

Research and Publications

1. Almawgani, Abdulkarem HM, Hussein A. Elsayed, Ahmed Mehane, Arvind Sharma, Ashour M. Ahmed, Ghassan Ahmed Ali, and Walied Sabra. "Total reflectivity for infrared radiation based on one-dimensional gyroidal metallic photonic crystals." *International Journal of Modern Physics B* (2023): 2450186.
2. Zaky, Zaky A., M. Al-Dossari, Arvind Sharma, Ahmed S. Hendy, and Arafa H. Aly. "Theoretical optimisation of a novel gas sensor using periodically closed resonators." *Scientific Reports* 14, no. 1 (2024): 2462.
3. Baraket, Z., Sharma, A., Soltani, O. *et al.* The role of the chirping process in optimizing the tunability of pressure sensing performance. *J Opt* (2024). <https://doi.org/10.1007/s12596-024-01918-7>
4. Baraket, Z., Soltani, O., Sharma, A. *et al.* Design of a pressure sensor based on the 1D ternary Octonacci photonic crystal configurations. *J Opt* (2024). <https://doi.org/10.1007/s12596-024-01788-z>