Najeeb ud din Hakim

List of Publications by Year
in descending order

54 papers	196 citations	1478505 6 h-index	1372567 10 g-index
57 all docs	57 docs citations	57 times ranked	143 citing authors

#	Article	IF	Citations
1	Superior hot carrier reliability of single halo (SH) silicon-on-insulator (SOI) nMOSFET in analog applications. IEEE Transactions on Device and Materials Reliability, 2005, 5, 127-132.	2.0	16
2	A/spl uml/nalysis of floating body effects in thin film conventional and single pocket SOI MOSFETs using the GIDL current technique. IEEE Electron Device Letters, 2002, 23, 209-211.	3.9	15
3	A 4 GS/s, 1.8 V multiplexer encoder based flash ADC using TIQ technique. , 2014, , .		13
4	The Effect of Shallow Trench Isolation and Sinker on the Performance of Dual-Gate LDMOS Device. IEEE Transactions on Electron Devices, 2019, 66, 585-591.	3.0	12
5	Recent Advances in the Determination of Optimal Active Layer Thickness for Bulk Heterojunction Organic Solar Cells. Transactions on Electrical and Electronic Materials, 2018, 19, 319-329.	1.9	10
6	Investigation on inter-modulation products (IMPs) for IM-DD SCM optical links. Optik, 2014, 125, 1629-1633.	2.9	8
7	Effect of gain compression above and below threshold on the chirp characteristics of 1.55Â µm distributed feedback laser. Optical Review, 2016, 23, 897-906.	2.0	8
8	Characterization of lateral asymmetric channel (LAC) thin film SOI MOSFETs. , 0, , .		7
9	Synthesis of carry select adder in 65 nm FPGA. , 2008, , .		6
10	Investigation and performance evaluation of filter aided configurations for erbium doped fiber optical amplification system. Optik, 2018, 164, 311-323.	2.9	6
11	A novel arrangement for efficiently handling image border in FPGA filter implementation. , 2016, , .		5
12	Design and performance investigation of short channel bottom-contact organic thin-film transistors. Journal of Computational Electronics, 2018, 17, 1315-1323.	2.5	5
13	An analytical modeling approach to the electrical behavior of the bottom-contact organic thin-film transistors in presence of the trap states. Journal of Computational Electronics, 2019, 18, 543-552.	2.5	5
14	Investigation of Non-ideality Factors for a P3HT: PCBM Based Bulk Heterojunction Organic Solar Cell in Presence of Silver Nanoparticles. Transactions on Electrical and Electronic Materials, 2020, 21, 293-304.	1.9	5
15	Investigation on Chirping induced performance degradation in Single Mode Directly modulated 1.55um DFB laser. Journal of Optical Communications, 2019, 40, 31-36.	4.7	4
16	A simple analytical model for the resonant tunneling diode based on the transmission peak and scattering effect. Journal of Computational Electronics, 2020, 19, 1061-1067.	2.5	4
17	Adaptive hybrid arbiter design for real-time traffic-aware scheduling. Circuit World, 2022, 48, 185-203.	0.9	4
18	Fundamentals of and Recent Advances in Carrier Selective Passivating Contacts for Silicon Solar Cells. Journal of Electronic Materials, 2021, 50, 3761-3772.	2.2	4

#	Article	IF	Citations
19	A High Speed Architecture for Lifting-based 2-D Cohen-Daubechies-Feauveau (5,3) Discrete Wavelet Transform used in JPEG2000. International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, 2017, 6, 24.	0.2	4
20	Small signal characteristics of thin film single halo SOI MOSFET for mixed mode applications. , 0, , .		3
21	Simulation study of the electrical behavior of bottom contact organic thin film transistors. , 2014, , .		3
22	Performance investigation on harmonic distortion and inter-modulation distortion induced degradation for a single- and two-tone IM-DD SCM optical link. Optik, 2014, 125, 2148-2153.	2.9	3
23	Effect of mobility degradation on the device performance of organic thin-film transistor's. , 2016, , .		3
24	Analytic model for the electrical properties of negative capacitance metal-ferroelectric insulator silicon (MFIS) capacitor. Integrated Ferroelectrics, 2017, 185, 93-101.	0.7	3
25	Evolution of amplified spontaneous emission and characterization of an optimized two-mode EDFA system obtained from an extended analytical model. Journal of Computational Electronics, 2020, 19, 1660-1669.	2.5	3
26	Multiplier-Less Architecture for 4-Tap Daubechies Wavelet Filters Using Algebraic Integers. Algorithms for Intelligent Systems, 2020, , 1251-1258.	0.6	3
27	Fault-Tolerant Buffer Aware Round Robin Arbiter Design for NoC Architectures. International Journal of Computing and Digital Systems, 2019, 8, 275-284.	0.7	3
28	Suppression of Parasitic BJT Action in Single Pocket Thin Film Deep Sub-Micron SOI MOSFETs.. Materials Research Society Symposia Proceedings, 2002, 716, 111.	0.1	2
29	FPGA implementation of a low-power and area-efficient state-table-based compression algorithm for DSLR cameras. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 2928-2943.	1.4	2
30	Design, characterization and performance evaluation of few-mode EDFA system with propagation up to six modes. Optical and Quantum Electronics, 2020, 52, 1.	3.3	2
31	A comparative perspective on Differential Modal Gain reduction techniques for optimized few mode EDFA systems. Optik, 2021, 230, 166285.	2.9	2
32	Device Performance Optimization of Organic Thin-Film Transistors at Short-Channel Lengths Using Vertical Channel Engineering Techniques. Semiconductors, 2021, 55, 116-121.	0.5	2
33	A High Speed 32-bit FPGA based CORDIC Architecture for Sine and Cosine Function Evaluation. International Journal of Computer Applications, 2013, 73, 36-45.	0.2	2
34	A Review of Design Approaches for Enhancing the Performance of NoCs at Communication Centric Level. Scalable Computing, 2021, 22, 347-364.	1.0	2
35	Towards low cost, industrially compatible silicon heterojunction solar cells using hybrid carrier selective passivating contacts. Optical Materials, 2022, 124, 111957.	3.6	2
36	Prime turn model and first last turn model: An adaptive deadlock free routing for network-on-chips. Microprocessors and Microsystems, 2022, 89, 104454.	2.8	2

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37	Performance investigation on clipping and RIN induced degradation for a single- and two-tone IM-DD SCM optical link. Optics Communications, 2014, 319, 178-187.	2.1	1
38	Comparison of parallel image scanning methods for achieving better throughput. , 2017, , .		1
39	Buffer aware arbiter design to achieve improved QoS for NoC. , 2017, , .		1
40	Investigation on chirping characteristics of a 1.55-Âµm directly modulated distributed feedback laser. Journal of Optics (India), 2018, 47, 481-488.	1.7	1
41	Investigation of Active Layer Thickness Variation on the Performance of Bulk Heterojunction Organic Solar Cells. Springer Proceedings in Physics, 2019, , 335-339.	0.2	1
42	A novel hardware-efficient spatial orientation tree-based image compression algorithm and its field programmable gate array implementation. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 3823-3836.	1.4	1
43	Analytical model for the effects of the variation of ferrolectric material parameters on the minimum subthreshold swing in negative capacitance capacitor. Journal of Semiconductors, 2019, 40, 122401.	3.7	1
44	Analytical Modeling of the Effect of Silver Nanoparticle Incorporation in Active Layer of an Organic Solar Cell. IEEE Transactions on Electron Devices, 2021, 68, 4516-4521.	3.0	1
45	Linearization of Double Balanced Mixer Operated in Subthreshold Region of MOSFET. International Journal of Applied Mathematics Electronics and Computers, 2015, 3, 102.	0.3	1
46	Simulative Extraction and Performance investigation of Improved Compensated DFB Laser for an IM-DD SCM Optical Link. International Journal of Applied Mathematics Electronics and Computers, 2015, 3, 178.	0.3	1
47	Thin film single halo (SH) SOI nMOSFETs - hot carrier reliability for mixed mode applications. , 0, , .		0
48	Thin film single halo (SH) SOI nMOSFETs - short channel performance in mixed signal applications. , 0, , .		0
49	Design of a 0.1 Âµm single halo (SH) thin film silicon-on-insulator (SOI) MOSFET for analogue applications. Semiconductor Science and Technology, 2005, 20, 895-902.	2.0	0
50	Impact of varying electric field: tunneling in deep submicron nMOSFET. , 2006, , .		0
51	Modeling of floating &#x03B2; ratio of inverter in silicon-on-insulator technology. , 2007, , .		0
52	Reconfigurable Architectures. Journal of Advanced Computer Science & Technology, 2012, 1, .	1.2	0
53	The effect of gain compression on the modulation characteristics of 1.55Âµm distributed feedback laser. , 2016, , .		0
54	Effect of chirp characteristics of directly modulated laser on the signal transmission performance. , 2017, , .		0