

Brief Curriculum Vitae of Profesor Gustavo Adolfo Aucar

Birth-date: Nov, 12th 1956.

Married with seven children

E-mail: gaa@unne.edu.ar

Education:

1. Physical Licenciata. Facultad de Ciencias Exactas y Naturales y Agrimensura, UNNE 1983
2. PhD in Physics. Buenos Aires University. 1991
3. Posdoctorate. Two years at the University of Odense, Denmark. 1992-1994
4. Senior Research fellow of CONICET.
5. Full professor of Physics.
6. Visiting professor: Odense University, Módena University, Helsinki University, Alberta University, Copenhagen University, Madrid University.

Institutional duties:

Head of the Institute of Modeling and Innovative Technology. IMIT. CONICET. From 2008

Head of the Center of Science and Technology. CCT Nordeste. CONICET. From April 2014.

Argentinian representative of the International Society on Theoretical Chemical Physics

Advisor of:

1. Pregrade assistanship: 22
2. Posgrade fellowship: 15
3. Posdocs: 3
4. PhD thesis: 7
5. Researchers: 6
6. Projects: 6 from 2010.

The last one: "On the origin and the effects of quantum entanglement, hydrogen bonds, relativity, QED and quirality on magnetic molecular properties"

Scientific standars:

- Articles published in international journals: 73
- h index: 22
- i10 index: 42
- Citations: 1560

Few articles of reference:

1. "Role of Spin-Dependent Terms in the Relationship among Nuclear Spin-Rotation and NMR Magnetic Shielding Tensors", I. Agustin Aucar, Sergio S. Gomez, Claudia G. Giribet and Gustavo A. Aucar. *J. Phys. Chem. Lett.*, 7, 5188–5192 (2016).
2. Perspective: "Toward a QFT-based theory of atomic and molecular properties". G. A. Aucar. *Phys. Chem. Chem. Phys.* 16, 4420 (2014).
3. "Polarization propagators: A powerful theoretical tool for a deeper understanding of NMR spectroscopic parameters". Gustavo A. Aucar, Rodolfo H. Romero, Alejandro F. Maldonado. *Int. Rev. in Phys. Chem.* 29, 1-64 (2010).
4. "Relativistic heavy-atom effects on heavy-atom shieldings", Perttu Lantto, Sergio Gomez, Rodolfo H. Romero, Gustavo A. Aucar and Juha Vaara. *J. Chem. Phys.* 125, 184113 (2006).