

# Curriculum Vitae – Francisco J. García-Vidal (Agosto 2021)

## Datos de contacto

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## Educación

- Universidad Autónoma de Madrid, Doctorado en Físicas, 1992. Directores de tesis: Fernando Flores Sintas y Alvaro Martín Rodero.
- Universidad Autónoma de Madrid, Licenciado en Físicas, 1988.

## Experiencia profesional

- Universidad Autónoma de Madrid (España)
  - Catedrático de Universidad desde Diciembre 2007
  - Profesor titular desde Noviembre 1996-Diciembre 2007
  - Profesor titular interino desde Octubre 1992-Noviembre 1994
- Imperial College of London (Reino Unido)
  - Investigador postdoctoral desde Noviembre 1994-October 1996
  - Profesor visitante, Junio 2010-Agosto 2010
- Université Louis Pasteur, Strasbourg (Francia)
  - Profesor visitante, Mayo 2000-Junio 2000
  - Profesor visitante, Julio 2013-Agosto 2013
- University of California at Berkeley (EE.UU)
  - Profesor visitante, Julio 2011-Agosto 2011
- CIC Nanogune, San Sebastian (España)
  - Investigador visitante, Julio 2012-Agosto 2012
  - Investigador visitante, Julio 2014-Agosto 2014
- Donostia International Physics Center, San Sebastian (España)
  - Investigador visitante, Julio 2015-Agosto 2015
  - Investigador visitante, Julio 2016-Agosto 2016
  - Investigador visitante, Julio 2017-Agosto 2017
  - Investigador visitante, Julio 2018-Agosto 2018
  - Investigador visitante, Junio 2019-Julio 2019
  - Investigador visitante, Julio 2020
- City College of New York (New York, EE.UU)
  - Profesor visitante Fulbright, Noviembre 2019-Abril 2020

## Actividades profesionales

- **Dirección de centros de investigación**

Desde su fundación en el año 2012, ha sido director del Centro de Investigación en Física de la Materia Condensada de la UAM [IFIMAC]. En dos convocatorias consecutivas (2015 y 2019), el IFIMAC ha sido reconocido por el Ministerio de Ciencia como unidad de excelencia María de Maeztu dentro de su programa de excelencia institucional Severo Ochoa.

- **Dirección de tesis doctorales**

1. Pilar Fernández de Pablos (2004).
2. Jorge Bravo Abad (2006) es ahora contratado doctor en la UAM.
3. Blanca Biel Ruiz (2006) es ahora profesora asociada en la Universidad de Granada (España).
4. Antonio I. Fernández Domínguez (2009) es ahora contratado doctor en la UAM.
5. Sergio Gutiérrez Rodrigo (2009). Actualmente es profesor en el Centro Universitario de la Defensa en Zaragoza (España).
6. Johan Christensen (2010) es ahora un contratado Ramón y Cajal en la Universidad Carlos III y obtuvo una "ERC Starting Grant" en el año 2016.
7. Diego Martín-Cano (2013) está trabajando actualmente en el Max Planck Institute for the Science of Light in Erlangen (Alemania) como un investigador postdoctoral en el grupo del Profesor Vahid Sandoghdar.
8. Paloma Arroyo Huidobro (2013) es ahora una "FCT Research Fellow" en el Instituto Superior Técnico de Lisboa (Portugal).
9. Carlos González Ballester (2017) está trabajando actualmente como investigador postdoctoral en el IQOQI-Innsbruck (Austria) en el grupo dirigido por el Profesor Oriol Romero-Isart.
10. Javier Cuerda Rodríguez (2017) está trabajando actualmente como investigador postdoctoral Aalto University (Finlandia) en el grupo dirigido por la Profesora Paivi Torma.
11. Victor Fernandez Hurtado (2018).
12. Javier del Pino Gutiérrez (2018) está trabajando actualmente como investigador postdoctoral en AMOLF (Holanda) en el grupo dirigido por el Profesor Ewold Verhagen.
13. Javier Galego Pascual (2019).
14. Rocío Sáez Blázquez (2020) está trabajando actualmente como investigadora postdoctoral en el grupo dirigido por el Profesor Peter Rabl en la Universidad de Viena (Austria).

- **Dirección de proyectos de investigación**

- "Transporte electrónico e interacción con la luz en nanoestructuras". Entidad financiadora: MCyT (MAT2002-01534). Duración: desde Enero 2003 hasta Diciembre 2005.
- "Surface Plasmon Photonics". Entidad financiadora: UE (STREP-NMP4-CT-2003-505699). Duración: desde Enero 2004 hasta Diciembre 2006.
- "Plasmo-Nano-Devices". Entidad financiadora: UE (NoE-FP6-2002-IST-1-507879). Duración: desde Enero 2004 hasta Diciembre 2007.
- "Fenómenos ópticos basados en modos superficiales y su aplicación en Óptica Atómica". Entidad financiadora: MEC (MAT2005-06608-C02-01). Duración: desde Enero 2006 hasta Diciembre 2008.

- "Plasmon Enhanced Photonics". Entidad financiadora: UE (STREP-NMP4-CT-2005-034506). Duración: desde Septiembre 2006 hasta Agosto 2009.
- "Nanolight.es: Controlling light at the nanoscale". Entidad financiadora: MEC (Proyecto Consolider-2010). Duración desde Enero 2008 hasta Diciembre 2012.
- "Fenómenos físicos basados en modos superficiales". Entidad financiadora: MEC (MAT2008-06609-C02-02). Duración: desde Enero 2009 hasta Diciembre 2011.
- "Fenómenos cuánticos y no-lineales en Plasmónica". Entidad financiadora: Ministerio de Economía y Competitividad (MAT2011-28581-C02-01). Duración: desde Enero 2012 hasta Diciembre 2014.
- "PLASMONANOQUANTA". Entidad financiadora: ERC Advanced Grant. Duración: desde Abril 2012 hasta Marzo 2017.
- "Fenómenos cuánticos en Plasmónica". Entidad financiadora: Ministerio de Economía y Competitividad (MAT2014-53432-C5-5-R). Duración: desde Enero 2015 hasta Diciembre 2018.
- "Towards Room Temperature Quantum Technologies". Entidad Financiadora: UE (QuantERA-NET). Duración: desde Abril 2018 hasta Marzo 2021.

- **Organización de conferencias y congresos**

- 1st International Conference on Surface Plasmon Photonics (SPP1), Granada (España), Septiembre 2003.
- MRS-Fall Symposium W Engineered Porosity for Microphotonics and Plasmonics, Boston (USA), Diciembre 2003.
- XIV International Summer School "Nicolás Cabrera": Nanophotonics and Optics, Madrid (España), Septiembre 2007.
- 9th International Conference on Photonic and Electromagnetic Crystal Structures (PECS-IX), Granada (España), Septiembre 2010.
- Workshop on Quantum Plasmonics, Benasque (España), Marzo 2015.
- 1st Workshop on Strong Coupling with Organic Molecules (SCOM16), San Sebastián (España), Octubre 2016.
- Workshop on Quantum Nanophotonics, Benasque (España), Febrero 2017.
- 2nd Workshop on Strong Coupling with Organic Molecules (SCOM18), Eindhoven (Holanda), Abril 2018.
- XXV International Summer School "Nicolás Cabrera": Manipulating light and matter at the nanoscale. Miraflores de la Sierra (España), Septiembre 2018.
- Workshop on Quantum Nanophotonics, Benasque (España), Marzo 2019.
- Workshop on Quantum Nanophotonics, Benasque (España), Marzo 2021.
- 3rd Workshop on Strong Coupling with Organic Molecules (SCOM21), Goteborg (Suecia), Abril 2021.

- **Evaluable en revistas**

- Evaluador de las revistas internacionales más prestigiosas en el área de Física, Óptica y Fotónica. Una lista parcial incluye Nature, Science, Nature Materials, Nature Physics, Nature Photonics, Nature Nanotechnology, Nature Communications, Physical Review Letters, Physical Review, Nano Letters, Applied Physics Letters, Optics Letters y Optics Express.

- **Actividades editoriales**
  - Miembro del consejo editorial de la revista "New Journal of Physics", desde Enero de 2009 hasta Diciembre 2013.
  - "Divisional Associate Editor (DAE)" de la revista "Physical Review Letters" desde Marzo de 2017 hasta ahora.
- **Charlas invitadas y plenarias**
  - Más de 100 charlas invitadas o plenarias en las conferencias y congresos más importantes dedicados a la Nanofotónica, Plasmónica y los Metamateriales
- **Distinciones**
  - El profesor García Vidal ha sido incluido cinco veces en la lista de los investigadores en Física más citados ("Highly Cited Researchers") en los años 2014, 2015, 2017, 2019 y 2020.
  - Fellow de Optical Society of America (2020).
  - Premio Jaume I en su modalidad de Investigación Básica (2020).
  - Nombrado como "Outstanding Referee" de la American Physical Society (2021).

## Publicaciones

- **274** artículos publicados en revistas con evaluadores.
- **Citas totales** (ISI Web of Knowledge): **27.435**. Índice-H: **77**
- **Citas totales** (ISI Web of Knowledge): **28.945**. Índice-H: **79**
- **Citas totales** (Google Scholar): **37.377**. Índice-H: **90**

### Lista de publicaciones:

1. F.J. Garcia-Vidal, A. Martin-Rodero y F. Flores, "An ab-initio molecular orbital theory for chemisorption: H on metals", Surf. Sci. **251/252**, 861 (1991).
2. F.J. Garcia-Vidal, A. Martin-Rodero, F. Flores, J. Ortega y R. Perez, "Molecular orbital theory for chemisorption: the case of H on normal metals", Phys. Rev. B **44**, 11412 (1991).
3. J. Ortega, R. Perez, F.J. Garcia-Vidal y F. Flores, "Low coverage deposition of alkali metals on GaAs (110)", Appl. Surf. Sci. **56-58**, 264 (1992).
4. R. Perez, J. Ortega, F.J. Garcia-Vidal y F. Flores, "GaP-Si band-offset modification due to intralayer deposition", Appl. Surf. Sci. **56-58**, 756 (1992).
5. J. Ortega, R. Rincon, R. Perez, F.J. Garcia-Vidal y F. Flores, "Schottky barrier formation: Al deposition on GaAs(110)", Appl. Surf. Sci. **60/61**, 736 (1992).
6. J. Ortega, F.J. Garcia-Vidal, R. Perez, R. Rincon, F. Flores, C. Coluzza, F. Gozzo, G. Margaritondo, Y. Hwu, L. Lozzi y S. La Rosa, "Early stages of Schottky barrier formation for Al deposited on GaAs (110)", Phys. Rev. B **46**, 10277 (1992).
7. J. Ortega, F.J. Garcia-Vidal, R. Perez, R. Rincon y F. Flores, "Chemisorption of metals or electronegative atoms on GaAs", Phys. Scr. **45**, 277 (1992).
8. J. Ortega, R. Rincon, F.J. Garcia-Vidal y F. Flores, "Schottky barrier formation for In deposited on GaAs(110): the low coverage limit", Appl. Surf. Sci. **65/66**, 766 (1993).
9. F. Flores, R. Rincon, J. Ortega, F.J. Garcia-Vidal y R. Perez, "Schottky barrier formation in the low metal coverage limit", Prog. Surf. Sci. **42**, 281 (1993).
10. F. Flores, R. Saiz-Pardo, R. Rincon, J. Ortega, R. Perez y F.J. Garcia-Vidal, "The interaction of atoms with semiconductor surfaces: the case of Sb on GaAs (110)", J. Phys. Cond. Matt. **5**, A41 (1993).

11. A. Martin-Rodero, F.J. Garcia-Vidal y A. Levy-Yeyati, "Microscopic Theory of Josephson Mesoscopic Constrictions", *Phys. Rev. Lett.* **72**, 554 (1994).
12. F. Flores, F.J. Garcia-Vidal, J. Ortega y R. Perez, "Chemisorption at metal and semiconductor surfaces", *Philosophical Magazine* **69**, 931 (1994).
13. A. Martin-Rodero, F.J. Garcia-Vidal y A. Levy-Yeyati, "Self-consistent theory for the d.c. Josephson effect in a superconducting STM junction", *Surf. Sci.* **307/309**, 973 (1994).
14. R. Perez, F.J. Garcia-Vidal, P. L. de Andres y F. Flores, "Adsorption of Xenon on metals: a theoretical analysis", *Surf. Sci.* **307/309**, 704 (1994).
15. F.J. Garcia-Vidal, J. Merino, R. Perez, R. Rincon, J. Ortega y F. Flores, "Density Functional approach to LCAO methods", *Phys. Rev. B* **50**, 10537 (1994).
16. A. Levy Yeyati, A. Martin-Rodero y F.J. Garcia-Vidal, "Self-consistent theory of superconducting mesoscopic weak links", *Phys. Rev. B* **51**, 3743 (1995).
17. F. Flores, P. L. de Andres, F.J. Garcia-Vidal, L. Jurczyszyn, N. Mingo y R. Perez, "Adsorption of noble gases on metal surfaces and the Scanning Tunneling Microscope", *Prog. Surf. Sci.* **48**, 27 (1995).
18. R. Rincon, F.J. Garcia-Vidal y F. Flores, "Chemisorption of Cl on GaAs: a density functional approach", *Surf. Sci.* **320**, 297 (1995).
19. F.J. Garcia-Vidal y J.B. Pendry, "Electromagnetic interactions with rough metal surfaces.", *Prog. Surf. Sci.* **50**, 55 (1995).
20. F.J. Garcia-Vidal, P.L. de Andres y F. Flores, "Elastic scattering effects and the lateral resolution of BEEM: focusing effects on the Au/Si interface", *Phys. Rev. Lett.* **76**, 807 (1996).
21. A. Martin-Rodero, A. Levy Yeyati y F.J. Garcia-Vidal, "Thermal noise in superconducting point-contacts", *Phys. Rev. B (RC)* **53**, 8891 (1996).
22. R. Rincon, F.J. Garcia-Vidal y F. Flores, "A theoretical analysis of the molecular and dissociative adsorption of water on GaAs(110)", *Appl. Surf. Sci.* **92**, 216 (1996).
23. N. Mingo, L. Jurczyszyn, F.J. Garcia-Vidal, R. Saiz-Pardo, P.L. de Andres, F. Flores, S. Y. Wu y W. More, "Theory of the Scanning Tunneling Microscope: Xe on Ni and Al", *Phys. Rev. B* **54**, 2225 (1996).
24. F.J. Garcia-Vidal y J.B. Pendry, "Collective theory for Surface Enhanced Raman Scattering", *Phys. Rev. Lett.* **77**, 1163 (1996).
25. P.L. de Andres, F.J. Garcia-Vidal, D. Sestovic y F. Flores, "On the theory of lateral resolution of BEEM", *Phys. Scr.* **T66**, 277 (1996).
26. F. Wijnands, J.B. Pendry, P.J. Roberts, F.J. Garcia-Vidal, L. Martin-Moreno y P.M. Bell, "Green's functions for Maxwell's equations: Application to spontaneous emission", *Optical and Quantum Electronics* **29**, 199 (1997).
27. F.J. Garcia-Vidal, J.M. Pitarke y J.B. Pendry, "Effective medium theory of the optical properties of aligned carbon nanotubes", *Phys. Rev. Lett.* **78**, 4289 (1997).
28. P.L. de Andres, K. Reuter, F.J. Garcia-Vidal, D. Sestovic y F. Flores, "A theoretical analysis of BEEM: k-space distributions and spectroscopy", *Appl. Surf. Sci.* **123/124**, 199 (1998).
29. R. Whittle, R. Saiz-Pardo, F.J. Garcia-Vidal y F. Flores, "LCAO calculations of sulphur interlayers on Ge(001) and Si(001)-K interfaces", *Appl. Surf. Sci.* **123/124**, 560 (1998).
30. P.L. de Andres, K. Reuter, F.J. Garcia-Vidal, F. Flores, U. Hohenester y P. Kocevar, "A theoretical analysis of BEEM: band structure effects and attenuation lengths", *Acta Pol. Phys.* **93**, 281 (1998).
31. J.M. Pitarke, F.J. Garcia-Vidal y J.B. Pendry, "Effective electronic response of metallic cylinders", *Phys. Rev. B* **57**, 15261 (1998).

32. T. Lopez-Rios, D. Mendoza, F.J. Garcia-Vidal, J. Sanchez-Dehesa y B. Pannetier, "Surface shape resonances in lamellar metallic gratings", *Phys. Rev. Lett.* **81**, 665 (1998).
33. F.J. Garcia-Vidal, J.M. Pitarke y J.B. Pendry, "Silver filled carbon nanotubes as spectroscopic enhancers", *Phys. Rev. B* **58**, 6783 (1998).
34. K. Reuter, P.L. de Andres, F.J. Garcia-Vidal, F. Flores, D.Sestovic y K.Heinz, "Quantum mechanical analysis of the elastic propagation of electrons in the Au/Si system: application to Ballistic Electron Emission Microscopy", *Phys. Rev. B* **58**, 14036 (1998).
35. K. Reuter, F.J. Garcia-Vidal, P.L. de Andres, F. Flores y K.Heinz, "Ballistic Electron Emission Microscopy on  $\text{CoSi}_2/\text{Si}(111)$  interfaces: band structure induced atomic-scale and role of localized surface states", *Phys. Rev. Lett.* **81**, 4963 (1998).
36. K. Reuter, P.L. de Andres, F.J. Garcia-Vidal, F. Flores, U. Hohenester y P. Kocevar, "Hot electron transport in Ballistic Electron emission Spectroscopy: band structure effects and k-space currents", *Europhys. Lett.* **45**, 181 (1999).
37. R. Saiz-Pardo, R. Perez, F.J. Garcia-Vidal, R. Whittle y F. Flores, "Systematic studies of the Schottky barrier control by pasivating monolayers", *Surf. Sci.* **247**, 26 (1999).
38. L. Martin-Moreno, F.J. Garcia-Vidal y A.M. Somoza, "Self-Assembled Triply Periodic Minimal Surface as moulds for Photonic Band Gap Materials", *Phys. Rev. Lett.* **83**, 73 (1999).
39. J.M. Pitarke, F.J. Garcia-Vidal y J.B. Pendry, "Interface modes of two-dimensional composite structures", *Surf. Sci.* **433/435**, 605 (1999).
40. J.A. Porto, F.J. Garcia-Vidal y J.B. Pendry, "Transmission resonances on metallic gratings with very narrow slits", *Phys. Rev. Lett.* **83**, 2845 (1999).
41. A. Reynolds, F. Lopez-Tejeira, D. Cassagne, F.J. Garcia-Vidal, C. Jouanin y J. Sanchez-Dehesa, "Spectral properties of opal-based photonic crystals with  $\text{SiO}_2$  matrix", *Phys. Rev. B* **60**, 11422 (1999).
42. H. Miguez, A. Blanco, C. Lopez, F. Meseguer, H.M. Yates, M.E. Pemble, F. Lopez-Tejeira, F.J. Garcia-Vidal y J. Sanchez-Dehesa, "Face centered cubic photonic band gap materials based on opal-semiconductor composites", *J. Light. Tech.* **17**, 1975 (1999).
43. F.J. Garcia-Vidal, J. Sanchez-Dehesa, A. Dechelette, E. Bustarret, T. Lopez-Rios, Th. Fournier y B. Pannetier, "Localized surface plasmons in lamellar metallic gratings", *J. Light. Tech.* **17**, 2191 (1999).
44. K. Reuter, U. Hohenester, P.L. de Andres, F.J. Garcia-Vidal, F. Flores, K. Heinz y P. Kocevar, "Electron energy relaxation times from Ballistic Electron emission Spectroscopy", *Phys. Rev. B* **61**, 4522 (2000).
45. K. Reuter, P.L. de Andres, F.J. Garcia-Vidal, D. Sestovic, F. Flores y K. Heinz, "Green's function calculation of Ballistic Electron Emission Microscopy currents (BEEM V2.1)", *Comp. Phys. Comm.* **127**, 327 (2000).
46. K. Reuter, P.L. de Andres, F.J. Garcia-Vidal, F. Flores y K. Heinz, "Electronic surface structure of  $\text{CoSi}_2(111)-(2 \times 1)/\text{Si}(111)$ : implications for Ballistic Electron Emission Microscopy currents", *Appl. Surf. Sci.* **166**, 103 (2000).
47. P. Pou, R. Perez, F. Flores, A. Levy Yeyati, A. Martin-Rodero, J.M. Blanco, F.J. Garcia-Vidal y J. Ortega, "A Local Density approach and quasiparticle levels for generalized Hubbard hamiltonians", *Phys. Rev. B* **62**, 4309 (2000).
48. A.L. Vazquez de Parga, F.J. Garcia-Vidal y R. Miranda, "Detecting Electronic States at Stacking Faults in Magnetic Thin Films by Tunneling Spectroscopy", *Phys. Rev. Lett.* **85**, 4365 (2000).
49. P.L. de Andres, F.J. Garcia-Vidal, K. Reuter y F. Flores, "Theory of Ballistic Electron Emission Microscopy", *Prog. Surf. Sci.* **66**, 3 (2001).

50. J.M. Pitarke y F.J. Garcia-Vidal, "Electronic response of aligned multishell carbon nanotubes", *Phys. Rev. B* **63**, 073404 (2001).
51. L. Martin-Moreno, F.J. Garcia-Vidal, H.J. Lezec, K.M. Pellerin, T. Thio, J.B. Pendry y T.W. Ebbesen, "Theory of extraordinary optical transmission through subwavelength hole arrays", *Phys. Rev. Lett.* **86**, 1114 (2001).
52. F.J. Garcia-Vidal y J.M. Pitarke, "Optical absorption and energy-loss spectra of aligned carbon nanotubes", *Eur. Phys. J. B* **22**, 257 (2001).
53. P.F. de Pablos, F.J. Garcia-Vidal, P.L. de Andres y F. Flores, "A comparison between BEEM currents on Au/Si(111) and Au/Si(100): inelastic and geometrical effects", *Surf. Sci.* **482**, 430 (2001).
54. K. Reuter, P.L. de Andres, F.J. Garcia-Vidal, F. Flores y K. Heinz, "Surface and bulk structure effects on CoSi<sub>2</sub>/Si(111) ballistic electron emission experiments", *Phys. Rev. B* **63**, 205325 (2001).
55. A. Krishnan, T. Thio, T.J. Kim, H.J. Lezec, T.W. Ebbesen, P.A. Wolff, J.B. Pendry, L. Martin-Moreno y F.J. Garcia-Vidal, "Evanescently coupled resonance in surface plasmon enhanced transmission", *Opt. Comm.* **200**, 1 (2001).
56. H.J. Lezec, A. Degiron, E. Devaux, R.A. Linke, L. Martin-Moreno, F.J. Garcia-Vidal y T.W. Ebbesen, "Beaming light from a subwavelength aperture", *Science* **297**, 820 (2002).
57. P.F. de Pablos, F.J. Garcia-Vidal, F. Flores y P.L. de Andres, "Electronic transport on Au/Si structures: electron-electron, electron-phonon, and band structure effects", *Phys. Rev. B* **66**, 075411 (2002).
58. F.J. Garcia-Vidal y L. Martin-Moreno, "Transmission and focusing of light in one-dimensional periodically nanostructured metals", *Phys. Rev. B* **66**, 155412 (2002).
59. L. Martin-Moreno, F.J. Garcia-Vidal, H.J. Lezec, A. Degiron y T.W. Ebbesen, "Theory of highly directional emission from a single subwavelength aperture surrounded by surface corrugations", *Phys. Rev. Lett.* **90**, 167401 (2003).
60. F.J. Garcia-Vidal, H.J. Lezec, T.W. Ebbesen y L. Martin-Moreno, "Multiple paths to enhance optical transmission through a single subwavelength slit", *Phys. Rev. Lett.* **90**, 213901 (2003).
61. F. Ladstadter, P.F. de Pablos, U. Hohenester, P. Puschnig, C. Ambrosch-Draxl, P.L. de Andres, F.J. Garcia-Vidal y F. Flores, "Hot-electron lifetimes in metals: a combined ab-initio calculation and ballistic electron emission spectroscopy results", *Phys. Rev. B* **68**, 085107 (2003).
62. J. Bravo-Abad, F.J. Garcia-Vidal y L. Martin-Moreno, "Wavelength De-Multiplexing properties of a single aperture flanked by periodic arrays of indentations", *Photonics and Nanostructures* **1**, 55 (2003).
63. F.J. Garcia-Vidal, L. Martin-Moreno, H.J. Lezec y T.W. Ebbesen, "Focusing light with a single subwavelength aperture flanked by surface corrugations: a new type of lens", *Appl. Phys. Lett.* **83**, 4500 (2003).
64. F.J. Garcia-Vidal, F. Flores y S.G. Davison, "Propagator theory of quantum-wire transmission", *Prog. Surf. Sci.* **74**, 177 (2003).
65. J. Bravo-Abad, L. Martin-Moreno y F.J. Garcia-Vidal, "Transmission properties of a single metallic slit: from the subwavelength regime to the geometrical-optics limit", *Phys. Rev. E* **69**, 026601 (2004).
66. E. Moreno, F.J. Garcia-Vidal y L. Martin-Moreno, "Enhanced transmission and beaming of light via photonic crystal surface modes", *Phys. Rev. B (RC)* **69**, 121402 (2004).
67. E. Moreno, F.J. Garcia-Vidal, D. Erni, J.I. Cirac y L. Martin-Moreno, "Theory of plasmon-assisted transmission of entangled photons", *Phys. Rev. Lett.* **92**, 236801 (2004).

68. J.A. Porto, L. Martin-Moreno y F.J. Garcia-Vidal, "Optical bistability in subwavelength slit apertures containing nonlinear media", *Phys. Rev. B (RC)* **70**, 081402 (2004).
69. L. Martin-Moreno y F.J. Garcia-Vidal, "Optical transmission through periodically nano-structured metal films", *Advances in Solid State Physics* **44**, 69 (2004).
70. F.J. Garcia-Vidal, "Tiny apertures with a big future.", *Physics World* (**June 2004**), 20 (2004).
71. J.B. Pendry, L. Martin-Moreno y F.J. Garcia-Vidal, "Mimicking surface plasmons with structured surfaces", *Science* **305**, 847 (2004).
72. L. Martin-Moreno y F.J. Garcia-Vidal, "Optical transmission through circular hole arrays in optically thick metal films", *Opt. Express* **12**, 3619 (2004).
73. E. Moreno, L. Martin-Moreno y F.J. Garcia-Vidal, "Efficient coupling of light into and out of a photonic crystal waveguide via surface modes", *Photonics and Nanostructures* **2**, 97 (2004).
74. M. Beruete, M. Sorolla, I. Campillo, J.S. Dolado, L. Martin-Moreno, J. Bravo-Abad y F.J. Garcia-Vidal, "Enhanced millimeter wave transmission through subwavelength hole arrays", *Opt. Lett.* **29**, 2500 (2004).
75. J. Bravo-Abad, F.J. Garcia-Vidal y L. Martin-Moreno, "Resonant transmission of light through finite chains of subwavelength holes in a metallic film", *Phys. Rev. Lett.* **93**, 227401 (2004).
76. F.J. Garcia-Vidal, L. Martin-Moreno y J.B. Pendry, "Surfaces with holes in them: new plasmonic metamaterials", *J. Opt. A: Pure Appl. Opt.* **7**, S97 (2005).
77. M. Beruete, M. Sorolla, I. Campillo, J.S. Dolado, L. Martin-Moreno, J. Bravo-Abad y F.J. Garcia-Vidal, "Enhanced millimeter wave transmission through quasioptical subwavelength perforated plates", *IEEE Trans. on Antennas and Propagation* **53**, 1897 (2005).
78. C. Gomez-Navarro, P.J. de Pablo, J. Gomez-Herrero, B. Biel, F.J. Garcia-Vidal, A. Rubio y F. Flores, "Tuning the conductance of single-walled carbon nanotubes by ion irradiation in the Anderson localization regime", *Nature Materials* **4**, 534 (2005).
79. F.J. Garcia-Vidal, E. Moreno, J.A. Porto y L. Martin-Moreno, "Transmission of light through a single rectangular hole", *Phys. Rev. Lett.* **95**, 103901 (2005).
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