Curriculum Vitae

Name	**Chastas Nikolaos**
Current Position	Academic staff, Department of Physics, AUTH
Education	• PhD, Department of Physics, AUTH (2004) • Msc, Department of Physics, AUTH (2000) • Bachelor, Department of Physics, University of Ioannina (1998)
Research interests	• Electrical characterisation of semiconductor materials and devices • Low frequency noise (LFN) of materials and devices • DC and AC electrical stress of semiconductor devices • Analytical and numerical model development for devices • Fabrication of ultra-thin film superlattice devices based on solution processed semiconducting metal oxides using spin- and spray-coating techniques
Research overview	• 52 papers in peer-review international journals • 43 abstracts in international conference proceedings • h-index: 16 • 562 citations • 9 participations in research projects • Referee in 10 peer-review scientific journals • Marie Curie Individual Fellowship, Imperial College London, UK (9/2015–9/2017)
Five most important publications	**1.** Y-H. Lin, H. Faber, J. Labram, E. Stratakis, L. Sygellou, E. Kymakis, N.A. Hastas, R. Li, K. Zhao, A. Amassian, N.D. Treat, M. McLachlan, T.D. Anthopoulos, "High electron mobility thin-film transistors based on solution-processed semiconducting metal oxide heterojunctions and quasi-superlattices", Advanced Science, 2 (7), 1500058 (2015) **2.** A. Tsormpatzoglou, N.A. Hastas, N. Choi, F. Mahmoudabadi, M.K. Hatalis, C.A. Dimitriadis, "Analytical surface-potential-based drain current model for amorphous IGZO thin film transistors", Journal of Applied Physics, 114 (18), 184502 (2013) **3.** N.G.Semaltianos, S.Logothetidis, N.Hastas, W.Perrie, S.Romani, R.J.Potter, G.Dearden, K.G.Watkins, P.French, M.Sharp, "Modification of the electrical properties of PEDOT:PSS by the incorporation of ZnO nanoparticles synthesized by laser ablation", Chemical Physics Letters 484 (4-6), 283 (2010) **4.** N.A.Hastas, C.A.Dimitriadis, L.Dozsa, E.Gombia, S.Amighetti, and P.Frigeri, "Low frequency noise of GaAs schottky diodes with embedded InAs quantum layer and self-assembled quntum dots", Journal of Applied Physics 93 (7), 3990 (2003) **5.** N.A.Hastas, C.A.Dimitriadis, J.Brini, G.Kamarinos, "Hot-Carrier-Induced degradation in short p-channel nonhydrogenated polysilicon thin-film transistors", IEEE Transactions on Electron Devices 49 (9), 1552 (2002)