PERSONAL INFORMATION

CRISTINA STAN



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WORK EXPERIENCE

Mar. 2015 - present

Professor

Faculty of Applied Sciences, UPB, 313 Spl. Independenţei, Bucharest

Teaching activity and research

Oct. 2004 - Feb. 2015

Associate Professor

Faculty of Applied Sciences, UPB, 313 Spl. Independentei, Bucharest

Teaching activity and research

Oct. 2000 - Sept 2004

Lecturer

Faculty of Applied Sciences, UPB, 313 Spl. Independentei, Bucharest

Teaching activity and research

Feb. 1999 –Sept. 2000

Lecturer
Alexandru Ioan Cuza University of Iassy, 1Blv Carol, Iasi, Romania

Teaching activity and research

Sept. 1990- Jan. 1999

Assistant

Alexandru Ioan Cuza University of Iassy, 1 Blv Carol, Iasi, Romania

Teaching activity and research

Sept. 1989- Sept. 1990

Highschool teacher

Highschool no 2, Bacau, Romania

Teaching activity

EDUCATION AND TRAINING

Thesis of Habilitation in Physics: "Nonlinear Dynamics, Noise and Chaos Control: experiment and

modeling in low temperature discharge plasmas and other nonlinear systems." (OM No. 3968/07.06.2016)

2000 PhD in Physics - Plasma Physics

Alexandru Ioan Cuza University of Iasi, 1 Blv Carol, Iasi, Romania

PhD Title "Self-organized space charged structures in plasma diode type devices"

1985 - 1989

Graduate diploma

Faculty of Physics, Alexandru Ioan Cuza University of Iasi, 1 Blv Carol, Iasi, Romania

Mother tongue(s) Romanian

English

French

German

Other language(s)

UNDERSTANDING SPEAKING WRITING Spoken interaction Spoken production Listening Reading C1 C1 B2 C1 C1 A2 A2 A1 A2 A1 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 through my experience in teaching activity, supervising of diploma, master and PhD thesis, scientific communications at national and international meeting and conferences

ADDITIONAL INFORMATION



Curriculum Vitae Cristina Stan

Publications

Other

Author/co-author of 15 books and over 100 scientific papers in the field of nonlinear and chaotic phenomena, quantum structures and time-series analysis for different complex systems http://orcid.org/0000-0003-1757-4011, Scopus Author ID: 7004427420, Researcher ID: B-5722-2012

Referee at: Physica A: Statistical Mechanics and its Applications; Acta Chimica, Journal of Zhejiang
University SCIENCE A. Springer, International Journal of Bifurcation and Chaos, Journal of Plasma
Physics, Current Bioinformatics, Expert Systems and Applications, Applied Surface Science, Thin Solid
Films, Cognitive System Research, Journal of Molecular Graph and Modelling, International Journal of
Mass Spectrometry, Journal of Optoelectronics and Advanced Materials, Entropy

 Member of the Scientific Board of UPB Scientific Bulletin and Buletinul Ştiinţific al Universităţii Tehnice "Gheorghe Asachi", Iaşi.

• Prize for Physics "Constantin Miculescu" of the Romanian Academy of Sciences for 2017 group of paper

ANNEXES- SELECTED PAPERS

1. C Stan. L Marmureanu. C Marin. CP Cristescu

Investigation of multifractal cross-correlation surfaces of Hurst exponents for some atmospheric pollutants (2020) Physica A: Statistical Mechanics and its Applications 545, 123799

2. Cirtoaje C, Petrescu E, Stan C, Rogachev A.

Electric Freedericksz transition in nematic liquid crystals with graphene quantum dot mixture. (2019) Applied Surface Science. 2019 Sep 1;487:1301-6.

3. Bejan, D. and Stan, C, Toma, O.

Magnetic field controlled induced transparency by Autler–Townes splitting in pseudo-elliptic quantum ring (2019) The European Physical Journal B 92 (7), p. 153.

4. Bejan, D. and Stan, C.

Aharonov-Bohm effect in pseudo-elliptic quantum rings: influence of geometry, eccentricity and electric field. (2019) *The European Physical Journal Plus*, 134(3), p.127.

5. Bejan, D., Stan, C.

Oscillatory behaviour in the energy and nonlinear optical rectification spectra of elliptic quantum rings under electric field: influence of impurity and eccentricity

(2018) Philosophical Magazine, 1-21

6. Bejan, D., Stan, C, Niculescu, EC

Optical properties of an elliptic quantum ring: Eccentricity and electric field effects (2018) Optical Materials 78, 207-219

7. Sergeenkov, S.; Stan, C.; Cristescu, C. P.; Balasoiu M., NS Perov, C Furtado

Evidence for field induced proximity type behavior in CoFe₂O₄ based ferromagnetic nanofluid (2017) *Philosophical Magazine Letters* 97 (7), 287-293.

8. Niculescu, E.C., Stan, C., Bejan, D., Cartoaje, C.

Impurity and eccentricity effects on the nonlinear optical rectification in a quantum ring under lateral electric fields (2017) *Journal of Applied Physics* 122 (14), 144301

9. Cirtoaje, C., Petrescu, E., Stan, C.,

Dynamic behavior of a nematic liquid crystal mixed with CoFe₂O₄ ferromagnetic nanoparticles in a magnetic field (2017) Beilstein journal of nanotechnology. 2017 Nov 22;8(1):2467-73

10. Niculescu EC, Stan C, Tiriba G, Truşcă C.

Magnetic field control of absorption coefficient and group index in an impurity doped quantum disc. (2017) The European Physical Journal B. 90(5), pp. 100.

11. Niculescu EC, Stan C, Cristea M, Truscă C.

Magnetic-field dependence of the impurity states in a dome-shaped quantum dot. (2017) Chemical Physics, 493, pp. 32-41.

12. Stan, C., Cristescu, C.P., Dimitriu, D.G.

Analysis of the intermittent behavior in a low-temperature discharge plasma by recurrence plot quantification (2010) *Physics of Plasmas*, 7(4), art. no.042115

13. Stan, C., Cristescu, C.P., Alexandroaei, D., Agop, M.

Stochastic resonance and vibrational resonance in an excitable system: The golden mean barrier (2009) *Chaos, Solitons and Fractals*, 41 (2), pp.727-734.

14. Cristescu, C.P., Mereu, B., Stan, C., Agop, M.

Feigenbaum scenario in the dynamics of a metal-oxide semiconductor heterostructure under harmonic perturbation. Golden mean criticality

(2009) Chaos, Solitons and Fractals, 40(2), pp. 975-980

15. Cristescu, C.P., Stan, C., Alexandroaei, D.

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

(2004) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 70(12), art. no.016613

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