# LIST OF PUBLICATIONS

**Publications in Referred Journals**

1. Dutta, J. C. and **Sharma, P. K.** Fabrication, characterization and electrochemical modeling of CNT based enzyme field effect acetylcholine biosensor. ***IEEE Sensors Journal***, 18(8):3090-3097, 2018, https://doi.org/10.1109/JSEN.2018.2810133
2. **Sharma, P. K.**, Dutta, J. C., Barik, M. A., and Sarma, M. K. Numerical Modeling of Potassium doped Polypyrrole/Carbon Nanotube graphene based cholesterol enzyme field effect transistor. ***Wiley International Journal of Numerical Modelling: Electronic Networks, Devices and Fields***, 30(6):e2223, 2017, https://doi.org/10.1002/jnm.2223
3. **Sharma, P. K.**, Thakur, H. R. and Dutta, J. C. Modeling and simulation of carbon nanotube-based dual-gated enzyme field effect transistor for acetylcholine detection. ***Springer Journal of Computational Electronics***, 16(3):584–592,2017, doi:10.1007/s10825-017-0992-9

**Publication in Book Chapter**

4. Dutta, J. C., **Sharma, P. K.,** and Thakur, H. R. Forty years of BioFETOLOGY: A Research Review. In Bhatia, S. K., Mishra, K. K., Tiwari, S. and Singh, V. K., editors, *Advances in Computer and Computational Sciences*, volume 553, pages 687-697, Springer, Nature, Singapore, 2017.

**Publications in IEEE Conferences**

5. **Sharma, P. K.** and Dutta, J. C. Electrochemical Modeling of Carbon Nanotube Based Dual Gated Junctionless Enzyme Field Effect Transistor. In *International Technical Conference of IEEE Region 10* (TENCON-2016), pages 2765-2770, Marina Bay Sands, Singapore, 2016.
6. **Sharma, P. K.**, Thakur, H. R., and Dutta, J. C. Effect of different dielectric materials on enzyme field effect transistor. In *IEEE International Conference on*

*Computing Communication and Automation* (ICCCA-2017), pages 1457-1460, Greater Noida, Uttar Pradesh, 2017.

7. **Sharma, P. K.**, Thakur, H. R., and Dutta, J. C. Fabrication and characterization of a Carbon Nanotube based Junctionless Ion sensitive Field Effect Transistor (CNT-JLISFET). In *IEEE International Conference on Computing Communication and Automation* (ICCCA-2016), pages 1450-1453, Greater Noida, Uttar Pradesh, 2016**.**