

LISTA DE LUCRĂRI

A. Teza de doctorat

Mircea Cristian Dudescu (2001): *Studiul învelitorilor cu pereți subțiri cu aplicație la tuburile ondulate*. Universitatea Tehnică din Cluj-Napoca. Conducător științific: Prof.dr.ing. Ioan Păstrav.

B. Cărți și capitole în cărți (în edituri recunoscute CNCSIS):

1. **Mircea Cristian Dudescu**, (2013): *Rezistența Materialelor. Noțiuni fundamentale. Solicitări simple*. Editura U.T.PRESS, Cluj-Napoca, ISBN 978-973-662-831-3, 320 pag. (tiraj 100 ex).
2. Pustan, M., Birleanu, C., **Dudescu C.**, Golinval, J.C. (2013): *Smart sensors and MEMS: Intelligent devices and microsystems for industrial applications*, **Woodhead Publishing Limited**, Cambridge, UK, ISBN 0-85709-502-1, Chapter 12 "Dynamical behavior of smart MEMS in industrial applications", pp. 349-365, DOI: [10.1533/9780857099297.2.349](https://doi.org/10.1533/9780857099297.2.349)
3. **Mircea Cristian Dudescu**, (2010): *Introducere în interferometria electronică granulară*. Editura **Risoprint**, Cluj-Napoca, ISBN 978-973-53-0291-7, 164 pag. (tiraj 100 ex).
4. Ioan Păstrav, **Mircea Cristian Dudescu** (2009): *Lucrări de laborator de metode optice de analiză a tensiunilor*. Editura U.T.Pres, Cluj-Napoca, ISBN 978-973-662-452-0, 92 pag. (tiraj 100 ex).
5. **Mircea Cristian Dudescu**, (2005): *Calculul de Rezistență al Tuburilor Ondulate*. Editura U.T.Press, Cluj-Napoca, ISBN 973-662-207-X, 160 pag. (tiraj 100 ex).
6. Mihail Hărdău, Marioara Șomotecan, **Mircea Cristian Dudescu** (2002): *Metoda Elementelor Finite, Îndrumător de lucrări, vol. I – Structuri formate din bare*. Editura U.T.Pres, ISBN 973-8335-30-2, 76 pag.
7. Augustin Crețu (coordonator), ș.a., **Mircea Cristian Dudescu**, ș.a. (2001): *Tensiuni, Stresses, Contraintes*. Editura Mediamira, Cluj-Napoca, ISBN 973-9358-89-6, 238 pag.

C. Articole publicate în reviste de specialitate

C1. Articole publicate în reviste cotate ISI / ISI Proceedings / BDI

1. Pustan, M., **Dudescu, C.**, Birleanu, C. (2015): *The effect of sensing area position on the mechanical response of mass - detecting cantilever sensor*. *Microsystems Technologies*, article in press, DOI: [10.1007/s00542-015-2536-1](https://doi.org/10.1007/s00542-015-2536-1)
2. Ilea, A., Cristea, A., **Dudescu, C.**, Hurubeanu, L., Văjâean, C., Albu, S., Câmpian, R. (2015): *Lip Forces and Chewing Efficiency in Children with Peripheral Facial Paralysis*. *Neuropediatrics*, article in press, DOI: [10.1055/s-0035-1550146](https://doi.org/10.1055/s-0035-1550146)
3. Pop, S.I., **Dudescu, M.**, Bratu, D.C., Merie, V.V., Pacurar, M. (2015): *Effect of Esthetic Coating on the Load Deflection and Surface Characteristics of the NiTi Orthodontic Archwires*. *Revista de Chimie*, 66 (3), pp. 364-367.
4. Ilea, A., Butnaru, A., Sfrângeu, S., **Dudescu, M. C.**, Câmpian, R. S., Tombitaș, V. E., Albu, S. (2015): *The Use of Bone-Like Materials in Skull Base Traumatology*. *Key Engineering Materials*, Vol 638, pp. 274-279, DOI: [10.4028/www.scientific.net/KEM.638.274](https://doi.org/10.4028/www.scientific.net/KEM.638.274)
5. Baracu, A., Voicu, R., Müller, R., Avram, A., Pustan, M., Chiorean, R., Birleanu, C., **Dudescu, C.** (2015): *Design and fabrication of a MEMS chevron-type thermal actuator*. *AIP Conference Proceedings*, 1646, pp.25-30, DOI: [10.1063/1.4908578](https://doi.org/10.1063/1.4908578)
6. Miron-Borzan, C.S., **Dudescu, M.C.**, Khalid Abd Elghany, Ceclan, V., Berce P. (2015): *Analysis of Mechanical Properties of Selective Laser Sintered Polyamide Parts Obtained on Different Equipment*. *Materiale Plastice*, 52(1), pp. 39-42.
7. Leordean, D., **Dudescu C.**, Marcu, T., Berce, P., Bâlc, N. (2015): *Aspects related to the application of the selective laser melting technology to customized Ti-6Al-7Nb implants*. *Rapid Prototyping Journal*, vol. 21 issue 1, pp. DOI: [10.1108/RPJ-11-2012-0107](https://doi.org/10.1108/RPJ-11-2012-0107)
8. Pustan, M., **Dudescu, C.**, Birleanu, C. (2015): *Nanomechanical and nanotribological characterization of a MEMS micromembrane supported by two folded hinges*. *Analog Integrated Circuits and Signal Processing*, 82 (3), pp. 627-635, DOI: [10.1007/s10470-014-0482-y](https://doi.org/10.1007/s10470-014-0482-y)

9. Pustan, M., **Dudescu, C.**, Birleanu, C. (2014): *Reliability Design Based on Experimental Investigations of Paddle MEMS Cantilevers Used in Mass Sensing Applications*. Sensor Letters, 12 (11), pp. 1600-1606(7), DOI: [10.1166/sl.2014.3371](https://doi.org/10.1166/sl.2014.3371)
10. **Dudescu, C.**, Botean, A., Hărdău, M., Bal, N. (2014): *Measurement of thermoplastics tensile properties using digital image correlation*, Key Engineering Materials, vol. 601 (2014) pp. 33-36, DOI: [10.4028/www.scientific.net/KEM.601.33](https://doi.org/10.4028/www.scientific.net/KEM.601.33).
11. Chiorean, R., **Dudescu, C.**, Pustan, M., Hărdău, M. (2014): *V-beam Thermal Actuator's Performance Analysis Using Digital Image Correlation*, Applied Mechanics and Materials Vol. 658 (2014) pp 173-176, DOI: [10.4028/www.scientific.net/AMM.658.173](https://doi.org/10.4028/www.scientific.net/AMM.658.173)
12. Takacs, I., **Dudescu, C.**, Hărdău, M., Botean, A. (2014): *Experimental Validation of a Finite Element Model of an Osteoporotic Human Femoral Bone Using Strain Gauge Measurement*, Applied Mechanics and Materials Vol. 658 (2014) pp 513-519, DOI: [10.4028/www.scientific.net/AMM.658.513](https://doi.org/10.4028/www.scientific.net/AMM.658.513)
13. Bere P., **Dudescu M.C.**, Balc N., Berce P., Iurian A.M., Nemes O. (2014): *Design and analysis of carbon/epoxy composite bicycle handlebar*, Materiale Plastice **51**(2), pp. 145-149.
14. Chiorean, R., **Dudescu, C.**, Pustan, M., Hărdău, M. (2014): *Micro-tweezers Based on V-Beam Thermal Actuator*, International Conference on Advancements of Medicine and Health Care through Technology; 5th – 7th June 2014, Cluj-Napoca, Romania, IFMBE Proceedings, vol. 44, pp.159-162, DOI: [10.1007/978-3-319-07653-9_32](https://doi.org/10.1007/978-3-319-07653-9_32).
15. Ilea, A., Butnaru, A., Sfrângeu, S.A., Hedeşiu, M., **Dudescu, C.M.**, Berce, P., Chezan, H., Hurubeanu, L., Trombitaş, V.E., Câmpian, R.S., Albu, S. (2014): *Role of Mastoid Pneumatization in Temporal Bone Fractures*, American Journal of Neuroradiology, DOI: [10.3174/ajnr.A3887](https://doi.org/10.3174/ajnr.A3887)
16. Pustan, M., Birleanu, C., Rusu, F., **Dudescu, C.**, Belcin, O. (2014): *Size effect on the microbridges quality factor tested in free air space*, 15th IEEE International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE 2014), 7-9 April 2014 Gent, Belgium, p. 1/6 - 6/6, ISBN 978-1-4799-4791-1, DOI: [10.1109/EuroSimE.2013.6529890](https://doi.org/10.1109/EuroSimE.2013.6529890).
17. Chiorean, R., **Dudescu, C.**, Pustan, M., Hardau, M. (2014): *Deflection determination of V-beam thermal sensors using Digital Image Correlation*, Key Engineering Materials, vol. 601 (2014) pp. 41-44, DOI: [10.4028/www.scientific.net/KEM.601.41](https://doi.org/10.4028/www.scientific.net/KEM.601.41)
18. Cherecheş, A., **Dudescu, C.**, Lakatos, G., Vidican, I., Bejan, M. (2014): *State of stress determination in a water drinker by numerical and experimental methods*, Key Engineering Materials, vol. 601 (2014) pp. 45-49, DOI: [10.4028/www.scientific.net/KEM.601.45](https://doi.org/10.4028/www.scientific.net/KEM.601.45)
19. Chiorean, R., **Dudescu, C.**, Pustan, M., Hardau, M. (2014): *Analytical and Numerical Study on the Maximum Force Developed by a V-beam Thermal Actuator*, Procedia Technology, vol. 12, pp. 359-363, DOI: [10.1016/j.protcy.2013.12.499](https://doi.org/10.1016/j.protcy.2013.12.499)
20. Paşcalău, V., Popescu, V., Popescu, G., **Dudescu, M.C.**, Borodi, G., Dinescu, A., Moldovan, M. (2013): *Obtaining and Characterizing Alginate/k-Carrageenan Hydrogel Cross-Linked with Adipic Dihydrazide*, Advances in Materials Science and Engineering, vol. 2013, Article ID 380716, 12 pages, DOI: [10.1155/2013/380716](https://doi.org/10.1155/2013/380716)
21. **Dudescu, C.**, Botean, A., Hardau, M. (2013): *Thermal expansion coefficient determination of polymeric materials using digital image correlation*, **Materiale Plastice** **50** (1) pp. 55-59.
22. Pop, S.I., **Dudescu, M.**, Bratu, D.C., Pop, R.V., Păcurar M., Petrişor, M. (2013): *Influence of the Chemical Composition on the Mechanical Properties of Orthodontic Archwires*, Revista de Chimie, 64, Issue 7, pp. 771-775.
23. Pustan, M., Birleanu, C., **Dudescu, C.** (2013): *Simulation and experimental analysis of thermo-mechanical behavior of microresonators under dynamic loading*, Microsystems Technologies, vol. 19, Issue 6, pp. 915-922, DOI: [10.1007/s00542-012-1728-1](https://doi.org/10.1007/s00542-012-1728-1).
24. Pustan, M., **Dudescu, C.**, Birleanu, C., Rymuza, Z. (2013): *Nanomechanical studies and materials characterization of metal/polymer bilayer MEMS cantilevers*, International Journal of Materials Research, volume 12, pp. 1-7, DOI: [10.3139/146.110879](https://doi.org/10.3139/146.110879)
25. Pustan, M., **Dudescu, C.**, Birleanu, C. (2013): *The effect of sensing area position on the mechanical response of mass - detecting cantilever sensor*. Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS (**DTIP 2013**), 16-18 April 2013 Barcelona, Spain, p. 173-179, ISBN: 978-2-35500-025-6, [IEEE Xplore](https://doi.org/10.1109/DTIP.2013.6529890).
26. Mager, V., Balc N., Leordean D., **Dudescu C.**, Fockele M. (2013): *Research on Producing Complex Metal Parts with Lattice Structure, by Selective Laser Melting*. Applied Mechanics and Materials, Vol. 371 (2013), pp. 280-284, Trans Tech Publications, Switzerland, DOI: [10.4028/www.scientific.net/AMM.371.280](https://doi.org/10.4028/www.scientific.net/AMM.371.280)

27. Bere, P., Nemeş O., **Dudescu, C.**, Berce, P., Sabău, E. (2013): *Design and Analysis of Carbon/Epoxy Composite Tubular Parts*. Advanced Engineering Forum Vols. 8-9 (2013) pp. 207-214, Trans Tech Publications, Switzerland, DOI:[10.4028/www.scientific.net/AEF.8-9.207](https://doi.org/10.4028/www.scientific.net/AEF.8-9.207)
28. Pustan, M., Birleanu, C., **Dudescu, C.**, Belcin, O. (2013): *Temperature Effect on Tribological and Mechanical Properties of MEMS*. 14th IEEE International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE 2013), 15-17 April 2013 Warsaw, Poland, p. 1/6 - 6/6, ISBN 978-1-4673-6139-2, IEEE Catalog number CFP13566-CDR, DOI: [10.1109/EuroSimE.2013.6529890](https://doi.org/10.1109/EuroSimE.2013.6529890)
29. Bratu, D.C., Pop, S.I., Balan, R., **Dudescu, M.**, Petrescu, H.P., Popa, G. (2013): *Effect of Different Artificial Saliva on the Mechanical Properties of Orthodontic Elastomers Ligatures*. Materiale Plastice **50** (1), pp. 49-52.
30. **Dudescu, M.C.**, Stockmann, M., Naumann, J. (2012): *Optical measurement of the strain-stress response during unloading of metal sheets undergoing large plastic deformations*. In: 11th IMEKO TC15 Youth Symposium on Experimental Solid Mechanics, 30th of May 2012 – 2nd of June 2012, Brasov, Romania, ISBN **978-606-19-0078-7**, pp. 204-209. (Scopus).
31. Pustan, M., Birleanu, C., **Dudescu, C.** (2012): *Simulation and experimental analysis of thermo-mechanical behavior of microresonators under dynamic loading*. Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS (DTIP 2012), 25-27 April 2012 Cannes, France, p. 87-92, ISBN: 978-2-35500-020-1, IEEE Xplore.
32. Pustan, M., Birleanu, C., **Dudescu, C.**, Belcin, O., (2012): *Mechanical and tribological characterizations for reliability design of micromembranes*. 13th IEEE International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE), Portugal, p.1/6 - 6/6. DOI: [10.1109/ESimE.2012.6191802](https://doi.org/10.1109/ESimE.2012.6191802)
33. Pascalau, V., Popescu, V., Popescu, G.L., **Dudescu, M.C.**, Borodi, G., Dinescu, A., Perhaița, I., Paul, M. (2012): *The alginate/k-carrageenan ratio's influence on the properties of the cross-linked composite films*. Journal of Alloys and Compounds, Vol. 536, Suppl. 1, pag. S418-S423, DOI [10.1016/j.jallcom.2011.12.026](https://doi.org/10.1016/j.jallcom.2011.12.026).
34. **Dudescu, C.** (2011): *Measurement of materials proprieties by electronic speckle pattern interferometry*. In: 10th IMEKO TC15 Youth Symposium on Experimental Solid Mechanics, 25-28 May 2011, Chemnitz, Germany (*Keynote lecture*) ISBN 978-3-941003-34-7, pp.26-27. (Scopus).
35. **Dudescu, M.**, Mândru, D. (2011): *Analysis of a Dexterous Instrument for Minimally Invasive Procedures, Based on Bellows Actuators*. In: International conference on advancements of medicine and health care through technology, Cluj-Napoca, Romania. IFMBE Proceedings, 2011, vol. 36, Part 2, pp.176-179, DOI: [10.1007/978-3-642-22586-4_38](https://doi.org/10.1007/978-3-642-22586-4_38).
36. **Dudescu, C.**, Naumann, J., Stockmann, M. and Steger H. (2011): *Investigation of Non linear Springback for High Strength Steel Sheets by ESPI*. STRAIN - International Journal of Experimental Mechanics, Blackwell Publishing, UK, Vol. 47, Issue Suppl.2, pp. 8-18, DOI: [10.1111/j.1475-1305.2009.00729.x](https://doi.org/10.1111/j.1475-1305.2009.00729.x).
37. **Dudescu, M.**, Naumann, J., Stockmann, M., Nebel, S., (2006): *Characterisation of Thermal Expansion Coefficient of Anisotropic Materials by ESPI*. STRAIN - International Journal of Experimental Mechanics, Blackwell Publishing, UK, Vol. 42, Issue 3, August 2006, pp. 197-206, DOI: [10.1111/j.1475-1305.2006.00271.x](https://doi.org/10.1111/j.1475-1305.2006.00271.x).
38. **Dudescu, M.**, Şomotecan, M., Hărdău, M. (2009): *Aspects related direct application of strain gages on wood*. Annals of DAAAM for 2009 & Proceedings of 20th DAAAM International Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", Vienna, Austria, 25-28th November 2009, pp. 40-42, ISBN 978-3-901509-70-4. (WoS)
39. **Dudescu, M.**, Botean, A., Hărdău, M. (2009): *Application of digital image correlation for measuring e-modulus of wood beam*. Annals of DAAAM for 2009 & Proceedings of 20th DAAAM International Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", Vienna, Austria, 25-28th November 2009, pp.42-44, ISBN 978-3-901509-70-4. (WoS)
40. **Dudescu, M.**, Păstrav, I., Şomotecan, M. (2008): *Aspects related application of the electrical strain gauges on wood*. 25th Danubia-Adria Symposium on Advances in Experimental Mechanics, Ceske Budejovice, CZECH REPUBLIC, Sep. 24-27, pp. 59-60. (WoS)

C2. Articole publicate în reviste recunoscute CNCSIS

1. Nagy E.M., Cota C., **Dudescu C.**, Fehete-Tutunaru L., Cioica N. (2014): *The influence of mischantus fiber insertion on the mechanical properties of composite materials based on starch obtained by*

- thermoforming*. Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series, vol. 44 (2), pp.14—143. ([Google Scholar](#))
2. Pustan, M., Birleanu, C., **Dudescu, C.**, Belcin, O., Golinval J-C. (2012): *Size effect on the dynamical behaviour of electrostatically actuated MEMS resonators*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, vol. 55, pp. 599-605, ISSN 1221 – 5872, <http://atna-mam.utcluj.ro>
 3. Birleanu, C., Pustan, M., **Dudescu, C.**, Belcin, O., Rymuza, Z. (2012): *Nanotribological Investigations on Adesion Effect Applied to MEMS Materials*, vol. 55, pp. 671-676, ISSN 1221-5872, <http://atna-mam.utcluj.ro>
 4. Simion, M., Botean, A., **Dudescu, M.** (2010): *Experimental studies of the normal stresses for an equal strength beam and a flanged beam*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, nr. 53, pp. 185-189, ISSN 1221 – 5872, <http://atna-mam.utcluj.ro>
 5. **Dudescu, M.**, Somotecan, M., Botean, A. (2010): *Direct application of strain gauges on wood*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, nr. 53, pp. 179-185, ISSN 1221 – 5872, <http://atna-mam.utcluj.ro>
 6. Bodnari, I., **Dudescu, M.**, (2009): *Deflection analysis of square plates by 3D digital image correlation*, Acta Mechanica Anul I, nr.1, pp. 95-98, Editura U.T.Press, Cluj-Napoca 2009, ISSN 2066-9577.
 7. **Dudescu, M. C.**, (2008): *Analysis of the properties of strain gauges measuring point on wood*. *Messtechnische Briefe*, nr. 2/2008, pp. 2-15, Editată de HBM GmbH, Germania, ISSN 1614-6719.
 8. **Dudescu, M.**, Botean, A.I. (2007): *Deformations measurement using digital image correlation principle*. Acta Technica Napocensis, nr. 50/2007, pp. 21-24, Editura U.T.Press Cluj-Napoca, ISSN 1224-9106.
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 10. **Dudescu, M.**, (2006): *MATLAB Scientific Toolbox for Full-field Strain and Stress Computation*. Acta Universitatis Cibiniensis a Universității Lucian Blaga din Sibiu, vol.54, pag. 31-36, ISSN 1583-7149.
 11. **Dudescu, M.**, (2005): *Metode moderne de calcul numeric și experimental al elementelor elastice de tip membrană*. Revista de Politica Științei și Scientometrie - Număr Special 2005, ISSN 1582-1218, (raport cercetare).
 12. **Dudescu, M.**, (2004): *Matlab Scientific Toolbox for Strain-Stress Analysis*. Acta Technica Napocensis, nr. 47/2004, pag. 31-40, Editura U.T.Press Cluj-Napoca, ISSN 1224-9106.
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 15. **Dudescu, M.**, (1999): *Stress analysis in bellows subjected to axial loading*. Acta Technica Napocensis, nr. 42/1999, pag. 167-172, Editura U.T.Pres Cluj-Napoca, ISSN 1221-5872;
 16. Bejan, M., **Dudescu M.**, (1999): *Unele considerații privind solicitările statice ale preselor hidraulice*. Revista "Prelucrări la cald" nr. 13/1999, Editura INTEC București, pag. 68-77, ISSN 1224-425x.
 17. Bodea Sanda, Hărdău, M., **Dudescu, M.**, (1998): *The Analysis of Variation of the Stress Concentration Factor for Turbo-compressor Rotary Elements*. Acta Technica Napocensis, nr. 41/1998, pp. 114-119, Editura U.T.Press Cluj-Napoca, ISSN 1221-5872.
 18. **Dudescu M.**, Bodea S., Hărdău, M., (1998): *Studies concerning variations of stress concentration factor in fretage joints between pieces with longitudinal asymmetry*. Acta Technica Napocensis, nr. 41/1998, pp. 107-114, Editura U.T.Pres Cluj-Napoca, ISSN 1221-5872;

D. Studii publicate în volumele unor manifestări științifice

D1. Articole publicate în volumele unor conferințe internaționale

1. Baracu, A., Voicu, R., Müller, R., Avram, A., Pustan, M., Chiorean, R., Birleanu, C. and **Dudescu, C.** (2015): *Design and fabrication of a MEMS chevron-type thermal actuator*, AIP Conference Proceedings, 1646, 25-30, DOI: [10.1063/1.4908578](https://doi.org/10.1063/1.4908578)
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- Tissue Engineering & Medical Devices” BiomMedD’2014. 17th-20th September 2014, Constanta, Romania, pp.89-90, ISSN 2069-0193, ISSN-L 2069-0193.
3. Ilea A., Cristea A., **Dudescu M.C.**, Crişan L., Vâjâean C., Albu S., Câmpian R.S. (2014): *Lip Forces and Chewing Efficiency in Facial Paralysis in Children*. In: **IADR** General Session and Exhibition, June 25-28, 2014, Cape-Town, South Africa.
 4. Pustan M., **Dudescu C.**, Birleanu C. (2014): *Nanomechanical and nanotribological characterization of MEMS micromembrane supported by folded hinges*. In: Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS (**DTIP 2014**), 2-4 April 2014, Cannes Côte d’Azur, France.
 5. Pustan M., Birleanu C., **Dudescu C.** (2013): *Micromembranes supported by serial – parallel connected hinges*. In: 6th ECCOMAS Thematic Conference on Smart Structures and Materials (SMART2013) Torino, Italy, 24-26 June 2013, pp.1-8 ([Google Scholar](#)).
 6. Pustan M., **Dudescu C.**, Birleanu C. (2013): *Measurement of energy loss coefficient of electrostatically actuated MEMS resonators*. In: 4th International Conference on Integrity, Reliability & Failure **IRF2013**, Funchal, 23-27 June 2013, pp. 305-309.
 7. Pustan M., Birleanu C., **Dudescu C.**, Calin L. (2013): *The influence of temperature on mechanical and tribological properties of dental materials*. In: 4th International Conference on Integrity, Reliability & Failure **IRF2013**, Funchal, 23-27 June 2013, pp. 473-475.
 8. Pustan M., Birleanu C., **Dudescu C.**, Belcin O. (2013): *Adhesion, Friction and Wear Measurement of Dental Materials using Atomic Force Microscope*. In: 6th ConsEuro 2013, 9th-11th of May, Paris.
 9. Popescu V., Paşcalău V., Popescu G.L., **Dudescu M.C.**, Borodi G., Dinescu A. (2012): *ZnO/alginate/k-carrageenan hydrogel composites for biomedical and/or cosmetic applications*. In: Polymeric and Self-assembled Hydrogels, London 4th-5th September 2012, p.36. (poster)
 10. Paşcalău V., Popescu V., Popescu G.L., **Dudescu M.C.**, Borodi G., Dinescu A. (2012): *Hydrogels of oxidized alginate/k-carrageenan chemical cross-linked for biomedical applications*. In: Polymeric and Self-assembled Hydrogels, London 4th-5th September 2012, p.60. (poster)
 11. **Dudescu, M.** (2010): *Optical methods in experimental mechanics*. In: Humboldt-Kolleg Cluj 2010, Förderung der Nachhaltigen Entwicklung im Donauraum durch Kulturelle und Wissenschaftliche Zusammenarbeit, 23-26 Mai, Cluj-Napoca, Romania, pp. 316-322, ISBN 978-97-713-276-5 (oral presentation).
 12. **Dudescu, M.**, Pop, M. (2009): *Strength and stiffness evaluation of a car door by FEM*, In: The 3rd International Conference on Computational Mechanics and Virtual Engineering and Applications in Automotive Engineering, COMEC 2009, 29–30 October, Brasov, Romania, pp. 215-218, ISBN 978-973-598-572-1 (oral presentation).
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