Resonators for Realizing All Optical Demultiplexers. Frequenz, 2018, 72, 465-470.	0.6	14
14	A novel proposal for all optical 3 to 8 decoder based on nonlinear ring resonators. Journal of Modern Optics, 2018, 65, 2017-2024.	0.6	44
15	Proposal for realizing an all-optical half adder based on photonic crystals. Applied Optics, 2018, 57, 1617.	0.9	106
16	High sensitive photonic crystal ring resonator structure applicable for optical integrated circuits. Photonic Network Communications, 2017, 33, 152-158.	1.4	50
17	All optical NAND gate based on nonlinear photonic crystal ring resonators. Optik, 2017, 130, 1214-1221.	1.4	69
18	A High Efficiency Optical Power Splitter in a Y-Branch Photonic Crystal for DWDM Optical Communication Systems. Frequenz, 2017, 72, .	0.6	2

#	Article	IF	Citations
19	A Novel Proposal for All Optical Analog-to-Digital Converter Based on Photonic Crystal Structures. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	130
20	Photonic crystal based 1-bit full-adder optical circuit by using ring resonators in a nonlinear structure. Photonics and Nanostructures - Fundamentals and Applications, 2017, 24, 29-34.	1.0	70
21	Study the role of non-linear resonant cavities in photonic crystal-based decoder switches. Journal of Modern Optics, 2017, 64, 1233-1239.	0.6	72
22	All optical 2-bit analog to digital converter using photonic crystal based cavities. Optical and Quantum Electronics, 2017, 49, 1.	1.5	127
23	Four-channel optical demultiplexer based on hexagonal photonic crystal ring resonators. Optical Review, 2017, 24, 605-610.	1.2	50
24	Proposal for 4â€toâ€2 optical encoder based on photonic crystals. IET Optoelectronics, 2017, 11, 29-35.	1.8	129
25	An Optical Power Divider Based on Two-dimensional Photonic Crystal Structure. Journal of Optical Communications, 2017, 38, 129-132.	4.0	6
26	Ultra-fast analog-to-digital converter based on a nonlinear triplexer and an optical coder with a photonic crystal structure. Applied Optics, 2017, 56, 1799.	2.1	103
27	Effect of self-collimated beams on the operation of photonic crystal decoders. Journal of Electromagnetic Waves and Applications, 2016, 30, 1440-1448.	1.0	42
28	An optical demultiplexer based on photonic crystal ring resonators. Optik, 2016, 127, 8706-8709.	1.4	68
29	All-optical AND/OR/NOT logic gates based on photonic crystal ring resonators. Frontiers of Optoelectronics, 2016, 9, 578-584.	1.9	46
30	A novel proposal for optical decoder switch based on photonic crystal ring resonators. Optical and Quantum Electronics, 2016, 48, 1.	1.5	88
31	Application of self-collimated beams to realization of all optical photonic crystal encoder. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 77-85.	1.3	82
32	All-Optical Switching in Ultrashort Photonic Crystal Couplers Modified Y-branch Structure. Journal of Optical Communications, 2015, 36, .	4.0	2
33	A novel all optical reversible 4 Ã— 2 encoder based on photonic crystals. Optik, 2015, 126, 2368-2372.	1.4	75
34	Design and simulation of ultrasensitive nano-biosensor based on OFPC. Photonic Sensors, 2015, 5, 43-49.	2.5	6
35	Optical wavelength demultiplexer based on photonic crystal ring resonators. Photonic Network Communications, 2015, 29, 146-150.	1.4	62
36	Low power Electro-optical filter: Constructed using silicon nanobeam resonator and PIN junction. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 70, 40-45.	1.3	8

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37	A novel optical filter based on H-shape photonic crystal ring resonators. Optik, 2015, 126, 2535-2538.	1.4	49
38	Band Gap Properties of Two-Dimensional Photonic Crystal Structures with Rectangular Lattice. Journal of Optical Communications, 2015, 36, .	4.0	26
39	A 2*4 all optical decoder switch based on photonic crystal ring resonators. Journal of Modern Optics, 2015, 62, 430-434.	0.6	105
40	All optical decoder switch based on photonic crystal ring resonators. Optical and Quantum Electronics, 2015, 47, 1109-1115.	1.5	94
41	All Optical Communication Filter Based on Photonic Crystal Structure. International Journal of Future Computer and Communication, 2015, 4, 346-349.	1.3	2
42	Very compact photonic crystal resonant cavity for all optical filtering. Iranian Physical Journal, 2014, 8, 183-188.	1.2	31
43	A new proposal for PCRR-based channel drop filter using elliptical rings. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 211-215.	1.3	57
44	All optical NOR and NAND gate based on nonlinear photonic crystal ring resonators. Optik, 2014, 125, 5701-5704.	1.4	105
45	T-shaped channel drop filter based on photonic crystal ring resonator. Optik, 2014, 125, 5348-5351.	1.4	76
46	Electrical characterization of high performance, liquid gated vertically stacked SiNW-based 3D FET biosensors. Sensors and Actuators B: Chemical, 2014, 199, 291-300.	4.0	23
47	All Optical Demultiplexer Based on Photonic Crystal Ring Resonators. Recent Advances in Electrical and Electronic Engineering, 2014, 7, 140-144.	0.2	0
48	A novel proposal for all optical PhC-based demultiplexers suitable for DWDM applications. Optical and Quantum Electronics, 2013, 45, 1063-1075.	1.5	47
49	WDM and DWDM optical filter based on 2D photonic crystal Thueâ€“Morse structure. Optik, 2013, 124, 4416-4420.	1.4	39
50	Band gap properties of 2D square lattice photonic crystal composed of rectangular cells. Frontiers of Optoelectronics, 2013, 6, 346-352.	1.9	4
51	Channel-drop filter based on a photonic crystal ring resonator. Journal of Optics (United Kingdom), 2013, 15, 075401.	1.0	73
52	Four-channel label-free photonic crystal biosensor using nanocavity resonators. Photonic Sensors, 2013, 3, 231-236.	2.5	41
53	Bandgap Calculation of 2D Hexagonal Photonic Crystal Structures Based on Regression Analysis. Journal of Optical Communications, 2013, 34, .	4.0	25
54	Bandgap Management in Two-dimensional Photonic Crystal Thue-Morse Structures. Journal of Optical Communications, 2013, 34, .	4.0	30

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55	Significant role of photonic crystal resonant cavities in WDM and DWDM communication tunable filters. Optik, 2013, 124, 2639-2644.	1.4	86
56	A novel 4-channel demultiplexer based on photonic crystal ring resonators. Optik, 2013, 124, 5964-5967.	1.4	88
57	Important Effect of Defect Parameters on the Characteristics of Thue-Morse Photonic Crystal Filters. Advances in OptoElectronics, 2013, 2013, 1-5.	0.6	9
58	Thin-Layer Optical Filter for Specific Areas of Visible Spectrum Based on 1D Photonic Crystal Structure. Journal of Optical Communications, 2012, 33, .	4.0	0
59	An ultra compact photonic crystal wavelength division demultiplexer using resonance cavities in a modified Y-branch structure. Optik, 2011, 122, 1481-1485.	1.4	118
60	A High Q Design for N-channel Wavelength Division Demultiplexer. Journal of Optical Communications, 2011, 32, .	4.0	3
61	A novel proposal for DWDM demultiplexer design using modified-T photonic crystal structure. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 14-22.	1.0	107
62	Proposal for an ultracompact tunable wavelength-division-multiplexing optical filter based on quasi-2D photonic crystals. Journal of Optics (United Kingdom), 2010, 12, 015405.	1.0	17
63	Multi channel narrowband DWDM optical filters based on generalized aperiodic Thue-Morse structures. , 2009, , .		0
64	Eight-channel wavelength division demultiplexer using multimode interference. Proceedings of SPIE, 2009, , .	0.8	1
65	A novel proposal for DWDM demultiplexer design using resonance cavity in photonic crystal structure. Proceedings of SPIE, 2009, , .	0.8	5
66	Eight-channel wavelength division demultiplexer using multimode interference. , 2009, , .		3
67	A Novel Proposal for Passive All-Optical Demultiplexer for DWDM Systems Using 2-D Photonic Crystals. Journal of Electromagnetic Waves and Applications, 2008, 22, 471-482.	1.0	17
68	A radio over fiber network architecture for road vehicle communication systems using 2-D photonic quasi-crystals. , 2008, , .		0
69	Microwave lens design using two-dimensional 12-folded quasi-photonic crystals. , 2008, , .		0
70	Analysis of optical waveguides designed with two-dimensional photonic crystals in the presence of defects. Proceedings of SPIE, 2007, , .	0.8	0