Short Curriculum Vitae: Komninou Philomela	
Current Position:	Professor, Director of the Electron Microscopy and Structural Characterization of Materials Laboratory Department of Physics, Aristotle University of Thessaloniki GR-54124 Thessaloniki, Greece Email: <u>komnhnoy@auth.gr</u> <u>http://www.nmmg.web.auth.gr, http://elmiclab.web.auth.gr</u>
Undergraduate Education:	Diploma in Physics (Department of Physics, Aristotle University of Thessaloniki, 1979)
Post-graduate Education:	Master in Radioelectronics, (Department of Physics, Aristotle University of Thessaloniki, 1982) PhD, (Department of Physics, Aristotle University of Thessaloniki, 1987)
Areas of Interest	<i>Structural, electronic and mechanical properties of materials.</i> Microstructure of nanocrystals, thin films and low-dimensional nanostructured-heterostructures, interfacial and extended defects and their correlation with the electronic and physical properties using analytical and atomic resolution quantitative Transmission Electron Microscopy techniques combined with theoretical modeling.
Bibliometric Data:	 > 220 papers in peer reviewed International Journals 5 invited chapters in international scientific books > 240 participations in National and International Conferences > 2700 Citations, h=25, (Scopus Author ID: 7004203536) 35 invited talks in International Conferences and Workshops Guest editor of 5 international scientific volumes Supervisor of numerous PhD and MSc theses - Author of educational material
National and International Distinctions:	 President of the Hellenic Microscopy Society - a branch of the European Microscopy Society Member of the General Assembly of ELIDEK, AUTH representative Member of International Advisory Board of International Conferences: a) <i>Extended Defects in Semiconductors "EDS"</i>, b) <i>Intergranular and Interphase Boundaries in Materials "iib"</i>c) <i>Defects in Semiconductors "ICDS"</i> Chair of three International Conferences: EDS2012, iib2013 and EDS2018 Member of the organizing and program committees of more than 25 International Conference and Workshops. Referee in more than 20 scientific international journals Evaluator of competitive research projects (National, EU, Foreign Agencies) Member in National and International scientific societies FP6: National delegate in the EC "<i>RESEARCH AND INNOVATION</i>" program committee 2004-2006. FP7: National expert in the "<i>PEOPLE</i>" program committee 2008-2010, and FP7: National delegate in the "<i>Steering Group on Human Recourses and Mobility</i>" 2010 –today Coordination and/or partnership in more than 35 competitive research projects funded by National resources/EC/ESA.

Recent selected publications	 Decorated Dislocations against Phonon Propagation for Thermal Management, S. Giaremis,, Ph. Komninou, K. Termentzidis, ACS Appl. Energy Mater. 3, 3, 2682-2694 (2020) Effects of ultrathin AlN prelayers on the spontaneous growth of GaN nanowires by plasma assisted molecular beam epitaxy Effychis, S.,, Komninou, Ph., Georgakilas, A., J. Cryst. Growth 514 89–97(2019) Compositional and strain analysis of In(Ga)N/GaN short period superlattices, G. P. Dimitrakopulos,Ph. Komninou, J. Appl. Phys., accepted (2018). (highlight article) Structural and electronic properties of a -edge dislocations along d-100w in GaN, Giaremis, S., Komninou, P.et al., J. Appl. Phys.,123, 244301 (2018) (featured article) High quality large area MoSe2 and MoSe2/Bi2Se3 heterostructures on AlN(0001/)Si(111) substrates by molecular beam epitaxy, E. Xenogiannopoulou,, Ph. Komninou, et al., Nanoscale 7, 7896 (2015) Observation of Surface Dirac Cone in High-Quality Ultrathin Epitaxial Bi2Se3 Topological Insulator on AlN(0001) Dielectric P. Tsipas, E. Xenogiannopoulou, S. Kassavetis, D. Tsoutsou, E. Golias, C. Bazioti, G. P. Dimitrakopulos, <u>Ph. Komninou</u>, Hu Liang, M. Caymax, and A. Dimoulas, ACS Nano 8 (7), 6614 (2014) Growth mechanism and microstructure of low defect density InN (0001) In-face thin films on Si (111) substrates, Th. Kehagias, <u>Ph. Komninou</u>, and A. Georgakilas, J. Appl. Phys. 114, 163519 (2013) Nanostructure and strain in InGaN/GaN superlattices grown in GaN nanowires, Th. Kehagias, and <u>Ph. Komninou</u>, Nanotechnology 24, 435702 (2013) (featured article)
Selected Research projects	 2018-2020: "FEG TEM/STEM"- Strengthening research, technological development and innovation – EYDEP, Region of Central Macedonia: "Transmission-scanning/transmission electron microscope with field emission gun electron source" 2018-2021: "EINSTEIN", "Bilateral R&T Cooperation between Greece and Russia" under the Operational Program "Competitiveness, Entrepreneurship and Innovation (EPANEK)":"Experimental and theoretical studies of physical properties of low dimensional quantum nanoelectronic systems" 2018-2021: "INNOVATION-EL", Action "Reinforcement of the Research and Innovation Infrastructure", funded by the Operational Program "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund 2012 – 2015: Thales Program GSRT, "Education and Lifelong Learning", National Strategic Reference Framework, «Spontaneous growth, properties and devices of III-V semiconductor nanowires" 2012 – 2015: Thales Program GSRT, "Education and Lifelong Learning", National Strategic Reference Framework, «High Efficiency III-Nitride Semiconductor Photovoltaic Devices» 2008 – 2011: IST- STREP – GA 224212 "DOTSENSE", «Group III-Nitride quantum Dots as optical transducers for chemical sensors» 2005 – 2009: Coordinator "PARSEM": Marie Curie Research Training Network (MCRTN), Contract MRTN-CT-2004-005583 of the EU, «Interfacial Phenomena at Atomic Resolution and multiscale properties of novel III-V SEMiconductors