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Research Interests

Our work is focused on ab initio modelling of different problems in Materials Science and Nanotechnology that involve forces and currents at the atomic scale. In particular, we try to understand and develop new capacities for the basic tools in Nanotechnology, the Scanning Probe Microscopes (SPMs), that enable us to use currents and forces to visualize and manipulate matter at the nanoscale.

Relevant/Recent Publications

M. Ondráček, P. Pou, V. Rozsival, C. González, P. Jelínek, and R. Pérez Forces and Currents in Carbon Nanostructures: Are We Imaging Atoms? *Physical Review Letters* 106,176101 (2011). [\[URL\]](#)

M. M. Ugeda, D. Fernández-Torre, I. Brihuega, P. Pou, A. J. Martínez-Galera, R. Pérez, and J. M. Gómez-Rodríguez Point Defects on Graphene on Metals *Physical Review Letters* 107,116803 (2011). [\[URL\]](#)

Y. Sugimoto, P. Pou, O. Custance, P. Jelinek, M. Abe, R. Perez and S. Morita Complex patterning by vertical interchange atom manipulation using atomic force microscopy *Science* 322, 413-417 (2008). [\[URL\]](#)

Y. Sugimoto, P. Jelinek, P. Pou, M. Abe, R. Perez, S. Morita and O. Custance Chemical identification of individual surface atoms by atomic force microscopy *Nature* 446, 64-67 (2007). [\[URL\]](#)

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