

Informatii Personale (Personal information)

CV

Prenume-Nume (First name(s) /
Surname(s))

Cristian Toma

E-mail

Nationalitate (Nationality)

Date of birth

Work experience

Interval de timp (Dates)

1991-present

Pozitii Ocupate (Occupation or position
held)

Asistent Predare/Cercetare. Sef Lucrari, Conferentiar, Departament Fizica, facultatea Stiinte Aplicate, Universitatea Politehnica Bucuresti
Teaching Assistant, Research Assistant, Assistant Professor, Associate Professor at Physics Department - Applied Sciences Department, Politehnica University, Bucharest

Principale responsabilitati (Main
activities and responsibilities)

Cursuri predate

- Fizica – Facultatea IMST (2005-2019)
- Fizica Computationala - facultatea Automatica si Calculatoare- (2009-2015)
- Complexitate si nanostructuri – Facultatea de Stiinte Aplicate (Master Program: Fotonica si Materiale Avansates)-2006-2010

Courses Taught:

- Physics – Engineering and Management of Technological Systems Department (2005-2018)
- Computational Physics- Control Engineering and Computers Department (2009-2015)
- Complexity and Nanostructures – Applied Sciences Department (Master Program: Photonics and Advanced Materials)-2006-2010

Nume si Adresa Angajator (Name and
address of employer)

Politehnica University - Bucharest, 313 Spl. Independentei , Bucharest, Romania

Domeniul de Activitate (Type of
business or sector)

Education

Interval de timp (Dates)

1985-1991

Pozitii Ocupate (Occupation or position
held)

Inginer Cercetare (Research Engineer)

Principale responsabilitati (Main
activities and responsibilities)

activitati de cercetare pentru achizitia si prelucrarea datelor la motoare termice
(research activities for measurements, sampling and data acquisition for thermal engines)

Nume si Adresa Angajator (Name and
address of employer)

Institutul National de Motoare Termice (National Institute for Thermal Engine)s -Master SA, 246 Bd. I. Maniu, Bucharest

Domeniul de Activitate (Type of
business or sector)

Cercetare (Research)

Education and training

Interval de Timp (Dates)

1998-2003

Titlu obtinut (Title of qualification
awarded)

Doctor in Stiinte Tehnice-Electronica si Telecomunicatii (Philosophy Doctor in Technical Sciences-
Electronics andTelecommunications)

Domeniul ocupational (Principal
subjects/occupational skills covered)

Optoelectronica (Optoelectronics)

Organizatia ce a asigurat pregatirea (Name and type of organisation providing education and training)	Politehnica University, Bucharest
Level in national or international classification	
Interval de timp (Dates)	1998-1999
Titlul Obtinut (Title of qualification awarded)	Master Inginer in Electronica si Telecomunicatii (Master Engineer in Electronics, Telecommunications)
Domeniul ocupational (Principal subjects/occupational skills covered)	Optoelectronica (Optoelectronics)
Organizatia ce a asigurat pregatirea (Name and type of organisation providing education and training)	Politehnica University, Bucharest
Interval de Timp (Dates)	1980-1985
Titlul Obtinut (Title of qualification awarded)	Inginer Diplomat in Automatica si calculatoare Diploma Engineer in Control Engineering and Computers
Domeniul ocupational (Principal subjects/occupational skills covered)	Automatica
Organizatia ce a asigurat pregatirea (Name and type of organisation providing education and training)	Politehnica University, Bucharest
Competente de organizare (Organisational skills and competences)	Editor Invitat la Numere Speciale pentru Fenomene de Propagare si tranzitii in Sisteme Complexe- Mathematical Problems in Engineering 2011-2013 Organizator al Workshop-ului Pulses in cadrul Conferintelor Internationale ICCSA din 2005 in 2010 (lucrari selectate fiind publicate in Editura Springer Guest Editor at Special Issues on Propagation Phenomena and Transitions in Complex Systems. Efficient mathematical Problems at Mathematical Problems in Engineering- Annual Issues 2011-2013 Organizer of PULSES Workshop (Modelling Suddenly Emerging Phenomena) as part of International Conference on Computational Sciences and Applications ICCSA from 2005 to 2010, each year (selected papers published in Lecture Notes in Computer Science - Springer)

Annexes:

30 ISI Indexed papers- Hirsch Index 10

Data: 29.08.2025

Semnatura:

Nume Prenume: Toma Cristian.....

Gradul didactic: Conferentiar.....

Instituția unde este titular: Universitatea Politehnica Bucuresti

Facultatea: .Stiinte Aplicate.....

Departamentul: Fizica.....

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Cristian Toma, *Instabilități și controlabilitate în optoelectronică*, Universitatea Politehnica, Bucuresti, 2003

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1: Cristian Toma, Stefan Pușcă, *Fizica Solidului*, Editura Printech, București (ISBN 978-606-23-0292-4), 215 pagini, 2014

2: Stefan Pușcă Cristian Toma, , *Practical Test-Functions. Advanced Topics*, Editura Printech, București (ISBN 978-606-23-0293-1), 160 pagini, 2014

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

C1. ISI

1: Cristian Toma, *Filtering Method Based on Symmetrical Second Order Systems*, Symmetry-Basel, Vol.11, Issue 6, Article Number 813, DOI: 10.3390/sym11060813, Published: JUN 2019, WOS:000475703000088, Factor Impact 2.645 pe 2019, AIS 0.303 pe 2019, eigenfactor 0.00539 pe 2019, eISSN: 2073-8994, 2019

2 Mihaela Ghelmez, Bogdan Dumitru, Cristian Toma, *Simple Systems of Fatty Acids under laser Action*, University of Bucharest Scientific Bulletin- Series A- Applied Mathematics and Physics, Volume 79, Issue 2 (2017), pag 243-254, ISSN 1223-7027,

3 Ezzat G. Bakhoun, Cristian Toma, *Alternating Coordinate-Momentum Representation for Quantum States Based on Bopp Operators for Modelling Long-Distance Coherence Aspects*, Mathematical Problems in Engineering, Volume 2015 (2015), Factor Impact 0.644 pe 2015, AIS 0.163 pe 2015, eigenfactor 0.0123 pe 2015, ISSN 1024-123X, Article ID 818019, 7 pages

C2. BDI

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

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1: Cristian Toma, *Dispozitiv și metodă de filtrare a semnalului optic de înaltă frecvență*, Nr. Brevet invenție acordat: 105124 / 03.01 1989

2: Cristian Toma, Paul Sterian, *Dispozitiv de amplificare a fasciculelor optice*, Nr. Brevet invenție acordat: 109131 / 19.08.1993

Data:29.08.2025

Semnătura: