

- Publications 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
- Other
- 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 Științific al Universității Tehnice "Gheorghe Asachi", Iași.
 - Prize for Physics "Constantin Miculescu" of the Romanian Academy of Sciences for 2017 group of paper

ANNEXES- SELECTED PAPERS

1. C Stan, L Mamureanu, 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, Trușcă 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, Trușcă 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(1 2), art. no.016613