

CURRICULUM VITAE

First name: **Corneliu – Marius** Last name: **Crăciunescu**

Date and birthplace: July 25, 1960, Timișoara, Romania.

Nationality: Romanian

Citizenship: Romanian

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a) Education / Diplomas

2013 – National Habilitation

1997 - “Politehnica” University of Timișoara, Doctor in Technical Sciences;

1985 - “Politehnica” University of Timișoara M.Sc. – Engineer, Specialisation:
Manufacturing Engineering, (top 1%).

b) Employment

History
(periods
with double
employment
overlap)

1987 – present - “ Politehnica” University of Timișoara, Romania, Mechanical Faculty, Department of Materials Science, current position: Professor with habilitation.

2009 – 2011 CIENCIA 2008 Researcher, CENIMAT, Universidade Nova de Lisboa, Portugal;

1999 – 2002 – Postdoctoral Research Associate, Department of Materials and Nuclear Engineering, University of Maryland, USA;

1998 – 1999 – Fulbright Senior scholar, Department. of Materials and Nuclear Engineering, University of Maryland, USA;

1985 – 1989 – Electromotor Co. Timișoara, Romania - engineer.

c) Major qualifications

- extensive teaching and research activity in the field of materials. Classes on:
Advanced Materials, Materials Properties, Phase Transformations, Composite Materials, Failure Metallography, Nanomaterials.
- co-discovered the Co-Ni-Ga ferromagnetic shape memory alloys;
- observed the successive occurrence of ferromagnetic and shape memory properties during crystallisation of free-standing films;
- analyzed the actuation of functionally graded shape memory alloy constrained films;
- published a number of highly cited papers in high-ranked journals;
- appointed as evaluator and Vice-Chair for the FP6, FP7 and Horizon 2020 EU Programmes;
- appointed as observer of the European Commission in Romania;
- awarded Fulbrigh Senior, DAAD or Soros grants and national and international prizes;
- organised and conducted an international summer school and an international workshop;

d) Research grants and fellowships

International grants and fellowships

No	Grant ID	Grant title	Beneficiary	Position	Amount
1.	SCOPES Project IB 7420-110981/1 – (2005-2008)	Southern Nanoengineering Network	Swiss National Science Foundation	National director	39,860,44 CHF
2.	14/14764TD 2007	Matériaux Innovants Actifs – du Macro vers le Nanomonde	Proiect Brancusi	National director	approx 2000 Euro
3.	7 IP 051832/ 1997 -1998	Phase Transformations in Advanced Materials	Swiss National Science Foundation	National director	aprox 25.000 CHF
4.	22841/1998	Associated Effects in Shape Memory Alloys Bulk and Thin Films	Fulbright Commission	Grant holder	approx. 32.000 USD
5.	A/03/20323 Ref. 322 / 2003	Trimorph Actuation by Martensitic Interactions	Deutsche Akedemischer Austauschdienst	Grant holder	approx. 6000 Euro
6.	CIENCIA 2009- 2011	Production / characterization of nanostructured metallic materials by severe plastic deformation	Portuguese Foundation for Science and Technology	Grant holder	approx 80.000 Euro
7	MIDAS	Micro and Nanoscale Design of Thermally Actuating Systems	FP7 European Union	Director	approx 300.000 Euro
8	POCAL MIS ETC 1328	Pole of collaboration in New Functional Alloys	Romania-Republic of Serbia Cross Border Cooperation Programme	Director	approx 1.000.000 Euro
9	CoDe-PEM EEA 502	Combinatorial Design of Novel Bipolar Plate Coatings for Proton Exchange Membrane Electrolyzers	EEA Grants	Director	approx. 1.500.000 Euro

National grants

No	Grant ID	Grant title	Beneficiary	Position	Value
1.	CEEX (561) 7 (2005-2008)	Nanocontrol and Multifunctionality in Materials, Microlayers and Architectures with Shape Memory – Nano4M	Ministry of Education and Research	consortium director	1.365.500 lei
2.	MATNANTECH 255 (408) (2004-2006)	Microsensors and actuators for micro-opto-electro-mechanical systems manufactured by shape memory alloy nanoengineering - MASMON	Ministry of Education and Research	consortium director	200.000 lei
3.	CNCSIS 2/ 345 (2006-2008)	Hybrid Materials with Combined Transformations of the Components and Shape Memory Alloy Fibers	Ministry of Education and Research	director	72.700 lei
4.	CEEX 250 (2006-2008)	Pole of Excelence in Micro and Nanoengineering of Intelligent Materials - NanoPol	Ministry of Education and Research	director	190.000 lei
5.	CEEX 259 (2006-2008)	Control and Technological Integration of Intelligent Materials and Structures - CITSMI	Ministry of Education and Research	head of university subcontract	150.000 lei
6.	CNCS PN-II-ID-PCE 2011-3-0837 (2011-2014)	Exploration System for Optimization of Shape Memory Actuation in Compositional Spreads - ESOP	Ministry of Education and Research	director	1.699.575 lei

e) Patents and publications

Patents

1. C.M. Crăciunescu, C. Cărpinișan, M. Bach – Assembling device - Romanian Pat no. RO101955/1991.
2. C.M. Crăciunescu, C. Cărpinișan - Metal sheet positioning machine for rotor assembling, Romanian Patent Number: RO108122-B1.
3. M. Trusculescu, I. Bivolaru, V.A. Șerban, A. Răduță, P. Murgu, C.M. Crăciunescu - Fabricator of amorphous metal strips Romanian Patent Number: RO109041-B1.
4. Craciunescu C. M.; Vlascici M. P. - Process and equipment for in-situ exploration of thermal action capacity of compositional distributions, Romanian Pat no.RO125929.

Books and Chapters in books (relevant publications):

- C.M. Craciunescu** - Introducere in explorarea combinatoriala a sistemelor de aliaje, Ed. Politehnica, 2013, ISBN 978-606-554-689-9R.
- M. Miranda, F.M. Braz Fernandes, **C.M. Craciunescu**, L. Quintino, L. Alberty Vieira – *Shape Memory Alloys: Existing and Emerging Applications*, in Maryann C. Wythers, editor; *Advances in Materials Science Research*. Volume 6, Nova Publishers, 2011.
- C.M. Craciunescu** – *Shape memory alloys micro and nanoengineering*, Ed. Politehnica, Timisoara, Romania, 2005 (in Romanian).
- C.M. Craciunescu** – *Composite materials*, Ed. Sedona, Colectia Tech, 1998 (in Romanian).
- V. Budau, **C.M. Craciunescu** – *A material facing the XXI Century. Shape memory alloys*, Ed. Marineasa 1994 (in Romanian).
- C.M. Craciunescu** - Proprietatile materialelor – Compendiu de lucrari experimentale, Ed. Politehnica, 2013, ISBN 978-606-554-718-6.
- V. Budau, **C.M. Craciunescu** - Studiul Materialelor – ghid individual pentru lucrari de laborator, Ed. Mirton, Timișoara, 1998, ISBN 973-578-608-7

Relevant ISI publications (see attached documents)

e) Awards

- 1997 – General Association of Engineers Romania (AGIR) Prize;
- 2001 – MRS Boston Fall Meeting – First prize of the poster session of Symposium B “Materials Science of MEMS Devices”;
- 1986 – First prize of the Young Graduates contest organised by the “Politehnica” University of Timisoara.

Scientific profile:

<http://www.researcherid.com/rid/B-8890-2011>

h-index: **14**

total number of ISI citations: **more than 1000**

Corneliu Marius Crăciunescu