



UNIVERSIDAD AUTÓNOMA DEL
ESTADO DE MORELOS



**Dr. Outmane
Oubram**



Dr. Outmane Oubram

Formación académica

Licenciatura en Ciencias Físicas con especialidad Electrónica, Facultad de Ciencias de Rabat de la Universidad Mohammed V., 2000.

Maestría en Tecnología de Información e Instrumentación Oceanográfica, Facultad de Ciencias de Rabat de la Universidad Mohammed V., 2003.

Doctorado en Ciencias, Universidad Autónoma del Estado de Morelos, 2009.

Distinciones

Nivel 1 del Sistema Nacional de Investigadores e Investigadoras (SNII)
Perfil Deseable PRODEP vigencia 3 años

Publicaciones de los últimos tres años

Artículos

1. Gutierrez-Reyna, B. D., Zarhri, Z., Gaggero-Sager, L. M., & Oubram, O. (2025). Transport and thermoelectric properties of periodic and aperiodic germanene gated superlattices. *Materials Science in Semiconductor Processing*, 200, 109900.
2. Cisneros-Villalobos, L., Vera-Dimas, J. G., Martínez-Martínez, D., Oubram, O., & López-Sesenes, R. (2025). Influence of Grading Capacitance on Sympathetic Inrush Current of Parallel Power Transformers Influence de la capacité de répartition sur le courant d'enclenchement sympathique des transformateurs de puissance en parallèle. *IEEE Canadian Journal of Electrical and Computer Engineering*.
3. Miniya, M., Espejel-Morales, R., Vázquez, R. M. D. C., & Oubram, O. (2025). Disorder in Self-Similar Structure Based Graphene Monolayer. *Journal of Physics: Condensed Matter*.
4. Oubram, O., Rodríguez-Vargas, I., & Guzmán, E. J. (2025). Disorder impacts on transport and magnetoresistance properties in a gapless



UNIVERSIDAD AUTÓNOMA DEL
ESTADO DE MORELOS



ferromagnetic/normal/ferromagnetic phosphorene junction. *Journal of Physics: Condensed Matter*, 37(21), 215302.

5. Rabanales-Marquez, E., Noverola-Gamas, H., Oubram, O., & Gaggero-Sager, L. M. (2025). Effects of dopant interlayer distance, magnetic field and electric field on nonlinear optical rectification, second and third harmonic generation in double δ -doped quantum wells. *Solid State Communications*, 115951.

6. Rodriguez, M., Oubram, O., Bassam, A., Lakouari, N., & Tariq, R. (2025). Mexican Sign Language Recognition: Dataset Creation and Performance Evaluation Using MediaPipe and Machine Learning Techniques. *Electronics*, 14(7), 1423.

7. Moreno-Bernal, P., Nesmachnow, S., Torres-Aguilar, C., & Oubram, O. (2025). Evolutionary Algorithm Approach for Exploring Spatial Alternative Paths for a Corridor Location. In *Advancements in Optimization and Nature-Inspired Computing for Solutions in Contemporary Engineering Challenges* (pp. 79-98). Singapore: Springer Nature Singapore.

8. Ez-Zahar, A., Lakouari, N., Oubram, O., Marzoug, R., & Ez-Zahraouy, H. (2024). Analyzing single-lane roundabout traffic and environmental impacts through cellular automaton: A focus on U-turn effects. *International Journal of Modern Physics C*, 35(09), 2450114.

9. Limón-Mendoza, M., Oubram, O., & Acosta-Flores, M. (2024). Automation methodology of a hybrid process for the preparation of emulsions. *DYNA*, 99(5).

10. Miniya, M., Gaggero-Sager, L. M., Mora-Ramos, M. E., Pérez-Álvarez, R., & Oubram, O. (2024). Self-similarity of quantum transport in graphene using electrostatic gate and substrate. *Electronic Structure*, 6(3), 035005.

11. Gamas, H. N., Solis, F. M., & Oubram, O. (2024). Effects of structural disorder on the change in refractive index of a single delta-doped system in GaAs. *REVISTA MEXICANA DE FISICA*, 70(4).

12. Ez-zahar, A., Lakouari, N., Oubram, O., Aguilar, J. G. V., & Ez-zahraouy, H. (2024, May). Simulation Analysis of Traffic Management in Roundabout Systems. In *2024 4th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET)* (pp. 1-7). IEEE.

13. Rojas-Briseño, J. G., Villasana-Mercado, P., Molina-Valdovinos, S., Oubram, O., & Rodríguez-Vargas, I. (2024). Spin-valley polarization and tunneling magnetoresistance in monomer, dimer, and trimer magnetic silicene superlattices. *Journal of Physics: Condensed Matter*, 36(31), 315301.

14. Oubram, O. (2024). Gap engineering effects on transport and tunneling magnetoresistance properties in phosphorene



UNIVERSIDAD AUTÓNOMA DEL
ESTADO DE MORELOS



ferromagnetic/normal/ferromagnetic junction. *Journal of Physics: Condensed Matter*, 36(22), 225302.

15. Miniya, M., Oubram, O., El Hachimi, A. G., & Gaggero-Sager, L. M. (2024). Spatial quasi-bound states of Dirac electrons in graphene monolayer. *Scientific Reports*, 14(1), 3859.