

Dilip Kumar Gayen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11114509/publications.pdf>

Version: 2024-02-01

24
papers

484
citations

840776

11
h-index

713466

21
g-index

24
all docs

24
docs citations

24
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated all-optical logic and arithmetic operations with the help of a TOAD-based interferometer device–alternative approach. <i>Applied Optics</i> , 2007, 46, 5304.	2.1	103
2	Ultrafast All-Optical Half Adder Using Quantum-Dot Semiconductor Optical Amplifier-Based Mach-Zehnder Interferometer. <i>Journal of Lightwave Technology</i> , 2012, 30, 3387-3393.	4.6	78
3	All-optical arithmetic unit with the help of terahertz-optical-asymmetric-demultiplexer-based tree architecture. <i>Applied Optics</i> , 2008, 47, 933.	2.1	64
4	Designing of Optimized All-Optical Half Adder Circuit Using Single Quantum-Dot Semiconductor Optical Amplifier Assisted Mach-Zehnder Interferometer. <i>Journal of Lightwave Technology</i> , 2013, 31, 2029-2035.	4.6	46
5	All-optical half-adder/half-subtractor using terahertz optical asymmetric demultiplexer. <i>Applied Optics</i> , 2014, 53, 8400.	2.1	29
6	All-optical binary flip-flop with the help of Terahertz Optical Asymmetric Demultiplexer. <i>Natural Computing</i> , 2010, 9, 903-916.	3.0	24
7	All-optical D flip-flop using single quantum-dot semiconductor optical amplifier assisted Mach-Zehnder interferometer. <i>Journal of Computational Electronics</i> , 2015, 14, 129-138.	2.5	20
8	All-optical parallel parity generator circuit with the help of semiconductor optical amplifier (SOA)-assisted Sagnac switches. <i>Optics Communications</i> , 2014, 313, 99-105.	2.1	18
9	All-optical Multiplication with the help of Semiconductor Optical Amplifier-assisted Sagnac Switch. <i>Journal of Computational Electronics</i> , 2010, 9, 57-67.	2.5	17
10	All-optical carry lookahead adder with the help of terahertz optical asymmetric demultiplexer. <i>Optik</i> , 2012, 123, 40-45.	2.9	13
11	Reconfigurable All-Optical Delay Flip Flop Using QD-SOA Assisted Mach-Zehnder Interferometer. <i>Journal of Lightwave Technology</i> , 2014, 32, 4571-4577.	4.6	12
12	All-optical reconfigurable logic operations with the help of terahertz optical asymmetric demultiplexer. <i>Optik</i> , 2011, 122, 711-718.	2.9	11
13	Simultaneous all-optical basic arithmetic operations using QD-SOA-assisted Mach-Zehnder interferometer. <i>Journal of Computational Electronics</i> , 2016, 15, 982-992.	2.5	9
14	All-optical 4-bit binary to binary coded decimal converter with the help of semiconductor optical amplifier-assisted Sagnac switch. <i>Optics Communications</i> , 2013, 293, 31-42.	2.1	8
15	Optical half and full adders using the nonlinear Mach-Zehnder interferometer. <i>Journal of Optics (India)</i> , 2021, 50, 314-321.	1.7	8
16	All-optical 2's complement number conversion scheme without binary addition. <i>IET Optoelectronics</i> , 2017, 11, 1-7.	3.3	7
17	4-bit all-optical binary to two's complement converter. , 2012, , .		5
18	All-Optical Incrementer/Decrementer with the Help of Semiconductor Optical Amplifier-Assisted Sagnac Switch. <i>International Journal of Optomechatronics</i> , 2010, 4, 177-194.	6.6	4

#	ARTICLE	IF	CITATIONS
19	Simultaneous all-optical 1's complement cum division-by-two schemes. Optical and Quantum Electronics, 2022, 54, 1.	3.3	3
20	TERAHERTZ OPTICAL ASYMMETRIC DEMULTIPLEXER BASED ALL OPTICAL DATA COMPARATOR. Journal of Circuits, Systems and Computers, 2010, 19, 671-682.	1.5	2
21	All-optical parallel data and address recovery scheme. Optik, 2013, 124, 3357-3361.	2.9	1
22	Design of all-optical n-bit 1's complement conversion circuit. , 2017, , .		1
23	OPTICAL PARALLEL HALF ADDER USING SEMICONDUCTOR OPTICAL AMPLIFIER-ASSISTED SAGNAC GATES. Journal of Mechanics of Continua and Mathematical Sciences, 2022, 17, .	0.2	1
24	All-optical parallel adder using terahertz optical asymmetric demultiplexer. , 2017, , .		0