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## LISTA LUCRĂRILOR

### Șef de lucrări dr. ing. Eugen HERGHELEGIU

#### 10 LUCRĂRI CONSIDERATE RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. **Herghelegiu E.**, Schnakovszky C., Tampu N.C., 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 16, Issue 7, [DOI10.3390/app16073464](https://doi.org/10.3390/app16073464), Article Number 3464, [WOS:001738458300001](https://www.wos.com/wos/001738458300001), 2026, FI 2.5

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**9.** **Herghelegiu E.**, Radu M.C., Schnakovszky C., Chirita B.A., Tampu N.C., Study on the influence of the working regime on the quality of cut in the case waterjet processing of S 235 steel, Modern Technologies in Industrial Engineering VII (MODTECH 2019), IOP Conf. Series: Materials Science and Engineering; ISSN 1757-8981, **2019**, vol. 591, 012019, [DOI:10.1088/1757-899X/591/1/012019](https://doi.org/10.1088/1757-899X/591/1/012019), [WOS:000562929900019](https://www.wos.com/wos/record.jsp?id=COS-2019-000562929900019)

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## TEZA DE DOCTORAT

**Eugen HERGHELEGIU, 2011.** “ *Contribuții privind optimizarea regimurilor tehnologice la prelucrarea materialelor cu jet de apă*”, Coordonator științific, Prof. dr. ing. Gheorghe BRABIE, Universitatea „Vasile ALECSANDRI” din Bacău;

- susținere publică la Universitatea „Vasile ALECSANDRI” din Bacău, în 21.10.2011; în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului, nr. 6697 din 21.12.2011 a fost emisă diploma de doctor Seria H, Nr.0004720 / 28.03.2012, în **Domeniul Inginerie Industrială**.

## BREVETE DE INVENȚIE ȘI ALTE TITLURI DE PROPRIETATE INDUSTRIALĂ

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## CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

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10. **Eugen Herghelegiu**, Maria Crina Radu, Ionel-Crinel Raveica, Ionel Olaru, *Fabricație virtuală, Îndrumar aplicații practice*, Ed. Alma Mater, Bacău, 2026, ISBN 978-606-527-748-9, 156 pag
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3. Ciubotariu V.A., Radu C.M., Grigoraş C., **Herghelegiu E.**, *Obtaining new thin walled tubular structures through matrix morphological research*, Journal of Engineering Studies and Research, ISSN 2068-7559, 2021, vol. 27, nr. 1, pp. 33-38 (BD: Index Copernicus, ERIH PLUS, Google Academic, Publons, CSA etc.)
4. Radu M.C., Schnakovszky C., Chirita B.A., Tampu N.C., Ciubotariu V.A., **Herghelegiu E.**, Influence of process parameters on the AWJ cutting of the AL-EN AW 2017A (T4) aluminium alloy, The 5th International Conference on Computing and Solutions in Manufacturing Engineering (CoSME'20), IOP Conf. Series: Materials Science and Engineering, ISSN 1757-8981, 2020, vol. 1009, nr. 2, 012048 <https://doi.org/10.1088/1757-899X/1009/1/012048>, (BD: Clarivate, Web of Science, Scopus, Compendex, Inspec etc.)
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**PUBLICAȚII IN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE  
PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE  
SPECIALITATE**

1. CC Grigoraș, B Chiriță, G Brabie, V Zichil, **E Herghelegiu**, C Tâmpu, C Ciofu, C Iancu, *The analysis of high-pressure water jet cutting of thick aluminium alloy 6061-T651 from a statistical perspective*, IOP Conf. Series: Materials Science and Engineering 916 (2020) 012043, doi:10.1088/1757-899X/916/1/012043, WOS:000625330000043, Published: **2020**.
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3. C Schnakovszky, **E Herghelegiu**, MC Radu, BA Chirita, NC Tampu, *Optimization of working parameters in case of aluminium alloy abrasive water jet cutting (AWJC)*, IOP Conf. Series: Materials Science and Engineering 400, 022052 doi:10.1088/1757-899X/400/2/022052, WOS:000461147400052, Published: **2018**.
4. **Herghelegiu E.**; Schnakovszky C.; Radu M. C.; et al, *Comparative study on the processing of armour steels with various unconventional technologies*, Modtech International Conference - Modern Technologies in Industrial Engineering, V Book Series: IOP, Conference Series-Materials Science and Engineering, Volume: 227, Article Number: UNSP 012058 DOI: 10.1088/1757-899X/227/1/012058, WOS:000409221600058, Published: **2017**
5. Radu, M C; Schnakovszky, C; **Herghelegiu, E**; Tampu, NC; Zichil, V, *Comparative analysis of the processing accuracy of high strength metal sheets by AWJ, laser and plasma*, Modtech International Conference - Modern Technologies in Industrial Engineering IV, PTS 1-7, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 145, Article Number: 022034, DOI: 10.1088/1757-899X/145/2/022034, WOS:000396437600034, Published: **2016**.

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