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## LISTA DE LUCRĂRI Șef de lucrări dr. ing. Tâmpu Cătălin

### 10 LUCRĂRI CONSIDERATE RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. Abdesselam Y., **Tâmpu C\***, Belloufi A., Rezgui I., Abdelkrim M., Chirita B., Herghelegiu E., Schnakovszky C., Tâmpu R., Optimization of the Effects of Electrodeposition Parameters on the Nickel-Based Composite Coatings' Tribological Properties, PROCESSES, Volume 14, Issue 1, DOI 10.3390/pr14010139, Article Number 139, 2025, eISSN 2227-9717, WOS:001657349900001

2. **Nicolae Catalin Tâmpu**, Raluca Ioana Tâmpu, Oana-Irina Patriciu, Bogdan Alexandru Chiriță, Lucian Gavrilă; Evaluation of the corrosion inhibition potential of raphanus sativus and spinacia oleracea extracts part ii: mild steel corrosion inhibition by raphanus sativus and spinacia oleracea extracts as green corrosion inhibitors; Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry; Bacau Vol. 21, Iss. 3, (2020): 435-444. ISSN 1582-540X; WOS:000577523900010

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8. Radu P., **Tâmpu, N.C.**, Herghelegiu E., Schnakovszky C., Radu M.C., Study Of The Cutting Forces And Quality Parameters Of Thin-Walled Parts Machined By Milling, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, Volume 68, pag. 91-96, 2025, ISSN 1221-5872, eISSN 2393-2988, WOS:001612666100005

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#### TEZA DE DOCTORAT

**TÂMPU Nicolae Cătălin, 2011.** “ *Contribuții teoretice și experimentale privind efectele tensiunilor reziduale generate prin frezare asupra calității suprafețelor prelucrate*”, Coordonator științific, Prof. dr. ing. Gheorghe BRABIE, Universitatea „Vasile Alecsandri” din Bacău;

- susținere publică la Universitatea „Vasile ALECSANDRI” din Bacău, în 24.10.2011;
- în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului, nr. 6697 din 21.12.2011 a fost emisă diploma de doctor Seria H, Nr.0004723 / 28.03.2012, în **Domeniul Inginerie Industrială.**

<b>BREVETE DE INVENTIE SI ALTE TITLURI DE PROPRIETATE INDUSTRIALĂ</b>
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<b>CĂRȚI ȘI CAPITOLE ÎN CĂRȚI</b>	
1	Chirita B.A., Herghelegiu E., Radu M.C., <b>Tâmpu N.C.</b> , Study of quality parameters for abrasive water jet cutting of metals. In Carou, D., Davim, J.P. (eds.) Notes for Manufacturing Instructors. Materials Forming, Machining and Tribology, Springer, Cham., pp. 221-257, 2024, Print ISBN: 978-3-031-48467-4, Online ISBN: 978-3-031-48468-1, <a href="https://doi.org/10.1007/978-3-031-48468-1_11">https://doi.org/10.1007/978-3-031-48468-1_11</a> , 37pag.
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7	Oana Ghiorghe, Carol Schnakovszky, Eugen Herghelegiu, Maria Crina Radu, Bogdan Alexandru Chirita, <b>Nicolae Catalin Tâmpu</b> , Bogdan Nita, Petrica Radu; INFLUENCE OF THE ELECTRODE MATERIAL ON ELECTRICAL DISCHARGE MACHINING PROCESS PERFORMANCE; Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry; ISSN 1582-540X; 2024, 25 (1), pp. 071 – 090
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9	Mohammed Toufik Amira, Imane Rezgui, Abderrahim Belloufi, Mourad Abdelkrim, Youssef Touggui, Elhocine Chiba, <b>Tâmpu Catalin</b> & Bogdan Chiriță ; Modeling and multi-objective optimization of the milling process for AISI 1060 steel; The International Journal of Advanced Manufacturing Technology; Volume 132, pages 5705–5732, (2024)
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15	Herghelegiu E., Schnakovszky C., <b>Tâmpu N.C.</b> , Radu M.C., Chirita B. A., Raveica I.C., Olaru I., Nita B., Zaharia A., Investigation of the Impact of Intensive EDM Regimes on Electrode Wear When Machining C120 Steel Parts, Applied Sciences-Basel, Volume

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3	M. C RADU, E. HERGHELEGIU, C. SCHNAKOVSZKY, <b>N. C. TÂMPU</b> ; Experimental Analysis Of The Influence Of Feed Rate On Quality Of Cuts Performed By Awj, Journal of engineering studies and research (JESR), ISSN 2068 – 7559, Vol. 21 No. 1, January - March 2015, Pag. 76-80.
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5	Pavel Iurea, Constantin Carausu, <b>Catalin Tâmpu</b> , Bogdan Chirita, Valerica Husanu I Residual; stresses generated at roughing grinding and hard turning of raceways of bearing rings - nternational Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. VIII, No. 2 / 2016, 19-24 pg
6	Tâmpu Raluca , <b>Tâmpu Catalin</b> ; Optimization of neurotransmitters separation under HILIC conditions, Journal of Engineering Studies and Research; ISSN: 2068-7559 DOI: <a href="http://dx.doi.org/10.29081/jesr.v23i1.261">http://dx.doi.org/10.29081/jesr.v23i1.261</a> , 2017, vol 23, Nr 1
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9	B Chirita, C Grigoras, <b>NC Tampu</b> , E Herghelegiu; Analysis of cutting forces and surface quality during face milling of a magnesium alloy - IOP Conference Series: Materials Science and Engineering 2019, 591, doi:10.1088/1757-899X/591/1/012006
10	Daniel Mărguță, Eugen Herghelegiu, <b>Cătălin Tâmpu</b> , Simona-Nicoleta Mazurchevici, Dumitru Nedelcu; Technological parameters influence on biodegradable injected polymers during water jet cutting; Journal of Engineering Sciences and Innovation Volume 6, Issue 3 / 2021, pp. 235 – 248 <a href="https://jesi.astr.ro/wp-content/uploads/2021/09/2_Dumitru-Nedelcu.pdf">https://jesi.astr.ro/wp-content/uploads/2021/09/2_Dumitru-Nedelcu.pdf</a>
11	MC Radu, C Schnakovszky, BA Chirita, <b>NC Tampu</b> , VA Ciubotariu, E Herghelegiu; Influence of process parameters on the AWJ cutting of the AL-EN AW 2017A (T4) aluminium alloy IOP Conf. Series: Materials Science and Engineering, ISSN1757-89812021, vol. 1009, art. 012048 DOI: 10.1088/1757-899X/1009/1/012048
12	CC Grigoraș, B Chiriță, G Brabie, V Zichil, E Herghelegiu, <b>C Tâmpu</b> and VA Ciubotariu; High-pressure water jet cutting of S235JR steel alloy. Influence of process parameters on dimensional accuracy; IOP Conference Series: Materials Science and Engineering 2021, 1182, doi:10.1088/1757-899X/1182/1/012027
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13	Valentin Zichil, Eugen Herghelegiu, <b>Cătălin Tâmpu</b> , Vlad Ciubotariu; STRETCH FORMING USING HEATED DIE; COSMIN CONSTANTIN GRIGORAȘ, BOGDAN CHIRIȚĂ, Journal of Engineering Studies and Research –Volume 27 (2021) No. 4, pg.24-29
14	DANIEL MĂRGUȚĂ, EUGEN HERGHELEGIU, <b>CĂTĂLIN TÂMPU</b> , SIMONA-NICOLETA MAZURCHEVICI, DUMITRU NEDELICU; Technological parameters influence on biodegradable injected polymers during water jet cutting; Journal of Engineering Sciences and Innovation Volume 6, Issue 3 / 2021, pp. 235 – 248 <a href="https://jesi.astr.ro/wp-content/uploads/2021/09/2_Dumitru-Nedelcu.pdf">https://jesi.astr.ro/wp-content/uploads/2021/09/2_Dumitru-Nedelcu.pdf</a>
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19	F Abdelkrima M Abdelkrima A Belloufia, T Catalin B Chiriță G Brabie; Multi-input fuzzy inference system based model to predict the cutting temperature when milling AISI 1060 steel; Journal of Applied Research and Technology 21 (2023) 496-513;
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