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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

- A1. **Irimescu, L.**, Investigations upon relative kinematics and friction at an elastic contact interface, Ph. D Thesis, University of Suceava, 2002, 238p.
A2. **Irimescu, L.**, Déplacement relatif et frottement à l'interface d'un contact élastique, Ph. D Thesis, INSA de Lyon, Lyon, France, 2002, 118p.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

- B1. Alaci S., Alexandru C., Ciornei FC., Doroftei I., Irimescu L. (2020) Chaos Illustrations in Dynamics of Mechanisms. In: Pisla D., Corves B., Vaida C. (eds) New Trends in Mechanism and Machine Science. EuCoMeS 2020. Mechanisms and Machine Science, vol 89. Springer, Cham.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- C1. Ciornei F C, Alaci S, Amarandei D, **Irimescu L**, I C Romanu and L I Acsinte, Method and device for measurement of dynamic viscosity, 13th International Conference on Tribology, ROTRIB'16 IOP Publishing, IOP Conf. Series: Materials Science and Engineering 174 (2017) 012041 doi:10.1088/1757-899X/174/1/012041.
- C2. Stelian Alaci, Luminita **Irimescu**, Marian Adrian Popescu, Daniel Fodorcan, Dumitru Amarandei and Florina Carmen Ciornei. Testing the assumption of linear dependence between the rolling friction torque and normal force; Vol.112 (2017) MATEC Web of Conferences article number 07002, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, eISSN: 2261-236X, DOI: 10.1051/mateconf/201711207002.
- C3. S Alaci, F C Ciornei, D Amarandei, L **Irimescu**, I C Romanu and M A Rotar, The effect of transport velocity upon spin torque 13th International Conference on Tribology, ROTRIB'16 IOP Publishing, IOP Conf. Series: Materials Science and Engineering 174 (2017) 012008 doi:10.1088/1757-899X/174/1/012008.
- C4. C. Dulucheanu, T.L. Severin, A. Potorac, L. **Irimescu** Critical points in solid-state phase transformation of a steel with 0.087% C and 0.511% Mn, determined by dilatometric analysis, Jurnal “Bulgarian Chemical Communications”, Volume 50, Special Issue G , pp. 158 - 164, 2018, paper presented on the First International Scientific Conference Alternative Energy Sources, Materials & Technologies AESMT'18, Plovdiv, Bulgaria, May 14 -15, 2018, indexat *Scopus*.
- C5. T. L. Severin, A. Potorac, C. Dulucheanu, L. **Irimescu**, Mathematical modelling concerning the influence of chemical composition upon hardness of cadmium telluride crystal - Part 2, Plovdiv conference, Jurnal “Bulgarian Chemical Communications”, Volume 50, Special Issue G, pp. 187

– 196, 2018, paper presented on the First International Scientific Conference Alternative Energy Sources, Materials & Technologies AESMT'18, Plovdiv, Bulgaria, May 14 -15, 2018, indexat *Scopus*.

- C6. L **Irimescu** and S Alaci, Considerations on friction coefficient in a simple harmonic motion, the 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Publishing IOP Conf. Series: Materials Science and Engineering 444 (2018) 022018 doi:10.1088/1757-899X/444/2/022018.
- C7. Dulucheanu, C., Severin, T.L., Potorac, A. **Irimescu** L., Determination of the critical points in solid-state transformation of some hypoeutectoid steels, E3S Web of Conference, 95, 04004, 2019, paper presented on the 8th International Conference on Manufacturing Engineering and Processes – ICMEP 2019, 16 – 18 februarie 2019, Praga, Republica Cehă, DOI: 10.105/e3sconf/20199504004, (WOS: 000507961900031) indexat în *Scopus*.
- C8. S Alaci, R-D Pentiu, F C Ciornei, I C Romanu, L **Irimescu** and F Buium, Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 1: Theoretical model, 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* 514 012002.
- C9. F C Ciornei, R D Pentiu, S Alaci, I C Romanu, L **Irimescu** and F Buium, Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 2 Experimental investigation 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* 514 012003
- C10. Alaci, S., Bujoreanu, C., Petrea, N.D., Ciornei, F.C., **Irimescu**, L., Proposed parameter for the characterization of friction in cylindrical gears teeth contact, IOP Conference Series: Materials Science and Engineering, 2020, 724(1), DOI:10.1088/1757-899X/724/1/012008
- C11. Alaci, S., **Irimescu**, L., Ciornei, F.C., Kandeava, M. Device and method for simultaneous determination of rolling and spinning friction in a concentrated contact Journal of the Balkan Tribological Association, 2020, 26(1), pp. 1–10
- C12. Alaci S.; Alexandru C.; Ciornei F.-C.; Doroftei I.; **Irimescu** L. Chaos illustrations in dynamics of mechanisms 2020 Mechanisms and Machine Science 297 304 7
10.1007/978-3-030-55061-5_34
- C13. Dulucheanu, C., Severin, T.L., Potorac, A. **Irimescu** L., „Influence of intercritical quenching on the structure and mechanical properties of a dual-phase steel with low manganese content”, Materials Today – Proceedings, ISSN 2214-7853, Volume 19, Part 3, pp. 941-948, 2019 (WOS: 000496428200006; DOI: 10.1016/j.matpr. 2019.08.005), 11th International Conference on Materials Science and Engineering (BraMat 2019) Anexa - Anexe_A2\2.1\13
- C14. Dulucheanu. C.. Severin. T.L. Cerlinca. D.A.. **Irimescu**. L.. Javorova. J.. Mechanical properties of some dual-phase steels with low manganese content. Alternative Energy Sources. Materials & Technologies (AESMT'21). ISSN 2603-364X .Volume 3. (pp. 85-86) 2021. (2021)
- C15. Dulucheanu, C., Severin, T.L., Cerlinca, D.A., Irimescu, L., „ Influence of the Cycles of Heat Treatments on the Structure and Mechanical Properties of a Dual-Phase Steel with Low manganese Content”, revista „Metals”, ISSN: 2075-4701, Volume 12, Issue 2, 189 (pp.1 - 12), Published by MDPI, Elveția, 2022 (WOS: 000772038000001; DOI: 10.3390/met12020189), factor de impact 2,695
- C16. Juliana Javorova, Iliya Andonov, Traian Severin, Luminita Irimescu, Yovko Rakanov, Elastohydrodynamic effects in lubrication of journal bearings under turbulent conditions, Journal of Chemical Technology and Metallurgy , Vol. 59 No. 3, pp.721-728, (2024), DOI: 10.59957/jctm.v59.i3.2024.28

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

- D1. Siretean S. T., Musca, I. and Irimescu, L., Numerical study of the rolling tendency, Conference proceeding „Re & IT”, Smolyan Bulgaria 2016, p.138-141

- D2. Daniel Vlaicu, Luminita **Irimescu**, Delia Cerlincă, Some remarks on ultrasonic testing for cast iron parts, Tehnomus Suceava 2017, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies, No. 24, 2017, pp 300-305, ISSN 1224-029X
- D3. **Irimescu**, L., Alaci, S., Dulucleanu, C., Severin T.L, Device for studying sliding friction, TEHNOMUS Journal - New Technologies and Products in Machine Manufacturing Technologies, 2018, ISSN 1224-029X, nr.25, pp.59-62, 2018, indexat *Index Copernicus* (www.journals. indexcopernicus.com), *Ulrichsweb* (www.ulrichsweb.seialssolutions.com/title/1349167563731/739434), *EBSCO HOST Conection* (www.conection.ebscohost.com) și *Scipio*
- D4. L. **Irimescu**. S. Alaci. C. Dulucleanu and T. Severin. Device for studying sliding friction. TEHNOMUS Journal - New Technologies and Products in Machine Manufacturing Technologies. 2018
- D5. Dulucleanu, C., Severin, T.L., Potorac, A., **Irimescu**, L., Javorova J , Determination with a laser microscope of the thickness of the paint and zinc layers of the semi-manufactured products used for metal roof tiles, TEHNOMUS Journal – New Technologies and Products in Machine Manufacturing Technologies”, ISSN 1224-029X, nr.26, pp.46-51, 2019, paper presented on TEHNOMUS XX Conference, 7 – 9 November 2019, University” Stefan cel Mare” of Suceava.
- D6. Dulucleanu, C., Severin, T.L., Potorac, A., **Irimescu**, L., Javorova, J., Influence of the grain size index on the critical points in solid-state phase transformation of hypoeutectoid steels, Proceedings of short papers, Volume 1, pp. 101-102 paper presented on International Scientific Conference (AESMT’19), 3 - 4 June, 2019, Sofia, Bulgaria.
- D7. Dulucleanu, C., Severin, T.L., Irimescu L., Berariu, E., Cerlinca, D.A., ”Influence of the Structure Succession on the Volume Fraction of Martensite and Ferrite Microhardness in a Dual-Phase Steel with Low Manganese Content”, ""20th International Multidisciplinary Scientific GeoConferince SGEM 2020"", 18 – 24 august 2020, Albena, Bulgaria, Conference Proceedings, Book 6.1, Volume 20, pp. 69-76, (DOI: 10.5593/sgem2020/6.1/s24.010) articol indexat Scopus.
- D8. Dulucleanu, C., Severin, T.L., Cerlinca, D.A., Irimescu L., Bazga, N., ”Influence of the laboratory equipment on research results on a low manganese dual-phase steel”, revista „TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies”, ISSN: P - 1224-029X, E – 2247-6016, nr.27, pp.39-45, 2020, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar
- D9. Severin, T.L., Dulucleanu, C., Cerlinca, D.A., Irimescu L., „Considerations Regarding the Extension Bending of Wide Bands on double Convex Surfaces”, revista „TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies”, ISSN: P - 1224-029X, E – 2247-6016, nr.28, pp. 52-56, 2021, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar.
- D10. Constantin Dulucleanu, Cristian Calancea, Traian - Lucian Severin, Delia - Aurora Cerlincă, Ioan Tamașag, Luminita **Irimescu** - The influence of the volume fraction of martensite on the absorbed energy in the charpy pendulum impact test of a dual-phase steel with 1.15% Mn and 1% Cr – Tehnomus Journal-New Technologies and Products in Machine Manufacturing Technologies, ISSN-1224-029X, 2024
- D11. Constantin Dulucleanu, Cristian Calancea, Traian – Lucian Severin, Delia – Aurora Cerlincă, Ioan Tamașag, Luminita Irimescu, The influence of the volume fraction of martensite on the absorbed energy in the charpy pendulum impact test of a dual-phase steel with 1.15% Mn and 1% Cr TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies”, ISSN: P - 1224-029X, E – 2247-6016, nr.31, pp. 79-86, 2024, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar

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Semnătura

