


Curriculum vitae			
Personal data			
Name / surname	CREANGA/Dorina-Emilia		
Academic Title	Professor		
Scientific position/date/Institution	PhD in Biophysics /1999/ Univ. Babes-Bolyai –Cluj Napoca, Romania		
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Citizenship	Romanian		
Place and date of birth			
Affiliation /position	Univ. Alexandru Ioan Cuza-Iasi, Faculty of Physics, Professor		
Professional Experience / didactic positions/ Institution and period	Antibiotic Plant Iasi-1979-1989: Physicist University Gh. Asachi Iasi, Physics Department – 1988-1989 – associated assistant Universitaty Al. I. Cuza, Faculty of Physics – 1990-2009 -Assistant, lecturer, associated professor, professor		
Foreign languages	English 4, French 4, German 1		
Autoevaluation	Writing	reading	conversation
Language 1	4	4	4
Language 2	4	4	4
Language 3	1	1	1
	1 – low level; 5 – advanced level		
Professional skills	<p>Courses /Seminars/Laboratories</p> <p><b>New courses introduced in the faculty</b></p> <p><b>Molecular and cellular biophysics (Course, laboratory)-2 years</b></p> <p><b>Biotechnologies (Course, laboratory)-3 years</b></p> <p>Physical methods in biology and medicine (Course, laboratory)-1 year</p> <p>The interaction of radiation with living matter (Course, laboratory)-1 year</p> <p><b>Radiobiology (Course, laboratory)-9 years</b></p> <p>Biophysics of systems (Course, laboratory)-6 years</p> <p>Bioelectromagnetism (Course, laboratory)-3 years</p> <p>Cellular and tissular electrophysiology (Course, laboratory)-1 year</p> <p>Special chapters of bioelectromagnetism (Course, laboratory)-4 years</p> <p>Electromagnetic pollution (Course, laboratory)-2 years</p> <p>Bioelectricity – Fundamental and clinical applications (Course, laboratory)-2 years</p> <p>Environmental biotoxxicology (Course, laboratory)-1 year</p> <p>The action of electromagnetic field upon complex systems (Course, laboratory)-2 years</p> <p><b>Organization of laboratoaries:</b> Biophysics of systems (12 laboratory applications), Radiobiology (12 laboratory applications),</p> <p>Bioelectromagnetism (6 laboratory applications)</p> <p><b>AT PRESENT TIME;</b> teaching Radiobiology, Bioelectricity, Neurobiophysics</p>		

Organizational competence and skills	<p>Experience in university teaching/ Implication expertise and evaluation activities of CNCIS etc.  Activity "peer review"/ conference organization/other activities  <b>Referent for „journals under Elsevier publishing house</b>  <b>Chief Editor</b> at Revista de Fizica Medicala, 2014-2016  Member in <b>Editorial Board</b> of Rom. J. Biophys-2006-2007, <b>member in editorial board</b> of Sci. Ann. Of Al. I. Cuza University -Iasi, section of Biophysics, Medical Physics, Environmental Physics-2005-2007, <b>member in the organization committee of the VIIIth National Conference of Biophysics, May 2005, May 2013, member in Organization Committee of ICPAM (Int Conf Adv Mater), in 2012, 2014, 2016</b>  <b>Romanian representative at EOMP (Eur Org Med Phys) – 2015</b>  <b>Member of Romanian Physics Society</b>  <b>Member of European Physics Society</b>  <b>Member In CFMR (College of Medical Physicists in Romania)</b>  <b>Member in Romanian Society of Pure and Applied Biophysics (Iasi section leader since 2013)</b></p>
Didactic activity	<p><b>Courses touched in the University (preferable close to the master program)</b>  <b>NEW COURSES introduced in the Physics Faculty</b>  <b>Molecular and cellular biophysics (Course, laboratory)-Biotechnologies (Course, laboratory)-</b>  Physical methods in biology and medicine <b>(Course, laboratory)-The interaction of radiation with living matter (Course, laboratory)-Radiobiology (Course, laboratory)-Biophysics of systems (Course, laboratory)-Bioelectromagnetism (Course, laboratory)-Cellular and tissular electrophysiology (Course, laboratory)-Special chapters of bioelectromagnetism (Course, laboratory)-Electromagnetic pollution (Course, laboratory)-Bioelectricity – Fundamental and clinical applications (Course, laboratory)-</b>  Environmental biotoxology <b>(Course, laboratory)-The action of electromagnetic field upon complex systems (Course, laboratory)-</b>  <b>DIDACTIC BOOKS AND COURSES</b>  Alexandroaie, D., <b>Creanga, D.</b>, Delibas, M., Dorohoi, D., Leu, G., Lozneau, E., Luca, D., Postolache, M., Scutaru, V., Stan, C., Timpu, A., Timpu, Experimente de fizica si biofizica, Ed. Univ. Al. I. Cuza Iasi, 2000  <b>Creanga, D.E.</b>, (Laboratory applications in radiobiology) Lucrari de laborator de Radiobiologie, Edit. Univ. Al. I. Cuza-Iasi, 2002  <b>Creanga, D.E.</b>, (Laboratory applications in biophysics) Lucrari de laborator de Biofizica, Edit. Univ. Al. I. Cuza-Iasi, 2003  <b>Creanga, D.</b>, Elements of cellular electrophysiology, (Elemente de electrofiziologie celulara) 2003, Ed. CERMI, 150 pag  Neacsu, I., <b>Creanga, D.E.</b>, (Electric properties of cell membranes) Proprietati electrice ale membranelor celulare, Ed. Univ. Al. I. Cuza Iasi, 2003, 300 pag  <b>Creanga, D.</b>, (Elements of Radiobiophysics) Elemente de Radiobiofizica, Ed. CerMI, 2005, 200 pag  <b>Creanga, D.</b>, (Biomagnetism bases) Bazele biomagnetismului, Ed. Univ. Al. I. Cuza-Iasi, 2008, 120 pag.  <b>AT PRESENT TIME; teaching Radiobiology, Bioelectricity, Neurobiophysics</b>  Other relevant activities  <b>ERASMUS staff exchange program – Hungary (NiYregyhaza College) – 2014-2016</b></p>
Scientific research activity	<p><b>a) h-index=12 according to Thomas Reuter and according to Scopus; h=16 according to Google Scholar</b>  <b>b) 113 publications visible on Thomas Reuter (ISI web of knowledge)</b></p>
Other activities	<p>Member in coordination commissions of PhD programs, referent to PhD thesis, member in commissions for occupation of new academic positions in my university and other institutions</p>
Annexes	<p>The list of scientific articles significant for the master program, books, etc</p>

## ANNEX

## BOOKS

- 1) Elements of Biomagnetism.(elemente de Biomagnetism), *D. Creanga*. Univ. Al. I. Cuza Publishing House. 2010. Iași. 2010. 125 pag.
- 2) Elements of radiobiophysics (Elemente de radiobiofizică), *D. Creanga*. Ed. Cermi. Iași. 2005, 200 pag.
- 3) Electric properties of cell membranes (Proprietăți electrice ale membranelor celulare), Neacșu. I., *Creangă, D.*, 2003. Ed. Univ. Al. I. Cuza-Iași. 292 pag.
- 4) Chaos and fractal features in heart electric activity. *D. Creangă*. in *Interdisciplinary applications of fractal and chaos theory*. Ed.: R. Dobrescu. C. Vasilescu, Ed. Acad. Rom., București. 2004, pag. 274-297
- 5) Experiments of general physics and biophysics (Experimente de fizică generală și biofizică). Edit. *Univ. Al. I. Cuza-Iași*, 2000. *Alexandrouie, D., Creangă, D., Delibas, M., Dorohoi, D., ș.a.* (24 pag. *D. Creangă*)
- 6) Laboratory works in biophysics (Lucrări de laborator de Biofizică). Edit. Univ. Al. I. Cuza-Iași. 2003. *Creangă, D.E.*, 235 pag
- 7) Laboratory works in radiobiology (Lucrări de laborator de Radiobiologie). Edit. Univ. Al. I. Cuza-Iași. 2002. *Creangă, D.E.*, 185 pag.
- 8) Introduction in molecular and cytotissular biophysics (Introducere în biofizica moleculară și citotissulară), Edit. Apollonia-Iași. 2002. Isac. R.M., Topoliceanu, F., *Creangă, D.* 350 pag.
- 9) Elements of electro-physiology (Elemente de electrofiziologie). *D. Creangă*. Ed. Cermi. 157 pag., 2003
- 10) Application of fuzzy logic to visual system modeling, autori: *Creangă, D.* Isac. M., Isac. R.M., in *Advances in intelligent systems*, by F.C. Morabito. IOS Press, 1997, Amsterdam. Olanda. pag. 367-371
- 11) Aspects of genetics, ecology and population evoluion (Aspecte ale geneticii, ecologiei și evoluției populațiilor). Ed. Corson-Iași, 2002, *Creangă, I., Surugiu, I., Creangă, D.E., Bara, I.I.* (tot. 160 pag.)
- 12) *D. Creanga*, S. Dunca, A. Poiata. Some Aspects Regarding Bacteria Sensitivity to Physical Constraints of Magnetic Nature. In *Advances in Medicine and Biology*. Volume 16. Chapter 11 . pp. 287-302. Nova Publishers. 2011.

## Selection of articles published in ISI ranked journals

1. C. Cirtoaje, E. Petrescu, C. Stan, D. Creanga, Ferromagnetic nanoparticles suspensions in twisted nematic, **Physica E**, 79, 38–43, 2016
2. E. Puscasu, L. Sacarescu, N. Lupu, M. Grigoras, G. Oanca, M. Balasoiu, D. Creanga, Iron oxide-silica nanocomposites yielded by chemical route and sol–gel method, **J Sol-Gel Sci Technol**, doi:10.1007/s10971-016-3996-1, 2016
3. R.V. Lupusoru, D. A. Pricop, M. Andries, D. Creanga, Light wavelength influence on surface plasmon resonance in citrate–gold nanosystems, **J. Mol. Struct.**, doi:10.1016/j.molstruc.2016.02.081, 2016
4. Puscasu, E., Sacarescu, L., Domocos, A., Leostean, C., Turcu, R., Creanga, D., Balasoiu, M., Hydrophilic Versus Hydrophobic Oleate Coated Magnetic Particles, **Rom. J. Phys.**, 61, 5-6, [http://www.nipne.ro/rjp/accpaps/061-Puscas\\_F59374.pdf](http://www.nipne.ro/rjp/accpaps/061-Puscas_F59374.pdf), 2016
5. Oanca, G., Nadejde, C., Fifere, N., Gritco Todirascu, A., Creanga, D., Dorohoi, D. Stare, J., Solvatochromic study on chlortetracycline in binary and ternary solutions, **J. Mol. Struct.**, doi:10.1016/j.molstruc.2015.12.066,
6. Popescu, C. M., Hritcu, L., Pricop, D. A., Creanga, D., Morphological changes in gold core–chitosan shell nanostructures at the interface with physiological media. In vitro and in vivo approach, **Appl. Surf. Sci. A**, 352, 103-108, 2015
7. Almásy, L., Creanga, D., Nadejde, C., Rosta, L., Pomjakushina, E., Ursache–Oprisan, M., Wet milling versus co-precipitation in magnetite ferrofluid preparation, **J. Serb. Chem. Soc.**, 80(3), 367–376, 2015
8. Racuciu, M., Creanga D., Miclaus, S., On the thermal effect induced in tissue samples exposed to extremely low-frequency electromagnetic field. **J. Environ. Health Sci. Technol.**, 12, 85-97, 2015
9. Oprica, L., Nadejde, C., Andries, M., Puscasu, E., Creanga, D., Balasoiu, M., Magnetic contamination of environment–laboratory simulation of mixed iron oxides impact on microorganism cells, **Environ. Eng. Manag. J.**, 14(3), 581-586, 2015
10. Nadejde, C., Neamtu, M., Creanga, D., Environment-friendly magnetic fluids for wastewater remediation-synthesis and characterization. **Acta Phys. Pol. A**, 2(127), 647-649, 2015
11. Avadanei, M., Ivan, M. L., Nadejde, C., Creanga, D., Dorohoi, D. O., Spectral and thermodynamical studies on iso-quinolinium carbethoxy methylid (iqcem) solutions with binary solvent water (w)+ ethanol (e), **Rev. Chim.**, 66(2), 201-204, 2015
12. Nadejde, C., Ursu, L., Creanga, D., Dorohoi, D., Solvatochromic behaviour of rifampicin in diluted solutions., **Rev. Chim.**, 66(3), 360-363, 2015
13. Nadejde, C., Puscasu, E., Brinza, F., Ursu, L., Creanga, D., Stan, C., Preparation of soft magnetic materials and characterization with investigation methods for fluid samples. **U. Polit. Bucharest Sci. Bull. A**, 77(2), 277-284, 2015
14. Poiata, A., Creanga, D., Magnetic nanoparticle influence on pseudomonas metabolites with antimicrobial properties, **Rom. J. Phys.**, 60(1-2), 228-236, 2015
15. Creanga, D., Nadejde, C., Molecular modelling and spectral investigation of some triphenyltetrazolium chloride derivatives, **Chem. Pap.**, 68(2), 260-271, 2014
16. Ciubara, A., Dorohoi, D., Severcan, F., Creanga, D., Quatitative approach of ultrasound propagation in biological media, **U. Polit. Bucharest Sci. Bull. A**, 76 (4), 221-226, 2014
17. Racuciu, M., Creanga, D., Nadejde, C., Comparison among the physical properties of various suspensions of magnetite nanoparticles stabilized in water using different organic shells, **U. Polit. Bucharest Sci. Bull. A**, 75(3), 209-216, 2013
18. Poiata, A., Creanga, D., Nadejde, C., Fifere, N., Airinei, A., Chemically modified nanoparticles surface for sensing bacterial loading—experimental study based on fluorescence stimulation by iron ions., **Bioelectrochemistry**, 93, 51-58, 2013

19. Vochita, G., Creanga, D., Focanici-Ciurlica, E., Magnetic nanoparticle genetic impact on root tip cells of sunflower seedlings, **Water Air Soil Poll.**, 223(5), 2541-2549, 2012
20. Focanici, E., Nica, V., Creanga, D., Caltun, O., Synthesis and physical investigation of Mn-x Zn1-xFe2O4 magnetic nanopowders coated with organic shell, **Powder Metal.Met. Ceram.**, 51(3-4), 172-177, 2012
21. Creanga, D., Poiata, A., Fifere, A., Nadejde, C., Airinei, A., Fluorescence of pyoverdine synthesized by Pseudomonas under the effect of iron oxide nanoparticles, **Roum.Biotechnol. Lett.**, 16(4), 6336-6344, 2011
22. Racuciu, M., Creanga, D.E., Airinei, A., Chicea, D., Badescu, V., The synthesis and properties of magnetic nanoparticles coated with biocompatible compounds, **Mater.Sci. Pol.**, 3(28), 609-616, 2010
23. Poiata, A., Creanga, D., Airinei, A., Tupu, P., Goiceanu, C., Avadanei, O., Magnetic nanoparticles for biosensor model based on bacteria fluorescence, **Eur. Opt. Soc.**, 4, art. 7, 2009
24. Racuciu, M., Creanga, D., Olteanu, Z., Water based magnetic fluid impact on young Plants growing, **Rom. Rep. Phys.**, 61(2), 259-268, 2009
25. Racuciu, M., Creanga, D.E., Cytogenetical changes induced by  $\beta$ -cyclodextrin coated nanoparticles in plant seeds, **Rom. J. Phys.**, 54(1-2), 125-131, 2009
26. Racuciu, M., Creanga, D.E., Biocompatible magnetic fluid nanoparticles internalized in vegetal tissue, **Rom. J. Phys.**, 54(1-2), 115-124, 2009
27. Nadejde, C., Creanga, D., Filip, E., Humelnicu, C., Dorohoi, D., Study on the intermolecular interactions in rifampicin ternary solutions — Calculation of microscopic parameters of rifampicin molecules, **J. Mol. Liq.**, 150 (1-3), 51-55, 2009
28. Focanici, E., Nica, V., Sulitanu, N., Creanga, D., Comparative study of magnetite and cobalt ferrite submicron particles, **Optoel. Adv. Mater. RC**, 3 (4), 326-329, 2009
29. Creanga, D., Poiata, A., The effect of ferrofluid and iron salts upon Pseudomonas aeruginosa growth, **Optoel. Adv. Mater. RC**, 2(8), 488-490, 2008
30. Racuciu, M., Apetroaie, N., Creanga, D., Size analysis of biocompatible magnetic nanoparticles colloids, **Optoel. Adv. Mater. RC**, 2(3), 212-215, 2008
31. Racuciu, M., Creanga, D., Airinei, A., Bădescu, V., Synthesis method influence on water based magnetic fluid properties, **J. Optoel. Adv. Mater.**, 10(3), 635-638, 2008
32. Racuciu, M., Creanga, D.E., Badescu, V., Airinei, A., Room temperature synthesis of magnetic nanoparticles, **J. Optoel. Adv. Mater.**, 10(11), 2928-1931, 2008
33. Creanga, D.E., Iacob, Gh., Nadejde, C., Ursache, M., Racuciu, M., Magnetic fluids as drug carrier in magnetically assisted chemotherapy - an experimental study, **J. Optoel. Adv. Mater.**, 10(3), 628-631, 2008
34. Racuciu, M., Creanga, D.E., Apetroaie, N., Birsan, E., Dimensional comparative study of magnetic nanoparticles dispersed in water or kerosene, **J. Optoel. Adv. Mater.**, 10(2), 280-283, 2008
35. Racuciu, M., Creanga, D.E., Cytogenetic changes induced by aqueous ferrofluids in agricultural plants, **J. Magn. Magn. Mater.**, 311(1), 288-291, 2007
36. Racuciu, M., Creanga, D.E., Influence of water-based ferrofluid upon chlorophylls in cereals, **J. Magn. Magn. Mater.**, 311(1), 291-294, 2007
37. Racuciu, M., Creanga, D.E., Tupu, P., Birsan, E., Comparative study on magnetic nanoparticles colloids stability, **J. Optoel. Adv. Mater.**, 9(4), 946-948, 2007
38. Racuciu, M., Creanga, D.E., Apetroaie, N., Badescu, V., Dimensional analysis about water based ferrofluids, **J. Optoel. Adv. Mater.**, 9(6), 1633-1636, 2007
39. Racuciu, M., Creanga, D.E., Airinei, A., Badescu, V., Synthesis and physical characterization of magnetic nanoparticles functionalized with beta cyclodextrin, **J. Optoel. Adv. Mater.**, 9(5), 1530-1533, 2007
40. Racuciu, M., Creanga, D.E., Badescu, V., Sulitanu, N., Microstructural investigation of some biocompatible ferrofluids, **J. Magn. Magn. Mater.**, 316(2), e772-e775, 2007
41. Racuciu, M., Creanga, D., Airinei, A., Badescu, V., Apetroaie, N., Microstructural and magnetic properties of magnetic fluid based on magnetite coated with tartaric acid, **Magnetohydrodyn.**, 43(4), 411-421, 2007
42. Racuciu, M., Creanga, D.E., Sulitanu, N., Badescu, V., Dimensional analysis of aqueous magnetic fluids, **Appl. Phys. A**, 89(2), 565-569, 2007
43. Racuciu, M., Creanga, D.E., Airinei, A., Comparative microstructural analysis of water based magnetic fluids, **Eur. Phys. J. E**, 21(2), 117-121, 2006
44. Manoliu, A., Oprica, L., Olteanu, Z., Neacsu, I., Artenie, V., Creanga, D.E., Rusu, I., Bodale, I., Peroxidase activity in magnetically exposed cellulolytic fungi, **J. Magn. Magn. Mater.**, 300(1), e323-e326, 2006
45. Matei, G., Airinei, A., Creanga, D.E., Submicron structure in bio compatible ferrofluids, **Acta Phys. Pol. A**, 109(3), 405-409, 2006
46. Creanga, D.E., Calugaru, Gh., Physical investigations of a ferrofluid based on hydrocarbons, **J. Magn. Magn. Mater.**, 289, 81-83, 2005
47. Racuciu, M., Creanga, D.E., Calugaru, Gh., Synthesis and rheological properties of an aqueous ferrofluid, **J. Optoel. Adv. Mater.**, 7(6), 2859-2864, 2005
48. Manoliu, A., Oprica, L., Creanga, D.E., Ferrofluid and cellulolytic fungi, **J. Magn. Magn. Mater.**, 289, 473-475, 2005
49. Poiata, A., Vlahovici, A., Creanga, D.E., Ferrofluid effect on Pseudomonas pyoverdine, **J. Magn. Magn. Mater.**, 289, 455-458, 2005
50. Poiata, A., Vlahovici, A., Creanga, D.E., Tupu, P., Fluorescent bacteria detecting iron loading International, **J. Environ. Anal. Chem.**, 85(12-13), 993-1000, 2005

51. Dunca, S., Creanga, D.E., Ailiesei, O., Nimitan, E., Microorganisms growth with magnetic fluids, **J. Magn. Magn. Mater.**, 289, 445-447, 2005
52. Pavel, A., Creanga, D.E., Chromosomal aberrations in plants under magnetic fluid influence, **J. Magn. Magn. Mater.**, 289, 469-472, 2005
53. Apetroaie, N., Roca, A., Creanga, D.E., Preliminary AFM investigation on magnetic fluid dimensional analysis, **J. Optoelect. Adv. Mater.**, 7(6), 2865-2868, 2005
54. Creanga, D.E., Poiata, A., Morariu, V.V., Tupu, P., Zero-magnetic field effect in pathogen bacteria, **J. Magn. Magn. Mater.**, 272-276(III), 2442-2444, 2004
55. Poiata, A., Creanga, D.E., Morariu, V.V., Life in zero magnetic field. V. E. coli resistance to antibiotics. **Electromagn. Biol. Med.**; 22(2-3), 171-183, 2003
56. Creanga, D., Moraru, V.V. Isac, R.M., Life in zero magnetic field. IV. Investigation of developmental effects on fruitfly vision, **Electromagn. Biol. Med.**; 21(1), 31-41, 2002
57. Pavel, A., Trifan, M., Băra, I.I., Creanga, D.E., Cotae, C., Accumulation dynamics and some cytogenetical tests at *Chelidonium majus* and *Papaver somniferum* callus under the magnetic liquid effect. **J. Magn. Magn. Mater.**, 201(1-3), 443-445, 1999
58. Manoliu, Al., Antohe, L., Creanga, D.E., Cotae, C., The influence of the petroleum ferrofluids upon the cellulolytic fungi *Chaetomium globosum* Kunze Fr. : **J. Magn. Magn. Mater.**, 201(1-3), 446-449, 1999
59. Cotae, C., Olaru, R., Luca, E., Creanga, D.E., Orthogonal sensor with magnetic liquid, **Sensors & Actuators A**, 59, 222-226, 1997
60. Creanga, D.E., Cotae, C., Comparative dimensional investigation of some new ferrofluids. **Ind. J. Pure Appl. Phys.**, 34, 957-961, 1996
61. Pretegianni, E.; Astefanoaei, C.; Daye, P.M.; FitzGibbon, E.J.; Creanga, D.E.; Rufa, A.; Optican, L.M., **J. Neurosci.**, Action and perception are temporally coupled by a common mechanism that leads to a timing misperception, 35 (4) 1493-1504, 2015
62. Stan, C.; Astefanoaei, C.; Pretegianni, E.; Optican, L.; Creanga, D.; Rufa, A.; Cristescu, CP, Nonlinear analysis of saccade speed fluctuations during combined action and perception tasks, **J. Neurosci. Meth.**, 232, 102-109, 2014
63. Astefanoaei, C.; Creanga, D.; Pretegianni, E.; Optican, LM; Rufa, A., Dynamical complexity analysis of saccadic eye movements in two different psychological conditions, **Rom. Rep. Phys.**, 66 (4), 1038-1055, 2014
64. Poiata, A.; Motrescu, I.; Nastuta, A.; Creanga, DE; Popa, G Microorganism response to atmospheric pressure helium plasma DBD treatment, **J. Electrostat.**, 68 (2), Pages: 128-131, 2009
65. Creanga, D.; Nadejde, C.; Gasner, P., Dynamical analysis of heart beat from the viewpoint of chaos theory, **Rom. J. Phys.**, 56 (1-2) 177-184, 2011

#### Selected articles published in non-ISI journals

1. Oanca, G., Nadejde, C., Creanga, D., Caffeine - solvent interaction studied by uv spectrometry and molecular modeling, **Rom. J. Biophys.** 24 (1):11-23, 2014
2. Oanca, G., A. Gricio Todirascu, D. Creanga, D. Dorohoi. Structural and spectral study of benzo[f]pyrrolo[1,2-a]quinoline with potential biological properties, **Rom J. Biophys.** 25 (4): 2015
3. Andries, M., Puscasu, E., Nadejde, C., Oprica, L., Creanga D., cobalt ferrite nanoparticles effect on cellulolytic fungus *Phanerochaete chrysosporium*. **Rom. J. Biophys.** 24 (2): 101-107, 2014
4. Chaotic trends in the living systems, Creanga, I., **Creanga, D., Wanna Newsletters**, 14, 1-3, 1997
5. Cytogenetic modifications induced in *Chelidonium* by low thermal microwaves, Pavel, A., Gasner, P., **Creanga, D., Miclaus, S., Bara, I.I., Ann. Sc. U. Fr. Comte, Physique, Besancon**, B5-B8, 1999
6. Light re-emission utilized in some drugs color analysis, **Creanga, D., Ars Pharmaceutica**, 38, 1, 15-26, 1997
7. Microstructural features of a new petroleum based ferrofluid, Cotae, C., **Creanga, D., Balkan Physics Letters**, 4, 281-285, 1998
8. The blue light effect on the eye sensitivity, **Creanga, D., Balkan Physics Letters**, 5, 1936-1940, 1997

#### Selected articles published in University Annals

- 1) The influence of direct current discharges on vegetal organisms exposed during early ontogenetic stages, I. Motrescu, C. Astefanoaei, C. Nadejde, D. E. Creangă, G. Stoian, **Analele Univ. De Vest Timisoara** 51:137-141, 2007
- 2) Magnetic liquid effect on pigments and nucleic acids in sunflower seedlings, C. Astefanoaei, G. Mandru, C. Nadejde, D. Creanga, M. Racuciu, **Analele Univ. De Vest Timisoara**, 51:133-136, 2007
- 3) Biological effects of chronic and acute microwave irradiation in some animal tissues. E. Foca-Nici, L. Curecheriu, G. Stoian, D. Creanga, Fl. Tufescu, Al. Vlahovici, **Analele Univ. De Vest Timisoara**, 46:152-157, 2005
- 4) Irregularity and symmetry in the electrographic images G. Stoian, M. Toma, D. Creanga, **Analele Univ. De Vest Timisoara**, 47:47-52, 2006
- 5) Chromosomal aberrations in plants magnetically exposed, Racuciu, M., Creanga, D.E., Calugaru, Gh., **Analele Univ. Vest Timisoara**, 45, 131-134, 2004
- 6) Ferrofluid influence on LHC II system in some forestry species, Creanga I., Calugaru Gh., Matei G., **Creanga D.E., Racuciu M., Analele Univ. Vest Timisoara**, 45, 139-142, 2004
- 7) Cytogenetic modifications in young plantlets exposed to low power microwaves. M. Răuciu, D.E. Creangă, Fl. M. Tufescu, **Studia Universitatis Babes-Bolyai, Physica**, 3-4-4, 709-713, 2005
- 8) Aqueous magnetic liquid influence on *Zea mays* growth. M. Răuciu, D. E. Creangă, I. Horga, **Studia Universitatis Babes-Bolyai, Physica**, 3-4-4, 713-717, 2005

- 9) Mathematical model of some ferrofluid instabilities. Creanga, D.E. . Studia Universitatis Babes-Bolyai Physica ,XLX, (3) 459-462. 2005
- 10) Aqueous magnetic liquid influence on Zea mays growth. M.Racuciu. D. E. Creanga. Gh. Calugaru. I. Horga. Studia Universitatis Babes-Bolyai Physica XLX. (3-4a) 713-717. 2005
- 11) Low intensity gamma radiation effects in young plantlets assimilatory pigments. Racuciu. M., Creanga, D.E., Studia Universitatis Babes-Bolyai Physica XLVIII. (2) 522-526, 2003
- 12) Electrical field action on lipid bilayer-mathematical model Creanga, D.E. Studia Universitatis Babes-Bolyai Physica XLVIII. (2) 586-589. 2003
- 13) Mathematical Approach On The Free Ca<sup>2+</sup> Kinetics In The Muscle Cell. Creanga, D.E., Studia Universitatis Babes-Bolyai Physica XLVIII, (2) 590-593, 2003
- 14) Carotene content under magnetic liquid influence in oak seedlings. Herea, D., Iacob. GH., Marele. A., Creanga, D., *Analele Univ. Vest Timisoara*, 44: 213-215, 2003
- 15) Fuzzy model on the fly electroretinogram Creangă. D., *Analele Univ. Vest Timisoara*. 44: 227-231, 2003
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