





PERSONAL INFORMATION CRISTINA STAN

 Bucuresti, Sector 1, 014454
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 cstan@physics.pub.ro; cvstan67@gmail.com
 Sex Female
 Date of birth 02/06/1967
 Nationality Romanian

WORK EXPERIENCE

- mart. 2015 – present** **Professor**
 Faculty of Applied Physics, UPB, 313 Splaiul Independenței, Bucharest
 Teaching activity (lectures in General Physics, Applied Quantum Mechanics) and research
- oct. 2004 – feb. 2015** **Associate Professor**
 Faculty of Applied Physics, UPB, 313 Splaiul Independenței, Bucharest
 Teaching activity (lectures in General Physics, Nonlinear Physics and Chaos) and research
- oct. 2000 – sept 2004** **Lecturer**
 Faculty of Applied Physics, UPB, 313 Splaiul Independenței, Bucharest
 Teaching activity (lectures in Physics, Thermodynamics of Reversible and Irreversible Processes) and research
- febr. 1999 –sept. 2000** **Lecturer**
 Alexandru Ioan Cuza University of Iassy, 1 blv Carol, Iassy, Romania
 Teaching activity and research
- Sept. 1990– Jan. 1999** **Assistant**
 Alexandru Ioan Cuza University of Iassy, 1 blv Carol, Iassy, Romania
 Teaching activity and research
- Sept. 1989– Sept. 1990** **Highschool teacher**
 Highschool no 2, Bacau,
 Teaching activity

EDUCATION AND TRAINING

- 2016** **Habilitation Thesis in Physics** (OM No. 3968/ 07.06.2016)
 “Nonlinear Dynamics, Noise and Chaos Control: experiment and modeling in low temperature discharge plasmas and other nonlinear systems.”
- 2000** **PhD in Physics - Plasma Physics**
 “Self-organization of Space Charged Structures in a Plasma Diode type device”
 Alexandru Ioan Cuza University of Iassy, 1 blv Carol, Iassy, Romania”
- 1985 -1989** **Graduate diploma**
 Faculty of Physics, Alexandru Ioan Cuza University of Iassy, 1 Bld Carol, Iassy, Romania

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
French	A2	A2	A1	A2	A1
German	A2	A2	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills good communication skills gained by teaching activity and by scientific communications at national/international meetings and conferences

Organisational / managerial skills

- team member in over 20 national and international research projects in 10 as Project Director
- member in local organizing committee and chairmen at national and international conferences

Scientific competences and expertise

- experimental investigations and numerical modelling of nonlinear phenomena and chaos in laboratory plasma
- noise effect and chaos control in the dynamics of electrical double layers structures
- fractal and multifractal analysis of fluctuations in time series and other ordered data sequences
- pattern formation in domain distributions of magnetic fluids

ADDITIONAL INFORMATION

Publications Author/co-author of 15 books and over 90 scientific papers (63 ISI) in the domain of nonlinear and chaotic phenomena and time-series analysis for different complex systems

Citations The papers are cited in more than 180 ISI WOS articles (without self-citations). Hirsch 11
Scopus Author ID: 7004427420

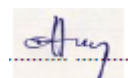
Other Reviewer at: Physica A-Statistical Mechanics And Its Applications, Acta Chimica, Elsevier, Journal Of Zhejiang University Science A. Springer, Current Bioinformatics, Physics Of Plasma, Journal Of Physics D: Applied Physics, UPB Scientific Bulletin: Series A, Mathematics And Physics, Revue Roumaine De Chimie; Revista De Chimie, International Journal of Bifurcation and Chaos, Journal of Plasma Physics

- Member of the Scientific Board of UPB Scientific Bulletin and Buletinul Științific al Universității Tehnice "Gheorghe Asachi", Iassy.

- Reviewer for PhD thesis and Member in the committee for evaluation of applications for academic positions at Politehnica University of Bucharest and "Al .I Cuza" University of Iassy

ANNEXES- SELECTED ISI PAPER

15.06.2017



ANNEXES- 8 SELECTED ISI PAPER

1. **Title:**

Magnetic field control of absorption coefficient and group index in an impurity doped quantum disc

Author(s): Niculescu, Ecaterina C; Stan, Cristina; Tiriba, Gabriela; Truscă, Cristina

Source: THE EUROPEAN PHYSICAL JOURNAL B, **Volume:** 90 **Issue:** 5 **Article Pages:** 100

DOI: doi:10.1140/epjb/e2017-80138-0 **Published:** MAY 2017

2. **Title:**

Ferromagnetic nanoparticles suspensions in twisted nematic

Author(s): Cartoaje, Cristina; Petrescu, Emil; Stan, Cristina; Creanga, Dorina

Source: PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, **Volume:** 79 **Article Pages:** 38-43

DOI: <https://doi.org/10.1016/j.physe.2015.12.006>, **Published:** MAY 2016

3. **Title:**

Multipole electrodynamic ion trap geometries for microparticle confinement under standard ambient temperature and pressure conditions

Author(s): Mihalcea, Bogdan M.; Giurgiu, Liviu C.; Stan, Cristina; Visan, Gina T.; Ganciu, Mihai; Filinov, Vladimir; Lapitsky, Dmitry; Deputatova, Lidiya; Syrovatka, Roman

Source: JOURNAL OF APPLIED PHYSICS **Volume:** 119 **Issue:** 11 **Article Pages:** 114303

DOI: <http://dx.doi.org/10.1063/1.4943933> **Published:** MAR 2016

4. **Title:**

Magnetic properties investigation of a ferrofluid with cobalt ferrite nanoparticles using polarized muons

Author(s): T. N. MAMEDOV, D.S. ANDRIEVSKII, M. BALASOIU, K.I. GRITSAJ, V.N. DUGINOV, A.L. GETALOV, E.N. KOMAROV, S.A. KOTOV, A.E. MOROSLIP, I.I. PAVLOVA, V.G. SCHERBAKOV, S.I. VOROB'EV, STAN, C

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS **Volume:** 17 **Issue:** 7-8 **Pages:** 1086-1091

ISSN: 14544164 **Published:** JUL 2015

5. **Title:**

The effect of Gaussian white noise on the fractality of fluctuations in the plasma of a symmetrical discharge

Author(s): Stan, Cristina; Cristescu, Cristina Maria; Alexandroaei, D; Cristescu, CP

Source: CHAOS SOLITONS & FRACTALS **Volume:** 61 **Pages:** 46-55

DOI: 10.1016/j.chaos.2014.02.009 **Published:** APR 2014

6. **Title:**

Analysis of the intermittent behavior in a low-temperature discharge plasma by recurrence plot quantification

Author(s): Stan, Cristina; Cristescu, Constantin P, Dimitriu, Dan

Source: PHYSICS OF PLASMAS **Volume:** 17 **Issue:** 4 **Article** 042115

DOI: 10.1063/1.3385796 **Published:** APR 2010

7. **Title:**

Stochastic resonance and vibrational resonance in an excitable system: The golden mean barrier

Author(s): Stan, Cristina; Cristescu, Constantin P, Alexandroaei, Dumitru; Agop, Maricel.

Source: CHAOS SOLITONS & FRACTALS **Volume:** 41 **Issue:** 2 **Pages:** 727-734

DOI: 10.1016/j.chaos.2008.03.004 **Published:** JUL 2009

8. **Title:**

Dynamic control by sinusoidal perturbation and by Gaussian noise of a system of two nonlinear oscillators: Computation and experimental results

Author(s): Cristescu, Constantin P, Stan, Cristina; Alexandroaei, D.

Source: PHYSICAL REVIEW E - STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS **Volume:** 70 **Issue:** 1-2 **Pages:** 016613-1-016613-7

DOI: 10.1103/PhysRevE.70.016613 **Published:** JUL 2004