

Universitatea Tehnică din Cluj-Napoca
Facultatea Construcții de Mașini
Departamentul Ingineria Fabricației
S.L.dr.ing. Ioan Alexandru Popan

LISTA lucrărilor științifice

A – Teza de doctorat

“Cercetări privind fabricația rapidă prin tăiere și frezare cu jet de apă”
Conducător științific: Prof.dr.ing. Nicolae Bâlc
Universitatea Tehnică din Cluj-Napoca
Susținere publică: 26.09.2011.

B – Cărți și capitole în cărți publicate în ultimii 10 ani

CĂRȚI

1. Alexandru CĂREAN și **Ioan Alexandru POPAN**, “Programarea și operarea centrelor de prelucrare CNC”, ISBN 978-606-737-102-4, editura U.T.PRESS, 2015
2. **Ioan Alexandru Popan**, "Fabricație prin tăiere și frezare cu jet de apă", ISBN 978-973-53-2339-4, Editura Risoprint, 2019
3. **Ioan Alexandru Popan**, "Prelucrarea materialelor compozite prin taiere cu jet de apă", ISBN 978-973-53-2432-2, Editura Risoprint, 2019
4. **Ioan Alexandru Popan**, Suport de curs "CNC Technologies", ISBN 978-973-53-2434-6, Editura Risoprint, 2019
5. Nicolae BÂLC, Razvan PĂCURAR, Alina POPAN, Horea CHEZAN, **Ioan Alexandru POPAN** "Tehnologii neconvenționale - Lucrări practice de laborator", ISBN 978-606-504-202-5, Editura Alma Mater Cluj-Napoca, 2016
6. Emanuela Sorina Pop, Cristina Miron Borzan, Liviu Iacob Scurtu, **Alexandru Popan**, Nicolae Panc, Mihai Damian, Mihai Steopan, Grigore Marian Pop, Razvan Curta, Mihai Ciupan, "Indrumator pentru practica studentilor in atelierul mecanic ", ISBN 978-606-737-418-6, Editura UTPRESS, 2019

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

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **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;

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3. **Popan, Ioan Alexandru**; Balc, Nicolae; Popan, Alina Ioana, “*Preliminary study on occurrence of composite material delamination processed by abrasive water jet cutting*”, Int Conf on Manufacturing Science and Education (MSE) - Trends in New Industrial Revolution, Sibiu, Romania, June 7-9, 2017, Book Series: MATEC Web of Conferences, Vol: 121, Article no: UNSP 02010, 2017, ISSN: 2261-236X, DOI: 10.1051/mateconf/201712102010, WOS:000435283800028;
4. **Popan, Ioan Alexandru**; Contiu, Glad; Campbell, Ian; “*Investigation on standoff distance influence on kerf characteristics in abrasive water jet cutting of composite materials*”; International Conference on Modern Technologies in Manufacturing (MTeM-AMaTUC), Cluj-Napoca, Romania, October 12-13, 2017 Modern Technologies in Manufacturing, Book Series: MATEC Web of Conferences, Volume: 137, Article Number: UNSP 01009, 2017, DOI: 10.1051/mateconf/201713701009;
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7. **Popan, I. A.**; Balc, N.; Popan, A. I.; Carean A., Ceclan V. A. “*Analysis on the abrasive water-jet milling process on titanium alloys*”, International Conference on Production Research - Africa, Europe and the Middle East (ICPR-AEM) /International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj-Napoca, Romania, Jul 25-30, pp. 407-411, WOS:000436122900072, 2016;
8. Miron, A; Arghir, M; Balc, N; **Popan, A**; Miron-Borzan, C, “*Determination of Cutting Head Vibrations During Abrasive Water Jet Cutting Process*”, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, Vol. 58, Issue 3, pp. 431-434, June 2017, ISSN 1221-5872, 2015, Published by UT Press, WOS:000422406600015;

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul ingineriei industriale (DBLP, ACM, IEEE, SCOPUS)¹

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[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

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12. **I.A. Popan**, N. Balc, A. Carean, A. Luca, V. Ceclan, "Developing a New Program to Calculate the Optimum Water Jet Cutting Parameters", Academic Journal of Manufacturing Engineering, AJME, Vol. IX, Issue 3, ISSN 1583-7904, pp. 17-22, 2011;
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15. **I.A. Popan**, N.O. Balc, A. Luca, R. Curta, "A modeling study of the WJC etching process of steel and stainless steel materials", Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-73-5, pp 1345-1346, 2010;
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 32. **Alexandru Popan**, Nicolae Balc, Alina Luca, Carean Alexandru, "*A New Software Solution for Abrasive Water Jet Cutting*", Proceedings of the 10th international conference modern technology in manufacturing, MTeM 2011, 6th-8th October 2011, Cluj-Napoca, ISBN 978-606-8372-02-0, Pag. 271-274;
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Semnătura

