

Members Overview

To view a member's profile, click on their name.

[Go back to directory.](#)

[Add to Address Book.](#)



Work Phone: +34 91 497 2665 Work
Email: cesar.gonzalez@uam.es Website:
[Click Here](#)

CÉSAR GONZÁLEZ PASCUAL Postdoctoral
Researcher [First-principles Atomistic
Simulation Techniques](#)

Work Module 5, Office 505, 5th floor.

Biographical Info

Marie Curie-Andalucia Talent Hub fellowship (CEA-Saclay and University of Granada).

Postdoctoral researcher at University of Oviedo.

JAE-Doc contract at Materials Institute of Madrid.

MEC-postdoctoral grant at Institute of Physics of Prague.

PhD: UAM.

Honors and Awards

Research Interests

Electronic Transport in nanostructures: STM and BEEM.

First principles simulations.

2D materials: graphene and MoS₂.

Resistant materials for nuclear fusion technologies.

Relevant/Recent Publications

A Single Hydrogen Molecule as an Intensity Chopper in an Electrically Driven Plasmonic Nanocavity, P. Merino, A. Rosławska, C. C. Leon, A. Grewal, C. Große, C. González, K. Kuhnke, and K. Kern, *Nano Letters* 19, 235–241, (2019). [[URL](#)]

Accurate ab initio determination of ballistic electron emission spectroscopy: Application to Au/Ge, A Gerbi, C. González, R. Buzio, N. Manca, D. Marrè, L. D. Bell, D. G. Trabada, S. DiMatteo, P. L. de Andres, F. Flores, *Physical Review B* 98 205416, (2018). [[URL](#)]

Weakly Trapped, Charged and Free-Excitons in Single-layer MoS₂ in the Presence of Defects, Strain and Charged Impurities, S. Dubey, et al *ACS Nano* 11, 11206–11216

(2017). [\[URL\]](#)

Reactivity Enhancement and Fingerprints of Point Defects on a MoS₂ Monolayer Assessed by Ab Initio Atomic Force Microscopy, C. González, Y. J. Dappe, and B. Biel. *J. Phys. Chem. C*, 120 (30), 17115 (2016). [\[URL\]](#)

H trapping and mobility in nanostructured tungsten grain boundaries: A combined experimental and theoretical approach, C. González, et al *Nuclear Fusion* 55, 113009 (2015). [\[URL\]](#)

Carbon tips for all-carbon single-molecule electronics, Y. J. Dappe, C. González and J. C. Cuevas, *Nanoscale*, 6, 6953 (2014). [\[URL\]](#)

Charge Injection through Single and Double Carbon Bonds, G. Schull, Y. J. Dappe, C. González, H. Bulou and R. Berndt, *Nanoletters* 11 (8), 3142 (2011). [\[URL\]](#)

The Interplay of Conductance, Force and Structure Change in Metallic Point Contacts, M. Ternes, C. González, C. P. Lutz, P. Hapala, F. J. Giessibl, P. Jelínek and A. J. Heinrich. *Physical Review Letters*, 106, 016802, (2011). [\[URL\]](#)

Mechanism of the Band Gap Opening across the Order-Disorder Transition of Si(111)-4×1-In, C. González, J.D. Guo, J. Ortega, F. Flores and H.H. Weitering. *Physical Review Letters*, 102 115501, (2009). [\[URL\]](#)

Soft phonon, dynamical fluctuations and a reversible phase transitions: Indium chains on Silicon, C. González, J. Ortega and F. Flores. *Physical Review Letters*, 96 136101, (2006). [\[URL\]](#)

[Add to Address Book](#). UPDATED 9 MONTHS AGO.

