

Short CV

Name	Christoforos Gravalidis
<i>Position</i>	Laboratory Teaching Staff
<i>Studies</i>	1994-1999 Physics Department, University of Crete 1999-2002 MSc Degree, Physics Department, AUTH 2002-2006 PhD, Physics Department, AUTH <i>Title "Nanostructures and Interfaces of Organic and Inorganic Materials and Processes"</i> <i>Supervisor: Prof. S. Logothetidis</i>
<i>Scientific expertise</i>	<ul style="list-style-type: none"> • Growth of Nanostructures by Physical Phase Deposition • Inorganic Nanoparticles (Ag, ZnO) synthesis and coating by wet methods spin-coating, spray coating, gravure & slot-die printing • X-Rays Characterization of Materials • Development of Mathematica code for data analysis • <input type="checkbox"/> Design of nanocoating systems
<i>Research activities</i>	<p>National Projects</p> <ol style="list-style-type: none"> 1. SINERGASIES Project (2011) "Development of Integrated Flexible Textile & Electronic Products (Yfatronic)" 2. SINERGASIES Project (2011) "Development of Nanostructured Organic & Inorganic Materials and Thin Films for the Production of Organic Electronic Devices (NanOrganic)" 3. SYNERGASIA 2011 GR-Light - Green/k Sustainable Lighting 4. NSRF 2014-2020 project (2018-2021) "Semitransparent Organic and Printed Photovoltaics for Energy Efficient Mediterranean Greenhouses" <p>European Projects</p> <ol style="list-style-type: none"> 1. "Transparent Films Vacuum Coatings Machine with Integrated In-line Monitoring and Control (TransMach)" GROWTH, Proj. No. GRD1-2000-25437 (2/2001-12/2003), 2. PolyNET - Network of Excellence for the exploitation of organic and large area electronics "NoE-PolyNET" FP7 Network of Excellence (01/2008 – 12/2010), 3. FlexNet- Network of Excellence for building up Knowledge for improved Systems integration for Flexible Organic and Large Area Electronics (FOLAE) and its exploitation 65574/01-12-2009 FP7 Network of Excellence (01/01/2010 - 31/12/2012) (http://www.noe-flexnet.eu) 4. "Development and integration of processes & technologies for the production of Organic Low-cost & large-Area flexible Electronics" (OLATronics) FP7 STREP, (01/2008 – 12/2010), (http://www.olatronics.org) 5. COLAE- Commercialization Clusters of OLAE FP7-CSA (01/09/2011 - 31/08/2014) (http://www.colae.eu) 6. "Reinforce organic electronics research potential in Kentriki Makedonia" (RoleMak) FP7-REGPOT-2011-1/286022 (09/2011 – 08/2014), (http://www.rolemak.eu) 7. Development of smart machines, tools and processes for

	<p>the precision synthesis of nanomaterials with tailored properties for Organic Electronics (SMARTONICS) FP7-NMP, 310229 (01/2013 – 12/2016), (http://www.smartonics.eu)</p> <ol style="list-style-type: none"> 8. Bringing Innovation by Scaling up nanomaterials and inks for printing (BASMATI), H2020-NMP- (2015-2018) 9. Development and implementation of Grouping and Safe-by-Design approaches within regulatory frameworks (NANOREG II), H2020-NMP-2014, (2015-2018) 10. "SMARTLINE - Smart in-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic Electronics", H2020 - FOF - 08 - 2017, (2017-2020)
<p><i>Five most important publications</i></p>	<ol style="list-style-type: none"> 1. Koutsiaki, C., Kaimakamis, T., Zachariadis, A., Papamichail, A., Kamaraki, C., Fachouri, S., Gravalidis, C., Laskarakis, A., Logothetidis, S. Efficient combination of Roll-to-Roll compatible techniques towards the large area deposition of a polymer dielectric film and the solution-processing of an organic semiconductor for the field-effect transistors fabrication on plastic substrate Organic Electronics 73 (2019) 231-239. 2. Kamaraki, C., Zachariadis, A., Kapnopoulos, C., Mekeridis, E., Gravalidis, C., Laskarakis, A., Logothetidis, S. Efficient flexible printed perovskite solar cells based on lead acetate precursor Solar Energy 176 (2018) 406-411. 3. Kapnopoulos, C., Mekeridis, E.D., Tzounis, L., Polyzoidis, C., Zachariadis, A., Tsimikli, S., Gravalidis, C., Laskarakis, A., Vouroutzis, N., Logothetidis, S. Fully gravure printed organic photovoltaic modules: A straightforward process with a high potential for large scale production Sol. En. Mat. and Solar Cells 144 (2016) 724-731. 4. Tszedel, I., Kucinska, M., Marszalek, T., Rybakiewicz, R., Nosal, A., Jung, J., Gazicki-Lipman, M., Pitsalidis, C., Gravalidis, C., Logothetidis, S., Zagorska, M., Ulanski, J. High-mobility and low turn-on voltage n-channel OTFTs based on a solution-processable derivative of naphthalene bisimide Advanced Functional Materials, 22 (2012) 3840-3844. 5. Kalfagiannis, N., Karagiannidis, P.G., Pitsalidis, C., Panagiotopoulos, N.T., Gravalidis, C., Kassavetis, S., Patsalas, P., Logothetidis, S. Plasmonic silver nanoparticles for improved organic solar cells Sol. En. Mat. and Solar Cells 104 (2012) 165-174.