



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) Dorina-Emilia / CREANGA
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E-mail dorina.creanga@gmail.com; mdor@uaic.ro
Nationality Romanian
Date of birth 05.12.1955
Gender Female

Present employment / position **University professor**

Work experience

Dates	1. 2009 – present 2. 2003-2009 3. 1997-2003 4. 1994-1997 5. 1991-1994 6. 1979-1991
Occupation or position held	1. Professor 2. Associated professor 3. Lecturer 4. Associated lecturer 5. Assistant professor 6. Physicist
Name and address of employer	1,2,3,4,5 -Alexandru Ioan Cuza University of Iasi, Faculty of Physics 6. Antibiotics plant, Iasi
Type of business or sector	1,2,3,4,5 Education 6. Pharmaceutical Industry

Education and training

Dates	1. 2. 2005, June; 2004, June 3. 2002, July 4. 2000, October 5. 1999, April-May 6. 1994-1999 7. 1981, June 8. 1980, August 9. 1978, August 10. 1978-1979 11. 1974-1978
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1. 2. French Romanian Summer Course of Biochemistry, Iasi, 10th Edition, 9th Edition
 3. Basics and Advanced Applications of Magnetic Resonance Imaging and Localized Spectroscopy, Neptun, Romania
 4. TEMPERE short course, Patras, Greece
 5. French Romanian Seminary on Clinical Dosimetry, Iasi
 6. PhD program, Iasi and Cluj Napoca, Romania
 7. Specialization in industrial chemistry
 8. Heavy ions summer course, Brasov, Romania
 9. Plasma Physics specialization in Greifswald University, Germany
 10. Post graduate specialization in *plasma physics, optics and spectroscopy, atom and molecule physics*, Faculty of Physics, Iasi, Romania
 11. Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania

Title of qualification awarded
 1, 2,3,4,5 Diplomas of participation;
 6 –PhD in Biophysics
 7,8,9- diplomas of participation
 10-diploma of specialization in *plasma physics, optics and spectroscopy*,
 11 -physicist

Principal subjects/occupational skills covered
 1,2. Biochemistry and genetics 3,4,5 Medical physics 6. Biophysics and biomagnetism in the visual system
 7,8,9 pharmaceutical chemistry, heavy ion physics, plasma physics
 10. plasma physics, optics and spectroscopy
 11. physics

Name and type of organisation providing education and training
 1,2. University of Lille (Fr.) 3. Romanian Cultural Foundation and International Society for Magnetic Resonance in Medicine, 4. Medical School of Patras (Gr.) 5. IAEA Viena (Austria) 6-Univ Babes Bolyai Cluj-Napoca (Ro) 7, ICCHIM Bucuresti, (Ro) 8, IFA Bucuresti, (Ro) 9, Univ of Greifswald (Germany) 10, 11 Alexandru Ioan Cuza University of Iasi, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

English, French English C1, C2, B1, B2; French C1, C2, B1, B2

Self-assessment
European level ()*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	B2	Independent user	B1	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

The grid consists of three broad levels as follows:

- Basic user (levels A1 and A2);
- Independent user (levels B1 and B2);
- Proficient user (levels C1 and C2).

Please replace the above example with the appropriate level you scale yourself. For example, level 1 (A, B, C) is lower than level 2 (A, B, C)

Professional skills and competences	<p>Courses /Seminars/Laboratories</p> <p>New courses introduced in the faculty</p> <p>Molecular and cellular biophysics (Course, laboratory)-2 years</p> <p>Biotechnologies (Course, laboratory)-3 years</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>Radiobiology (Course, laboratory)-12 years</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)-6 years</p> <p>Environmental biotoxicology (Course, laboratory)-1 year</p> <p>The action of electromagnetic field upon complex systems (Course, laboratory)-2 years</p> <p>Organization of laboratoaries: Biophysics of systems -12 laboratory applications), Radiobiology-12 laboratory applications), Bioelectromagnetism - 6 laboratory applications)</p> <p>At present time: Radiobiology, Bioelectricity-fundamental and clinical applications, Neurobiophysics</p>
Organisational skills and competences	Experience in "peer review" activities; organization of scientific meetings
Memberships	<p>Romanian representative at EOMP (Eur Org Med Phys)</p> <p>Member of Romanian Physics Society</p> <p>Member of European Physics Society</p> <p>Member In CFMR (College of Medical Physicists in Romania)</p> <p>Member in Romanian Society of Pure and Applied Biophysics- responsible of Iasi filial</p>
Organisational / managerial skills	<p>Replace with your organizational / managerial skills. Specify in what context they were acquired.</p> <ul style="list-style-type: none"> ▪ leadership - currently responsible and funding member of editorial board of Revista de Fizica Medicala, published on-line by CFMR (Romanian College of Medical Physicists); ▪ currently-member in Editorial Board of Romanian Journal of Biophysics ▪ organizational (member in Organizing Committees of Int Conf Phys Adv Mater: ICPAM-11, ICPAM-10, ICPAM-9, Conf Nat Biophys: CNB 2005, 2013, 2015, Physics and Technology of Modern Education: FTEM 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015) ▪ Research project responsible for national and international projects (<i>listed below</i>) <p><i>Erasmus accords:</i> National Institute of Chmistry,Ljubljana, Slovenia, University of Ljubljana, Slovenia, Niyregyhaza University,Hungary, Instituto Tecnico Superior, Lisabon, Portugal, Johanes Kepler University, Linz, Austria</p>
Job-related skills	<p>Replace with any job-related skills not listed elsewhere. Specify in what context they were acquired. Example:</p> <ul style="list-style-type: none"> ▪ good command of quality control processes (Member in ARACIS – The Romanian Agency for Quality Assurance in Higher Education, Specialty Commission C1: Exact Sciences and Natural Sciences - for quality audit in educational physics in universities) ▪ Member in coordination commissions of PhD programs (9 commissions at present time), referent to PhD theses, -member in commissions for occupation of new academic positions in my university and other institutions
Teaching activity abroad	ERASMUS staff exchange program – Hungary (Niyregyhaza University) – 2014-2016
Scientific research activity	<p>Please replace this text by the following sequence:</p> <ol style="list-style-type: none"> a) research fields; magnetic nanoparticles and bioeffects, intermolecular interactions in condensed matter,biomagnetism;radiobiology, b) scientific grants (total number) 16 (listed below) c) ISI (Thomas Reuter) 123 publications; d) h-index: 11- by Thomas Reuter; 10- by Scopus; 17- by Google scholar

Awarded
articles
UEFISCDI PRECISI

Nadejde, C.; **Creanga, D.E.** ; Humelnicu, I.; Filip, E. ; Dorohoi, D.O., 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
Poiata, A., Motrescu, I., Nastuta, A., **Creanga, D.**, Popa, Gh., Microorganism response to atmospheric pressure plasma helium DBD treatment, **J. Electrostat.**, 68(2), 128-131, 2010
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
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. **Bioelectrochem.**, 93, 51-58, 2013
Pretegianni, E., Astefanoaei, C., Daye, P. M., FitzGibbon, E. J., **Creanga, D. E.**, Rufa, A., Optican, L. M. Action and perception are temporally coupled by a common mechanism that leads to a timing misperception. **J. Neurosci.** 35(4), 1493-1504, 2015
Andries, M.; Pricop, D., Oprica, L., **Creanga, D.E.**, Iacomi, F., The effect of visible light on gold nanoparticles and some bioeffects on environmental fungi,, **Int. J. Pharmaceut.**, 505(1-2), 255-261, 2016

Additional information

Please include here any other information that may be relevant

Appendices

Please attach a selection of journal papers, books, research grants, brevets, etc. relevant for the master program(s) under assessment

Data Noiembrie 2016-

Semnatura

ANEXE - lista principalelor lucrari publicate

- A. 1. PhD Thesis: "The Study of some physical factors on photoreception phenomena" (Studiul influenței unor factori fizici asupra fenomenelor fotorecepției"), Scientific advisor: prof. dr. V.V. Morariu, Univ. Babeș Bolyai – Cluj Napoca, 1999

Books and book chapters

B. Carti si capitole in carti

- 1) Elements of Biomagnetism, (Elemente de Biomagnetism), D. Creanga, Univ. Al. I. Cuza Publishing House, 2010, Iasi, 2010, 125 pag.
- 2) Elements of radiobiophysics (Elemente de radiobiofizica), D. Creanga, Ed. Cermi, Iasi, 2005, 200 pag.
- 3) Electric properties of cell membranes (Proprietăți electrice ale membranelor celulare), Neacsu, I., Creangă, D., 2003, Ed. Univ. Al. I. Cuza-Iasi, 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., Bucuresti, 2004, pag. 274-297
- 5) Experiments of general physics and biophysics (Experimente de fizica generală si biofizică), Edit. Univ. Al.I.Cuza-Iasi, 2000, Alexandroaie, D., Creangă, D., Delibas, M., Dorohoi, D., s.a. (24 pag. D. Creangă)
- 6) Laboratory works in biophysics (Lucrări de laborator de Biofizică), Edit. Univ. Al. I. Cuza-Iasi, 2003, Creangă, D.E., 235 pag
- 7) Laboratory works in radiobiology (Lucrări de laborator de Radiobiologie), Edit. Univ. Al. I. Cuza-Iasi, 2002, Creangă, D.E., 185 pag.
- 8) Introduction in molecular and cytotoxic biophysics (Introducere in biofizica moleculară si citotoxică), Edit. Apollonia-Iasi, 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, Netherland, pag. 367-371
- 11) Aspects of genetics, ecology and population evolution (Aspecte ale geneticii, ecologiei si evolutiei populatiilor), Ed. Corson-Iasi, 2002, Creangă, I., Surugiu, I., Creangă, D.E., Bara, I.I. (tot. 160 pag. (Chapter 5, The theory of deterministic chaos – semi-quantitative approach method in the study of natural systems – 20 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.

C. Proiecte de cercetare - director/responsabil

1. Grant CEEEX (Complex Exploratory Research) „Researches regarding the bio-electromagnetic interaction and biological impact of human exposure to electromagnetic fields of radiofrequency and microwaves”, director partner UAIC Creanga D., 2005-2007
2. PN II grant no. 71046 BIOMAG, „New biomagnetometric methods and techniques of high resolution for biomedical investigation and diagnosis,” director partner UAIC Creanga D. 2008-2010
3. PN II grant IDEAS, Exploratory Research, „Study of molecular and cellular mechanisms triggered through the impact of magnetic contamination and electromagnetic pollution on living organisms”, director Creanga D., 2009-2011
4. Project CNCSIS type A, no. 1379, „Study of some biological effects of biocompatible magnetic fluids”, director Creanga D., 2007-2008
5. Project B.EN.A – Balkan Environmental Association-(Greece), „Study on the biological effects induced in the living bodies by the electromagnetic fields; assessment of the risk on the environment for the identification of the areas where pollution combat is required or ecological reconstruction”, 2008
6. Project FP7 - People IRSES, CERVISO „Cerebellum in visual spatial orientation”, No. 269263, 2009-2015, responsible Romania, Creanga, D.
7. Project IUCN JINR - DUBNA, 04-4-1121, “Investigations of Condensed Matter by Modern Neutron Scattering Methods”, theme 57: *Metal based nanoparticles and some bioeffects*, responsible Romania, Creanga, D., 2015
8. Project IUCN JINR - DUBNA, 04-4-1121, “Investigations of Condensed Matter by Modern Neutron Scattering Methods”, theme 79: *Yielding of magnetic nanoparticles with various chemical composition and study of their bioeffects*, responsible Romania, Creanga, D., 2016
9. Project IUCN JINR - DUBNA, 04-4-1121, “Investigations of Condensed Matter by Modern Neutron Scattering Methods”, theme 80: *Gold nanoparticles in aqueous suspension for applications in environment sciences*, responsible Romania, Creanga, D., 2016.

Proiecte de cercetare - membru in echipa

10. PN II project BIOELECTRA- no. 41089/2007 “New methods and medical techniques for investigation, diagnosis, non-invasive monitorisation with nonionizing electromagnetic radiations”, 2007-2008
11. Project IUCN JINR - DUBNA „Study of the impact of low radiation doses on some biological samples” 2008
12. Project CNCSIS-type E-, „Optoelectronic instalation with laser for real time measurements”, 2002
13. MCT-Biotech-03-3-PED-340/Grant.No.677, „Optimization of biodegradation of wastes from forestry industry by cellulolytic microorganismsthyrough the utilization of stimulatory factors” 2003-2004,
14. Project CNCSIS type A -, „Researchers in biophysics and medical physics”, 1999-2001

15. Project No. 61-16 / 18.09.2007 - PN II Complex Exploratory Research, „Molecular characterization of action mechanisms of antimicrobial peptides and de novo prediction of some structures with enhanced antimicrobial potential”, 2007-2010
16. CNCISIS-type A-„Study of fractal feature in blood cells and vegetal ones” 2004-2006.

D. Articole in reviste ISI

1. Puscasu, E. Sacarescu, L. Lupu, N. Grigoras, M. Oanca, G. Balasoiu, M. **Creanga, D.**, Iron oxide-silica nanocomposites yielded by chemical route and sol-gel method, **J. Sol-Gel Sci. Technol.**, 79(3), 457-465, 2016
2. 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.**, 1126, 177-185, 2016
3. 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), 946-956, 2016
4. Oanca, G. **Creanga, D.** Nadejde, C. Dorohoi D.O., Universal and specific interactions in caffeine diluted solutions, **Rev. Roum. Chim.**, 60(11-12), 1073-1077, 2015
5. Oanca, G., Stare, J., Gritco Todirascu, A., **Creanga, D.**, Dorohoi, D.O., Substituent influence on the spectra of some benzof[quinoline derivatives, **J. Mol. Struct.**, 1126, 158-164, 2016
6. Lupusoru, R.V., Pricop, D.A., Andries, M., **Creanga D.**, Light wavelength influence on surface plasmon resonance in citrate-gold nanosystems, **J. Mol. Struct.**, 1126, 192-199, 2016
7. Andries, M.; Pricop, D., Oprica, L., **Creanga, D.E.**, Iacomi, F., The effect of visible light on gold nanoparticles and some bioeffects on environmental fungi, **Int. J. Pharmaceut.**, 505(1-2), 255-261, 2016
8. 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
9. Cirtoaje C., Petrescu, E. Stan C., **Creanga D.**, Ferromagnetic nanoparticles suspensions in twisted nematic, **Physica E**, 79, 38-43, 2016
10. 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
11. 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
12. 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
13. Muresan El, Piroi C, **Creanga D**, Stelea L, Oprica L, Sandu I., Glycidyl Esters Used for Multifunctional Finishing of Textile Materials., **Rev. Chim.**, 67(5), 871-875, 2016
14. Plamadeala, C., Woijsack, A., **Creanga D.**, Micronuclei versus chromosomal aberrations induced by X-ray in radiosensitive mammalian cells, **Ir. J. Public Health**, 44(3), 325-31, 2015
15. 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
16. 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
17. Nadejde, C., Ursu, L., **Creanga, D.**, Dorohoi, D., Solvatochromic behaviour of rifampicin in diluted solutions., **Rev. Chim.**, 66(3), 360-363, 2015
18. 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
19. Pretegianni, E., Astefanoaei, C., Daye, P., FitzGibbon, E., **Creanga, D.**, Rufa, A., Optican, L. M., Action and perception are temporally coupled by a common mechanism that leads to a timing misperception., **J. Neurosci.**, 35(4), 1493-1504, 2015
20. Poiata, A., **Creanga, D.**, Magnetic nanoparticle influence on pseudomonas metabolites with antimicrobial properties, **Rom. J. Phys.**, 60(1-2), 228-236, 2015
21. Vochita, G. Focea-Ghioc, R., **Creanga, D.**, Direct versus indirect radiation action in irradiated vegetal embryos, **Cent. Eur. J. Biol.**, 9(10), 993-1003, 2014
22. Stan, C., Astefanoaei, C., Pretegianni, E., Optican, L., **Creanga, D.**, Rufa, A., Cristescu, C.P., Nonlinear analysis of saccade speed fluctuations during combined action and perception tasks. , **J. Neurosci. Meth.**, 323, 102-109, 2014
23. **Creanga, D.**, Nadejde, C., Molecular modelling and spectral investigation of some triphenyltetrazolium chloride derivatives, **Chem. Pap.**, 68(2), 260-271, 2014

24. 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
25. Astefanoaei, C., **Creanga, D.**, Pretegiani, E., Optican, L.M., Rufa, A., Dynamical complexity analysis of saccadic eye movements in two different psychological conditions, **Rom. Rep. Phys.**, 4, 1038-1056, 2014
26. Oprica, L. Ungureanu, E., Vochita, G. **Creanga, D.** Miclaus, S., Electromagnetic exposure influence on protein synthesis in cellulolytic fungus - an environmental issue, **Rom. J. Phys.**, 59 (7-8), 817-825, 2014
27. 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
28. 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. , **Bioelectrochem.**, 93, 51-58, 2013
29. 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
30. Foca-nici, 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
31. Focea, R., Poiata, A., **Creanga, D.**, Luchian, T., S. aureus response to accelerated electrons and low dose X-rays, **Rom. J. Phys.**, 57(7-8), 1167-1177, 2012
32. Ionita-Mironescu, C., Vrincianu, D., Bara, I., **Creanga, D.**, Racuciu, M., Genotoxic effects of electromagnetic exposure to ELF fields investigated at the level of meristematic tissues, **Rom. J. Phys.**, 57(7-8), 1177- 1184, 2012
33. **Creanga, D.**, Nadejde, C., Gasner, P., Dynamical analysis of heart beat from the viewpoint of chaos theory, **Rom. J. Phys.**, 56(1-2), 177-185, 2011
34. Ursache, M., Focanici E., **Creanga, D.**, Caltun, O., Sunflower chlorophyll levels after magnetic nanoparticle supply , **Afr. J. Biotechnol.**, 10(36), 7092-7098, 2011
35. Goiceanu, C., Danulescu, R., Danulescu, E., Tufescu, F., **Creanga, D.**, Exposure to microwaves generated by radar equipment: case-study and protection issues, **Environ. Eng. Manag. J.**, 10(4), 469-584, 2011
36. **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
37. Răcuciu, M., **Creangă, D.E.**, Airinei, A., Chicea, D., Bădescu, V., The synthesis and properties of magnetic nanoparticles coated with biocompatible compounds, **Mater. Sci. Pol.**, 3(28), 609-616, 2010
38. Poiata, A., Motrescu, I., Nastuta, A., **Creanga, D.**, Popa, Gh., Microorganism response to atmospheric pressure plasma helium DBD treatment, **J. Electrostat.**, 68(2), 128-131, 2010
39. Ursache, M., Mindru, G., **Creanga, D.**, Tufescu, F., Goiceanu, C., The effects of high frequency electromagnetic waves on the vegetal organisms, **Rom. J. Phys.**, 54(1-2), 133-145, 2009
40. Poiata, A., **Creanga, D.**, Airinei, A., Tupu, P., Goiceanu, C., Avadanei, O., Magnetic nanoparticles for biosensor model based on bacteria fluorescence , **J. Eur. Opt. Soc.**, 4, 7, 2009
41. Răcuciu, M., **Creangă, D.**, Olteanu, Z., Water based magnetic fluid impact on young Plants growing, **Rom. Rep. Phys.**, 61(2), 259–268, 2009
42. Răcuciu, M., **Creangă, D.E.**, Cytogenetical changes induced by β -cyclodextrin coated nanoparticles in plant seeds, **Rom. J. Phys.**, 54(1-2), 125-131, 2009
43. Răcuciu, M., **Creangă, D.E.**, Biocompatible magnetic fluid nanoparticles internalized in vegetal tissue , **Rom. J. Phys.**, 54(1-2), 115-124, 2009
44. Claudia Nădejde, Dorina E. Creangă, Elena Filip, Dana O. Dorohoi,, Spectral investigation of triphenylformazan derivatives in ultraviolet light, **Rom. J. Phys.**, 54(7-8), 649–657, 2009
45. 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
46. 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
47. **Creanga, D.**, Poiata, A., The effect of ferrofluid and iron salts upon Pseudomonas aeruginosa growth, **Optoel. Adv. Mater. RC**, 2(8), 488-490, 2008
48. Răcuciu, M. Apetroaie, N. **Creangă, D.**, Size analysis of biocompatible magnetic nanoparticles colloids , **Optoel. Adv. Mater. RC**, 2(3), 212-215, 2008
49. Răcuciu, M., **Creangă, D.**, Airinei, A., Bădescu, V., Synthesis method influence on water based magnetic fluid properties, **J. Optoel. Adv. Mater.** , 10(3), 635-638, 2008

50. Racuciu, M., **Creanga, D.**, Badescu, V., Airinei, A., Room temperature synthesis of magnetic nanoparticles , **J. Optoelect. Adv. Mater.**, 10(11), 2928-2931, 2008
51. **Creanga, D.E.**, Iacob, Gh., Nadejde, C., Ursache, M., Racuciu, M. , Magnetic fluids as drug carrier in magnetically assisted chemotherapy - an experimental study , **J. Optoelect. Adv. Mater.**, 10(3), 628-631, 2008
52. Racuciu, M., **Creanga, D.E.**, Apetroaie, N., Birsan, E., Dimensional comparative study of magnetic nanoparticles dispersed in water or kerosene, **J. Optoelect. Adv. Mater.**, 10(2), 280-283, 2008
53. Răcuciu, M., **Creangă, D.E.**, Cytogenetic changes induced by aqueous ferrofluids in agricultural plants , **J. Magn. Magn. Mater.**, 311(1), 288-291, 2007
54. Răcuciu, M., **Creangă, D.E.**, Influence of water-based ferrofluid upon chlorophylls in cereals , **J. Magn. Magn. Mater.**, 311(1), 291-294, 2007
55. Racuciu, M., **Creanga, D.E.**, Tupu, P., Birsan, E., Comparative study on magnetic nanoparticles colloids stability, **J. Optoelect. Adv. Mater.**, 9(4), 946-948, 2007
56. Racuciu, M., **Creanga, D.E.**, Apetroaie, N., Badescu, V., Dimensional analysis about water based ferrofluids, **J. Optoelect. Adv. Mater.**, 9(6), 1633-1636, 2007
57. Racuciu, M., **Creanga, D.E.**, Airinei, A., Badescu, V. , Synthesis and physical characterization of magnetic nanoparticles functionalized with beta cyclodextrin, **J. Optoelect. Adv. Mater.**, 9(5), 1530-1533, 2007
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