


PERSONAL INFORMATION	Dorina-Emilia CREANGA
	<p>University „Alexandru Ioan Cuza”, Faculty of Physics, Iași, Romania</p> <p>+040232201064 +040747128728</p> <p>mdor@uaic.ro, dorina.creanga@gmail.com</p>
	<p>Sex Fem. Born 05/12/1955 Nationality Romanian</p>

PROFESIONAL EXPERIENCE -	
1991-2018	University „Alexandru Ioan Cuza”, Faculty of Physics, Iași, Romania (Assistant Professor, Lecturer, Associated Professor, Professor habilitated)
-1988-1990	- Polytechnic Institute Iași, Romania (Associated Assistant Professor)
-1979-1991	-Antibiotic Plant, Iași, Romania (Physicist)

Research domains

Main research domains:

Bioeffects of radiation and metallic nanoparticles, Biophysics - bioelectromagnetism and neurobiophysics

Current research work domains:

Properties of multilayered magnetic metal nanoparticles and their impact on the environment

Synthesis, physical characterization and bioeffects of metal non-magnetic nanoparticles

Genotoxicity and cytotoxicity of electromagnetic radiations

The analysis of complex systems –biosignal analysis

EDUCATION AND TRAINING

Dates (duration)	
2017	Habilitation Thesis „ Contributions to the study of metallic nanoparticles with applications in life sciences, University „Alexandru Ioan Cuza ”, Iași, 2017, November.
2005	Romanian French Summer School of Biochemistry, 10th Ed. University „Alexandru Ioan Cuza”, Iași, Romania Faculty of Biology in collaboration with Lille University, France) -1 month
2004	Romanian French Summer School of Biochemistry, 9th Ed. University „Alexandru Ioan Cuza”, Iași, Romania Faculty of Biology in collaboration with Lille University, France) -1 month
2002	Short Summer Courses on Fundamental and applications of Imagistics through Magnetic Resonance and Localized Spectroscopy, Neptun, România (organized by Fundația Culturală Română and International Society for Magnetic Resonance in Medicine)– 1 week
1999	Short Summer Courses TEMPERE (Training and Education for Medical Physics and Engineering Reform In Europe) at Medical School in Patras, Greece –1 week
1998	Romanian French Seminar of Clinical Dosimetry (organized by IAEA, International Atomic Energy Agency, Vienna, Austria), Iași, Romania-1 month
1995-1999	PhD Thesis Diploma of Doctor in Biophysics (<i>Cum laudae</i>), Faculty of Physics, University “Babeș-Bolyai”, Cluj-Napoca, România
1984 -1985	Intensive Course in German Language – 1 year at University „Alexandru Ioan Cuza”, Iași, Faculty of Philology
1983-1984	Intensive Course in English Language – 1 year at University „Alexandru Ioan Cuza”, Iași, Faculty of Philology
1981	Professional Specialization Course in Industrial Chemistry at Central Institute of Chemistry (ICCHIM), București, România - 1 month
1980	Summer Course In Heavy Ions Physics, Brașov, România (organized by IFA, Institute Of Atomic Physics, București) – 1 month

1977-1978	Specialization of one year (2 nd cycle) in Optics Spectroscopy, Plasma Physics, University „Alexandru Ioan Cuza”, Iași, Faculty of Physics
1977	Specialization in Plasma Physics at the University of Greifswald, Germany - 1month
1974-1978	Physics Faculty (1 st cycle) at University „Alexandru Ioan Cuza”, Iași, Romania

Mother language(s)	Romanian				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Interactive discussions	Discussion initiator	
English	B1	B1	B1	B1	C1
	Nivel.				
French	B1	B1	B1	B1	C1
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user				

Communication abilities	<ul style="list-style-type: none"> Good communications with student generations to whom I taught several courses of Biophysics and Medical Physics. Good communications with people attending the national and international scientific where I presented invited lectures, oral and poster presentations. Good communications with the UAIC partners in Erasmus - Erasmus plus programs I have initiated for the exchange of students and university staff. Good communications with the editors of scientific journals and the submitting authors of articles sent to me for analysis. (Sensors & Actuators A., Int J Nanotech, BMC Biotechnol, J Magn Magn Mater, Colloids & Surfaces A, Int J Radiat Biol, J Ecol Natur Environ, J Med Med Res, Asia Sci, Colloids & Surfaces B, Int J Phys Sci, Int Res J Biotechn, Afr J Biochem Res, Int J Nutr Metabol, Afr J Microbiol Res, J Clin Med Res, J Bacteriol Res, J Biophys Struct Biol, Int J Med Res, J Mol Struct and others)
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Organizing and management abilities	<ul style="list-style-type: none"> Chief Editor and foundation member of Revista de Fizică Medicală (under CFMR - Colegiul Fizicienilor Medicali din România - College of Romanian Medical Physicists) Member in Editorial Board of Romanian Journal of Biophysics Member in organization committees of: International Conference of Physics of Advanced Materials (ICPAM): ICPAM 12, ICPAM-11, ICPAM-10, ICPAM-9, - National Biophysics Conference: CNB 2005, 2013, 2015, - Conference on Physics and Modern Educational Techniques in Iași, Romania: FTEM 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015) Conference of CFMR (Colegiul Fizicienilor Medicali din România- College of Romanian Medical Physicists), 2017, 2015, 2013 Director-responsible of several research teams de funded through national and international projects (listed below)
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Abilities related to profession practice	<ul style="list-style-type: none"> Member of Commission 1- Exact Sciences and Nature Sciences of ARACIS (Agentia Română de Asigurare a Calității în Învățământul Superior - Romanian Agency for the Insurance of Quality in University Education. Member of Physics Commission of CNATCU (Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare - National Council for Attestation of University Titles, Diplomas and Certificates (Appeal Board) Member of PhD Student supervision at University „Alexandru Ioan Cuza”, Iași (19 commissions from 2006 up to present time) <p>Referent to PhD theses presented in public session in Romania, at University „Alexandru Ioan Cuza”, Iași, University of Medicine and Pharmacy Iași, University Babes- Bolyai Cluj-Napoca, Technical University Iași. Member in contest commissions for positions of lecturers, associated professors, professors, medical physicists at University „Alexandru Ioan Cuza”, Iași, University Babes-Bolyai Cluj-Napoca, University of Agriculture and Veterinary Medicine Iași, Institute of Public Health Iași, National Institute of Research and Development for Technical Physics, Iași, Univ. Apollonia Iași, Hospital Sf. Maria Iași</p>
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Competence in IT	Information Processing	Communication	Content generation	Problem solving
		Basic user	Basic user	Basic user

ADDITIONAL INFORMATION

Member in Physics Organizations	<p>Representative of CFMR (Colegiul Fizicienilor Medicali din România) to EOMP (Eur Org Med Phys) 2016-2018</p> <p>Member of Romanian Society of Physics</p> <p>Member of European Physics Society</p> <p>Member of CFMR (Colegiul Fizicienilor Medicali din România)- College of Romanian Medical Physicists)</p> <p>Member of Romanian Society of Pure and Applied Biophysics (president of Iasi division since 2015)</p>
Publications in specialty journals. Citations	<p>142 publications in specialty journals visible on (ISI Web of Science -Thomas Reuter)</p> <p>a) Hirsch -index h=16 according to Thomas Reuter</p> <p>h index-16 according to Scopus;</p> <p>h index=21 according to Google Scholar</p>
Books and book chapters	<p><u>D. Creangă</u>, S. Dunca, A. Poiată. Some aspects regarding bacteria sensitivity to physical constraints of magnetic nature. In <i>Advances in Medicine and Biology</i>, Volume16, Chapter 11, pp. 287-302. Nova Publishers, 2011.</p> <p>Bazele biomagnetismului, (Fundamentals of Biomagnetism) <u>Creangă, D.</u>, Ed. University „Alexandru Ioan Cuza -Iași, 2010, 125 pag.</p> <p>Elemente de radiobiofizică, (Elements of Radiobiophysics) <u>Creangă, D.</u> 2005, Ed.CERMI,199 pag.</p> <p>Proprietăți electrice ale membranelor celulare, (Electric properties of cell membranes) Neacșu, I., <u>Creangă, D.</u>, 2003, Ed. Univ. Al. I. Cuza-Iași, 292 pag.</p> <p>Chaos and fractal features in heart electric activity, autor <u>D. Creangă</u>, in <i>Interdisciplinary applications of fractal and chaos theory</i>, Ed.; R. Dobrescu, C. Vasilescu, Ed. Acad. Rom., București, 2004, pag. 274-297</p> <p>Lucrări de laborator de Radiobiologie (Laboratory works of radiobiology), <u>Creangă, D.E.</u>, Edit. University „Alexandru Ioan Cuza -Iași, 2002, 185 pag.</p> <p>Experimente de fizică generală și biofizică, (Experiments of general physics and biophysics) Edit. University „Alexandru Ioan Cuza -Iași, 2000, <u>Alexandroaie, D.</u>, <u>Creangă, D.</u>, Delibas, M., Dorhoi, D., ș.a.(24 pag. <u>D. Creangă</u>)</p> <p>Lucrări de Laborator de Biofizică, (Laboratory works of biophysics) <u>Creangă, D.E.</u>, Edit. University „Alexandru Ioan Cuza -Iași, 2003, 235 pag</p> <p>Introducere în biofizica moleculară și citotisulară, (Introduction to molecular and cyto-tissular biophysics) Edit. Apollonia-Iași, 2002, Isac, R.M., Topliceanu, F., <u>Creangă, D.</u> 350 pag</p> <p>Elemente de electrofiziologie, (Elements of electrophysiology) <u>D. Creangă</u>, Ed. Cermi, 157 pag., 2003</p> <p>Aspecte ale geneticii, ecologiei și evoluției populațiilor, Creangă, I., Surugiu, C.I., <u>Creangă, D.</u>, Băra, I.I., Ed. Corson, Iași, 2002, (Chapter 5, Teoria haosului deterministic metode de studiu semi – cantitative în studiul sistemelor naturale -Theory of deterministic chaos-semiquantitative methods of natural system study)– 20 pag</p> <p>Application of fuzzy logic to visual system modeling, autori: <u>Creangă, D.</u>, Isac, M., Isac, R.M., in <i>Advances in intelligent systems</i>, Ed. F.C. Morabito, IOS Press, 1997, Amsterdam, Olanda, pag. 367-371</p>

<p>Director of research projects - national and international</p>	<ol style="list-style-type: none"> 1. Project CEEEX (Complex Exploratory Research) - Research on the bioelectromagnetic interactions and the <i>biologic impact of human exposure to electromagnetic fields of radiofrequency and microwaves</i>, 2005-2007, 115000 lei director partner University „Alexandru Ioan Cuza”, Iași Creanga D. 2. PN II no. 71046 BIOMAG, - New methods and techniques of high resolution for biomedical investigation <i>and diagnosis</i>, 2008-2010, 30000 lei, director partner University „Alexandru Ioan Cuza”, Iași Creanga D. 3. PN II, IDEAS 2021/474 -<i>Study of molecular and cellular mechanisms triggered by the impact of magnetic contamination and electromagnetic exposure on living organisms</i>, 2009- 76681 lei, 2010-100000 lei, 2011-179121 lei director Creanga D., 2009-2011 4. CNCSIS type A –No. 1379,2007-2008, Study of some biological effects of biocompatible magnetic fluids , 2007- 40000 lei, 2008-60000 lei, director Creanga D., 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, 1220 euro, director Creanga, D., 6. Project FP7 - People IRSES, CERVISO „Cerebellum in visual spatial orientation”, No. 269263, 2009-2015, responsible Romania, Creanga, D., 32500 euro 7. Project IUCN JINR - DUBNA, 04-4-1121, “Investigations of Condensed Matter by Modern Neutron Scattering Methods”, item 57: <i>Metal based nanoparticles and some bioeffects</i>, responsible University „Alexandru Ioan Cuza”, Iași Romania, director Creanga, D. 2015 8. Project IUCN JINR - DUBNA, 04-4-1121, item 79: <i>Yielding of magnetic nanoparticles with various chemical composition and study of their bioeffects</i>, responsible University „Alexandru Ioan Cuza”, Iași Romania, director Creanga, D., 2016 9. Project IUCN JINR - DUBNA, 04-4-1121, item 80: <i>Gold nanoparticles in aqueous suspension for applications in environment sciences</i>, responsible University „Alexandru Ioan Cuza”, Iași Romania, director Creanga, D. , 2016 10. Project IUCN JINR - DUBNA, 04-4-1121, <i>Multilayered nanoparticles with organic/inorganic composition and biological impact</i>, item 62, responsible University „Alexandru Ioan Cuza”, Iași Romania, director Creanga, D., 2017 11. Project IUCN JINR - DUBNA, 04-4-1121, item 68, <i>Silanized magnetic nanoparticles with potential utilization in environmental applications</i>, responsible from University „Alexandru Ioan Cuza”, Iași Romania, director Creanga, D., 2018 12. Project IUCN JINR - DUBNA, 04-4-1121, item 85, New nanocomposite layers and thin films based on graphene and polymers for hybrid solar cell and medical applications, director Iași Romania, Creanga, D., 2018 13. Project JINR-Ro theme 04-4-1121/2019, item 45, Structural investigation of surface modified magnetic nanosystems synthesized by conventional or eco-friendly methods and their impact on the environment, responsible Lucian Blaga University Sibiu, Romania, ULBS-UAIC institutions partnership, responsible UAIC, D. Creanga 14. JINR-Ro Project Theme code: 04-2-1132-2017/2019, item 21: Experimental investigation of the behavior of eukaryotic environmental organisms exposed to radiation (Institute of Biology, Iasi in partnership with Alexandru Ioan Cuza University in Iasi, Romania) director D. Creanga 15. JINR-Ro Project Theme code: 04-2-1132-2017/2020, item 21, Proton beam exposure of plant seeds and the induced bioeffects-Laboratory study, (Institute of Biology, Iasi in partnership with Alexandru Ioan Cuza University in Iasi, Romania)
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	<p>16. JINR-Ro project, theme no 04-4-1121/2020 item 34, title Combined study of the structure and properties of molecules for optimal interaction with magnetic nanocore surface for various applications of resulted nanoparticles: structural characterization and theoretical quantum mechanical analysis (Lucian Blaga University in Sibiu in partnership with Alexandru Ioan Cuza University in Iasi, Romania) responsible UAIC, D. Creanga</p> <p>17. JINR-Ro project, theme no 04-4-1121/2020 item 32, Structural investigation of new functionalized nanoparticles for normal and neoplastic cell reactivity modulation (Institute of Biology, Iasi in partnership with Alexandru Ioan Cuza University in Iasi, Romania) responsible UAIC, D. Creanga</p>
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National Patent	Tufescu, F., Creanga, D., Metoda si instalatie pentru expunerea controlata la radiatii de microunde a probelor biologice in ghid de unda, (Method and installation for controlled exposure of biological samples in wave guide) 2012
Awarded articles and patents (by UEFISCDI-PRECI, Romania)	<p>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</p> <p>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</p> <p>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</p> <p>Stan, C., Astefanoaei, C., Pretegiani, 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</p> <p>Pretegiani, 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</p> <p>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., 79(3), 457-465, 2016</p> <p>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</p> <p>M. Răcuciu, D. Creangă, Magnetite/Tartaric Acid Nanosystems for Experimental Study of Bioeffects on <i>Zea Mays</i> Growth, Rom. J. Phys. 62, 804, 2017</p> <p>Tufescu, F., Creanga, D., Metoda si instalatie pentru expunerea controlata la radiatii de microunde a probelor biologice in ghid de unda, (Method and installation for controlled exposure of biological samples in wave guide) Patent OSIM, 2018</p> <p>Morosanu, A. C., Todirascu, A. G., Creanga, D. E., Dorohoi, D. O., Computational and solvatochromic study of pyridinium-acetyl-benzoyl-methylid (PABM). Spectrochim. Acta A, 189, 307-315, 2018</p> <p>Verdes-Teodor, A., Vochita, G., Creanga D., On some genotoxic effects of UV-C radiation in root meristemes in <i>Cucurbita pepo</i> L., Rom. Rep. Phys., 71, 707, 2019</p> <p>Dorohoi, D.O., Creanga, D.E., Dimitriu, D.G., Morosanu, A.C., Gritco-Todirascu, A., Mariciuc, G.G., Melniciuc, N.P., Ardelean, E., Cheptea, C., Computational and spectral means for characterizing the intermolecular interactions in solutions and for estimating excited state dipole moment of solute. Symmetry, 12(8), 1299, 2020.</p>

Teaching activity -New courses in the faculty of physics of	<p>Biofizică moleculară și celulară -Molecular and Cellular Biophysics (Course, laboratory)-Biotehnologii (Course, laboratory)-Metode fizice în biologie și medicină -Physical methods in biology and medicine (Course, laboratory)-Interacțiunea radiatiei cu materia vie (Curs, laborator)-Radiobiologie -Radiobiology (Course, laboratory)- Biofizica</p>
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	<p>sistemelor (Course, laboratory)-Bioelectromagnetism (Course, laboratory)-Electrofiziologie moleculară și celulară -Cellular and molecular electrophysiology (Course, laboratory)-Capitole speciale de bioelectromagnetism -Special chapters of biomagnetism (Course, laboratory)- Poluarea electromagnetică -Electromagnetic pollution (Course, laboratory)-Bioelectricitate – Principii fundamentale și aplicații clinice - Bioelectricity-fundamental principles and clinical applications (Course, laboratory)-Biotoxicologia mediului -Environment biotoxicology (Course, laboratory)-Acțiunea câmpului electromagnetic asupra sistemelor complexe -Action of electromagnetic field on complex systems (Course, laboratory), Neurobiophysics (Course, laboratory)</p>
Courses titular at present time	<p>RADIOBIOLOGIE- Radiobiology (1st cycle) - Course, laboratory BIOELECTRICITATE- Principii fundamentale și aplicații clinice (2nd cycle) Bioelectricity-fundamental principles and clinical applications -course NEUROBIOPHYSICS (2nd cycle in English language)-course</p>

ANEXES

Creanga Dorina Selections of articles published in journals indexed in ISI Web of Science

- 1) Gritco-Todirascu A., **Creanga D.**, Ivan L.M., Dorohoi D.O., Ciubara, A., New Qsar and solvatochromic estimation of molecular parameters of chlortetracycline, **Rev. Chim.**, 71,2, 121-127, 2020.
- 2) Dorohoi, D.O., **Creanga, D.E.**, Dimitriu, D.G., Morosanu, A.C., Gritco-Todirascu, A., Mariciuc, G.G., Melniciuc, N.P., Ardelean, E., Cheptea, C., Computational and spectral means for characterizing the intermolecular interactions in solutions and for estimating excited state dipole moment of solute. **Symmetry**, 12(8), 1299, 2020.
- 3) Babusca, D., Popescu, L., Sacarescu, L., Dorohoi, D.O., **Creanga, D.**, Oprica, L.A., Two phase photochemical synthesis of silver nanoparticles and their impact on the chlorophylls. **Molecular Crystals and Liquid Crystals**, 698, 1, 56-64. 2020.
- 4) Morosanu C., Popescu L., Sacarescu L., Dorohoi D. O., Oprica L.O., **Creanga D.**, Quantum-chemical simulation and experimental study of some magnetic nanoparticles stabilized in fluid suspensions by using organic coating, **Molecular Crystals and Liquid Crystals**, 698, 1, 38-45, 2020.
- 5) Verdes-Teodor, A., Vochita, G., **Creanga D.**, On some genotoxic effects of UV-C radiation in root meristemes in *Cucurbita pepo* L., **Rom. Rep. Phys.**, 71,707, 2019.
- 6) Popescu, L., **Creanga, D.**, Sacarescu, L., Grigoras, M., Lupu, N., Magnetic nanoparticles for methylene blue dye removal from wastewater. **U. Polit. Bucharest Sci. Bull. A**, 81(3), 241-252. 2019.
- 7) L., Oprica, Verdes A., Poroch V., Creanga D., Grigore M.-N.. Effect of different drying techniques on antioxidant capacity of two romanian red grape cultivars. **Iranian Journal Of Public Health** 48, 7 1377-1378. 2019.
- 8) Morosanu, A. C., Todirascu, A. G., **Creanga, D. E.**, Dorohoi, D. O., Computational and solvatochromic study of pyridinium-acetyl-benzoyl-methylid (PABM). **Spectrochim. Acta Part A**, 189, 307-315, 2018
- 9) L. Popescu, D. Buzatu, M. Balasoiu C. Stan, B. S. Vasile, L. Sacarescu, D. Creanga, O. Ivankov, D. Soloviov, A.-M. Balasoiu-Gaina, Study on ageing of cobalt ferrite nanoparticles and their fate in the environment, *Rom. J. Phys.*, 64, 9-10, 818, 2019
- 10) Răcuciu, M., **Creangă, D.**, Magnetite/tartaric acid nanosystems for experimental study of bioeffects on *zea mays* growth, **Rom. J. Phys.** 62, 804, 2017
- 11) Tiriba, G., Balasoiu, M., Puscasu, E., Sacarescu, L., Stan, C., **Creanga, D.E.**, Microstructural characterization of co-doped iron oxide nanoparticles, **U. Polit. Bucharest Sci. Bull. A**, 79(4), 327-336. 2017
- 12) Gritco Todirascu, A., Morosanu, C., Partenie, D., Dorohoi, D., **Creanga, D.**, Quantum mechanical and spectral comparative study of 1-p-nitro-benzoyl-benzoquinolinium methylid and 1-p-nitrobenzoyl-2,3-dicarbomethoxy-pyrrolo-<1,2a>-benzoquinoline, **Rev.Chim.**(Bucharest) 69, 9, 2331-2337, 2018
- 13) **Creanga, D.**, Balasoiu, M., Soloviov, D., Balasoiu-Gaina, A. M., Puscasu, E., Lupu, N., Stan, C. Small-angle neutron scattering investigations of Co-doped iron oxide nanoparticles. Preliminary results. In **J. Phys.: Conference Series**, 994 (1), 012009. IOP Publishing. 2018

- 14) Gritco-Todirascu A., **Creanga D.**, Ivan L., Dorohoi D., Ciubara A. New QSAR and solvatochromic estimation of molecular parameters of chlortetracycline, **Revista de Chimie, Bucharest**, 2018.
- 15) Balasoiu-Gaina, A. M., Balasoiu, M., Ivankov, O., Soloviov, D., Kuklin, A., Lysenko, S., **Creanga, D.**, Structural analysis of aqueous ferrofluids with cobalt ferrite particles stabilized with lauric acid and sodium n-dodecyl sulphate. In **J. Phys. Conference Series** (Vol. 848, No. 1, p. 012026). IOP Publishing. 2017
- 16) 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
- 17) 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
- 18) Cirtoaje, C., Petrescu, E., Stan, C., **Creanga D.**, Ferromagnetic nanoparticles suspensions in twisted nematic, **Physica E**, 79, 38-43, 2016
- 19) 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
- 20) Oanca, G., Stare, J., Gritco Todirascu, A., **Creanga, D.**, Dorohoi D.O., Substituent influence on the spectra of some benzo[f]quinoline derivatives, **J. Mol. Struct.**, 1126, 158-164, 2016
- 21) Uta, AC , Toderascu, AG , Vochita, G , Nadejde, C , **Creanga, D** Spectral and microscopy study on uv-c radiation bioeffects in some vegetal organisms, **J.Sci. Arts (JOSA)**, 2, 141-148, 2016
- 22) Motrescu I., Poiata A, Nastuta A.V., Creanga D., Popa Gh., Bioeffects of atmospheric plasma discharge on grampositive and gram-negative bacteria, **J.Sci. Arts (JOSA)**, 3(32), 249-256, 2015
- 23) 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
- 24) 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
- 25) Muresan Ei, 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
- 26) 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
- 27) Motrescu, I., Poiata, A., Nastuta, A.V., **Creanga, D.**, Popa, G., Bioeffects of atmospheric plasma discharge on Gram-positive and Gram-negative bacteria, **J. Sci. Art.**, 3, 249-256, 2015
- 28) Uta, A.C., Toderascu, A.G., Vochita, G., Nadejde, C., **Creanga, D.**, Spectral and microscopy study on UV-C radiation bioeffects in some vegetal organisms, **J. Sci. Art.**, 2, 141-148, 2016
- 29) 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
- 30) 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
- 31) 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
- 32) 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
- 33) Plamadéala, C., Wojjeck, A., **Creanga D.**, Micronuclei versus chromosomal aberrations induced by X-ray in radiosensitive mammalian cells, **Iran. J. Public Health**, 44(3), 325-31, 2015
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