

Website update – ESR-ER presentation template

Marie-Curie Fellow

Name: Manolis

First Name: Georgios

Age: 37

Nationality: Greek

Position (ER/ESR): ESR

Host institution: Vilnius University

Contract duration: 3 years



Short Education Background (10 lines max.)

- Varvakio Model High School (Athens, Greece)
- BSc in Physics (University of Ioannina, Greece)
- MSc in Physics (National Technical University of Athens, Greece)
- PhD candidate (Vilnius University, Lithuania)

Research focus and main activities carried out in the scope of the project (10 lines max.)

- Study of nonequilibrium carrier dynamics in wide excitation and temperature range (from 10 K up to 750 C). The optical pump-probe techniques need to be adopted and optimized for wide band gap material investigation by selecting optical configurations, spectral range for excitation and probing, and detection systems.
- Investigation of optical nonlinearities contributing to material response; these are free carrier and thermal nonlinearities. Here, numerical simulation of processes is foreseen.
- Investigation of differently grown SiC crystals and heterostructures grown by MANSiC partners. Our study will provide photoelectric parameters: as carrier lifetimes, diffusion coefficients, diffusion lengths, recombination velocities, and their correlation with materials quality.

Publications (please specify when the publication has been issued in the scope of the MANSiC project)

- **G. Manolis**, et al, Thin Solid Films 495, 338 (2006)
- **G. Manolis**, K. Jarasiunas, I.G. Galben and D. Chaussende, Materials Sci. Forum Vols. 615-617 (2009) pp 303-306 (MANSiC)