

Lista lucrărilor publicate

a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de prezentul articol;

1. M. Sanduloviciu, **C. Borgia**, G. Leu, *Self-organization phenomena in current-carrying plasmas related to the nonlinearity of the current versus voltage characteristic*. Physics Letters A 208, 136-142 (1995).
2. M. Sanduloviciu, V. Melnig, **C. Borgia**, *Spontaneously generated temporal patterns correlated with the dynamics of self-organized coherent space charge configurations formed in plasma*. Physics Letters A 229, 354-361 (1997).
3. N. Dumitrascu, **C. Borgia**, *Adhesion properties of polyamide-6 fibres treated by dielectric barrier discharge*. Surface & Coatings Technology 201, 1117-1123 (2006).
4. N. Dumitrascu, **C. Borgia**, *Determining the contact angle between liquids and cylindrical surfaces*. Journal of Colloid and Interface Science 294, 418-422 (2006).
5. N. Dumitrascu, **C. Borgia**, G. Borgia, *Control of the blood-polymer interface by plasma treatment*. Journal of Biomedical Materials Research Part B-Applied Biomaterials 87B, 364-373 (2008).
6. **C. Borgia**, G. Borgia, N. Dumitrascu, *Relating plasma surface modification to polymer characteristics*, Applied Physics a-Materials Science & Processing 90, 507-515 (2008).
7. **C. Borgia**, D. Mihăilescu, *Are water-equivalent materials used in electron beams dosimetry really water equivalent?* Romanian Journal of Physics 53, 851-863 (2008).
8. **C. Borgia** et al., *Sorption of thallous ion from acidic aqueous solutions onto ETS-10 titanosilicate*, Journal of Radioanalytical and Nuclear Chemistry 288, 25-30 (2011).
9. **C. Borgia**, I. L. Pungă, G. Borgia, *Surface properties and hydrophobic recovery of polymers treated by atmospheric-pressure plasma*, Applied Surface Science 317, 103-110 (2014).
10. **C. Borgia**, M. C. Teodor, M. Oprea, L. Gorgan, D. Mihailescu, *In vitro study of radiation-induced DNA damage*. Romanian Reports in Physics 66, 16-21 (2014).

b) teza sau tezele de doctorat;

“Evoluția temporală a unei descărcări electrice în regim neliniar”,
Universitatea “Alexandru Ioan Cuza” din Iași, iunie 1999, conducător științific prof. dr. doc. Mircea Sanduloviciu

d) cărți și capitole în cărți;

1. D. Mihailescu, **C. Borgia**, “*Interactiunea radiatiilor ionizante cu substanta. Partea I: radiatii incarcate electric*”, Editura Sedcom Libris, Iasi, 2007 (265 pagini) ISBN 978-973-670-256-3.
2. **C. Borgia**, Surse de radiatii ionizante si protectia radiologica, Editura Universitatii Alexandru Ioan Cuza, 2003.
3. G. Borgia (coordonator), Alina Chiper, **Catalin Borgia**, Ionut Topala, Lucrari de laborator - Fizica atomului si moleculei, Editura Universității „Alexandru Ioan Cuza”, 2014, ISBN: 978-606-714-090-3

e) articole/studii publicate *in extenso*, în reviste din circuitul științific internațional;

Articole indexate Web of Science

11. M. Sanduloviciu, **C. Borgia**, G. Leu, *Self-organization phenomena in current-carrying plasmas related to the nonlinearity of the current versus voltage characteristic*. Physics Letters A 208, 136-142 (1995).
12. M. Sanduloviciu, V. Melnig, **C. Borgia**, *Spontaneously generated temporal patterns correlated with the dynamics of self-organized coherent space charge configurations formed in plasma*. Physics Letters A 229, 354-361 (1997).
13. M. Sanduloviciu, V. Melnig, **C. Borgia**, *Spontaneously generated temporal patterns of plasma device correlated with the dynamics of self-organized coherent space charge configurations*. ICPP 96 Contributed Papers - Proceedings of the 1996 International Conference on Plasma Physics, Vols 1 and 2, 1614-1617 (1997).
14. C. Gherman, **C. Borgia**, E. Lozneau, M. Sanduloviciu, C. Gaman, *Phenomena observed in laboratory plasmas relevant for the so-called anomalous transport observed in plasma devices*. Acta Physica Slovaca 54, 205-211 (2004).
15. N. Dumitrascu, **C. Borgia**, *Adhesion properties of polyamide-6 fibres treated by dielectric barrier discharge*. Surface & Coatings Technology 201, 1117-1123 (2006).
16. N. Dumitrascu, **C. Borgia**, *Determining the contact angle between liquids and cylindrical surfaces*. Journal of Colloid and Interface Science 294, 418-422 (2006).
17. N. Dumitrascu, **C. Borgia**, G. Borgia, *Control of the blood-polymer interface by plasma treatment*. Journal of Biomedical Materials Research Part B-Applied Biomaterials 87B, 364-373 (2008).
18. **C. Borgia**, G. Borgia, N. Dumitrascu, *Plasma induced surface modification in relation to polymer characteristics*, Journal of Optoelectronics and Advanced Materials 10, 675-679 (2008).
19. **C. Borgia**, G. Borgia, N. Dumitrascu, *Relating plasma surface modification to polymer characteristics*, Applied Physics a-Materials Science & Processing 90, 507-515 (2008).
20. **C. Borgia**, D. Mihailescu, *Are water-equivalent materials used in electron beams dosimetry really water equivalent?* Romanian Journal of Physics 53, 851-863 (2008).
21. G. Borgia, **C. Borgia**, N. Dumitrascu, *Temporal evolution of pulsed atmospheric pressure DBD in asymmetric configuration*. Romanian Journal of Physics 54, 689-697 (2009).
22. **C. Borgia**, G. Borgia, N. Dumitrascu, *Atmospheric-pressure dielectric barrier discharge for surface processing of polymer films and fibers*, IEEE Transactions on Plasma Science 37, 941-945 (2009).

23. **C. Borgia** et al., *Sorption of thallous ion from acidic aqueous solutions onto ETS-10 titanosilicate*, Journal of Radioanalytical and Nuclear Chemistry 288, 25-30 (2011).
24. **C. Borgia**, G. Borgia, N. Dumitrascu, *Surface treatment of polymers by plasma and UV radiation*, Romanian Journal of Physics 56, 224-232 (2011).
25. G. Borgia, R. Cazan, **C. Borgia**, *DBD surface modification of polymers in relation to the spatial distribution of reactive oxygen species*, Plasma Chemistry and Plasma Processing 31, 729-740 (2011).
26. M. Oprea, C. Constantin, D. Mihailescu, **C. Borgia**, *A Monte Carlo investigation of the influence of initial electron beam characteristics on the absorbed dose distributions obtained with a 9 MeV IORT accelerator*. University Politehnica of Bucharest Scientific Bulletin-Series a-Applied Mathematics and Physics 74, 153-166 (2012).
27. Oprea, M. ; Mihailescu, D. ; **Borgia, C.** ; Dimova Malinovska, D. ; Nesheva, D. ; Pecheva, E. ; Petrov, A. G. ; Primatarowa, M. T, in 17th International School on Condensed Matter Physics (ISCMP) - Open Problems in Condensed Matter Physics, Biomedical Physics and their Applications. (Varna, Bulgaria, 2012), vol. 398.
28. **C. Borgia**, N. Dumitrascu, G. Borgia, *Comparing the modification induced by plasma and UV radiation to polymer surfaces*, Romanian Reports in Physics 64, 163-172 (2012).
29. **C. Borgia**, I. L. Pungă, G. Borgia, *Surface properties and hydrophobic recovery of polymers treated by atmospheric-pressure plasma*, Applied Surface Science 317, 103-110 (2014).
30. **C. Borgia**, M. C. Teodor, M. Oprea, L. Gorgan, D. Mihailescu, *In vitro study of radiation-induced DNA damage*. Romanian Reports in Physics 66, 16-21 (2014).
31. D. Mihailescu, **C. Borgia**, *Monte Carlo simulation of the electron beams produced by a linear accelerator for intra-operative radiation therapy*. Romanian Reports in Physics 66, 61-74 (2014).

Articole în reviste internaționale neindexate Web of Science

1. M. Sanduloviciu, V. Melnig, **C. Borgia** and Gabriela Leu, "Nonlinearity of the current versus voltage characteristic related to the spontaneous generation of coherent complex structures", Int. Conf. Nonlinear Dynamics, Zakopane (1995), publicat in J. Tech. Phys. (Warszawa) 37 (1996), 553-557.
2. **Borgia, C.**, Lozneau, E., Sanduloviciu, M., "Non-linear analysis of temporal patterns generated by self-organized structures formed in plasma", Balkan Physics Letters, Bogazici University Press, BPU-4 Proceedings Supplement, 2000, p. 435-438
3. **Borgia, C.**, Sanduloviciu, M., "Experimental evidence of similarities between self-organized structures formed in D.C. and H.F. plasma", Balkan Physics Letters, Bogazici University Press, BPU-4 Proceedings Supplement, 2000, p. 479-483
4. **Borgia, C.**, Lozneau, E., Sanduloviciu, M., "Physical basis of anomalous transport observed in plasma devices", Balkan Physics Letters, Bogazici University Press, BPU-4 Proceedings Supplement, 2000, p. 483-486
5. E. Lozneau, **C. Borgia**, S. Popescu, M. Sanduloviciu, C. Ionita, D. Dimitriu, V. Ignatescu, R. Schrittwieser, "On the origin of flicker noise in various plasmas", Journal of Plasma and Fusion Research SERIES 4 (2001), 331 - 334

f) articole/studii publicate *in extenso*, în volumele conferințelor internaționale de specialitate;

1. Sanduloviciu, M., **Borcia, C.**, Melnig, V. and Gherman, C., “*Comparative studies performed on “fireballs” formed in direct current and high frequency discharges*” XXIII International Conference Phenomena in Ionized Gases, 17-22 July 1997, Toulouse, France, Proceedings Contributed Papers II, editors M.C. Bordage and A. Gleizes, p. 172-173.
2. **Borcia, C.**, Lozneau, E., Sanduloviciu, M., “*Physical basis of anomalous transport in plasma devices*”, Proceedings of the XXI-th Int. Conf. on Fusion and Plasma Physics, EPS-2000, June 2000, Budapest (Hungary), pag. 1056-1059
3. **Borcia, C.**, Lozneau, E., Sanduloviciu, M., “*Non-linear analisys of temporal patterns generated by self-organized structures formed in plasma*”, Proceedings of the 4-th General Conference of the Balkan Physics Union, 22-25 aug. 2000, Veliko-Turnovo, Bulgaria, pag. 435-438
4. **Borcia, C.**, Sanduloviciu, M., “*Experimental evidence of similarities between self-organized structures formed in D.C. and H.F. plasma*” Proceedings of the 4-th General Conference of the Balkan Physics Union, 22-25 aug. 2000, Veliko-Turnovo, Bulgaria, pag. 479-482.
5. Sanduloviciu, M., **Borcia, C.** Popescu, S. Lozneau, E., Origin of space charge configurations in plasmas, ICOPS 2000. IEEE Conference Record - Abstracts. 27th IEEE International Conference on Plasma Science, 4 - 7 Jun 2000, New Orleans, LA , USA
6. Lozneau, E. , **Borcia, C.**, Popescu, S., Sanduloviciu M., Ionita C., Dimitriu D., Ignatescu V., Schrittwieser, R., “*On the origin of flicker noise in various plasmas*”, 11-th Int. Toki Conf. (ITC-11), dec. 2000, Toki, Japan, J. Plasma Fusion Res. SERIES, Vol. 4 (2001) 331-334
7. **C. Borcia**, C. Gherman, M. Sanduloviciu, “*On the Dynamical Behavior of a High-Frequency Plasmoid*”, 28th EPS Conference on Controlled Fusion and Plasma Physics, Madeira – Portugal, 18 - 22 June 2001, ECA Vol. 25A (2001), pag. 889-892
8. **C. Borcia**, C. Gherman and M. Sanduloviciu, “*Experimental control of the proper dynamics of a H.F. plasmoid*”, Proceedings of XXVth ICPIG. Nagoya : ICPIG, 2001, p. 191-192, 21p15
9. C. Gherman, **C. Borcia**, E. Lozneau, M. Sanduloviciu and C. Gaman, *Phenomena observed in laboratory plasmas relevant for the so-called anomalous transport observed in plasma devices*, Proceedings of the XIV-th Symposium of Appplication of Plasma Processes, 13-18 Jan. 2003, Liprovsky Mikulas, Slovakia, pag. 30-31
10. **C. Borcia**, N.M.D. Brown, Study of the Properties of DLC Films Etched in a RF Oxygen Plasma, XII-th Conference on Plasma Physics and Applications, Iasi, 2003, publicat in Analele Stiintifice ale Universitatii Alexandru Ioan Cuza din Iasi, tomul XLIX, Fizica, 2003, pag. 131-136
11. N. Dumitrascu, **C. Borcia**, G. Popa, *Adhesion properties of polyamide-6 monofilaments treated by dielectric barrier discharge* ", accepted at the XXVII International Conference on Phenomena in Ionized Gases, July 17-22, 2005, Eindhoven, The Netherlands (10-165)
12. **C. Borcia**, N. Dumitrascu, G. Popa, "Cylindrical surfaces treated by atmospheric pressure plasma", 18th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), July 12-16, 2006, Lecce, Italy, Europhysics Conference

Abstracts, Volume 30 G, pp. 473-474, published by European Physical Society, ISBN 2-914771-38-X.

13. N. Dumitrascu, G. Borgia, **C. Borgia**, "Control of the blood-polymer materials interface by plasma treatments", 18th International Symposium on Plasma Chemistry (ISPC 18), August 26 – 31 2007, Kyoto University, Japan Abstracts and Full-Papers CD, edited by K. Tachibana, O. Takai. K. Ono, T. Shirafuji, published by International Plasma Chemistry Society, Abstracts, ISBN 978-4-9903773-2-8, 27P-97, p. 490, Full-Papers CD, ISBN 978-4-9903773-3-5, 27P-97, paper00229.pdf (4 pagini)

14. **C. Borgia**, N. Dumitrascu, "Evaluation of surface energetic characteristics of fibers treated by DBD", 18th International Symposium on Plasma Chemistry (ISPC 18), August 26 – 31 2007, Kyoto University, Japan Abstracts and Full-Papers CD, edited by K. Tachibana, O. Takai. K. Ono, T. Shirafuji, published by International Plasma Chemistry Society, Abstracts, ISBN 978-4-9903773-2-8, 27P-96, p. 489, Full-Papers CD, ISBN 978-4-9903773-3-5, 27P-96, paper00214.pdf (4 pagini)

15. **C. Borgia**, G. Borgia, N. Dumitrascu, "Plasma surface modification in relation to polymer properties", XXVIII International Conference on Phenomena in Ionized Gases (ICPIG), July 15-20, 2007, Prague, Czech Republic, Book of abstracts, published by Institute of Plasma Physics AS CR, p. 62, ISBN 978-80-87026-00-7, paper in extenso on CD - Proceedings of XXVIII ICPIG, published by Institute of Plasma Physics AS CR, pp. 700-703, ISBN 978-80-87026-01-4

16. **C. Borgia**, N. Dumitrascu, G. Borgia, "Atmospheric pressure plasma processing of cylindrical surfaces", 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (19th ESCAMPIG), Granada, Spain, 15-19 July 2008 Full text abstracts (2 pp.) - paper no. 1-46 CD-ROM - Published by: European Physical Society, Volume number: 32 A, ISBN 2-914771-04-5

17. G. Borgia, I. Rusu, **C. Borgia**, N. Dumitrascu, "Temporal behaviour of pulsed atmospheric pressure asymmetric dielectric barrier discharge", 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (19th ESCAMPIG), Granada, Spain, 15-19 July 2008 Full text abstracts (2 pp.) - paper no. 3-38 CD-ROM - Published by: European Physical Society, Volume number: 32 A, ISBN 2-914771-04-5

18. **C. Borgia**, G. Borgia, N. Dumitrascu, "Atmospheric pressure plasma for surface modification of polymers in film and fibre form", 8th International Conference on Physics of Advanced Materials (ICPAM-8), June 4-7, 2008, Iasi, Romania, Proceedings - Abstracts of Poster Papers P-I.12 (pp. 41-42).

19. S. J. Talasman, **C. Borgia**, "The universal evolution criterion in the case of ionosphere plasma" 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (19th ESCAMPIG), Granada, Spain, 15-19 July 2008 Full text abstracts (2 pp.) - paper no. 2-78 CD-ROM - Published by: European Physical Society, Volume number: 32 A, ISBN 2-914771-04-5

20. G. Borgia, **C. Borgia**, N. Dumitrascu, "Atmospheric pressure plasma for surface processing", i-SUP 2008, Innovation for Sustainable Production - Bruges 22-25 April 2008, Conference 1 – "Smart Materials for Sustainable Production", Theme 4. *Advanced surface treatments: eliminating solvents by dry processing*, Proceedings of the first i-SUP conference, Poster presentations, pp. 35-39

21. I.A. Popescu, A. Teodor, C. Borgia, A. Cucu, *Monitoring the population by radon exposure - a preliminary study for the North-East region of Romania*, Proceedings of the VII Hungarian Radon Forum and Radon in Environment Satellite Workshop, May 16-17, 2013, Veszprem, Hungary, pag. 13-18

g) alte lucrări și contribuții științifice.

Articole în reviste neindexate BDI:

1. D. Creanga, E. Foca-nici, **C. Borgia**, D. Mihailescu, *"Monte-Carlo Simulation of Radiation Absorption in Living Tissues"*, Rev. Med.-Chir. Soc. Med. Nat. Iasi, Vol. 109, Supliment nr. 1, pp. 127-128, Mai 2005
2. D. Mihailescu, **C. Borgia**, *"Water equivalency of some plastic materials used in electron dosimetry: a Monte Carlo investigation"*, Romanian Reports in Physics, **58** No 4 (2006) 413.
3. E. L. Foca-nici, **C. Borgia**, D. Mihailescu, G. Stoian, D.E. Creanga, Z. Olteanu, *"Experimental and computational investigation on the low dose radiation absorption in some living tissues"*, Romanian Reports in Physics, **58** No 4 (2006) 559.
4. P. Tupu, D. Creanga, P. Gasner, M. Fantanariu, O. Avadanei, Al. Vlahovici, M. Racuciu, G. Matei, **C. Borgia**, D. Mihailescu, *Radiofrequency radiation influence on nucleic acids from animal blood cells*, Analele Științifice ale Universitatii "Al. I. Cuza" Iasi, Tomul II, 2006
5. Amarandei G. Popescu S., **Borgia C.**, Sanduloviciu M., *"Bennard-like cells formed at the surface of a fluid subjected to a corona discharge"*, Analele Științifice ale Univ. "A.I.Cuza" Iasi, Physica Plasmei si Spectroscopie, Tom XLIX, 2003, p. 89-94
6. Cristina Vițelaru, Adina Dascălu, R.V. Grădinaru, K. Popa and **C. Borgia**, *Liquid Scintillation Counting Applied for Studying the Influence of Microorganisms on the U(IV) to U(VI) Oxidation Process*, Acta Chemica Iasi, **19**, 117- 123 (2011)

Comunicări la Conferințe internaționale

1. Sanduloviciu, M., **Borgia, C.**, Sanduloviciu, G., *"Evolution of self-organized space charge structures in plasma related with the current versus voltage characteristic"*, Eight Conf. on Plasma Phys. and Appl., Iasi, 24-26 mai 1994.
2. Sanduloviciu, M., Melnig, V. and **Borgia, C.**, *"Spontaneously generated temporal patterns of plasma device correlated with dynamics of self-organized coherent space charge configurations"*. Proceedings of the 1996 International Conference on Plasma Physics, edited by H. Sugai and T. Hayashi, 1996, Nagoya, Japan. Publication Office, The Japan Society of Plasma Science and Nuclear Fusion Research, p. 1614.
3. Lozaneanu, E., **Borgia, C.**, Sanduloviciu, M., and Popescu, S., *"Anomalous Transport of Particles and Energy in Self-Confined Non-Fusion H.F. Plasma with Relevance for Similar Phenomena Observed in Fusion Plasmas"*, 10-th Int. Toki Conf. on Plasma Phys. and Contr. Nuclear Fusion (ITC-10), January 2000, Abstract Book, p. 173
4. N. Dumitrascu, **C. Borgia**, G. Popa, *"Adhesion properties of polymer fibers treated by a DBD"*, 6th International Balkan Workshop on Applied Physics, July 5-7, 2005, Constanta, Romania.
5. D. Mihailescu, **C. Borgia**, *Current and future trends in PET instrumentation*, 7th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2006.
6. **C. Borgia**, D. Mihailescu, *Are water-equivalent materials really water equivalent?*, 7th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2006.
7. **C. Borgia**, N. Dumitrascu, G. Popa, *Hydrophilisation of PA-6 Fibres Sterilised by UV Radiation and DBD Plasma*, 20-th European Conference on Biomaterials, Nantes – France, 27 Sept – 1 Oct. 2006, pag. 277

8. **C. Borgia**, G. Borgia, N. Dumitrascu, "Plasma induced surface modification in relation to polymer characteristics", 8th International Balkan Workshop on Applied Physics, July 5-7, 2007, Constanta, Romania, Book of Abstracts, Ovidius University Press, Constanta, 2007, pp. 145-146, ISBN 978-973-614-391-5
9. N. Dumitrascu, G. Borgia, **C. Borgia**, G. Popa, "Blood-polymer materials interface controlled by plasma treatment", 14th International Conference on Plasma Physics and Applications, September 14-18, 2007, Brasov, Romania, Book of Abstracts, P 5.1, pp. 125-126
10. N. Dumitrascu, **C. Borgia**, G. Borgia, "Plasma and UV radiation modification of polymers", 8th International Conference on Physics of Advanced Materials (ICPAM-8), June 4-7, 2008, Iasi, Romania, Proceedings - Abstracts of Poster Papers P-I.13 (p. 42).
11. C. Munteanu, S. Talaşman, T. Coman, **C. Borgia**, „*On the presence of double layers in the solar wind*”, Proceedings of 10th International Balkan Workshop on Applied Physics, July 6-8, 2008, Constanta, Romania, pp. 106 (S2P12).
12. **C. Borgia**, G. Borgia, N. Dumitracu, "Surface treatment of polymers by plasma and UV radiation", Proceedings of 10th International Balkan Workshop on Applied Physics, July 6-8, 2008, Constanta, Romania, pp. 105 (S2P11).
13. Adina Dascălu, Cristina Vițelaru, K. Popa, R. Gradinaru, **C. Borgia**, "Liquid scintillation counting applied for studying the influence of microbial respiration process on the oxidation of uranium U(IV) to U(VI)", Physics Conference TIM-09, Timisoara, 27-28 November, 2009, Abstract book pp. 67 (API-P19).
14. I.D. Borgia, R. Borgia, M. Bestehorn, **C. Borgia**, N. Dumitrascu, *Contact lines in different geometries*, 6th Conference of the International Marangoni Association *Interfacial Fluid Dynamics and Processes* Technion – Israel Institute of Technology June 18-21 Haifa Israel
15. G. Borgia, R. Cazan, **C. Borgia**, *Surface modification of polymers in relation to the spatial distribution of reactive oxygen species*, 9th International Conference on Physics of Advanced Materials 20 - 23 September 2012, Iasi, Romania
16. **C. Borgia**, *Determination of radium isotopes in environmental samples*, Terrestrial Radionuclides in Environment, 3-rd International Conference on Environmental Protection, 16-18th May 2012, Veszprém, Hungary
17. L. Punga, **C. Borgia**, G. Borgia, *Stability of aromatic polymers treated by plasma*, 16th International Conference on Plasma Physics and Applications, June 20-25, Magurele, Bucharest, Romania.
18. Ciucă, D. Mihăilescu, **C. Borgia**, Iulia Tatiana Caraciuc, *Study of chitin fragmentation induced by high energy deuteron beam irradiation*, International Conference on Physics of Advanced Materials, (ICPAM-10), Iasi 2014
19. G. Rusu, A. Ciucă, D. Mihăilescu, **C. Borgia**, *Chitin morphology modification after exposure to 2 GeV deuteron beams*, International Conference on Physics of Advanced Materials, (ICPAM-10), Iasi 2014
20. K. Popa, A. Cecal, Manuela Murariu, **C. Borgia**, *Uranium retention and distribution on spring wheat (*Triticum aestivum* L.)*, IV-th Terrestrial Radionuclides in Environment International Conference on Environmental Protection, 21-23th May 2014 Veszprém, Hungary
21. D. Borgia, R. Borgia, M. Bestehorn, **C. Borgia**, N. Dumitrascu, and C. Egbers, *Drops on cylindrical surfaces*, IMA7- 7th Conference of the International Marangoni Association, *Interfacial Fluid Dynamics and Processes*, June 23–26, 2014, Vienna, Austria.