

Academic Personnel Short Profile

University:	Frederick University
Surname:	Leontiou
Name:	Theodoros
Rank:	Associate Professor
School:	Engineering
Department:	Mechanical Engineering
Scientific Domain:	Classical and Modern Physics – Specialization : Computational Physics Application in Lattice QCD And Monte Carlo Methods

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD in Physics	2004	UMIST (Manchester)	Physics	Translationally Invariant Treatment of Light Nuclei
BSc in Physics (First Class)	2000	UMIST (Manchester)	Physics	

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

Period of employment		Employer	Location	Position
<i>From</i>	<i>To</i>			
2010	Present	Frederick University	Cyprus	Associate Professor
2007	2010	Cyprus University of Technology	Cyprus	Special Teaching Staff
2004	2006	University of Cyprus	Cyprus	Postdoctoral Research 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 / Conference/ Publisher	Vol.	Pages
1	2024	Shallow bound states and hints for broad resonances with quark content bbud in B-D and B*-D scattering from lattice QCD	C. Alexandrou, J. Finkenrath, S. Meinel, M. Pflaumer and M. Wagner	Accepted in Phys. Rev. Lett.		
2	2024	Elastic Nucleon-Pion scattering amplitudes in the Δ channel at physical pion mass from Lattice QCD	C. Alexandrou, S. Bacchio, G. Koutsou, S. Paul, M. Petschlies and F. Pittler	Phys. Rev. D	109	034509
3	2023	Occurrence features of intermediate descending layer and Sporadic E observed over the higher mid-latitude ionospheric station of Moscow	C. Oikonomou, H. Haralambous, T L Gulyaeva, V A Panchenko	Earth Planets Space	75	39
4	2021	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point	C. Alexandrou, S. Bacchio, M. Constantinou, P. Dimopoulos, J. Finkenrath, K. Hadjiyiannakou, K. Jansen, G. Koutsou, B. Kostrzewa, C. Urbach	Phys. Rev. D	103	034509
5	2020	Tetraquark interpolating fields in a lattice QCD investigation of the D^*s_0 (2317) meson	C. Alexandrou, J Berlin, J. Finkenrath, M. Wagner	Phys. Rev. D	101	034502

6	2016	Heat transfer enhancement of a periodic array of isothermal pipes	M. Ikram, K. Beketayev, M. Fyrilla	International Journal of Thermal Sciences	104	480-488
7	2016	Composition and stress of SiGe nanostructures on curved substrates	P. C. Kelires	Phys. Rev. B	93	125307
8	2015	Novel analysis method for excited states in lattice QCD: The nucleon case”	C. Alexandrou, C. N. Papanicolas and S. Stiliaris	Phys. Rev. D	91	014506
9	2010	Suppression of Intermixing in Strain-Relaxed Epitaxial Layers	J. Tersoff and P. C. Kelires	Phys. Rev. Lett.	105	236104
10	2007	N to Δ axial transition form factors from Lattice QCD	C. Alexandrou, J.W. Negele, A. Tsapalis	Phys. Rev. Lett.	98	052003

Research Projects. List the five (5) more recent and other ten (10) selected – categories may overlap (max total 15)

Ref. Number	Date	Title	Funded by	Project Role*
1	2020-2022	Active Magnetic Field Generation Methodologies	European Space Agency (ESA)	Research Team Member
2	2018-2020	Optimizing the diagnostic value of postsurgical I-123 SPECT thyroid imaging and applying patient-specific dosimetry for radioiodine ablation of thyroid remnants	Research Promotion Foundation	Research Team Member
3	Sep 2018-Sep 2020	SERvice for ImproviNg Galileo operation over Cyprus	Research Promotion Foundation	Research Team Member
4	Nov 2017-Apr 2019	Warning and Mitigation Technologies for TID Effects (TechTIDE)	H2020-COMPET-2017	Research Team Member

5	Nov 2010- Nov 2014	Research Unit for Nanostructured Materials Systems	Research Promotion Foundation	Research Team Member
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