# Manju K Chattopadhyay

List of Publications by Year
in descending order

| | | |
|---|---|---|
| **19**<br>papers | **275**<br>citations | 1684188<br>**5**<br>h-index |
| **21**<br>all docs | **21**<br>docs citations | **21**<br>times ranked |

1125743
**13**
g-index

**222**
citing authors

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Internet of things and data mining: An application oriented survey. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 3569-3590. | 3.9 | 33 |
| 2 | Temperature dependent analytical model for transfer characteristics of GaN HEMTs with AlxInyGazN barrier layer. Materials Today: Proceedings, 2022, , . | 1.8 | 0 |
| 3 | Sensor applications based on AlGaN/GaN heterostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114849. | 3.5 | 34 |
| 4 | Unified Analytical Model for Charge Density and Plasmonic Waves in the Quaternary AlInGaN/AlN/GaN Heterostructures. Lecture Notes in Electrical Engineering, 2021, , 167-177. | 0.4 | 1 |
| 5 | A Composition-Dependent Unified Analytical Model for Quaternary InAlGaN/GaN HEMTs for pH Sensing. Journal of Electronic Materials, 2021, 50, 3392-3405. | 2.2 | 1 |
| 6 | A new analytical model for the response of AlGaN/GaN HEMT-based pH sensors. Journal of Computational Electronics, 2021, 20, 1400-1410. | 2.5 | 3 |
| 7 | Orchestration of Automated Guided Mobile Robots for Transportation Task in a Warehouse like Environment. , 2021, , . | | 2 |
| 8 | Al composition and AlxInyGazN layer thickness dependent new analytical model for I-V characteristics of AlxInyGazN/GaN HEMTs. Materials Today: Proceedings, 2019, 19, 205-208. | 1.8 | 3 |
| 9 | Design of Efficient Mirror Adder in Quantum- Dot Cellular Automata. IOP Conference Series: Materials Science and Engineering, 2018, 331, 012010. | 0.6 | 0 |
| 10 | Design and Implementation of Viterbi Decoder Using VHDL. IOP Conference Series: Materials Science and Engineering, 2018, 331, 012009. | 0.6 | 1 |
| 11 | Comparative study of orchestrated, centralised and decentralised approaches for orchestrator based task allocation and collision avoidance using network controlled robots. Journal of King Saud University - Computer and Information Sciences, 2018, , . | 3.9 | 3 |
| 12 | Smart health monitoring system. , 2017, , . | | 23 |
| 13 | An IoT based low cost air pollution monitoring system. , 2017, , . | | 62 |
| 14 | Low cost IoT for laboratory environment. , 2016, , . | | 6 |
| 15 | Simulation of Capacitorless Memory Cell Based on GaN/AlGaN/GaN heterostructures. Journal of Physics and Chemistry of Materials, 2014, 01, 1004. | 6.0 | 0 |
| 16 | Thermal model for dc characteristics of algan/gan hemts including self-heating effect and non-linear polarization. Microelectronics Journal, 2008, 39, 1181-1188. | 2.0 | 59 |
| 17 | Thermal model for AlGaN/GaN HEMTs including self-heating effect and non-linear polarization. , 2008, , . | | 2 |
| 18 | Analytical model for the transconductance of microwave AlmGa1−mN/GaN HEMTs including nonlinear macroscopic polarization and parasitic MESFET conduction. Microwave and Optical Technology Letters, 2007, 49, 382-389. | 1.4 | 9 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | Temperature and polarization dependent polynomial based non-linear analytical model for gate capacitance of AlmGa1−mN/GaN MODFET. Solid-State Electronics, 2006, 50, 220-227. | 1.4 | 27 |