

G Amarnath

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

108
citations

1684188

5
h-index

1720034

7
g-index

26
all docs

26
docs citations

26
times ranked

66
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Modeling and simulation of DC and microwave characteristics of AlInN(AlGaIn)/AlN/GaN MOSHEMTs with different gate lengths. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2456. | 1.9 | 19 |
| 2 | Modelling the flood-risk extent using LISFLOOD-FP in a complex watershed: case study of Mundeni Aru River Basin, Sri Lanka. Proceedings of the International Association of Hydrological Sciences, 0, 370, 131-138. | 1.0 | 15 |
| 3 | Microwave frequency small-signal equivalent circuit parameter extraction for AlInN/GaN MOSHEMT. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21179. | 1.2 | 13 |
| 4 | Modeling and simulation of 2DEG density and intrinsic capacitances in AlInN/GaN MOSHEMT. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2268. | 1.9 | 12 |
| 5 | Small-signal model parameter extraction of E-mode N-polar GaN MOS-HEMT using optimization algorithms and its comparison. Journal of Semiconductors, 2018, 39, 074001. | 3.7 | 12 |
| 6 | Electrical characteristics and 2DEG properties of passivated InAlN/AlN/GaN HEMT. , 2015, , . | | 8 |
| 7 | Impact of image preprocessing on face recognition: A comparative analysis. , 2014, , . | | 7 |
| 8 | Analytical Model Development for Unified 2D Electron Gas Sheet Charge Density of AlInN/GaN MOSHEMT. International Journal of Electronics and Telecommunications, 2017, 63, 363-368. | 0.6 | 7 |
| 9 | 374GHz cut-off frequency of ultra thin InAlN/AlN/GaN MIS HEMT. , 2015, , . | | 5 |
| 10 | AlInN/GaN HEMT on Silicon Substrate with GD-Field-Plate: Modelling and Simulation of Electric-Field and Breakdown-Voltage Characteristics. Silicon, 2022, 14, 10327-10335. | 3.3 | 4 |
| 11 | Analytical Model Development for Channel Potential in Junction-less Double-Gate FETs. , 2020, , . | | 2 |
| 12 | An improved gate capacitance for two dimensional junctionless transistor. , 2014, , . | | 1 |
| 13 | Designing of RF-MEMS Capacitive Contact Shunt Switch and Its Simulation for S-band Application. Lecture Notes in Electrical Engineering, 2022, , 439-448. | 0.4 | 1 |
| 14 | TCAD-based Comparative Study of Gallium-Oxide based FinFET and MOSFET. , 2020, , . | | 1 |
| 15 | Employing Analog Circuits by Neural-Network based Multi-Layer-Perceptron. , 2021, , . | | 1 |
| 16 | Threshold-Voltage Analytical-Model Development for Junction-less-Double-Gate FETs. , 2021, , . | | 0 |
| 17 | Design and Analysis of FEM Novel X-Shaped Broadband Linear Piezoelectric Energy Harvester. Lecture Notes in Electrical Engineering, 2022, , 407-416. | 0.4 | 0 |
| 18 | Numerical Simulation-Based Comparative Study of FinFET and MOSFET with Gallium Oxide. Lecture Notes in Electrical Engineering, 2022, , 265-272. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Flicker Noise Analysis of Non-uniform Body TFET with Dual Material Source (NUTFET-DMS). Lecture Notes in Electrical Engineering, 2022, , 247-253. | 0.4 | 0 |
| 20 | Analysis of Temperature Effect on Small-Signal- Equivalent-Circuit Parameters for AlInN/GaN MOS-HEMT. , 2020, , . | | 0 |
| 21 | Developement of Threshold-Voltage Analytical-Model for Double-Gate-Junction-less FETs. , 2020, , . | | 0 |
| 22 | Artificial Neural Network Based Statistical-Analysis of High-Speed-Interconnect-Systems. , 2021, , . | | 0 |
| 23 | Noise and IM3 Harmonics Cancelling in Two-Stage Wideband Differential LNA. , 2021, , . | | 0 |
| 24 | Utilizing Analog Circuits by Neural-Network based Multi-Layer-Perceptron. , 2021, , . | | 0 |