

PERSONAL INFORMATION Cristian Alexandru Tache

 National Institute of Materials Physics, Atomiștilor 405A, 077125 Măgurele-Ilfov, Romania

- **L** +40212418197 **=** +40763052236
- cristian.tache@infim.ro
- 1 https://www.brainmap.ro/cristian-alexandru-tache
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Sex M | Date of birth 02/08/1988 | Nationality Romanian

Engineer
National Institute of Materials Physics, Atomiștilor 405 A, 077125, Măgurele-Ilfov, Romania
Technology Development Engineer III
National Institute of Materials Physics, Atomiștilor 405 A, 077125, Măgurele-Ilfov, Romania
I gained extensive experience in a range of experimental surface analysis techniques, including molecular beam epitaxy, X-XPS X-ray photoelectron spectroscopy, low energy electron diffraction-LEED, STM tunneling microscopy, magneto-optical effect Kerr - MOKE.
I became familiar with ultra high vacuum technologies as well as with the assembly and operation of laboratory equipment, in particular on the CoSMoS surface analysis cluster which has currently been relocated to the Elettra Synchrotron in Trieste, Italy
Business or sector Research
[Add separate entries for each course. Start from the most recent.] PhD Replace with EQF (or other) level if relevant
Nanotechnology Doctoral School, Trieste University, Italy
Piazzale Europa, 1 34137, Trieste (Italia) <u>www.units.it</u> Development of a new method for depositing graphene layers on different substrates based on the electronic bombardment model.
Master degree in Electrical Engineering; Nano & Electromagnetic Politehnica University, Bucharest Splaiul Independenței nr. 313, sector 6 www.upb.ro



	UNDERSTANDING		SPEAKING	
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2
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A1	A1	A1	A1	A1
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			cient user	
		as speaker at diffe	erent seminaries d	luring Phd sch
Very good team-	work skills.			
o o 1				as solving
		SELF-ASSESSMENT		
Information processing	Communication	SELF-ASSESSMENT Content creation	Safety	Problem solving
		Content	Safety Independent user	
processing Proficient user evels: Basic user - Ir	Communication	Content creation Independent user	Independent	solving
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Driving licence B



ADDITIONAL INFORMATION

1. Atomic structure and magnetism of PLD deposited TiO₂:Fe, R.M. Costescu, Publications G.A. Lungu, G. Socol, N.G. Gheorghe, D. Macovei, C.C. Negrila, C. Logofatu, M.A. Husanu, D.G. Popescu, C.A. Tache, C.M. Teodorescu, Dig. J. Nanomater. Biostr. 7(1), p. 73-78 (2012). 2. Band bending at free Pb(Zr,Ti)O3 surfaces analyzed by X-ray photoelectron spectroscopy, N.G. Apostol, L.E. Stoflea, G.A. Lungu, C.A. Tache, L. Pintilie, C.M. Teodorescu, Mater. Sci. Eng. B 178, p. 1317-1322 (2013). 3. Photoelectron spectroscopy and spectro-microscopy of Pb(Zr, Ti)O-3 (111) thin layers: Imaging ferroelectric domains with binding energy contrast ,M.A. Husanu, D.G. Popescu, C.A Tache, NG Apostol, A Barinov, S. Lizzit, P Lacovig, C.M. Teodorescu, Appl. Surf. Sci. 352, p 73-81 (2015). 4. Non-interacting. sp2 carbon on a ferroelectric lead zirco-titanate: towards graphene synthesis on ferroelectrics in ultrahigh vacuum N.G. Apostol, G.A. Lungu, I.C. Bucur, C.A. Tache, L. Hrib, L. Pintilie, D. Macoveiand C.M. Teodorescu, RSC Advances 6, 67883 (2016). 5. Ferroelectric triggering of carbon monoxide adsorption on lead zirco-titanate (001) surfaces, L.C. Tanase., N.G. Apostol, L.E. Abramiuc, C.A. Tache, L Hrib, L Trupina, L PIntilie, C.M. Teodorescu, SCI. REP. 6, 35301(2016). 6. Spectroscopic Fingerprints of Carbon Monomers and Dimers on Ir(111): Experiment and Theory, F. Presel, C.A. Tache, H. Tetlow, D. Curcio, P. Lacovig, L. Kantorovich, S. Lizzit, A. Baraldi, J. Phys. Chem. C, 2017, 121, 11335-11345 7. Graphene growth by molecular beam epitaxy: an interplay between desorption, diffusion and intercalation of elemental C species on islands, F Presel, H Tetlow, L Bignardi, P Lacovig, C.A. Tache, S. Lizzit, L Kantorovich, A Baraldi, Nanoscale, **10**,7396-7406(2018) 8. Long-range magnetic interaction in MnxGe1-x: structural, spectromicroscopic and magnetic investigations, L.C. Tanase, GA Lungu LE Abramiuc, IC Bucur, NG Apostol, RM Costescu, CA Tache, D Macovei, A Barinov, CM Teodorescu, Jorn. Mat. Science 52, 3309-3320 (2017). 9. Room temperature ferromagnetism and its correlation to ferroelectricity of manganese embedded in lead zirco-titanate, Ioana Cristina Bucur, Nicoleta G Apostl, Laura E. Abramiuc, Liviu C. Tanase, Cristian A Tache, George A Lungu, Ruxandra M Costesscu, Cristina F. Chirila, Lucian Trupina, Lucian Pintilie, Cristian M Teodorescu, Thin Solid Films 669, 440-449, (2019). 10.CO adsorption and oxidation at room temperature on graphene synthesized on atomically clean Pt(001), Nicoleta G Apostol, Ioana C Bucur, George A Lungu, Cristian A Tache, Cristian M Teodorescu, Catalysis Today, 366, 155-163 (2021).