A.G. Kontos was born in 1967 and studied Physics in the University of Athens (1985–1989). From 1990 up to 1994, he carried out his PhD research work in the Physics Dept. at the University of Warwick (Coventry UK) on the NMR study of high-Tc superconductors. In 1996-2007, he joined the Raman spectroscopy group in the School of Applied Mathematical and Physical Sciences at the National Technical University of Athens (PD ‘407’), involved in the research of bulk and layered semiconductors, heterojunctions and microelectronic devices. During this period he collaborated with the Institutes of Material Science and Microelectronics at NCSR ‘D’, while his teaching activity involved courses on Electromagnetics, Optics and Experimental Physics at NTUA and the Mechanical Engineering Dept. University of Thessaly as well as the setting up of laboratory experiments in Solid State Physics, Optics and Atomic-Molecular Physics. In 2003-2005, he worked, as a research associate in the ‘Nanotechnology driven photoinduced processes for solar energy conversion and environmental protection’ Lab at the Inst. of Physical Chemistry of NCSR ‘D’ where he became researcher ‘C’ at 2007. Since 2010, he is a researcher ‘B’ at this institute (now division of Physical chemistry in IAMPPNM). His main fields of research are the dye sensitized and perovskite solar cells, photocatalysis and superhydrophilicity of TiO₂ materials as well as CO₂ capture and conversion. His interests include synthesis of TiO₂ in several forms (nanoparticles, nanotubes), its sensitization (dyes and quantum dots) and modification (anion doping, functionalization with metals and carbonaceous materials) as well as structural (Raman spectroscopy), electronic (photoluminescence), optical (UV-visible diffuse reflectance) and morphological (SEM, AFM) characterization of semiconducting nanomaterials, thin films, zeolitic imidazolate frameworks and solar cell devices, with emphasis on optimization of their efficiency and stability.

List of ten selected recent publications


