

LIST OF JOURNAL PAPERS 2025

1. C. Tuneu-Corral, X. Puig-Montserrat, C. Flaquer, X. Jordà, H. Rebelo, M. Cabeza and A. López-Baucells
“Landscape of fear in rice paddies: effect of bat ultrasounds on the egg roduction of a tympanate moth pest”
Pest Manag Sci, April 2025
DOI: [10.1002/ps.8866](https://doi.org/10.1002/ps.8866)
2. N. L. Edwards, A. Martinez, J. Evans, J. Mitchell, J. Asher, S. Ghosh, E. Chikoidze, A. P. Tomas, M. Vellvehi, F. Monaghan, J. Burnett, D. Goodwin, O. Guy, C. Fisher, H. Ashraf, C. Colombier, M. Jennings.
“High voltage design strategies for Gallium Oxide Power Devices”
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DOI: [10.1109/TSM.2025.3597872](https://doi.org/10.1109/TSM.2025.3597872)
3. Z. Chi, C. Sartet, V. Sallet, B. Berini, Y. Dumont, Y. Zheng, L. Chernyak, M. Vellvehi, A. Pérez-Tomás, E. Chikoidze.
“p-Type β -Ga₂O₃ Homoepitaxial Films with Superior Electrical Transport Properties”.
Advanced Electronic Materials, e00190, August 2025
DOI: [10.1002/aelm.202500190](https://doi.org/10.1002/aelm.202500190)
4. E. Navarrete Ramos, J. Duarte-Campderros, M. Fernández, G. Gómez, J. González, S. Hidalgo, R. Jaramillo, P. Martínez Ruiz del Árbol, M. Moll, C. Quintana, A.K. Sikdar, I. Vila, J. Villegas
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5. V. Kraus, M. Biveinyt, M.F. Garcia, S. Hidalgo, M. Moll, J. Villegas, M. Wiehe
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6. A. Arredondo-López, K. Eiler, A. Quintana, G. Rius, I. Spasojevic, A. Salicio, A. Nicolenco, M. Lekka, E. García-Lecina, G. Brunin, D. Waroquiers, G.M. Rignanese, E. Pellicer, E. Menéndez, J. Sor.
“Composition-Dependent Voltage-Driven OFF-ON Switching of Ferromagnetism in Co-Ni Oxide Microdisks”.
ACS Applied Materials and Interfaces, vol.17, p.9500. 2025
DOI: [10.1021/acsami.4c15739](https://doi.org/10.1021/acsami.4c15739)
7. M. Pérez, F. Zamorano, C. Fleta, C. Muñoz-Montplet, D. Jurado-Bruggeman, M. Jiménez, P. Guardia, G. Grabulosa-Morera, R. Morales-Pérez, G. Rius, P. Godignon, G. Pellegrini, C. Guardiola.

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[DOI:10.1038/s41598-025-13052-w](https://doi.org/10.1038/s41598-025-13052-w)
8. J. Vallverdú, G. Rius.
“NeuroQ: Quantum-Inspired Brain Emulation”
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[DOI:10.3390/biomimetics10080516](https://doi.org/10.3390/biomimetics10080516)
9. J. Villegas, C. Torres, M. Manojlovic, M.C. Jimenez-Ramos, N. Moffat, J.G. Lopez, S. Hidalgo.
“nLGAD gain response to low-penetrating particles”
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10. R. Solé, X. Jorda, X. Perpiñà.
“Simultaneous Multiwavelength Illumination for Thermoreflectance Sensitivity Enhancement”
IEEE Transactions on Instrumentation and Measurement, vol. 74, 2025
[DOI:10.1109/TIM.2025.3602567](https://doi.org/10.1109/TIM.2025.3602567)
11. D. López-Núñez, A. Torras-Coloma, Q. Portell-Montserrat, E. Bertoldo, L. Cozzolino, G.A. Ummarino, A. Zaccone, G. Rius, M. Martínez, P. Forn-Díaz.
“Superconducting penetration depth of aluminum thin films”
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[DOI:10.1088/1361-6668/adf360](https://doi.org/10.1088/1361-6668/adf360)
12. J. Villegas, F. Dougados, C. Torres, P. Fernandez-Martinez, M.d.C. Jiménez-Ramos, S. Hidalgo.
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13. C. Lasasosa, J. Duarte-Campderros, M. Fernández, G. Gómez, I. Vila, S. Hidalgo, G. Pellegrini.
“The influence of pixel cell layout on the timing performance of 3D sensors”.
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[DOI:10.1088/1748-0221/20/06/C06080](https://doi.org/10.1088/1748-0221/20/06/C06080)
14. S. Wood, K. R. Paton, R. Rawcliffe, T. Peach, T. Adel, A. Sacco, H. Kerdoncuff, M. Paillet, A-A. Zahab, P. Finnie, L.-L. Tay, J. Kim, H. Kwon, N. Itoh, S. Kashiwagi, A. M. Rossi, Y. Yao, L. Ren, E. Ozçeri, G. Rius, D. Steinmetz, A. Richter, T. Dieing, A. Tempez, O. Lancry, M. Chaigneau, A. R. Hight Walker, E. H. M. Ferreira, M. Shkunov, F. A. Castro
Measurement of Lateral Resolution in Confocal Raman Spectroscopy Using Indium Arsenide Nanowires
Journal of Raman Spectroscopy, pp. 1-11, 2025
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15. M. Manojlovic, A. Crnjac, N. Moffat, J. Villegas, I. Pintille, E. Cabruja, G. Pellegrini, S. Hidalgo.
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16. S. Busquets-Monge, S. Alepuz, J. Nicolàs-Apruzzese, X. Jordà, M. Raya, Á. Filbà-Martínez G. García-Rojas.
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