

**2022**

<b>S. No.</b>	<b>Paper Title</b>
1	Deepak Sahu, Shikha Maurya, Matadeen Bansal, Dinesh kumar V., "Data-Driven Approach to Design Energy-Efficient Joint Precoders at Source and Relay using Deep Learning in MIMO-CRNs", Transactions on Emerging Telecommunications Technologies (Formerly ETT), (Accepted).
2	Vipul Dixit, Atul Kumar, "Error analysis of L-PPM modulated MIMO based multi-user NOMA-VLC system with perfect and imperfect SIC", Applied Optics, 61 (4), pp-858-867. (Impact Factor: 1.98)

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<b>S. No.</b>	<b>Paper Title</b>
1	S. Singh and M. Bansal, "Performance Analysis of NOMA-Based AF Cooperative Overlay System with Imperfect CSI and SIC," in IEEE Access, vol. 9, pp. 40263-40273, 2021. (Impact Factor: 3.75)
2	Shailendra Singh, M. Bansal, "On the Outage Performance of Overlay Cognitive STBC-NOMA System with Imperfect SIC", IEEE Wireless Communications Letters, (Impact Factor: 4.39)
3	Priyank Sharma, Atul Kumar, Matadeen Bansal, "Performance Analysis for User Selection-based Downlink NOMA System over Generalized Fading Channels," accepted for publication in Elsevier Physical Communication, August 9, 2021
4	Vipul Dixit, Atul Kumar, "An Exact BER Analysis of NOMA-VLC System with Imperfect SIC and CSI", AEU - International Journal of Electronics and Communications, Vol. 23, No. 1, Issue 153864, 2021
5	Vipul Dixit and Atul Kumar, "Analysis of Angular Diversity Receiver based MIMO VLC System for Imperfect CSI", Journal of Optics, Vol. 23, No. 8, Issue 085701, 2021
6	Vipul Dixit, Atul Kumar, "An Exact Error Analysis of Multi-User RC/MRC based MIMO-NOMA-VLC System with Imperfect SIC", IEEE Access, vol. 9, pp. 136710-136720, 2021
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9	V Dixit and A Kumar, 'BER performance of MIMO based NOMA-VLC system with imperfect SIC,' Transactions on Emerging Telecommunications Technologies, e4422, 2021

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S. No.	Paper Title
1	P. Sharma, A. Kumar and M. Bansal, "Performance Analysis of P-N-NOMA Over Generalized Fading Channel," in IEEE Access, vol. 8, pp. 105962-105971, 2020, (SCI)
2	Shailendra Singh, Matadeen Bansal, "Outage analysis of NOMA-based cooperative relay systems with imperfect SIC," in Physical Communication, Volume 43, 2020. (SCIE)
3	P. Sharma, Atul Kumar, and M. Banasl, 'Performance analysis of downlink NOMA over $\eta$ - $\mu$ and $\kappa$ - $\mu$ fading channels,' IET Communications, vol. 14, no. 3, pp. 522-531, 2020
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5	V Chauhan, DP Samajdar, N Bagga, "Quasi-analytical model of surface potential and drain current for Trigate negative capacitance FinFET: a superposition approach", Semiconductor Science and Technology IOP Publishing, (Impact Factor: 2.352)
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12	Chithraja Rajan, Omdarshan Paul, Dip Prakash Samajdar, Tarek Hidouri, Samia Nasr, "Performance Analysis of III-V and IV Semiconductors Based Double Gate

	Hetero Material Negative Capacitance TFET”, Silicon, Pages 1-13, (Impact Factor: 2.67)
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17	Prashant Kumar, Meena Panchore, Pushpa Raikwal, Kanchan Cecil "Performance Investigation of Ge DLTFET Based Digital Integrated Circuit" International Journal of Electronics Letters, Accepted May 2022.
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2	Aishwarya Kaity, Sangeeta Singh, PN Kondekar, “Silicon-On-Nothing Electrostatically Doped Junctionless Tunnel Field Effect Transistor (SON-ED-JLTFET): A Short Channel Effect Resilient Design”, Silicon, 13/1, pp - 9-23
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6	D V Prashant, D P Samajdar and Z Arefinia, “FDTD-Based Optimization of Geometrical Parameters and Material Properties for GaAs-Truncated Nanopyramid Solar Cells”, IEEE Transactions on Electron Devices, vol 68, 1135. (Impact Factor: 2.913)
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15	Amit Kumar Behera, Chithraja Rajan, Dip Prakash Samajdar, Anil Lodhi, Jyoti Patel, Komal Mishra & Dharmendra Sing Yadav, “Performance Analysis of Sigma Delta ADC Developed using Electrically Doped GAP <sub>0.5</sub> Sb <sub>0.5</sub> /InP Gate All Around Tunnel Field Effect Transistor”, Journal of Electronic Materials, vol 50, pp - 5740-5753. (Impact Factor: 1.81)
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21	Pushpa Raikwal, Ambika Prasad Shah and Vaibhav Neema, "A Low-Leakage Variation-Aware 10T SRAM Cell for IoT Applications" Journal of Circuits, Systems, and Computers, Vol. 30, No. 13, ISSN (online): 1793-6454, pp.1-21, 4 May 2021. (SCI with 1.56 impact factor)
22	Koushik Dutta, "Potential of Impedance Spectroscopy towards Quantified Analysis of Gas Sensors: A Tutorial," IEEE Sensors Journal (IEEE) (Impact Factor: 3.073), Accepted for Publication, DOI: 10.1109/JSEN.2021.3082475.
23	A. Dixit, D. P. Samajdar and N. Bagga, "Demonstration of Geometrical Impact of Nanowire on GaAs <sub>1-x</sub> Sb <sub>x</sub> Transistor Performance," IEEE Transaction on Electron Devices, vol 69, pp-388-394. (Impact Factor: 2.917)
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1	S. Yadav, P. Upadhyay, B. Awadhiya and P. N. Kondekar, “Design and Analysis of Improved Phase-Transition FinFET Utilizing Negative Capacitance”, IEEE Transactions on Electron Devices, vol 68, pp-853-859.
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