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Work Phone: +34 91 497 3295 Work Email: jorge.bravo@uam.es Website: Click Here

JORGE BRAVO-ABAD Associate Professor
Nanophotonics Group

Work Module 5, Office 603, 6th floor.

Biographical Info

2016-Associate Professor at UAM.
2010-2016 Ramon y Cajal Fellow at UAM.
2007-2010 Postdoctoral Fellow at MIT.
2006 PhD in Physics from UAM.
2001 Physics degree from UAM.

Honors and Awards

TR35 Award of MIT Technology Review: one of top 10 Spanish innovators under the age of 35 (2013).

Research Interests

Nanophotonics.
Plasmonics.
Metamaterials.

Relevant/Recent Publications

Intermittent chaos for an ergodic light trapping in a photonic fiber plate, M. Mariano, G. Kozyreff, L.G. Gerling, P. Romero-Gomez, J. Puigdollers, J. Bravo-Abad and J. Martorell, Light: Science and Applications (Nature Group) 5, e16216 (2016).
Plasmon-assisted Nd3+ based solid-state nanolaser, P. Molina, E. Yraola, M.O. Ramirez, C. Tserkezis, J.L. Plaza, J. Aizpurua, J. Bravo-Abad, and L.E. Bausa, Nano Letters 16, 895 (2016).
Disorder sets light straight, J. Bravo-Abad, Nature Physics (News & Views) 11, 213 (2015).
Weyl points in photonic-crystal superlattices, J. Bravo-Abad, L. Lu, L. Fu, H. Buljan,

and M. Soljacic, 2D Materials 2, 034013 (2015).
Quantum emitters near a metal nanoparticle: strong coupling and quenching, A. Delga, J. Feist, J. Bravo-Abad, and F.J. Garcia-Vidal, Physical Review Letters 112, 253601 (2014).
Second-harmonic generation using 4-quasi-phasematching in a GaAs whispering-gallery-mode microcavity, P.S. Kuo, J. Bravo-Abad, and G.S. Solomon, Nature Communications 5, 3109 (2014).
Enabling single-mode behavior over large areas with photonic Dirac cones, J. Bravo-Abad, J. D. Joannopoulos and M. Soljacic, PNAS 109, 9761 (2012).
Controlling terahertz radiation with nanoscale metal barriers embedded in nano slot antennas, H. R. Park, Y. M. Bahk, K. J. Ahn, Q. H. Park, D. S. Kim, L. Martin-Moreno, F.J. Garcia-Vidal, and J. Bravo-Abad, ACS Nano 5, 8340 (2011).
Theory of extraordinary transmission of light through quasiperiodic arrays of subwavelength holes, J. Bravo-Abad, A.I. Fernandez-Dominguez, F.J. Garcia-Vidal, and L. Martin-Moreno, Physical Review Letters 99, 203905 (2007).
How light emerges from an illuminated array of subwavelength holes, J. Bravo-Abad, A. Degiron, F. Przybilla, C. Genet, F.J. Garcia-Vidal, L. Martin-Moreno, and T.W. Ebbesen, Nature Physics 2, 120 (2006).