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THEORETICAL CONDENSED MATTER PHYSICS

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ANTONIO I. FERNÁNDEZ-DOMÍNGUEZ

Associate Professor

[Nanophotonics Group](#)

Work

Module 5, Office 510, 5th floor.

Biographical Info

- 2014-Present Ramón y Cajal Fellow, UAM.
- 2012-2014 Research Fellow, Imperial College London.
- 2010-2012 Marie Curie IEF Fellow, Imperial College London.
- 2009-2010 Research Associate, Imperial College London.
- 2009 PhD at the UAM.
- 2004 Physics degree at the UAM.

Honors and Awards

- Marie Curie CIG holder (2015-).
- Ramón y Cajal Fellow (2014-).
- Marie Curie IEF Fellow (2010-2012).
- Premio Extraordinario de Doctorado (UAM, 2009).

Research Interests

- Plasmonics.
- Nano-Optics.
- Metamaterials.

Relevant/Recent Publications

1. Unrelenting Plasmons, Nature Phot. 11, 8 (2017). [\[URL\]](#)
2. Transformation Optics Approach to Plasmon-Exciton Strong Coupling in Nanocavities, Phys. Rev. Lett. 117, 107401, (2016). [\[URL\]](#)
3. Coherent Four-Fold Super-Resolution Imaging with Composite Photonic-Plasmonic Structured Illumination, ACS Photonics 2, 341 (2015). [\[URL\]](#)
4. Capturing Photons with Transformation Optics, Nature Physics 9, 518 (2013). [\[URL\]](#)
5. Electron-Energy Loss Study of Nonlocal Effects in Connected Plasmonic Nanoprisms, ACS Nano 7, 6287 (2013). [\[URL\]](#)
6. Transformation Optics Description of Nonlocal Effects in Plasmonic Nanostructures, Physical Review Letters 108, 106802 (2012). [\[URL\]](#)
7. Probing the Ultimate Limits of Plasmonic Enhancement, Science 337, 1072 (2012). [\[URL\]](#)
8. Theory of Three-Dimensional Nanocrescent Light Harvesters, Nano Letters 12, 5946 (2012). [\[URL\]](#)
9. Plasmonic nanoantennas: Fundamentals and their use in controlling the radiative properties of nanoemitters, Chemical Reviews 111, 3888-391 (2011). [\[URL\]](#)
10. Collection and Concentration of Light by Touching Spheres: A Transformation Optics Approach, Physical Review Letters 105, 266807 (2010). [\[URL\]](#)
11. Highly confined guiding of Spoof Terahertz Surface-Plasmon Polaritons on structured metal surfaces, Nature Photonics 2, 175 (2008). [\[URL\]](#)

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UPDATED 2 MONTHS AGO.



□ Promotional video: Theoretical Condensed Matter Physics (UAM)

□ Nanocavity-modified Ground State Chemistry

□ Steering of Chiral Valley Photons in Transition Metal Dichalcogenides

□ The Inclusion of the Gender Perspective in Scientific Research

□ Metallic Nanostructures and Quantum Emitters

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