List of Papers (international journals with peer review)

2025

Ernesto García-Alfonso, Thantip Roongcharoen, Piotr Zuchowski and Alessandro Fortunelli. "In Search of Structure' Links Across Length Scales: Crossover Among Structural Motifs, Energetics, and Magic Systems in Subnanometer Transition Metals Clusters" Small Cluster (2025) DOI: 10.1002/sstr.202500345

2024

Ernesto García-Alfonso, Francesco Ancilotto, Manuel Barranco, Fausto Cargnoni, Nadine Halberstadt and Martí Pi. "Revisiting Thomson's model with multiply charged superfluid helium nanodroplets" J. Chem. Phys. 161, 224303 (2024)

Marisol Trejo, Andrew Clifford, Ernesto Garcia Alfonso, Nadine Halberstadt, Lan Xue, and Wei Kong. "Electron diffraction of foam-like clusters between xenon and helium in superfluid helium droplets". J. Chem. Phys. 161, 000000 (2024)

Loidel Puentes-Milián, Ernesto Garcia-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira." Vibrational predissociation study of NelBr(A) using Quasiclassical Trajectories and Trajectory Surface Hopping methods". Chemical Physics Letters. 849, 141427 (2024)

Ernesto García-Alfonso, Manuel Barranco, Nadine Halberstadt and Martí Pi ."Time-resolved solvation of alkali ions in superfluid helium nanodroplets". J. Chem. Phys. 160, 164308 (2024)

2023

Loidel Puentes-Milián, Ernesto Garcia-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira." Nel2 Photofragmentation Dynamics Through Quasiclassical and Semiclassical Studies". ChemPhysChem e202300406,2023

Ernesto García-Alfonso, Francesco Ancilotto, Manuel Barranco, Martí Pi, Nadine Halberstadt ."Quantized vortex nucleation in collisions of superfluid nanoscopic helium droplets at zero temperature". J. Chem. Phys. 159, 074305 (2023)

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Ernesto García-Alfonso, Maykel Márquez-Mijares, Jesús Rubayo- Soneira, Nadine Halberstadt, Kenneth C. Janda and Craig C. Martens. "Photogfragmentation dynamics study of ArBr2 (v = 16,.., 25) using two theoretical methods: trajectory surface hopping and quasiclassical trajectories". Eur. Phys. J. D. 76, 79. 2022.

Ernesto García-Alfonso, Manuel Barranco, David A. Bonhommeau, Nadine Halberstadt, Martí Pi and Florent Calvo. "Clustering, collision, and relaxation dynamics in pure and doped helium nanoclusters: Density - vs particle -based approaches". <u>The Journal of Chemical Physics. 157, 014106. 2022</u>

2020

Ernesto García-Alfonso, Francois Coppens, Manuel Barranco, Martí Pi, Frank Stienkemeier and Nadine Halberstadt. "Alkali atoms attached to vortex-hosting helium nanodroplets". The Journal of Chemical Physics. 152, 194109. 2020.

Ernesto García-Alfonso, Maykel Márquez-Mijares, Jesús Rubayo-Soneira, Nadine Halberstadt, Kenneth C. Janda and Craig C. Martens. "Study of the Vibrational Predissociation of the NeBr2 Complex by Computational Simulation using the Trajectory Surface Hopping Method". Sigma Mathematics. 8, 2029. 2020.

<u>2019</u>

C. Calvo-Mola, S. López Pérez, E. García Alfonso, and J. Cerutti Torres. "Determination of the Planck Constans through the use of LEDS". Revista Cubana de Física, 36, 125.2019.