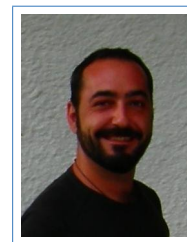


K. Termentzidis

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Personal information

Name Termentzidis
Surname Konstantinos
Current position **CNRS**, *Researcher, CR1*, LEMTA, University of Lorraine.

Titles and Degrees

2004–2007 **PhD in 'Natural Science'**.
CMS, Institute for Material Science, University of Vienna, Austria
PhD thesis title Adsorption of small molecules on metal surfaces

1998–2001 **MSc 'Material Physics and Technology'**.
Master studies at the Department of Physics, Aristotle University of Thessaloniki, Greece

1993–1998 **BSc 'Physics'**.
Diploma studies at the Department of Physics, Aristotle University of Thessaloniki, Greece

Professional Experience/Research Fellowship

2011–2012 **Postdoctoral Fellow**, *CNRS*, EM2C, Ecole Centrale Paris, France.

2010–2011 **ATER**, GEN/CETHIL, INSA of Lyon, France.

2007–2010 **Postdoctoral Fellow**, *CNRS*, CETHIL, INSA of Lyon, France.

2003–2004 **Marie Curie predoctoral fellowship**, *CMS*, University of Vienna, Austria.

02–06/1996 **Erasmus fellowship**, *LPSB, CNRS*, 11th University of Paris "Orsay", Paris, France.

Research activities - Scientific interests

Scientific interests

My research is mainly concentrated on the influence of interfaces, surfaces and defects to the thermal properties of materials in nanoscales (superlattices, thin films, nanowires), while my PhD was dedicated to electronic structure calculations with DFT and the modification of catalytic properties of metallic surfaces with the adsorption of small molecules on them. Currently, I continue my research on the Modelling and Simulations of the Thermal Transport and Thermoelectric Properties and Phenomena in the Nanoscale, which is related to the open questions of the heat dissipation in nanostructures. I focus on the influence of interfaces/surfaces considering metal/semiconductor interfaces on the thermal conductivity. I work also on the Kapitza resistance of smooth and rough interfaces, the prediction of the thermal conductivity of homo-super-lattices of SiC and the prediction of thermal conductivity of SiC nanowires with the kinetic theory of gases. Superlattices and nanowires with amorphous and crystalline phases are in my latest interests.

Teaching experience, Supervision

- Supervision **Co-supervisor of a PhD student, Supervisor of 3 master students and 2 diploma thesis students.**
- Teaching **Teaching in French language during the academic years 2009-2011, 252 hours of laboratory courses and 72 hours of Theory and Exercises.**

Important Recent Publications

- 1 **J. Physics: Condensed Matter**, accepted (2014)
- 1 **J. Applied Physics**, **115**, 024304 (2014)
- 1 **Physical Review B**, **87**, 125410 (2013)
- 2 **J. Applied Physcs**, **114**, 014903 (2013)
- 3 **J. Applied Physics**, **113**, 013506 (2013)
- 4 **J. Electronic Materials**, **42**, 1597-1603 (2013)
- 5 **Physical Review B**, **86**, 094303 (2012)
- 6 **Physica Status Solidi A**, **1-7** (2012)
- 7 **Microelectronics J.**, August, <http://dx.doi.org/10.1016/j.mejo.2012.07.006>, (2012)
- 12 **Nanoscale Research Letters**, **6**, 288 (2011))
- 13 **J. Applied Physics** , **110**, 034309 (2011))
- 15 **Int. J. of Heat and Mass Transfer**, **54**, 2014 (2011)
- 16 **J. Physics: Condensed Matter**, **22**, 475001 (2010)
- 17 **Physical Review B**, **79**, 214307 (2009)
- 18 **Physical Review B**, **76**, 195440 (2007)
- 19 **J. Physics: Condensed Matter**, **19**, 246219 (2007)
- 20 **J. Physics: Condensed Matter**, **18**, 10825 (2006)

Chapters in Books

- 1 **K. Termentzidis**, and S. Merabia, *Molecular Dynamics Simulations and Thermal Transport at the Nano-scale*, "Molecular Dynamics / Book 1", ISBN 979-953-307-615-6, (2012), InTech - Open Access Publisher

Scientific Collaborations

- D. Lacroix **Professor David LACROIX**, *LEMTA, Université de Lorraine, France.*
email/tel david.lacroix@univ-lorraine.fr, ++33.3.8368.4688
- S. Volz **Research Director Sebastian VOLZ**, *EM2C, École Centrale Paris, France.*
email/tel sebastian.volz@ecp.fr, ++33.1.4113.1070
- P. Chantrenne **Professor Patrice CHANTRENNE**, *CETHIL, INSA de Lyon, France.*
email/tel patrice.chantrenne@insa-lyon.fr, ++33.4.7243.8815
- P. Koblinski **Professor Pawel KEBLINSKI**, *Rensselaer Polytechnic Institute, Troy, USA.*
email/tel keblip@rpi.edu, ++1.518.275.6858
- J-Y. Duquesne **Research Director Jean-Yves DUQUESNE**, *Inst. Nanosciences Paris, France.*
email/tel jean-yves.duquense@insp.jussieu.fr, ++33.1.4427.4226
- X. Zianni **Professor Xanthippi Zianni**, *TEI, Chalkidas and NCSR "Demokritos", Greece.*
email/tel xzianni@teihal.gr, wzzianni@gmail.com, ++30.22280.99541
- L. Chaput **Associate Professor Laurent CHAPUT**, *IJL, University of Lorraine, France.*
email/tel laurent.chaput@univ-lorraine.fr, ++33.3.8368.4695

Scientific distinctions and other scientific merits

Reviewer **Referee for more than 15 articles.**

Journal Physical Review B

Journal J. Applied Physics

Conferences **Distinctions in international conferences.**

Chairman MRS, Spring Meeting, San Francisco, USA, April 2013

Best Poster Micro-Nano, Athens, Greece, December 2010

Grants **Grants and Scholarships.**

Erasmus Erasmus student at the 11th University of Paris, Orsay, 02–07/1996

Marie Curie Predoctoral Marie-Curie Grant at the University of Vienna, Austria, 10/2003–02/2004

Languages

English **Fluent.**

French **Fluent.**

German **Proficient.**

Spanish/Italian **Conversant**

Greek **Native Language.**