

I. SCI PAPERS PUBLISHED WITH DETAILS

Sl.No	Details	Year
1	N. B. Malvi and N. Shylashree, "Innovative Homomorphic Sorting of Environmental Data in Area Monitoring Wireless Sensor Networks," in IEEE Access, vol. 12, pp. 59260-59272, 2024, doi: 10.1109/ACCESS.2024.3390053. (Web of Science & Scopus indexed) Scimago Journal & Country Rank-Q1, h-index 242. https://ieeexplore.ieee.org/document/10500700	2024
2	Shylashree, N., Kumar, S. "Dynamic Sensor Scheduling for Data Size Reduction in a Sensor Cloud System Based on Minimum Reconstruction Error", Wireless Pers Commun 135, 1423-1447 (2024). (Web of science & Scopus indexed) Scimago Journal & Country Rank-Q2, h-index 82) https://doi.org/10.1007/s11277-024-11090-7	2024
3	Vinay Kumar, J., Shylashree, N., Hebbar, S. et al. "Design and Optimization of Sensor Electrode Geometry for Hormone Sensing by COMSOL Multiphysics Software", BioNanoSci. (2024). https://doi.org/10.1007/s12668-024-01357-5 . (Web of science & Scopus indexed) Scimago Journal & Country Rank -Q3, h-index 44	2024
4	Shylashree, N., Amulya, M. S., Disha, G. R., Praveena, N., Verma, V. K., Muthumanickam, S., ... Nath, V. (2023). A Novel Design of Low Power & High Speed FinFET Based Binary and Ternary SRAM and 4*4 SRAM Array. IETE Journal of Research, 1-16. https://doi.org/10.1080/03772063.2023.2207549	2023
5	Devika Jena, Sanghamitra Das, Biswajit Baral, Eleena Mohapatra and Taraprasanna Dash, Linearity improvement in graded channel AlGaIn/GaN HEMTs for high-speed applications, Physica Scripta , Volume 98 , Number 10 , 2023 IOP Publishing Ltd, DOI 10.1088/1402-4896/acf3b6	2023
6	Eleena Mohapatra Jhansirani Jena , Devika Jena SanghamitraDas , Taraprasanna , Work function variability and inverter design possibility in advanced gate all-around FETs, Nanomaterials and Energy, 2023, 12(2), pp. 81-89, https://doi.org/10.1680/jnaen.23.00029	2023
7	Mohapatra, E. , Jena, D. , Das, S. , Maiti, C. , Dash, T.P. , Design and optimization of stress/strain in GAA nanosheet FETs for improved FOMs at sub-7 nm nodes, Physica Scripta , Volume 98 , Number 6 , 2023 IOP Publishing Ltd, DOI 10.1088/1402-4896/accfcc	2023
5	Shylashree, N., Bharadwaj, V. S., Yashas, D., Kulkarni, V., Bharadwaj, A., & Nath, V. (2021). Comprehensive Design and Timing Analysis for High-Speed Master Slave D Flip-Flops using 18 nm FinFET Technology. IETE Journal of Research, 69(7), 4504-4511. https://doi.org/10.1080/03772063.2021.1948925	2022
6	Kumar, J.V., Shylashree, N., Gojanur, S.G. et al. Design and Analysis of a Biosensor for the Detection of Estrogen Hormonal Levels. BioNanoSci. 12, 439-450 (2022). https://doi.org/10.1007/s12668-022-00951-9	2022

7	Anand Swamy, A. S., Mamatha, A. S., Shylashree, N., & Nath, V. (2022). Lossless Compression of Hyperspectral Imagery by Assimilating Decorrelation and Pre-processing with Efficient Displaying Using Multiscale HDR Approach. IETE Journal of Research, 69(10), 6673-6684. https://doi.org/10.1080/03772063.2022.2028581	2022
8	Jena, J., Jena, D., Mohapatra, E. et al. FinFET-Based Inverter Design and Optimization at 7 Nm Technology Node. Silicon 14, 10781-10794 (2022). https://doi.org/10.1007/s12633-022-01812-6	2022
9	N. Shylashree, Anand Swamy, HDR Image Compression by Multi-Scale down Sampling of Intensity Levels, International Journal of Image and Graphics, March 2021, 21(04):2150048, DOI:10.1142/S0219467821500480	2021