**Curriculum vitae**

| | |
|---|---|
| Name | Christoforos Gravalidis |
| Position | Laboratory Teaching Staff |
| Studies | 1994-1999 Department of Physics, University of Crete<br>1999-2002 Postgraduate Program "Physics of Materials", Department of Physics, Aristotle University of Thessaloniki<br>2002-2006 Doctoral Degree, Department of Physics, Aristotle University of Thessaloniki<br>Doctoral Thesis Title " Nanostructures - Interfaces & Processes of Organic & Inorganic Materials"<br>Supervisor: Professor Stergios Logothetides |
| Scientific Experience | • Development of nanostructures using Physical Vapor Deposition and Liquid Phase Techniques<br>• Synthesis of inorganic nanoparticles ( Ag , ZnO) and development of coatings using liquid spin - coating , spray techniques coating , gravure & slot - die printing<br>• Structural characterization using X-rays<br>• Code development in Mathematica environment for the analysis of experimental data<br>• Nanocoating deposition systems<br>• Microcontroller programming (ARDUINO) |
| Research Project | • Development of efficient third-generation PV materials and devices to enhance the competitiveness of the productive sector in green energy, TAA , 2023-2025<br>• Center of Excellence for Organic and Printed Electronics and Nanotechnologies, Horizon Europe , 2023-2029<br>• Translucent Organic Photovoltaics Integrated in an Urban Environment, NSRF 2021-2027, OP PKM, 2022-2025<br>• Lead-Free Perovskite Solar Cell Units , NSRF 2014-2020, 2022-2023<br>• Harmonization of European nanoengineering protocols and related data exchange procedures, in representative cases, standardization, interoperability , and data processes, H2020, 2021-2025 |
| Five Major Scientific Publications<br><br>Articles: 36<br>h-index: 15<br>Citations: 1020 | 1. Kapnopoulos C., et al. ”On-the-Fly Short-Pulse R2R Laser Patterning Processes for the Manufacturing of Fully Printed Semitransparent Organic Photovoltaics”, (2022) Materials, 15 (22), art. no. 8218<br>2. Tsikopoulos A., et.al., “ Nanomaterial -Loaded Polymer Coating Prevents the In Vitro Growth of Candida albicans Biofilms on Silicone Biomaterials”, (2023) Antibiotics, 12 (7), art. no. 1103<br>3. Tsikopoulos K., et. Al., "Is sonication superior to dithiothreitol in diagnosis of periprosthetic joint infections? A meta-analysis", (2022) International Orthopaedics, 46 (6), pp. 1215 - 1224<br>4. Tsikopoulos K., et.al., "Is nanomaterial- and vancomycin-loaded polymer coating effective at preventing methicillin-resistant Staphylococcus aureus growth on titanium disks? An in vitro study", (2023) International Orthopaedics, 47 (6), pp. 1415 - 1422<br>5. Koutsiaki C., et.al., “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”, (2019) Organic Electronics, 73, pp. 231 - 239 |