

Academic Personnel Short Profile / Short CV

University:	Cyprus University of Technology (CUT)
Surname:	Kelires
Name:	Pantelis
Rank/Position:	Professor, Vice-Rector for Academic Affairs
Faculty:	Engineering and Technology
Department:	Mechanical Engineering & Materials Science Engineering
Scientific Domain: *	Computational Materials Science / Theoretical Condensed Matter Physics

** Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	1987	State University of New York, USA	Physics	
BSc	1981	University of Athens, Greece	Physics	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2007	present	CUT	Limassol, Cyprus	Professor
1989	2009	University of Crete	Heraclion, Crete, Greece	Assistant, Associate & Full Professor
1987	1989	IBM, T.J. Watson R.C.	Yorktown Heights, NY, USA	Post-doctoral fellow

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2018	Hydrogenated amorphous carbon films with embedded metallic (Ag, Ti) nanoparticles: hybrid PECVD/PVD deposition, microstructural characteristics and nanoscratch response	M. Constantinou, P. Nikolaou, L. Koutsokeras, A. Avgeropoulos, D. Moschovas, C. Varotsis, P. Patsalas, G. Constantinides	Nanomaterials	8	209
2	2017	Enhancing the nanoscratch resistance of pulsed laser deposited DLC films through molybdenum doping	M. Constantinou, M. Pervolaraki, L. Koutsokeras, C. Prouskas, P. Patsalas, J. Giapintzakis, G. Constantinides	Surface and Coatings Technology	330	185
3	2020	Temperature dependence of the optical properties of silicon nanocrystals	M. Zacharias	Physical Review B	101	245122
4	2017	Microstructure and nanomechanical properties of pulsed excimer laser deposited DLC:Ag films: Enhanced nanotribological response	M. Constantinou, M. Pervolaraki, C. Prouskas, P. Patsalas, J. Giapintzakis, G. Constantinides	Surface and Coatings Technology	309	320
5	2016	Modeling of three-dimensional nanographene	C. Mathioudakis	Nanoscale Research Letters	11	151
6	1989	Equilibrium alloy properties by direct simulation	J. Tersoff	Physical Review Letters	63	1164
7	2004	Structure and energetics of Si nanocrystals embedded in a-SiO ₂	G. Hadjisavvas	Physical Review Letters	93	226104
8	1994	Elastic properties of amorphous carbon networks		Physical Review Letters	73	2460

9	1995	Monte Carlo studies of ternary semiconductor alloys		Physical Review Letters	75	1114
10	2006	Insights into the Fracture Mechanisms and Strength of Amorphous and Nanocomposite Carbon	M. Fyta, I. Remediakis, D. Papaconstantopoulos	Physical Review Letters	96	185503

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)

Ref. Number	Date	Title	Funded by	Project Role*
1	11/2010 – 06/2015	Research Unit for Nanostructured Materials Systems (New Infrastructure-Strategic Infrastructure Programs)	Research Promotion Foundation (RPF) / Cyprus	Scientific/Project Coordinator
2	8/2011 - 7/2012	Modeling Gas-Phase Transport Processes in Nanostructured Materials Systems	Research Promotion Foundation (RPF) / Cyprus	Scientific/Project Coordinator
3	12/2008 – 12/2011	Theory and Simulations of Si and Ge Nanocrystals in a Dielectric Amorphous Matrix	Research Promotion Foundation (RPF) / Cyprus	Scientific/Project Coordinator
4	1/2007 – 7/2010	Theoretical/Simulation Studies of Novel Carbon Nanostructures	Research Promotion Foundation (RPF) / Cyprus	Scientific/Project Coordinator
5	3/2004 - 8/2007	Theoretical/Computational Study of Nanostructured Carbon Phases, a Multiscale Approach	Ministry of National Education and Religious Affairs, Greece	Scientific/Project Coordinator
6	5/2003 – 5/2006	Theoretical Investigation of Nanostructured Semiconductors by Monte Carlo and <i>ab initio</i> Methods	Ministry of National Education and Religious Affairs, Greece	Scientific/Project Coordinator
7	3/2000 - 3/2004	SiGeC Nanostructures: a New Path to Si-based Optoelectronics	EU / Research Training Network	Scientific Coordinator
8	1/1999 – 12/2001	Calculations of Properties of New Crystalline and Amorphous Materials	General Secretariat for Research and Technology, Greece	Scientific/Project Coordinator
9	11/1993 – 10/1996	Heterostructures on Si for Integrated Optoelectronics	EU / Human Capital and Mobility	Scientific Coordinator

10	9/1992 – 9/1995	Ultrathin Si/Ge Microstructures	EU / ESPRIT Basic Research	Scientific Coordinator
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2016 – present	Scientific Reports / Nature	Editorial Board Member	Handling submitted manuscripts
2	2010-12	Committee for Natural Sciences of the Cyprus Council for the Recognition of Higher Education Qualifications (KY.S.A.T.S.)	Coordinator	Coordinating the committee to examine applications for recognition of foreign degrees / courses
3	2008-2011	NMP (Nanosciences, Nanotechnologies, Materials and new Production Technologies) Committee of the EU-FP7 program	National Representative of Cyprus	Preparing the content of FP7 calls
4	December 2015	Hellenic Quality Assurance and Accreditation Agency (H.Q.A.) of the Hellenic Republic	Committee Member	Accreditation of the Mechanical Engineering Department of TEI Chalkidas / Stereas Elladas
5	1999-2002	Council of the European Organization for	Committee Member	Evaluating proposals for workshops under the auspices of CECAM

		Computational Sciences CECAM (Centre Européen de Calcul Atomique et Moléculaire)		
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2016	Outstanding Referee of the American Physical Society	Lifetime award by the American Physical Society
2	2016	Organizer of Symposium EE "Carbon- or Nitrogen Containing Nanostructured Thin Films", E-MRS Spring Meeting 2016	European Materials Research Society
3	2004	Work of the group on Si nanocrystals given the E-MRS graduate student award (G. Hadjisavvas)	European Materials Research Society
4	1987-89	IBM Research Division post-doctoral fellowship at the world-renowned T. J. Watson Research Center, Yorktown Heights, New York, USA	IBM
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Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref.	Date	Title	Key Activities:

Number			
1	July 3-8, 2016	Stress and Composition of SiGe Nanostructures on Curved Substrates	Invited Talk at the 6 th NANOSEA International Conference, Sicily (Italy)
2	May 2012	Atomistic Simulations of Nanostructured and Nanocomposite Carbon Films	Invited Talk at the E-MRS Spring Meeting, Strasbourg (France)
3	May 2-6, 2011	Suppression of Intermixing in Strain-Relaxed Epitaxial Layers	Invited Talk at the International Conference on Metallurgical Coatings and Thin Films, San Diego, California (USA)
4	September 26-29, 2010	Modelling Nanostructured Materials Systems	Plenary Talk at the XXVI Panhellenic Conference on "Solid State Physics and Materials Science", Ioannina (Greece)
5	July 16-18, 2007	Modelling of Ultra-Nanocrystalline Diamond	Invited Talk at the 4th International Conference on "Nanosciences & Nanotechnologies - NN07", Thessaloniki (Greece)
6	March 2005	Simulations of Stress and Composition in Ge/Si Quantum Dots	Invited Talk at the March Meeting of the American Physical Society, Los Angeles (USA)
7	May 2004	Monte Carlo Simulations of Si Nanocrystals in Amorphous Silicon Dioxide	Invited Talk at the E-MRS Spring Meeting, Strasbourg (France)
8	November 1998	Monte Carlo Simulations of Highly Strained Semiconductor Alloys	Invited Talk at the Materials Research Society Fall Meeting, Boston (USA)
9	August 1990	Segregation and Ordering at the SiGe(100) Surface	Invited Talk at the 20 th International Conference on the Physics of Semiconductors, Thessaloniki (Greece)
10	March 1989	Native Defects and Glassy Properties of Amorphous Silicon	Invited Talk at the March Meeting of the American Physical Society, St. Louis (USA)