

List of Publications

Journal Publications

1. **Kashyap R.**, Boro P. R., Yasmin, R., Nath J., Sonowal D., Doley R. and Mondal B. Multiple protein patterned surface plasmon resonance biochip for the detection of Human Immunoglobulin-G. *Journal of Biophotonics*, e202200263, 2023.
2. **Kashyap R.**, Baruah U. R., Gogoi A. and Mondal B. Sensitivity enhanced Surface Plasmon Resonance sensor based on Zinc Oxide and BlueP-MoS₂ heterostructure. *Plasmonics*, 1-15, 2023.
3. **Kashyap R.**, Handique J., Nath K., Talukdar P. J., Ojah N., Sarmah D., Ahmed G. A., Doley R. and Mondal B.. Enhanced plasmonic biosensing with atmospheric pressure dielectric barrier discharge oxygen plasma treated polydimethylsiloxane microfluidic channels. *Materials Today Communications*, 41:110499, 2024.
4. **Kashyap R.**, Yasmin, R., Doley R. and Mondal B. Development of Surface Plasmon Resonance biosensor for rapid and reliable detection of snake venom protein in blood plasma. *Microchemical Journal* (Under review)

Book Chapters

1. Baruah U.R., Nath J., **Kashyap R.**, Sonowal D. and Mondal B. CMOS linear image sensor based Data Acquisition System for Surface Plasmon Resonance measurement. In: Proceedings of 4th International Conference on Frontiers in Computing and Systems. COMSYS 2023, Kole, D.K., Roy Chowdhury, S., Basu, S., Plewczynski, D., Bhattacharjee, D. (Eds), vol 974, Lecture Notes in Networks and Systems, Springer, Singapore.

Conferences

1. **Kashyap R.**, Bhattacharjee A., Rangpi K., Barbhuiya N. H. and Mondal B. Portable surface plasmon resonance (SPR) measurement device for sensing applications. In 2020 *IEEE 17th India Council International Conference (INDICON)*, 2020.
2. **Kashyap R.**, Baruah U.R. and Mondal B. BaTiO₃ and Blue Phosphorus-MoS₂/WS₂ hybrid structure based Surface Plasmon Resonance sensor with improved sensing performance. In 2023 16th *International Conference on Sensing Technology (ICST)*, 2023.