

Rajnish Sharma

List of Publications by Year in descending order

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17
papers

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759233

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18
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117
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward the design of monolithic 23.1% efficient hysteresis and moisture free perovskite/c-Si HJ tandem solar cell: a numerical simulation study. Journal of Micromechanics and Microengineering, 2019, 29, 064001.	2.6	38
2	Design and Simulation of $\alpha\text{-Si:H/PbS}$ Colloidal Quantum Dots Monolithic Tandem Solar Cell for 12% Efficiency. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000252.	1.8	29
3	MOS based pseudo-resistors exhibiting Tera Ohms of Incremental Resistance for biomedical applications: Analysis and proof of concept. The Integration VLSI Journal, 2021, 76, 25-39.	2.1	28
4	Effect of structural and temperature variations on perovskite/Mg ₂ Si based monolithic tandem solar cell structure. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	25
5	Design considerations for effective neural signal sensing and amplification: a review. Biomedical Physics and Engineering Express, 2019, 5, 042001.	1.2	23
6	Design and optimization of 26.3% efficient perovskite/FeSi ₂ monolithic tandem solar cell. Journal of Materials Science: Materials in Electronics, 2020, 31, 15218-15224.	2.2	22
7	Impact of metal silicide source electrode on polarity gate induced source in junctionless TFET. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	20
8	Numerical simulation and proof of concept for performance assessment of cesium based lead-free wide-bandgap halide solar cells. Optical Materials, 2021, 111, 110644.	3.6	20
9	A 1.1 μW biopotential amplifier based on bulk-driven quasi-floating gate technique with extremely low-value of offset voltage. Analog Integrated Circuits and Signal Processing, 2020, 103, 303-313.	1.4	18
10	Low-voltage low-noise gate driven quasi-floating bulk self-cascode current mirror operational transconductance amplifier. Review of Scientific Instruments, 2021, 92, 034717.	1.3	17
11	RF Analysis of Double-Gate Junctionless Tunnel FET for Wireless Communication Systems: A Non-quasi Static Approach. Journal of Electronic Materials, 2021, 50, 138-154.	2.2	15
12	A novel source material engineered double gate tunnel field effect transistor for radio frequency integrated circuit applications. Semiconductor Science and Technology, 2020, 35, 105013.	2.0	14
13	Design and simulation of pseudo-resistor with extremely high linearity for an improved neural signal recording. Review of Scientific Instruments, 2020, 91, 066102.	1.3	11
14	Chemical modulation of conducting polymer gate electrode work function based double gate Mg ₂ Si TFET for gas sensing applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 23927-23936.	2.2	8
15	Investigation of electrical/analog performance and reliability of gate metal and source pocket engineered DG-TFET. Microsystem Technologies, 2020, , 1.	2.0	3
16	Inculcating the spirit and passion for research among Engineering students at Undergraduate level. Procedia Computer Science, 2020, 172, 488-493.	2.0	1
17	Mg ₂ Si/Si heterojunction dopingless TFET with reduced random dopant fluctuations for low power applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 6816-6828.	2.2	0