

# List of Publications in Year 2022

## **Dr. Irfan Ahmed:**

1. Ali, S. *et al.* (2022) "Uplink Performance of Narrowband Internet-of-Things Devices in Downlink–Uplink Decoupled-Based Heterogeneous Networks," *Iranian Journal of Science and Technology, Transactions of Electrical Engineering* [Preprint]. Available at: <https://doi.org/10.1007/s40998-022-00570-w>.
2. Jafri, S.T.A., Ahmed, I. and Ali, S. (2022) "Queue-Buffer Optimization Based on Aggressive Random Early Detection in Massive NB-IoT MANET for 5G Applications," *Electronics*, 11(18), p. 2955. Available at: <https://doi.org/10.3390/electronics11182955>.
3. Ali, S., Imran Aslam, M. and Ahmed, I. (2022) "Impact of fractional power control on downlink uplink decoupled-based HetNets in varying path loss exponent environment," *Transactions on Emerging Telecommunications Technologies*, 33(7). Available at: <https://doi.org/10.1002/ett.4491>.
4. Mumtaz, T. *et al.* (2022) "Inter-slice resource management for 5G radio access network using markov decision process," *Telecommunication Systems*, 79(4), pp. 541–557. Available at: <https://doi.org/10.1007/s11235-021-00877-9>.
5. Ali, A.K.M.S. and Ahmed, I. (2021) "Electrical characterization of glass fiber reinforced polymer (GFRP) composites for future metasurface antenna applications," *Materials Research Express*, 8(6), p. 065201. Available at: <https://doi.org/10.1088/2053-1591/ac02fe>.
6. Mariam, H., Ahmed, I. and Aslam, M.I. (2021) "Coverage probability of uplink millimeter wave cellular network with non-homogeneous interferers' point process," *Physical Communication*, 45, p. 101274. Available at: <https://doi.org/10.1016/j.phycom.2021.101274>.

## **Mr. Junaid Kareem:**

1. Khan, J.K., Khalid, M., Mustafa, G., Uddin, Z., Saleem, M. and Azam, A.A., 2022. Study of lanthanum ions (La<sup>3+</sup>) doped Manganese-Cobalt (Mn-Co) based spinel ferrite nanoparticles for technological applications. *Applied Physics A*, 128(11), pp.1-15.
2. Naz, K., Khan, J.K., Khalid, M., Akhtar, M.S., Gilani, Z.A., Mersal, G.A., Ibrahim, M.M., Muhammad, A. and Ashiq, M.G.B., 2022. Structural, dielectric, impedance and electric modulus analysis of Ni substituted copper spinel ferrites nanoparticles for microwave device applications. *Materials Chemistry and Physics*, 285, p.126091
3. Ali, Sibtain, Muhammad Khalid, Ghazanfar Nazir, Kiran Naz, **Junaid Kareem Khan**, Muhammad Saeed Akhtar, and Nasir Abbas. "Effect of nickel substitution on structural

and dielectric properties of Mg-Zn based spinel ferrite nanoparticles." *Physica Scripta* 97, no. 6 (2022): 065802.(**I.F. 3.081**)

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4. Channa, Naimatullah, Nasir Abbas, **Junaid Kareem Khan**, Muhammad Khalid, Malik Muhammad, Muhammad Kashif HafeezUllah, Sehrish Inam, and Maria Arshad. "Fabrication of Cobalt Ferrite Nanoparticles with a Facile Approach: Variations in Structural, Dielectric and Morphological Properties by Influence of Annealing Temperature." *International Journal of Nanoelectronics & Materials* 15, no. 1 (2022). (**I.F. 0.82**)