

Gloria Anemone

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EMPLOYMENT

Assistant Professor on Tenure Track, Dept. of Mathematics, CUNEF Universidad, 2022–present

Deputy Director of Mathematical Department, CUNEF Universidad, 2024-present

Assistant Professor, Universidad San Pablo CEU, 2019–2022

Postdoctoral Researcher, UAM & Fundación IMDEA Nanociencia, 2017–2019

PhD Research Assistant, Universidad Autónoma de Madrid (UAM), 2013–2017

EDUCATION

Ph.D. in Condensed Matter Physics and Nanotechnology, Universidad Autónoma de Madrid, 2017

M.Sc. in Physics, Università degli Studi dell'Aquila, 2012

Bachelor in Physics, Università degli Studi dell'Aquila, 2009

ERASMUS Programme, Universidad Complutense de Madrid, 2011

FIELDS OF INTEREST

Condensed Matter Physics, Surface Science, 2D Materials, Hydrogen production.

PUBLICATIONS

1. Rosendo, Paula; Azcondo, M. Teresa; Biancotto, Lautaro; Anemone, Gloria; Boulahya, Khalid; Ritter, Clemens; Amador, Ulises: "Defects and Defect Association Determine the Actual Entropy of Perovskites Derived from Lanthanum–Calcium Ferrite," *Inorganic Chemistry*, 64 (25), 12446–12457, 2025.
2. Azcondo, M. Teresa; Anemone, Gloria; Muñoz-Noval, Alvaro; Boulahya, Khalid; Rubio-Zuazo, Juan; Rosendo, Paula; Amador, Ulises: "Unveiling the Mechanism of Exsolution of Silver Nanoparticles for Decorating Lanthanum Strontium Ferrite," *Inorganic Chemistry*, 63(52), 24905–24915, 2024.
3. Anemone, Gloria; Al Taleb, Amjad; Politano, Antonio; Kuo, Chia-Nung; Lue, Chin Shan; Miranda, Rodolfo; Farias, Daniel: "Setting the limit for the lateral thermal

expansion of layered crystals via helium atom scattering,” *Physical Chemistry Chemical Physics*, 24 (21),13229-13233, 2022.

4. Anemone, Gloria; Casado Aguilar, Pablo; Garnica, Manuela; Calleja, Fabian; Al Taleb, Amjad; Kuo, Chia-Nung; Lue, Chin Shan; Politano, Antonio; Vázquez de Parga, Amadeo L.; Benedek, Giorgio; Farías, Daniel; Miranda Rodolfo: “Electron-phonon coupling in superconducting 1T-PdTe₂,” *NPJ 2D Materials and Applications*, 5 (1), 25, 2021.
5. Benedek, Giorgio; Bernasconi, Marco; Campi, Davide; Silkin, Igor V.; Chernov, I. P.; Silkin, Viatcheslav M.; Chulkov, Evgueni V.; Echenique, Pedro Miguel; Toennies, Jan Peter; Anemone, Gloria.; Al Taleb, Amjad; Miranda, Rodolfo; Farías, Daniel: “Evidence for a spin acoustic surface plasmon from inelastic atom scattering,” *Scientific Reports*, 11 (1), 1506, 2021.
6. Anemone, Gloria; Garnica, Manuela; Zappia, Marilena; Casado Aguilar, Pablo; Al Taleb, Amjad; Kuo, Chia-Nung; Lue, Chin Shan; Politano, Antonio; Benedek, Giorgio; Vázquez De Parga, Amadeo L.; Miranda, Rodolfo; Farías, Daniel: “Experimental determination of surface thermal expansion and electron-phonon coupling constant of 1T-PtTe₂,” *2D Materials*, 7 (2), 025007, 2020.
7. Al Taleb, Amjad; Anemone, Gloria; Zhou, Linsen; Guo, Hua; Farias, Daniel: “Diffraction of CH₄ from a Metal Surface,” *Journal of Physical Chemistry Letters*, 10 (7), 1574-1580, 2019.
8. Akhtar, Naureen; Anemone, Gloria; Farias, Daniel; Holst, Bodil: “Fluorinated graphene provides long lasting ice inhibition in high humidity,” *Carbon*, 141, 451-456, 2019.

WORKING PAPERS

G. Anemone, M. T. Azcondo, Al Taleb, A., J. Rubio-Zuazo, D. Farías, U. Amador, Green Hydrogen Production via Water Splitting Using SrFe_{0.9}Mo_{0.1}O_{3-δ} Perovskite as a Catalyst

SELECTED ACADEMIC HONOURS AND GRANTS

National Accreditation for Associate Professor, ANECA, 2024.

The Best Doctoral Thesis Award 2017-2019 from the Spanish Vacuum Society (ASEVA)

SELECTED PRESENTATIONS

CONFERENCES

Probing Electron-Phonon Interaction in 1T-PtTe₂ and 1T-PdTe₂ by Helium Atom Scattering, CMD31 – European Physical Society (Portugal, 2024), SrFe_{0.9}Mo_{0.1}O_{3-δ} Perovskite as a Stable Catalyst for Thermochemical Water Splitting, DSL2024 – International Conference on Diffusion in Solids and Liquids (Spain, 2024), Electron-phonon coupling and thermal expansion in 2D materials, ECOS36 – European Conference on Surface Science (Poland, 2023), Setting the limit for the lateral thermal expansion of layered crystals, 2D Transition Metal Dichalcogenides – University of Cambridge (UK, 2023), Electron-phonon coupling in superconducting 1T-PdTe₂,

ALCC2021 – Atomic Level Characterizations Symposium (Japan, 2021), Electron-phonon coupling in superconducting 1T-PdTe₂, CMD2020GEFES – European Physical Society (2020).