

Academic Personnel Short Profile / Short CV

University:	Cyprus University of Technology
Surname:	Constantinides
Name:	Georgios
Rank:	Associate Professor
Faculty:	Engineering and Technology
Department:	Mechanical Engineering and Materials Science and Engineering
Scientific Domain: *	Mechanics of Materials and Structures

** Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD	2006	MIT	Civil and Environmental Engineering	Invariant mechanical properties of calcium-silicate-hydrates (CSH) in cement-based materials: instrumented nanoindentation and microporomechanical modeling
MSc	2002	MIT	Civil and Environmental Engineering	The elastic properties of calcium leached cement pastes and mortars: a multi-scale investigation
BEng	2000	UCL	Civil and Environmental Engineering	Use of dielectric properties of concrete for detecting setting process

Employment history – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2019	to date	CUT	Limassol, Cyprus	Associate Professor
2012	2019	CUT	Limassol, Cyprus	Assistant Professor
2008	2012	CUT	Limassol, Cyprus	Lecturer
2006	2008	MIT	Cambridge, MA, USA	Post-doctorate Associate

Key <u>refereed</u> 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	2020	Anaerobic granular sludge and zero valent scrap iron (ZVSI) pre-treated with green tea as a sustainable system for conversion of CO ₂ to CH ₄	Karolina Kristia Menikea, Anthi Kyprianou, Charis G. Samanides, Sofia G. Georgiou, Loukas Koutsokeras, Georgios Constantinides, Ioannis Vyrides	Journal of Cleaner Production, Elsevier	N/A	N/A
2	2020	Synthesis and characterization of hydrogenated diamond like carbon (HDLC) nanocomposite films with metal (Ag, Cu) nanoparticles	Loukas Koutsokeras, Marios Constantinou, Petros Nikolaou, Georgios Constantinides, and Pantelis Kelires	Materials, MDPI	13(7)	1753
3	2020	Enhancing ethanol production and thermotolerance in <i>Saccharomyces cerevisiae</i> via cell immobilization on biochar: Application in a	Maria Kyriakou, Maria Patsalou, Nikolas Xiaris, Athanasios Tsevis, Loukas Koutsokeras, Georgios Constantinides, Michalis Koutinas	Renewable Energy, Elsevier	155)	53-64

		citrus peel waste biorefinery				
4	2020	Methanogenesis inhibition in anaerobic granular sludge for the generation of Volatile Fatty Acids from CO ₂ and Zero Valent Iron	Charis G. Samanides, Loukas Koutsokeras, Georgios Constantinides, and Ioannis Vyrides	Frontiers in Energy, Frontiers	8	37
5	2020	Thermoelectric and Mechanical Properties of Mg ₂ (Si,Sn,Ge) Materials Made Using Si-kerf Wasted from Photovoltaic Technology	G. Mesaritis, E. Symeou, A. Delimitis, M. Constantinou, G. Constantinides, M. Jeagle, K. Tarantik, Th. Kyratsi	Journal of Alloys and Compounds, Elsevier	826	153933
6	2017	Microstructure and nanomechanical properties of pulsed excimer laser deposited DLC:Ag films: enhanced nanotribological response	M. Constantinou, M. Pervolaraki, P. Nikolaou, C. Prouskas, P. Patsalas, P.C. Kelires, J. Giapintzakis, G. Constantinides	Surface and Coatings Technology, Elsevier	309	320–330
7	2016	Microstructure and nanomechanical properties of magnetron sputtered Ti–Nb films	D. Photiou, N.T. Panagiotopoulos, L. Koutsokeras, G.A. Evangelakis, G. Constantinides	Surface and Coatings Technology, Elsevier	302	310–319
8	2016	Double–networks Based on Amphiphilic Cross–linked Star Block Copolymer First Co–networks and Randomly Cross–linked Hydrophilic Second Networks	M. Rikkou–Kalourkoti, E. N. Kitiri, E. Leontidis, C. S. Patrickios, G. Constantinides, X. Zhang, C. M. Papadakis and J. P. Gong	Macromolecules, ACS	49(5)	1731–1742
9	2016	On the elastic conical indentation response of auxetic materials: effects of Poisson’s ratio, contact friction and cone angle	D. Photiou, N. Prastiti, E. Sarris, G. Constantinides	International Journal of Solids and Structures, Elsevier	81(1)	33–42
10	2007	The nanogranular nature of C–S–H	G. Constantinides, F.–J. Ulm	Journal of the Mechanics and	55(1)	64–90

**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	2018-2021	Utilization of CO ₂ through novel BioElectroCathode systems for production of biofuels (CH ₄ and ethanol)	M-ERA.NET	Research Team Member
2	2019-2021	Nano-Enabling of Carbon Fibre Reinforced Composites for Improving “Through Thickness” Electrical Conductivity	RPF	Research Team Member
3	2019-2021	PROState cancer ablation with a 4D robotic system using thermal ultraSONIC waves under MRI guidance.	RPF	Research Team Member
4	2019-2021	MRI-guided Focused UltraSound ROBOTtic system for preclinical research	RPF	Research Team Member
5	2011-2012	Modeling gas–phase transport processes in nanostructured materials systems	RPF	Research Team Member
6	2010-2015	Research Unit for Nanostructured Materials Systems	RPF & ESF	Research Team Member
7	2008-2011	Design, modeling and development of ultraperformant nanostructured multimaterials by combining ceramics and metals with carbons	CUT	Research Team Member
8	2008-2011	Functional metal oxides for hybrid optoelectronic devices	CUT	Research Team Member
9	2004	Instrumentation grant: Nanoindenter with controlled humidity–temperature chamber	MIT School of Engineering and CEE Department	Researcher

10	2002-2003	Multi-scale investigation of the anisotropy of shale elasticity	Chevron Texaco Exploration and Production Technology	Researcher
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**Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.
List the five (5) more recent**

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2017-present	(NMBP) Programme Committee, Horizon 2020, European Commission	National Expert Representative	National expert representative in the 'Nanotechnologies, Advanced materials, Biotechnology, Advanced manufacturing and processing'
2	2017-present	KYSATS	Independent Evaluator	Independent evaluations for the discipline of Mechanical Engineering for the Cyprus Recognition of Higher Education Qualifications
3	2014	Ministry of Education and Culture	Chairman of a visiting team of experts	Evaluated 2 Programs of Tertiary Education, Council of Education Evaluation–Accreditation
4	2014-present	Cyprus Organization for Standardization	Member	Member of the National Technical committee CYS/TE 20 (CEN/TC 33) Doors, windows, shutters, building hardware and curtain walling
5	2014	Twelfth International Conference on Computational Structures Technology (CST2014), 2–5 September 2014, Naples, Italy.	Editorial Board Member	Promotion of conference, paper reviewing, topic suggestion, etc.

**Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected.
(max total 10)**

Ref. Number	Date	Title	Awarded by:
1	2002	Scholarship	National Scholarship Foundation of Cyprus
2	2002	Marvin E. Goody Award	MIT
3	2001	Associate member	Sigma-Chi, The Scientific Research Society
4	2000	Presidential Fellow	MIT
5	2000	Rosenblith Fellow	MIT
6	2000	Dean's List	UCL
7	2000	Sandberg Challenge Trophy	Sandberg
8	2000	L.F. Vernon–Harcourt Prize	UCL
9	1997-2000	UCL Pathfinder Scholarship	Commonwealth
10	1997-2000	Goldsmid Prize	UCL

**Other Achievements. List the five (5) more recent and other five (5) selected.
(max total 10)**

Ref. Number	Date	Title	Key Activities:
1	2010-present	Research Unit for Nanostructured Materials Systems	Co-founder, Head of Nanoscale Characterization Pillar
2	2009	Micro/Nano-Mechanics of Materials Lab	Founder, Director
3	2019	Austrian Science Foundation	Reviewer
4	2016	France Science Foundation	Reviewer
5	2012	Czech Science Foundation	Reviewer
6	2009	Government of Canada	Reviewer
7	2018	Thirteenth International Conference on Computational Structures Technology (CST2018), Sitges, Barcelona, Spain, 4–6 September 2018.	Editorial Board Member
8	2015	The Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing: Civil–Comp 2015 (CC2015), 1–4 September 2015, Prague, Czech Republic.	Editorial Board Member
9	2018	CAA-GR, 3rd Conference on Computer Applications and Quantitative Methods in Archaeology, 18-20 June 2018, Limassol, Cyprus.	Scientific Advisory Committee Member
10	2015	NICOM5, 5th International Conference on Nanotechnology in Construction, 24–26 May, 2015, Chicago, USA.	Scientific Advisory Committee Member