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**Area of Specialization:** VLSI - Nano device modelling and simulation, Embedded systems

## **Publication:**

## **JOURNALS**

1. **Victor Du John Herold**, Jackuline Moni Dhavamani, Doondi Kumar Janapala “Step impedance resonator-based tunable perfect metamaterial absorber with polarization insensitivity for solar cell applications” DOI: 10.1002/mmce.21650 / International journal of RF and microwave computer aided engineering. Vol. No 29 issue 1 / 1-7 pages. [SCIE - IF. 1.472] January 2019.
2. **Victor Du John H**, Jackuline Moni D “A Novel study and research on Multilayer AlAs/GaAs Quantum dot inner layer for solar cell applications” International Journal of Computer Aided Engineering and Technology—Inderscience publishers. [SCOPUS INDEXED] October 2020.
3. **Victor Du John. H**, Jackuline Moni. D “Design and Simulation of Dual band metamaterial absorber for single junction solar cells” International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol 8(9), pp.1486-1491. [SCOPUS INDEXED] July 2019.
4. **Victor Du John. H**, Jackuline Moni. D “Utilization of different metamaterial types for solar absorbers” International Journal of Scientific and Technology Research 8(12), pp. 586-591. [SCOPUS INDEXED] December 2019.
5. **Victor Du John. H**, Jackuline Moni. D “A detailed review on Si, GaAs, and CIGS/CdTe based solar cells and efficiency comparison” Electrical Reviews Vol : 12/2020, pp 9-18. doi:10.15199/48.2020.12.02 [WoS and SCOPUS INDEXED] December 2020.
6. Tony Jose D. Narain Ponraj **H. Victor Du John** “Performance Analysis of a RoFSO Link for 5G Networks under Adverse Weather Conditions” PRZEGLĄD ELEKTROTECHNICZNY, Vol: 4/2021, pp 67-70. doi:10.15199/48.2021.04.11 [WoS and SCOPUS INDEXED] –Accepted for publication. October 2020.
7. **H. Victor Du John**, R.S.SURIAVEL RAO, S.DHANASEKAR, “Design And Implementation Of Alternator For Seamless Energy Tapping Using Renewable Energy Sources” International Journal of Mechanical Engineering and Technology, IAEME Publication, 9, 32-40, Sep 2018, 09\_09\_004
8. **H. Victor Du John**, R.S.SURIAVEL RAO, S.DHANASEKAR, “A Fast And Compact Multiplier For Digital Signal Processors In Sensor Driven Smart Vehicles” International Journal of Mechanical Engineering and Technology, IAEME Publication, 9, 157-167, Oct 2018, 09\_09\_014

9. **H. Victor Du John**, S. Immanuel Alex Pandian, P. Malin Bruntha, “Comparative Analysis Of Solitary Lung Nodule Classification Using Different Functions Of Back Propagation Neural Network” International Journal of Mechanical Engineering and Technology, IAEME Publication, 9, 842-850, Sep 2018.

#### **INTERNATIONAL CONFERENCES**

1. **Victor Du John H**, Jackuline Moni D (2017) “TCAD Simulation study of Ge/Si/GaAs/GaInP/AlGaIn based multiband structure for solar cell applications”, International Symposium on nanomaterials for clean energy and health applications ISNCHA 2017, PP. 124.
2. **Victor Du John H**, Jackuline Moni D (2018) “TCAD Simulation study of Single Junction GaAs solar cell”, IEEE International conference on devices circuits and systems ICDCS-18, Coimbatore, pp 154-159.
3. **Victor Du John H**, Jackuline Moni D (2019) “Design Simulation and Comparison of GaAs Single Junction solar cell”, 5th IEEE International Conference on Computing Communication Control and Automation (ICCUBEA- 2019), Pune.
4. **Victor Du John H**, Shobha Rekh (2019) “Dual-Tone Multi-Frequency Beep Tone Toll-Free Automation In Agriculture”, 2017 IEEE International Conference on Technological Innovations in ICT For Agriculture and Rural Development (TIAR 2017), Chennai.

#### **NATIONAL CONFERENCE**

1. **Victor Du John H**, Jackuline Moni D “Studies on Optical Properties of PbSe/Cu<sub>2</sub>Se/Ga<sub>3</sub>Se<sub>2</sub>/In<sub>3</sub>Se<sub>2</sub>/ZnSe multiband structure for solar cell Application” National Conference on Innovations in Future Communication Technologies. KITS, Coimbatore, pp 9-11.