## **Short CV**

Name	Efstathios K. Polychroniadis
Position	Professor, Department of Physics, AUTH
Studies	<ul> <li>BSc in Physics, Department of Physics, AUTH</li> <li>PhD in Physics, Department of Physics, AUTH</li> <li>Postdoctoral research fellowship, Electron Microscopy Laboratory, Material Science Department, Nuclear Energy Centre SCK/CEN, Belgium (1981-1982)</li> </ul>
Scientific expertise	<ul> <li>Professor, Solid State Physics Section, Department of Physics, AUTH, 2006-today</li> <li>Associate Professor, Solid State Physics Section, Department of Physics, AUTH, 1991-2006</li> <li>Assistant Professor, Solid State Physics Section, Department of Physics, AUTH, 1984-1991</li> <li>Lecturer, Solid State Physics Section, Department of Physics, AUTH, 1982-1984</li> <li>Assistant, 2<sup>nd</sup> Chair of Physics, School of Science, AUTH, 1973-1981</li> </ul>
Research activities	<ul> <li>169 papers in International Refereed Journals</li> <li>49 papers in International Refereed Scientific Conferences</li> <li>117 papers in Local and Bilateral Scientific Conferences</li> <li>9 Books/Book Chapters</li> <li>1900 third-party citations in referred journals</li> <li>14 Invited Lectures</li> <li>Supervision of 9 PhDs</li> <li>17 research projects as coordinator on behalf of AUTH</li> <li>Organization of 10 International Scientific Events (Conferences, Summer Schools)</li> <li>Referee in 12 International Scientific Journals</li> <li>Member of the Editorial Board of the a) Balkan Physics Letters and b) Analele Universitatii "Al. I. Cuza", Iasi, Fizica</li> </ul>
	<ul> <li>Research Topics:</li> <li>Growth and microstructural characterization of crystalline materials by TEM (bulk, thin and thick films, coatings)</li> <li>Study of phase transitions in crystalline and amorphous solids</li> <li>Morphological characterization in micro- and nano-scale, phase identification in composite materials using electron diffraction</li> </ul>
Five most important publications	<ol> <li>Hsu, K.F., Loo, S., Guo, F., Chen, W., Dyck, J.S., Uher, C., Hogan, T., Polychroniadis, E.K., Kanatzidis, M.G., Cubic AgPb<sub>m</sub>SbTe<sub>2+m</sub>: Bulk thermoelectric materials with high figure of merit, <i>Science</i>, 303, 818-821 (2004) (<i>Citations: 1058</i>)</li> <li>Quarez, E., Hsu, K.F., Pcionek, R., Frangis, N., Polychroniadis, E.K., Kanatzidis, M.G., Nanostructuring, compositional fluctuations and atomic ordering in the thermoelectric materials AgPb<sub>m</sub>SbTe<sub>2+m</sub>. The myth of solid solutions, <i>Journal of The American Chemical Society</i>, 127, 9177-90 (2005) (<i>Citations: 171</i>)</li> <li>Miyasaka, M., Makihira, K., Asano, T., Polychroniadis, E., Stoemenos, J., In situ observation of nickel metal-induced lateral crystallization of amorphous silicon thin films, <i>Applied Physics Letters</i>, 80, 944-946 (2002) (<i>Citations: 51</i>)</li> <li>Kelaidopoulou, A., Abelidou, E., Papoutsis, A., Polychroniadis, E.K., Kokkinidis, G., Electrooxidation of ethylene glycol on Pt-based catalysts dispersed in polyaniline, <i>Journal of Applied Electrochemistry</i>, 28, 1101-1106 (1998) (<i>Citations: 49</i>)</li> <li>Polychroniadis, E., Syvajarvi, M., Yakimova, R., Stoemenos, J., Microstructural characterization of very thick freestanding 3C-SiC wafers, <i>Journal of Crystal Growth</i>, 263, 68-75 (2004) (<i>Citations: 47</i>)</li> </ol>