Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Industrială, Robotică și Managementul Producției
Departamentul Ingineria Fabricației
Conf.dr.ing. Ioan Alexandru Popan

LISTA
lucrărilor științifice

A – Teza de doctorat

"*Cercetări privind fabricaţia rapidă prin tăiere şi frezare cu jet de apă*"
Conducător ştiinţific: Prof.dr.ing. Nicolae Bâlc
Universitatea Tehnica din Cluj-Napoca
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B – Cărţi şi capitole în cărţi

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2. **Ioan Alexandru POPAN** si Alexandru CĂREAN , "*Tehnologii de prelucrare prin așchiere II - Suport de curs*", Editura Risoprint, 2024, ISBN 978-973-53-3284-6;
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C – Lucrări indexate ISI/BDI

c1) Articole publicate în reviste de specialitate / la conferințe cotate ISI

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2. **Popan, I.A.;** Bocănet, V.I.; Softic, S.; Popan, A.I.; Panc, N.; Balc,N. *Artificial Intelligence Model Used for Optimizing Abrasive Water Jet Machining Parameters to Minimize Delamination in Carbon Fiber-Reinforced Polymer*. **Applied Sciences** 2024, 14, 8512.Q1 (Engineering, Multidisciplinary), Impact Factor: 2.5, https://doi.org/10.3390/app14188512, WOS:001324040300001;
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16. **Popan, Ioan Alexandru**; Bocanet, Vlad; Balc, Nicolae; Alina Ioana Popan., "*Investigation on Feed Rate Influence on Surface Quality in Abrasive Water Jet Cutting of Composite Materials, Monitoring Acoustic Emissions*", Proceedings of the International Conference on Manufacturing Engineering and Materials (ICMEM 2018), 18–22 June, 2018, Nový Smokovec, Slovakia; Book: Advances in Manufacturing Engineering and Materials, Springer Nature Switzerland AG 2019, pp. 105–113, https://doi.org/10.1007/978-3-319-99353-9_12 , ISSN: 2195-4356; WOS:000462541600012

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3. Ružena KRÁLIKOVÁ, Laura DŽUNOVÁ, Adrian TRIF, **Alexandru Ioan POPAN**, *METODOLOGY OF ENERGY SAVING ILLUMINATION IN INDUSTRIAL WORKSHOPS*, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL.20, ISSUE 4/2022.

4. Raul Florin POPA and **Ioan Alexandru POPAN**, *RAPID PROTOTYPING USING CNC MILLING, CASE STUDY: JIG FOR ROBOTIC CELL „DP2022”*, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL.20, ISSUE 3/2022,
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10. **Popan I.A**., Balc N, Popan A., *„CNC Machining of the Complex Copper Electrodes",* Journal: Acta Universitatis Cibiniensis – Technical Series, Vol. LXVI 2015, Volume 66, Issue 1, Pages 153–158, ISSN (Online) 1583-7149, DOI: 10.1515/aucts-2015-0045;
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2. Popan I.A., Balc N., Carean A., **Popan I.A.**, *"The analysis of CNC manufacturing of the 3D complex parts",* 16th International Scientific Conference - Automation in Production, Planning and Manufacturing, 27-29 April 2015, Zilina-Oscadnica, Slovakia, ISBN 978-80-89276-47-9, pg. 117-122;
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