

# Jayanta Kumar Rakshit

## List of Publications by Year in descending order

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39  
papers

658  
citations

623734

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610901

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g-index

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docs citations

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times ranked

227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticles Textured Oxide Thin Films for Surface Plasmon Enhanced Photovoltaic Properties. <i>Plasmonics</i> , 2022, 17, 193-201.	3.4	5
2	Modelling of Silicon micro-Ring Resonator Based all-Optical Precoder Circuit for Differential Quadrature Phase-Shift Keying. <i>Silicon</i> , 2022, 14, 5601-5615.	3.3	9
3	Modeling and analysis of all-optical pressure sensor using photonic crystal based micro ring resonator. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2022, 35, e2962.	1.9	8
4	Polarization rotation based all-optical ternary half-adder and full-adder: design and analysis using micro-ring resonator. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	7
5	Design and analysis of polarization rotation based all-optical ternary half-subtractor and full-subtractor using micro-ring resonator. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	2
6	Implantation of polarization rotation based ternary 3:1 multiplexer and 1:3 demultiplexer using optical micro ring resonator. <i>Optics Communications</i> , 2022, 522, 128646.	2.1	2
7	Microring resonator-based all-optical parallel pseudo random binary sequence generator for rate multiplication. <i>Optical and Quantum Electronics</i> , 2022, 54, .	3.3	6
8	Design of an Ultra-Compact and Highly-Sensitive Temperature Sensor Using Photonic Crystal Based Single Micro-Ring Resonator and Cascaded Micro-Ring Resonator. <i>Silicon</i> , 2021, 13, 885-892.	3.3	33
9	Design of all-optical logical mode-switching using micro-ring resonator. <i>Optical Engineering</i> , 2021, 60, .	1.0	11
10	Proposal for Polarization Rotation-Based Ultrafast All Optical Switch in Ring Resonator. <i>Brazilian Journal of Physics</i> , 2021, 51, 1763.	1.4	4
11	Speed enhancement of all-optical pseudo random binary sequence (PRBS) generator using microring resonator. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	6
12	Design of polarization conversion and rotation based ternary logic AND/NAND, OR/NOR, Ex-OR/Ex-NOR gates using ring resonator. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	6
13	Design and Modeling of Polarization-Conversion Based all-Optical Basic Logic Gates in a Single Silicon Ring Resonator. <i>Silicon</i> , 2020, 12, 1279-1288.	3.3	12
14	Photocurrent generation under forward bias with interfacial tunneling of carrier at pentacene/F16CuPc heterojunction photodetector. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152401.	5.5	20
15	Design of photonic crystal microring resonator based all-optical refractive-index sensor for analyzing different milk constituents. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	34
16	Design of Micro-ring Resonator Based 4-Optical Router for Photonic Network Applications. <i>Brazilian Journal of Physics</i> , 2020, 50, 582-593.	1.4	9
17	Photonic Crystal based Micro Ring Resonator Sensor Design for Urinanalysis. , 2020, , .		4
18	Design of All-Optical OR/AND Logic Gates using Conversion of Polarization States in Single-Waveguide Coupled Ring-Resonator. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Design of Photonic Crystal Based Optical Sensor for Analyzing Water Content in Milk. Learning and Analytics in Intelligent Systems, 2020, , 143-149.	0.6	7
20	Detection and analysis of hemoglobin concentration in blood with the help of photonic crystal based micro ring resonator structure. Optical and Quantum Electronics, 2020, 52, 1.	3.3	24
21	Design and modeling of mode-conversion in ring resonator and its application in all-optical switching. Microsystem Technologies, 2019, 25, 295-306.	2.0	14
22	Design of polarization switch in a single micro-ring resonator and its application to design all-optical logic OR/NOR gates using FDTD. , 2019, , .		4
23	Design of all-optical universal logic gates using mode-conversion in single silicon microring resonator. Journal of Nanophotonics, 2019, 13, 1.	1.0	24
24	Design of all-optical JK, SR and T flip-flops using micro-ring resonator-based optical switch. Photonic Network Communications, 2018, 35, 381-391.	2.7	41
25	Design and Performance Analysis of High Speed Optical Binary Code Converter using Micro-Ring Resonator. Fiber and Integrated Optics, 2018, 37, 103-121.	2.5	26
26	Implementation of Polarization-Conversion in Ring-Resonator and its Application to Design All-Optical NOT Logic Gate. , 2018, , .		3
27	Fabrication and characterization of organic semiconductor based photodetector for optical communication. CSI Transactions on ICT, 2017, 5, 149-160.	1.0	11
28	Silicon micro-ring resonator-based all-optical digital-to-analog converter. Photonic Network Communications, 2017, 34, 84-92.	2.7	27
29	Design of all optical 1-bit and 2-bit magnitude comparator using micro-ring resonator. , 2017, , .		7
30	Design of all-optical universal shift register using nonlinear microring resonators. Journal of Computational Electronics, 2016, 15, 1450-1461.	2.5	31
31	Design of all optical circular shift register using micro-ring resonator. , 2016, , .		2
32	A theoretical study of all optical clocked D flip flop using single micro-ring resonator. Journal of Computational Electronics, 2014, 13, 278-286.	2.5	39
33	Manchester code generation scheme using micro-ring resonator based all optical switch. , 2014, , .		3
34	Micro-ring resonator based all-optical reconfigurable logic operations. Optics Communications, 2014, 321, 38-46.	2.1	52
35	Design of micro-ring resonator-based all-optical logic shifter. Optics Communications, 2014, 312, 73-79.	2.1	29
36	Micro-ring resonators based all optical reversible TR gate and its applications in information processing. , 2014, , .		0

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37	Design of ring resonator based all optical switch for logic and arithmetic operations – A theoretical study. Optik, 2013, 124, 6048-6057.	2.9	61
38	Design of micro-ring resonator based all-optical parity generator and checker circuit. Optics Communications, 2013, 303, 30-37.	2.1	60
39	All optical clocked D flip flop using single micro-ring resonator. , 2012, , .		14