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General

ALACANT is an *ab initio* code for electronic quantum transport. The project started in the year 2000 at the Physics Department of the University of Alicante with the aim to compute the current in nanoscopic systems starting from first principles. It interfaces GAUSSIAN03 to implement the non-equilibrium Green's functions formalism.

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Fullerene-based molecular nanobridges: A first-principles study.

J. J. Palacios, E. Louis, A. J. Pérez-Jiménez, and J. A. Vergés.

Phys. Rev. B **64**, 115411 (2001).

First-principles approach to electrical transport in atomic-scale nanostructures.

J. J. Palacios, A. J. Pérez-Jiménez, E. Louis, E. SanFabián, and J. A. Vergés.

Phys. Rev. B **66**, 035322 (2002).

Implementing the Keldysh formalism into ab initio methods for the calculation of quantum transport: Application to metallic nanocontacts.

E. Louis, J. A. Vergés, J. J. Palacios, A. J. Pérez-Jiménez, and E. SanFabián.

Phys. Rev. B **67**, 155321 (2003).

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