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Work Phone: +34 91 497 8510 Work

Email: pablo.garciagonzalez@uam.es

PABLO GARCÍA GONZÁLEZ Professor
[Nanophotonics Group](#)

Work Module 5, Office 507, 5th floor.

Biographical Info

Professor in Condensed Matter Physics at FTMC since 2011.

Associate Professor at Department of Fundamental Physics – UNED, Madrid.

Ramon y Cajal Fellow at UNED, Madrid.

Postdoctoral researcher at Physics Department, University of York, UK.

PhD at UNED, Madrid.

Degree in Physics at Universidad Complutense de Madrid.

Research Interests

Optical properties of metallic nanostructures.

Many-body theory applied to condensed matter physics.

Development of ab-initio methods for total-energy calculations.

Relevant/Recent Publications

Performance of Nonlocal Optics When Applied to Plasmonic Nanostructures, L. Stella, P. Zhang, F. J. García-Vidal, A. Rubio and P. García-González, *The Journal of Physical Chemistry*, 117, 8941–8949 (2013). [\[URL\]](#)

Assessment of advanced energy functionals in an exactly solvable model system, *Phys. Rev. A* 79, 062502, (2009). [\[URL\]](#)

Advanced Correlation Functionals: Application to Bulk Materials and Localized Systems, P. García-González, J.J. Fernández, A. Marini, A. Rubio, *Journal Of Physical Chemistry A* 49, 12458 – 12465 (2007). [\[URL\]](#)

Vertex corrections in localized and extended systems, Andrew J. Morris, Martin Stankovski, Kris T. Delaney, Patrick Rinke, P. García-González, R. W. Godby, *Phys. Rev. B* 76, 155106, (2007). [\[URL\]](#)

Quantum Monte Carlo calculations of the surface energy of an electron gas, B. Wood, N. D. M. Hine, W. M. C. Foulkes, and P. García-González, Phys. Rev. B 76, 035403, (2007). [\[URL\]](#)

First-Principle Description of Correlation Effects in Layered Materials, A. Marini, P. García-González, A. Rubio, Physical Review Letters 96, 136404, (2006). [\[URL\]](#)

Many-body GW Calculations of Ground-State Properties: Quasi-2D Electron Systems and van der Waals Forces, P. Garcia-Gonzalez, R. W. Godby, Phys. Rev. Lett. 88, 056406, (2002). [\[URL\]](#)

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