Mukul Kumar Das

List of Publications by Year
in descending order

32	176	1307594 7	1199594 12
papers	citations	h-index	g-index

32	32	32	143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-Energy Adaptive Unequal Clustering Protocol Using Fuzzy c-Means in Wireless Sensor Networks. Wireless Personal Communications, 2014, 79, 1187-1209.	2.7	22
2	Numerical study on the interface properties of a ZnO/c-Si heterojunction solar cell. Semiconductor Science and Technology, 2018, 33, 115003.	2.0	17
3	Modeling gate-all-around Si/SiGe MOSFETs and circuits for digital applications. Journal of Computational Electronics, 2017, 16, 47-60.	2.5	14
4	On optimum designs of a RCE Si/SiGe/Si MQW photodetector for long wavelength applications. Optical and Quantum Electronics, 2009, 41, 539-549.	3.3	12
5	Raman mediated all-optical cascadable inverter using silicon-on-insulator waveguides. Optics Letters, 2013, 38, 5192.	3.3	12
6	Theoretical analysis of tin incorporated group IV alloy based QWIP. Superlattices and Microstructures, 2017, 107, 56-68.	3.1	11
7	Effect of Ge content and profile in the SiGe base on the performance of a SiGe/Si heterojunction bipolar transistor. Microwave and Optical Technology Letters, 2005, 47, 247-254.	1.4	8
8	Band offset engineering for p-SnO/n-mc-Si heterojunction solar cell. Applied Physics Letters, 2020, 116, .	3.3	8
9	Development of a simulator for analyzing some performance parameters of nanoscale strained silicon MOSFET-based CMOS inverters. Microelectronics Journal, 2016, 55, 8-18.	2.0	7
10	Responsivity calculation of group IV-based interband MQWIP. Journal of Computational Electronics, 2018, 17, 319-328.	2.5	7
11	On the C-V characteristics of nanoscale strained gate-all-around Si/SiGe MOSFETs. Solid-State Electronics, 2019, 154, 36-42.	1.4	7
12	Ge-content dependent efficiency of Si/SiGe heterojunction solar cell. Applied Physics A: Materials Science and Processing, 2013, 112, 543-548.	2.3	6
13	Oxygen controlled E-beam evaporation deposited p-SnOx thin film for photosensitive devices. Materials Letters, 2019, 257, 126684.	2.6	6
14	Effect of Ge-composition on the frequency response of a <inline-formula><math altimg="none" display="inline" overflow="scroll"><mrow><mi>Si</mi><mo>â^•</mo><msub><mi>Si</mi><mrow><mn>1</mn><mo>â^’</mo><mi>y</mi></mrow></msub><mi>Ge</mi><mi>y</mi></mrow></math></inline-formula> <inline-formula><math altimg="none" display="inline" overflow="scroll"><mrow><mi mathvariant="normal">P</mi><mtext>â€‹</mtext><mi mathvariant="normal">i</mi><mtext>â€‹</mtext><mi mathvariant="normal">N</mi></mrow></math></inline-f. Optical Engineering, 2006, 45, 124001.	1.0	5
15	Performance analysis of tin-incorporated group-IV alloy based transistor laser. Optics and Laser Technology, 2018, 106, 228-233.	4.6	4
16	Effect of doping on the performance of multiple quantum well infrared photodetector. IET Circuits, Devices and Systems, 2018, 12, 551-556.	1.4	4
17	Numerical analysis of SiGeSn/GeSn interband quantum well infrared photodetector. Opto-electronics Review, 2018, 26, 149-157.	2.4	4
18	Dot size variability induced changes in the optical absorption spectra of interdiffused quantum dot systems. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4

#	Article	IF	Citations
19	Performance analysis of GeSn-alloy-based multiple quantum well transistor laser. , 2018, , .		4
20	Doping dependent frequency response of MQW infrared photodetector. Superlattices and Microstructures, 2017, 104, 128-139.	3.1	3
21	Investigation of All-Oxide Thin-Film Solar Cell With p-SnOâ‚“ as Absorber Layer. IEEE Transactions on Electron Devices, 2022, 69, 1115-1122.	3.0	3
22	Radial microwire array solar cell with pyramidal structure. Superlattices and Microstructures, 2016, 98, 208-219.	3.1	2
23	Performance Analysis of Perovskite on Si Tandem Solar Cell. Materials Today: Proceedings, 2017, 4, 12647-12650.	1.8	2
24	Frequency response of a resonant cavity encapsulated germanium-on-silicon Schottky photodiode. IET Circuits, Devices and Systems, 2008, 2, 128.	1.4	1
25	Determination of resonance frequencies in silica fiber using SRS gain. , 2012, , .		1
26	Mathematical modelling of packet transmission through cluster head from unequal clusters in WSN. , 2012, , .		1
27	Modeling and design of Si/SiGe radial heterojunction microwire array solar cell with pyramidal reflectors. Optik, 2017, 140, 1047-1055.	2.9	1
28	The movement of sensors within cluster in WSN is Elliptic in nature. , 2012, , .		0
29	Determination of resonance frequencies in silica fiber using SRS gain. Optical and Quantum Electronics, 2013, 45, 735-745.	3.3	0
30	Modeling and design of core-shell p-n junction Si nanorod solar cell with pyramidal structure. , 2013, , .		0
31	Ge-content dependent efficiency of Si1â^'xGex nanorod solar cell with pyramid structure. , 2015, , .		0
32	A comparative analysis of the photoluminescence spectra of annealed ultrasmall In-rich InGaN/GaN quantum dots and wells. Optik, 2016, 127, 8654-8661.	2.9	0