

## Dr. Andreas Kaidatzis

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### PROFESSIONAL EXPERIENCE

- 12/2020 – today** Principal Investigator, Science for Peace and Security Programme Multi-Year Project "Spintronic Devices for Microwave Detection and Energy Harvesting Applications" (G5792)
- 5/2013 – today** Research Associate, Institute of Nanoscience and Nanotechnology (NCSR "Demokritos"), Aghia Paraskevi, Athens, GREECE  
12/2019 – today: Contract researcher in the framework of the H2020-ERA-NET-Nano4CSP project [nano4csp.cyi.ac.cy/](http://nano4csp.cyi.ac.cy/)  
4/2016 – 9/2019: Contract researcher in the framework of the H2020-NOVAMAG project [www.novamag.eu](http://www.novamag.eu)  
5/2013 – 3/2016: Contract researcher in the framework of the FP7-SPOT project [www.spot-research.eu](http://www.spot-research.eu)
- 5/2011 – 4/2013** Postdoctoral Researcher, Instituto de Microelectronica de Madrid (CNM – CSIC), Tres Cantos, Madrid, SPAIN  
Individual Marie-Curie Fellowship (FP7-PEOPLE-2010-IEF-272470)
- 10/2010 – 3/2011** Postdoctoral Researcher, Institute of Microelectronics (NCSR "Demokritos"), Aghia Paraskevi, Athens, GREECE  
Contract researcher in the framework of the FP7-SE2A project.
- 2/2009 – 1/2010** Military service, GREECE

## EDUCATION

- 10/2005 – 11/2008** Doctoral diploma, Physics, Laboratoire de Physique des Solides, Université Paris Sud 11 and CNRS, Orsay, FRANCE.  
Dissertation title: “*Spin-dependent hot electron transport and nanoscale magnetic imaging of metal/Si structures*”. Defended: 28 October 2008.  
Mention: Very Honorable. Thesis director: Dr. André Thiaville. Manuscript available on-line at: <http://tel.archives-ouvertes.fr/tel-00354769/en/>  
Marie Curie Host Fellowship (FP6-MOBILITY-514307 )
- 10/2003 – 7/2005** Masters' diploma, Physics and Technology of Materials, Aristotle University of Thessaloniki, GREECE (Grade: 8.7/10).  
Masters' thesis title: “Study of the glass transition and crystallization kinetics of the  $K_xRb_{1-x}Sb_5S_8$  ( $x = 0.25, 0.50, 0.75$ ) chalcogenide glasses through thermal analysis techniques”.
- 9/1998 – 9/2003** First degree, Physics, Aristotle University of Thessaloniki, GREECE (Grade: 7.1/10).

## PARTICIPATION IN FUNDED RESEARCH PROJECTS

1. “Nanomaterials for reduced maintenance costs in concentrated solar power plants”, project duration 01-12-2019 to 30-09-2021, H2020-Cofund-ERA-NET-786483 (Nano4CSP), <https://nano4csp.cyi.ac.cy/>
2. “NOVel, critical materials free, high Anisotropy phases for permanent MAGnets, by design”, project duration from 01-04-2016 to 30-09-2019, H2020-NMP-686056 (NOVAMAG), [http://cordis.europa.eu/project/rcn/200819\\_en.html](http://cordis.europa.eu/project/rcn/200819_en.html)
3. “Spin Orbit Torque memory for cache & Multicore processor applications”, project duration from 01-10-2012 to 31-03-2016, FP7-ICT-318144 (SPOT), [http://cordis.europa.eu/project/rcn/105014\\_en.html](http://cordis.europa.eu/project/rcn/105014_en.html)
4. “Magnetic Antidots”, project duration from 01-01-2014 to 31-12-2015, CSIC i-LINK-0783, <http://www.csic.es/i-link>
5. “Imaging the Plasmonic Activity of Magnetic Nanostructures”, project duration from 01-05-2011 to 30-04-2013, FP7-PEOPLE-272470 (IPMAGNA), [http://cordis.europa.eu/project/rcn/98200\\_en.html](http://cordis.europa.eu/project/rcn/98200_en.html)
6. “Nanoelectronics for Safe, Fuel Efficient and Environment Friendly Automotive Solutions”, project duration from 01-01-2009 to 01-12-2011, FP7-JU-ENIAC-2008-120009 (SE2A), [http://cordis.europa.eu/project/rcn/201934\\_en.html](http://cordis.europa.eu/project/rcn/201934_en.html)

## SELECTED PUBLICATIONS IN PEER-REVIEWED JOURNALS

A. Kaidatzis, R. P. del Real, R. Alvaro, D. Niarchos, M. Vázquez, J. M. García-Martín. “Nanopatterned hard/soft bilayer magnetic antidot arrays with long-range periodicity”. *J. Magn. Magn. Mat.* **498**, 166142 (2020) [10.1016/j.jmmm.2019.166142](https://doi.org/10.1016/j.jmmm.2019.166142)

A. Kaidatzis, G. Giannopoulos, G. Varvaro, G. Dimitrakopoulos, V. Psycharis, J. M. Garcia Martin, A. M. Testa, G. Barucca, Th. Karakostas, Ph. Komninou and D. Niarchos. “Investigation of magnetic coupling in FePt/spacer/FePt trilayers”. *J. Phys. D: Appl. Phys.* **50**, 445002 (2017) [10.1088/1361-6463/aa8c3b](https://doi.org/10.1088/1361-6463/aa8c3b)

A. Kaidatzis, C. Bran, V. Psycharis, M. Vázquez, J. M. García-Martín, and Dimitrios Niarchos. “Tailoring the magnetic anisotropy of CoFeB/MgO stacks onto W with a Ta buffer layer”. *Appl. Phys. Lett.* **106**, 262401 (2015). [10.1063/1.4923272](https://doi.org/10.1063/1.4923272)

A. Kaidatzis and J. M. García-Martín “Torsional Resonance mode Magnetic Force Microscopy: Enabling higher lateral resolution magnetic imaging without topography-related effects”. *Nanotechnology* **24**, 165704 (2013). [10.1088/0957-4484/24/16/165704](https://doi.org/10.1088/0957-4484/24/16/165704)

A. Kaidatzis, S. Rohart, A. Thiaville and J. Miltat. “Hot electron transport and a quantitative study of ballistic electron magnetic imaging on Co/Cu multilayers”. *Phys. Rev. B* **78**, 174426 (2008). [10.1103/PhysRevB.78.174426](https://doi.org/10.1103/PhysRevB.78.174426)