

J. Ulises Reveles

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Objective

Career in computer chemistry and computer physics

Strengths and Research Areas

- Analytical skills, experience in scientific programming
- Nanoclusters and Catalysis
- Development and application of scientific algorithms

Professional Experience

- **2005 - -** [Postdoctoral Research Associate](#).
Department of Physics, Virginia Commonwealth University, Richmond, VA, USA.

Education

- **1999 - 2004 -** [Ph. D. in Chemical Sciences](#).
Sep. 12, 2004, Center for Research and Advanced Studies, México City, México.
- **1993 - 1998 -** [B. Sc. in Chemical Engineering](#).
August 22, 2000, National Autonomous University of México, Cuautitlán México.

Honors and Awards

- Invited Speaker, XIV International Materials Research Congress - Cancún 2005.
- Invited Speaker, Eighth Workshop of Chemistry Cinvestav, Center for Research and Advanced Studies, México City, México, 2006.
- National Researcher Level I by SNI (Mexico's Scientific Research Bureau), México, 2008 - 2010.

Professional Activities

- Referee for the Journal of Molecular Catalysis A: Chemical
- Member of the American Physic Society

Selected Publications and Software Developments

Selected of a total of 30 scientific papers with 202 citations (excluding autocitations).

- J.U. Reveles, P.A. Clayborne, A.C. Reber, S.N. Khanna, K. Pradhan, P. Sen, and M.R. Pederson, Designer Magnetic Superatoms, *Nat. Chem.*, accepted.
- J.U. Reveles, P. Calaminici, M.R. Beltrán, A.M. Köster, and S.N. Khanna, H₂O Nucleation around Au⁺, *J. Am. Chem. Soc.*, **2007**, *129*, 15565-15571. Citations: 3
Research Highlights paper in *Nature Physics*, **2008**, *4*, 9.
- J.U. Reveles, S.N. Khanna, P.J. Roach, and A.W. Castleman Jr., Multiple Valence Superatoms, *Proc. Natl. Acad. Sci. USA* **2006**, *103*, 18405. Citations: 12
Research Highlights papers in *C&EN News* **2006**, Nov. 21, and *Nature Materials* **2006**, Nov. 23
- J.U. Reveles and A.M. Köster, Geometry Optimization in Density Functional Methods, *J. Comp. Chem.* **2004**, *25*, 1109. Citations: 32
- Coauthor of the LCGTO density functional program **deMon2k**,
A.M. Köster et al., The deMon Developers Community, Cinvestav, México (2008).
Citations: 38

Language Skills

- **English** - advanced, **Spanish** - native speaker.

References

- Prof. A. Welford Castleman Jr., Penn State University, Pennsylvania, USA.
- Prof. Shiv N. Khanna, Virginia Commonwealth University, Virginia, USA.
- Prof. Andreas M. Köster, Center for Research and Advanced Studies, México City.