

# Ali Bahrami

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39  
papers

352  
citations

10  
h-index

17  
g-index

42  
ext. papers

437  
ext. citations

2.6  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
39	Acoustic invisibility cloak based on two-dimensional solid-fluid phononic crystals. <i>Solid State Communications</i> , <b>2022</b> , 342, 114646	1.6	0
38	Energy harvesting from sonic noises by phononic crystal fibers. <i>Scientific Reports</i> , <b>2022</b> , 12,	4.9	1
37	High performance design for detecting NaCl water concentrations using a two-dimensional phononic crystal biosensor. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 015304	3	9
36	Phononic Eco-Sensor for Detection of Heavy Metals Pollutions in Water With Spectrum Analyzer. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 6733-6740	4	4
35	An optical analog-to-digital converter based on nonlinear resonant cavities in photonic crystals. <i>Optical and Quantum Electronics</i> , <b>2021</b> , 53, 1	2.4	1
34	Design of phoxonic filter using locally-resonant cavities. <i>Physica Scripta</i> , <b>2021</b> , 96, 075704	2.6	3
33	Temperature biosensor based on triangular lattice phononic crystals. <i>APL Materials</i> , <b>2021</b> , 9, 061114	5.7	7
32	Phononic crystal locally-resonant cavity for detecting vinegar acidity. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 343, 116972	6	
31	A proposal for three-channel hypersonic wave thermo-switch. <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 1391-1399		1
30	A proposal for 1 $\lambda$ phononic switch/demultiplexer using composite lattices. <i>Solid State Communications</i> , <b>2021</b> , 326, 114179	1.6	
29	An elastic fiber based on phononic crystals. <i>Scientific Reports</i> , <b>2021</b> , 11, 19198	4.9	1
28	Two-channel all-elastic solid-solid phononic switch. <i>Physica Scripta</i> , <b>2020</b> , 95, 065703	2.6	3
27	Phononic crystals for sensing FAMEs with demultiplexed frequencies. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 305, 112841	6	13
26	Eight-channel acoustic demultiplexer based on solid-fluid phononic crystals with hollow cylinders. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2020</b> , 39, 100765	2.6	9
25	Nonlinear elastic switch based on solid-solid phononic crystals. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 8983-8991	4.3	10
24	Thermal switching of ultrasonic waves in two-dimensional solid/fluid phononic crystals. <i>Physica Scripta</i> , <b>2019</b> , 94, 125705	2.6	7
23	Delta-doped quantum wire tunnel junction for highly concentrated solar cells. <i>Chinese Physics B</i> , <b>2019</b> , 28, 046102	1.2	2

22	Three channel GHz-ranged demultiplexer in solid-solid phononic crystals. <i>Chinese Journal of Physics</i> , <b>2019</b> , 59, 291-297	3.5	21
21	A very high sensitive interferometric phononic crystal liquid sensor. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 296, 111878	6	17
20	All-Optical XOR, XNOR, NAND and OR Logic Gates Based on Photonic Crystal 3-DB Coupler for BPSK Signals. <i>Journal of Optical Communications</i> , <b>2019</b> ,	1.2	2
19	All-optical half adder based on photonic crystals for BPSK signals. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	6
18	Design of an optomechanical filter based on solid/solid phoxonic crystals. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 115113	2.5	27
17	MMI-based all-optical four-channel wavelength division demultiplexer. <i>Photonic Network Communications</i> , <b>2018</b> , 36, 217-223	1.7	0
16	Ultra-compact all-optical phase-controlled NAND, OR, XOR, XNOR, and NOT multi-function logic gate. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	2
15	Design of all-optical simultaneous AND, NAND, OR, and NOR logic gates using phase-based control of three coupled waveguides. <i>Photonic Network Communications</i> , <b>2017</b> , 33, 136-142	1.7	2
14	Tunable all-optical switch/demultiplexer using nonlinear MMI waveguides. <i>Journal of Modern Optics</i> , <b>2017</b> , 64, 1693-1698	1.1	1
13	MMI-based all-optical multi-input XOR and XNOR logic gates using nonlinear directional coupler. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 3477-3489	2.4	10
12	Photonic crystal logic gates: an overview. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 2249-2275	2.4	51
11	All-optical photonic crystal AND, XOR, and OR logic gates using nonlinear Kerr effect and ring resonators. <i>Journal of Modern Optics</i> , <b>2015</b> , 62, 693-700	1.1	46
10	Modified-DBR-based semi-omnidirectional multilayer anti-reflection coating for tandem solar cells. <i>Chinese Physics B</i> , <b>2014</b> , 23, 028803	1.2	5
9	MMI-Based Simultaneous All-Optical XOR $\wedge$ AND $\wedge$ OR and XNOR $\wedge$ NOT Multilogic Gate for Phase-Based Signals. <i>IEEE Journal of Quantum Electronics</i> , <b>2014</b> , 50, 1-5	2	20
8	Optimized structure of AlGaAs/GaAs double junction solar cells. <i>Journal of Modern Optics</i> , <b>2014</b> , 61, 568-575		1
7	Normal distribution profile for doping concentration in multilayer tunnel junction. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 873-884	2.4	3
6	Photovoltaic cells technology: principles and recent developments. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 161-197	2.4	40
5	All-Optical Multi-Mode Interference Switch Using Non-Linear Directional Coupler as a Passive Phase Shifter. <i>Fiber and Integrated Optics</i> , <b>2011</b> , 30, 139-150	0.8	21

4	Synthesis and Analysis of the Handheld Computer Power Consumption. <i>Advanced Materials Research</i> , <b>2011</b> , 267, 626-631	0.5	
3	A High Q Design for N-channel Wavelength Division Demultiplexer. <i>Journal of Optical Communications</i> , <b>2011</b> , 32,	1.2	3
2	A proposal for four channel demultiplexer based on phoxonic crystal ring resonators. <i>Mechanics of Advanced Materials and Structures</i> ,1-10	1.8	
1	Magnetically controlled three-channel phononic switch. <i>Mechanics of Advanced Materials and Structures</i> ,1-9	1.8	3