

LISTA PUBLICATII

a) Lucrări științifice (10 lucrări semnificative)

1. Mihai Catalin FRUNZA, **Cornel SUCIU**, „Cusp Radius Measurement Through Digital Image Analysis”, Acta Odontologica Scandinavica, Volume: 71 Issue: 1 Pages: 236-240 Published: FEB 2013 ISSN: 0001-6357 (print), 1502-3850 (electronic), doi:10.3109/00016357.2012.671359, (ISI)
2. Manescu, T (Manescu, Tiberiu, Jr.); Gillich, GR (Gillich, Gilbert-Rainer); Manescu, TS (Manescu, Tiberiu Stefan); **Suciu, C (Suciu, Cornel)**, "Optical Evaluation of Surface Defects Influence upon the Contact Area between a Metallic Spherical Punch and a Flat Surface", MATERIALE PLASTICE Volume: 51 Issue: 2 Pages: 157-161 Published: JUN 2014, Accession Number: WOS:000339475200010, ISSN: 0025-5289 (ISI)
3. Mihai Ioan, **SUCIU Cornel**, Patuleanu Liliana, „Modeling of Heat Transfer in Microchannels of a CPU-Heat Sink Cooling System”, The 6th edition of the international conference - Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2012, 23 - 26 August 2012, Constanta, Romania, Proc. of SPIE Vol. 8411, 84112E © 2012 SPIE CCC code: 0277-786/12/\$18 doi: 10.1117/12.965302 (ISI proc)
4. Mihai Ioan, Patuleanu Liliana, **SUCIU Cornel**, „R12 Freon Condensation in Micro and Nanochannels of a Mini Heat Exchanger”, The 6th edition of the international conference - Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2012, 23 - 26 August 2012, Constanta, Romania, Proc. of SPIE Vol. 8411, 841120 © 2012 SPIE CCC code: 0277-786/12/\$18 doi: 10.1117/12.965301 (ISI proc)
5. Mihai, I., **Suciu, C.**, “Thin layer CPU thermal grease behavior at high temperatures”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies V Book Series: Proceedings of SPIE-The International Society for Optical Engineering, Vol.: 7821, Article Number: 78211C, DOI: 10.1117/12.881689, ISSN: 0277-786X ISBN: 978-0-8194-8330-0 (ISI proc)
6. Mihai, I., **Suciu, C.**, “Specific features of heat transfer via micro and nanochannels in micro-heat exchangers”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies V Book Series: Proceedings of SPIE-The International Society for Optical Engineering, Volume: 7821 Article Number: 78212F DOI: 10.1117/12.881682, ISSN: 0277-786X ISBN: 978-0-8194-8330-0 (ISI proc)
7. GLOVNEA, M., **SUCIU, C.**, "Experimental Investigations upon the Electrical Resistance of Microcontacts", Advanced Materials Research Vol. 705 (2013) pp 365-370 Online available since 2013/Jun/13 at www.scientific.net © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.705.365 (Edituri Internationale)
8. **SUCIU, C.**, Diaconescu E., “Contact Pressure Assessment by Reflectivity of a Solidified Gel Layer”, Proceedings of the 2nd European Conference on Tribology, ECOTRIB 2009, Faculty of Engineering, Pisa, Italy, June 7 - 10, 2009, ISBN: 978-884672426-7, pp. 691-696 (Edituri Internationale)
9. **SUCIU, C.**, Diaconescu, E., “Experimental Set-Up And Preliminary Results Upon A New Technique To Measure Contact Pressure”, Acta Tribologica, vol. 16, 2008 ISSN 1220 – 8434, pp.21-26 (B)
10. **SUCIU, C.**, Diaconescu, E., “Preliminary Theoretical Results Upon Contact Pressure Assessment By Aid Of Reflectivity”, Proceedings of VarEHD15, Suceava, 6-8 May, 2010, ISSN 1844-8917, ACTA TRIBOLOGICA, Volume 18, (2010), p-ISSN 1220-8434, e-ISSN 2069-4601, pp. 19-26 (revista B)

b) Teza de Doctorat

Teza de doctorat intitulat *“CERCETRI TEORETICE I EXPERIMENTALE PRIVIND DETERMINAREA PRESIUNII DE CONTACT ÎNTRE SUPRAFE E REALE PRIN METODA REFLECTIVIT II”*, realizat sub coordonarea Prof. Dr. Ing Emanuel DIACONESCU și finalizat sub coordonarea Prof. Dr. Ing. Gheorghe FRUNZ, susinut public, Suceava, Septembrie 2012,

c) Lista publica ilor tiin ifice (pe categorii)

Articol / studiu publicat în revistă cotată ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență)

1. Maria Poroch-Seritan, Igor Cretescu, Corneliu Cojocaru, Sonia Amariei, **Cornel Suci**, „Experimental design for modelling and multi-response optimization of Fe–Ni electroplating process”, Chemical Engineering Research and Design, Volume 96, April 2015, Pages 138–149, doi:10.1016/j.cherd.2015.02.014, ISSN: 0263-8762,
2. Manescu, T (Manescu, Tiberiu, Jr.); Gillich, GR (Gillich, Gilbert-Rainer); Manescu, TS (Manescu, Tiberiu Stefan); **Suci**, C (**Suci**, **Cornel**), "Optical Evaluation of Surface Defects Influence upon the Contact Area between a Metallic Spherical Punch and a Flat Surface", MATERIALE PLASTICE Volume: 51 Issue: 2 Pages: 157-161 Published: JUN 2014, Accession Number: WOS:000339475200010, ISSN: 0025-5289
3. Mihai Catalin FRUNZA, **Cornel SUCIU**, „Cusp Radius Measurement Through Digital Image Analysis”, Acta Odontologica Scandinavica, Volume: 71 Issue: 1 Pages: 236-240 Published: FEB 2013 ISSN: 0001-6357 (print), 1502-3850 (electronic), doi:10.3109/00016357.2012.671359,

Articol / studiu publicat la conferință cu proceedings-uri redactate în volume publicate în edituri internaționale.

1. Manescu Tiberiu Jr., Gillich Gilbert-Rainer, Manescu Tiberiu Stefan, **Suci** **Cornel**, 2013, “Experimental Investigations upon Contact Behavior of Ball Bearing Balls Pressed Against Flat Surfaces”, Proceedings of COMEC 2013 on CD, Transilvania University Press of Brașov, ISBN 978-606-19-0225-5, pp. 230-236, and Paperback, 422 pages, Derc Publishing House (December 20, 2013), ISBN-10: 1939757118, ISBN-13: 978-1939757111
2. GLOVNEA, M., **SUCIU, C.**, "Experimental Investigations upon the Electrical Resistance of Microcontacts", Advanced Materials Research Vol. 705 (2013) pp 365-370 Online available since 2013/Jun/13 at www.scientific.net © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.705.365
3. Dumitru BOGHIAN, Gheorghe FRUNZA, **Cornel SUCIU**, Sorin IGNATESCU “TRACEOLOGICAL ANALYSIS OF A SERIES OF LITHIC CHIPPED TOOLS FROM THE SETTLEMENT OF FETE TI-LĂȘCHIT, ADÂNCĂTA COMMUNE, SUCEAVA COUNTY, ROMANIA”, *Interdisciplinarity Research in Archaeology. Proceedings of the First Arheoinvest Congress, 10-11 June 2011, Iași, Romania*, © BAR S2433 Archaeopress, Arheoinvest and the individual authors 2012, ISBN 978 1 4073 1032 9, p. 187-200
4. MIHAI Ioan, **SUCIU** **Cornel**, PATULEANU Liliana, SPRINCEANA Siviu, BENIUGA Marius, „IR assessment of R134a refrigerant temperature variation when forced to flow through circular microchannels”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92581N (20 February 2015); doi: [10.1117/12.2070335](https://doi.org/10.1117/12.2070335)
5. MIHAI Ioan, **SUCIU** **Cornel**, PATULEANU Liliana, “Roughness effect upon the flow of R134a refrigerant through rectangular microchannels”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92581O (February 21, 2015); doi:10.1117/12.2070336
6. ANDRONIC Florin, MIHAI Ioan, **SUCIU** **Cornel**, BENIUGA Marius, „Frequency analysis of a semi-active suspension with magneto-rheological dampers”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 925822 (20 February 2015); doi: [10.1117/12.2070339](https://doi.org/10.1117/12.2070339)
7. ANDRONIC Florin, MIHAI Ioan, **SUCIU** **Cornel**, BENIUGA Marius, „Applications of magneto-rheologic fluids in semi-active suspension systems”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 925823 (20 February 2015); doi: [10.1117/12.2070345](https://doi.org/10.1117/12.2070345)
8. SPRINCEANA Siviu, MIHAI Ioan, BENIUGA Marius, **SUCIU** **Cornel**, „Heat transfer intensification by increasing vapor flow rate in flat heat pipes”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta,

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9. SPRINCEANA Siviu, MIHAI Ioan, BENIUGA Marius, **SUCIU Cornel**, „Capillary layer structure effect upon heat transfer in flat heat pipes”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92581Q (20 February 2015); doi: [10.1117/12.2070423](https://doi.org/10.1117/12.2070423)
 10. Marius Beniuga, Ioan Mihai, **Cornel Suci**, Silviu Sprincean , „Atomization of liquid droplets in multipoint injection”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92581R (20 February 2015); doi: [10.1117/12.2070428](https://doi.org/10.1117/12.2070428)
 11. Marius Beniuga, Ioan Mihai, **Cornel Suci**, Silviu Sprincean , „Friction coefficient influence upon fluid jet atomization”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2014, 21 - 24 August 2014, Constanta, Romania, Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 925824 (20 February 2015); doi: [10.1117/12.2070430](https://doi.org/10.1117/12.2070430)
 12. **SUCIU, C.**, Diaconescu E., “Contact Pressure Assessment by Reflectivity of a Solidified Gel Layer”, Proceedings of the 2nd European Conference on Tribology, ECOTRIB 2009, Faculty of Engineering, Pisa, Italy, June 7 - 10, 2009, ISBN: 978-884672426-7, pp. 691-696
 13. Frunza G., Frunza M.-C, **SUCIU C.**, "A Tribological Model Regarding Dental Contacts Deterioration", Proceedings of the 2nd European Conference on Tribology, ECOTRIB 2009, Faculty of Engineering, Pisa, Italy, June 7 - 10, 2009, ISBN: 978-884672426-7, pp. 453-458

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1. Iliuta, Virgil, Ripa, Minodora, Andrei, Gabriel, Preda, Adriana, **Suci**, **Cornel**, Javorova, Juliana, "Profilometric Evaluation of the Worn Surfaces Under Dry Reciprocating Wear Conditions of a Composite Material to Repair Brass Made Parts", Engineering solutions and technologies in manufacturing, Book series: Applied Mechanics and Materials, Vol. 657, pages: 437-441, doi> [10.4028/www.scientific.net/AMM.657.437](https://doi.org/10.4028/www.scientific.net/AMM.657.437), published 2014
2. GLOVNEA, Marilena, **SUCIU, Cornel**, SPÎNU, Sergiu., "Some Aspects Regarding the Analysis of Straight Rods with Polygonal Cross Section Subjected to Torsion" Advanced Materials Research Vol. 814 (2013) pp 165-172 © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.814.165, ISBN-13: 978-3-03785-848-6.
3. GLOVNEA, M., **SUCIU, C.**, "Modeling of Strain and Stress States for Straight Rods with Particular Cross Sections Subjected to Torsion", Advanced Materials Research Vol. 837 (2014) pp 699-704 © (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.837.699
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5. Mihai Ioan , Patuleanu Liliana , **SUCIU Cornel**, „R12 Freon Condensation in Micro and Nanochannels of a Mini Heat Exchanger”, The 6th edition of the international conference - Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies, ATOM-N 2012, 23 - 26 August 2012, Constanta, Romania, Proc. of SPIE Vol. 8411, 841120 © 2012 SPIE CCC code: 0277-786/12/\$18 doi: [10.1117/12.965301](https://doi.org/10.1117/12.965301)
6. Mihai, I., **Suci**, **C.**, “Thin layer CPU thermal grease behavior at high temperatures”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies V Book Series: Proceedings of SPIE-The International Society for Optical Engineering, Vol.: 7821, Article Number: 78211C, DOI: [10.1117/12.881689](https://doi.org/10.1117/12.881689), ISSN: 0277-786X ISBN: 978-0-8194-8330-0
7. Mihai, I., **Suci**, **C.**, “Specific features of heat transfer via micro and nanochannels in micro-heat exchangers ”, Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies V Book Series: Proceedings of SPIE-The International Society for Optical Engineering, Volume: 7821 Article Number: 78212F DOI: [10.1117/12.881682](https://doi.org/10.1117/12.881682), ISSN: 0277-786X ISBN: 978-0-8194-8330-0

Articol / studiu publicat în revistă de specialitate recunoscut la nivel național de CNCS (CNCSIS) (B).

1. **SUCIU, C.**, Diaconescu, E., "Preliminary Theoretical Results Upon Contact Pressure Assessment By Aid Of Reflectivity", ACTA TRIBOLOGICA, Volume 18, (2010), p-ISSN 1220-8434, e-ISSN 2069-4601, pp. 19-26
2. **SUCIU, C.**, Diaconescu, E., Spinu, S., "Experimental Set-Up And Preliminary Results Upon A New Technique To Measure Contact Pressure", Proceedings of VarEHD14, Suceava, 9-11 October, 2008, ISSN 1844-8917, Acta Tribologica, vol. 16, 2008 ISSN 1220 – 8434, pp.21-26
3. Spinu, S., **SUCIU, C.**, "Numerical Simulation of Elastic Finite Length Line Contact under Eccentric Loading", Proceedings of VarEHD14, Suceava, 9-11 October, 2008, ISSN 1844-8917, Acta Tribologica, vol. 16, 2008 ISSN 1220 – 8434, pp. 1-8

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1. Ioan Lesenciuc, **Cornel Suci**, "Experimental investigations Upon the Identification of Specific Characteristics of Hunting Rifles From the Firing Distance", The 18th International Conference New Technologies and Products in Machine Manufacturing Technologies, TEHNOMUS XVIII, May 8-9, 2015, Suceava, Romania
2. Ioan Lesenciuc, **Cornel Suci**, "Preliminary Experimental Investigations Regarding the Specificity of the Firing Pin Imprint", The 18th International Conference New Technologies and Products in Machine Manufacturing Technologies, TEHNOMUS XVIII, May 8-9, 2015, Suceava, Romania
3. Deleanu L., Georgescu C., **Suci C.**, "A comparison between 2D and 3D surface parameters for evaluating the quality of surfaces", Proceedings of the International Conference on Diagnosis & Prediction in Mechanical Systems Engineering; 2012, p17-25, 9p
4. Frunza, G., Frunza M.-C, **Suci, C.**, "Microdefects Analysis Of Dental Contact Surfaces", THE ANNALS OF UNIVERSITY "DUN REA DE JOS" OF GALAȚI, FASCICLE VIII, 2010 (XVI), ISSN 1221-4590, Issue 2 - TRIBOLOGY, pp.35-39
5. Ioan-Cozmin Manolache-Rusu, **Cornel Suci**, Liliana P. Tuleanu, Florin Andronic, „Influence of Braking Valve Opening and Closing Angles upon Torque”, Journal of Engineering Studies and Research, Issue Nr. 1 - Volume 20(2014), ISSN 2068-7559, pp. 45-51
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6. Ioan-Cozmin Manolache-Rusu, **Cornel Suci**, Florin Andronic, Liliana P. Tuleanu, Ivan Radion, „New Approach on Mathematical Modeling of Brake Process for Diesel Engines”, Journal of Engineering Studies and Research, Issue Nr. 1 - Volume 20(2014), ISSN 2068-7559, pp. 52-59,
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1. Dumitru BOGHIAN, Mihai GRAMATICU, **Cornel SUCIU**, Silviu Gabriel STROE, Traian Lucian SEVERIN, Sorin IGNATESCU, "TRASEOLOGICAL INVESTIGATIONS ON A BATCH OF POLISHED STONE TOOLS FOUND IN THE FETEȚI LA ȘCHIT SITE (ADÂNCATA COMMUNE, SUCEAVA COUNTY)", THIRD ARHEOINVEST CONGRESS Interdisciplinary Research in Archaeology June 6th–8th, 2013 Iasi, Romania ISSN 2285 2018 ISSN-L = 2285 2018, p.60-61
2. Dorel PRODAN, Alexandru POTORAC, and **Cornel SUCIU**, "REAL SURFACE MICROTOPOGRAPHY INFLUENCE UPON TECHNICALLY DRY CIRCULAR CONTACTS IN THE ELASTO-PLASTIC DOMAIN", Proceedings of VarEHD16, Suceava, 25-27 October, 2012, ISSN 1844-8917
3. Dorel PRODAN, Alexandru POTORAC, and **Cornel SUCIU**, "WAVINESS AND MATERIAL HARDENING INFLUENCE UPON TECHNICALLY DRY CIRCULAR CONTACTS IN THE ELASTO-PLASTIC DOMAIN", Proceedings of VarEHD16, Suceava, 25-27 October, 2012, ISSN 1844-8917

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5. DIACONESCU E.N., GLOVNEA M.L., **SUCIU C.**, BEJINARIU B. Preliminary Experimental Measurement Of Bioarticular Friction Proceedings of VarEHD14, Suceava, 9-11 October, 2008, ISSN 1844-8917, 6 p.

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Semn tura
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