

LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Teza de doctorat	
<p>Eugen HERGHELEGIU, 2011. “ <i>Contribuții privind optimizarea regimurilor tehnologice la prelucrarea materialelor cu jet de apă</i>”, Coordonator științific, Prof. dr. ing. Gheorghe BRABIE, Universitatea „Vasile ALECSANDRI” din Bacău;</p> <ul style="list-style-type: none"> - 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. 	

Cărți	
1.	Crina RADU, Eugen HERGHELEGIU , Ion CRISTEA, <i>Prelucrarea prin deformare plastică la rece: Îndrumar pentru lucrări practice</i> , Editura ALMA-MATER, Bacău, 2015, ISBN 978-973-8392-99-1;
2.	Crina RADU, Ion CRISTEA, Eugen HERGHELEGIU , Nicolae Cătălin TÂMPU, <i>Sisteme de management al calității: Cerințe. Audit</i> , Editura ALMA-MATER, Bacău, 2015, ISBN 978-606-527-483-9.
3.	Crina RADU, Eugen HERGHELEGIU , <i>Elemente de design. Bazele proiectării cu Solid Edge: Îndrumar de laborator</i> , Editura ALMA-MATER, Bacău, 2016, ISBN 978-606-527-482-1;

Articole / studii publicate în reviste de specialitate și volume ale unor manifestări științifice	
Articole publicate în reviste indexate ISI	
1.	N.C. TÂMPU, B. CHIRIȚĂ, E. HERGHELEGIU , G. BRABIE, Influence of the cutting regime on the residual stresses generated by carbon steel milling, Indian Journal of Engineering and Materials Sciences, ISSN: 0975-1017 (Online); 0971-4588 (Print), 2014, Vol. 21(3) [June 2014], pp. 283-288, (Fi 0.413).
2.	C. SCHNAKOVSKY, E. HERGHELEGIU , M. C. RADU, V. ZICHIL, Effects Of Reusing Abrasive Material In Abrasive Water Jet Cutting On The Quality Of Processed Surfaces And Environment, Environmental Engineering and Management Journal, ISSN: 1843 – 3707, July 2014 , Vol.13, No. 7, 1707-1712, (Fi 1.065).
3.	M. C. RADU, E. HERGHELEGIU , C. SCHNAKOVSKY, Comparative study on the effects of three unconventional cutting technologies on cut surface quality, Indian Journal of Engineering and Materials Sciences ISSN: 0975-1017, Vol. 22, April 2015 , pp. 127-132, (Fi 0.413).
Articole publicate în reviste proceedings ISI	
1.	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, Published: 2017
2.	Herghelegiu, E ; Radu, M C ; Schnakovszky, C; Tampu, C N, Considerations on material thickness influence on the AWJ processing quality of an aluminium alloy, 4TH INTERNATIONAL CONFERENCE ON COMPUTING AND SOLUTIONS IN MANUFACTURING ENGINEERING 2016 - COSME'16, Book Series: MATEC Web of Conferences, Volume: 94, Article Number: UNSP 03007, DOI: 10.1051/mateconf/20179403007, Published: 2017
3.	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, Published: 2016
4.	Zichil, V; Coseru, A; Schnakovszky, C; Herghelegiu, E; Radu, C, Shock imprint and rolling direction influence upon the breaking tenacity for 2P armor steel, 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: 032011, DOI: 10.1088/1757-899X/145/3/032011, Published: 2016
5.	C. SCHNAKOVSZKY, E. HERGHELEGIU , M. C. RADU, N. C. TÂMPU, <i>The surface quality of AWJ cut parts as a function of abrasive material reusing rate</i> , MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING (MODTECH2015), Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 95, Article Number: 012004 DOI: 10.1088/1757-899X/95/1/012004, Published: 2015
6.	N.C. TÂMPU, G. BRABIE, B.A. CHIRIȚĂ, E. HERGHELEGIU , M.C. RADU, <i>Influence of the cooling liquid on surface quality characteristics in milling</i> , MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING (MODTECH 2015), Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 95, Article Number: 012024, DOI: 10.1088/1757-899X/95/1/012024, Published: 2015
7.	M. C. RADU, I. CRISTEA, E. HERGHELEGIU , S. TABACU, <i>Improving the Accuracy of Parts Manufactured by Single Point Incremental Forming</i> , Optirob 2013: Optimization Of The Intelligent Systems And Their Applications In Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics And Neurorehabilitation Book Series: Applied Mechanics and Materials, Volume: 332 Pages: 443-448, DOI: 10.4028/www.scientific.net/AMM.332.443, Published: 2014 .
8.	C . SCHNAKOVSZKY, E. HERGHELEGIU , M. C. RADU, I. CRISTEA, <i>The Influence of the Feed Rate on the Quality of Surfaces Processed by AWJ at High Pressures</i> , MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING, Book Series: Advanced Materials Research, Volume: 837 Pages: 196-200, DOI: 10.4028 / www.scientific.net / AMR.837.196, Published: 2014 .
9.	C. SCHNAKOVSZKY, E. HERGHELEGIU , N. C. TÂMPU, <i>The Metal Sheets Processed by AWJ. Analysis of the Surface Quality</i> , MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING Book Series: Advanced Materials Research, Volume: 837 Pages: 201-205, DOI: 10.4028/www.scientific.net/AMR.837.201, Published: 2014 .
10.	M. C. RADU, E. HERGHELEGIU , N. C. TÂMPU, I. CRISTEA, <i>The Residual Stress State Generated by Single Point Incremental Forming of Aluminum Metal Sheets</i> , INNOVATIVE MANUFACTURING ENGINEERING, Book Series: Applied Mechanics and Materials, Vol: 371 Pages: 148-152, DOI: 10.4028/www.scientific.net/AMM.371.148, Published: 2013
11.	E. HERGHELEGIU , M. C. RADU, C. SCHNAKOVSZKY, I. CRISTEA, <i>Influence</i>

	<i>of the Distance between the Cutting Head and Working Sample on the Geometric Precision in Water Jet Abrasive Cutting Process</i> , INNOVATIVE MANUFACTURING ENGINEERING, Book Series: Applied Mechanics and Materials, Vol: 371 Pages: 240-244, DOI: 10.4028/www.scientific.net/AMM.371.240, Published: 2013
12.	E. HERGHELEGIU , M. C. RADU, C. SCHNAKOVSKY, I. CRISTEA, <i>High Pressure Water Jet Cutting of the Al 6061 T651 Aluminum Alloy</i> , INNOVATIVE MANUFACTURING ENGINEERING, Book Series: Applied Mechanics and Materials, Vol: 371 Pages: 245-249, DOI: 10.4028/www.scientific.net/AMM.371.245, Published: 2013
13.	M. C. RADU, E. HERGHELEGIU , C. SCHNAKOVSKY, I. CRISTEA, <i>Comparative Analysis of the Quality of Parts Made by an Aluminum Alloy Processed by Unconventional Cutting Methods</i> , INNOVATIVE MANUFACTURING ENGINEERING Book Series: Applied Mechanics and Materials, Vol: 371 Pages: 310-314, DOI: 10.4028/www.scientific.net/AMM.371.310, Published: 2013
14.	E. HERGHELEGIU , <i>Experimental Determination Of The Cutting Speed In The Case Of The Water Jet Processing Of Different Materials</i> , MODTECH 2010: NEW FACE OF TMC, PROCEEDINGS, Book Series: Proceedings of the International Conference ModTech, Pages: 327-330, Published: 2010
Articole publicate în reviste indexate BDI	
1.	E HERGHELEGIU , M. RADOVANOVIC, G. BRABIE, N. C. TÂMPU, <i>Influence of abrasive material quantity on surface quality generated by abrasive water jet operation</i> , International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. III, No. 2 / 2011 , pag. 43-48.
2.	E. HERGHELEGIU , C. SHNAKOVSKY, M. RADOVANOVIC, C. I. RAVEICA, <i>Comparative Study On The Dimensional Accuracy And Surface Quality Of Plates Cut Through Unconventional Methods</i> , ModTech International Conference Modern Technologies, Quality and Innovation 24-26 May 2012 , Sinaia, Romania, pag. 433-436.
3.	M. RADOVANOVIC, G. BRABIE, E. HERGHELEGIU , I. ZHELEZAROV, <i>Investigation on surface roughness of carbon steel machined by abrasive water jet</i> , 35th International conference on production engineering, 25 – 28 September 2013 , Kraljevo – Kopaonik, Faculty of Mechanical and Civil Engineering in Kraljevo, pag. 133 – 136.
4.	M. C RADU, E. HERGHELEGIU , C. SCHNAKOVSKY, N. C. TÂMPU, <i>Experimental Analysis Of The Influence Of Feed Rate On Quality Of Cuts Performed By Awj</i> , Journal of engineering studies and research (JESR), ISSN 2068 – 7559, Vol. 21 No. 1, January - March 2015 , Pag. 76-80.
5.	HERGHELEGIU Eugen , RADU Crina, SCHNAKOVSKY Carol and ZICHIL Valentin, <i>Quality of the Cut Surfaces Processed by AWJC as a Function of the Distance between the Cutting Head and Working Sample</i> , Applied Mechanics and Materials Vol. 809-810 (2015) pp 207-212, DOI:10.4028/www.scientific.net/AMM.809-810.207.
6.	ZICHIL Valentin, JUDELE Adrian, COSERU Ancuta, SCHNAKOVSKY Carol, HERGHELEGIU Eugen , <i>The Effect of the Deformations Produced by the Impact upon the Breaking Tenacity of AL-P2014, T42</i> , Petroleum - Gas University of Ploiesti Bulletin, Technical Series . 2016, Vol. 68 Issue 1, p23-28.
7.	M. C. RADU, C SCHNAKOVSKY, E HERGHELEGIU , N C TAMPU and V ZICHIL, <i>Comparative analysis of the processing accuracy of high strength metal sheets by AWJ, laser and plasma</i> , ModTech International Conference - Modern Technologies in Industrial Engineering IV

	IOP Publishing, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022034 doi:10.1088/1757-899X/145/2/022034
8.	Miroslav RADOVANOVIC, Eugen HERGHELEGIU , Perpendicularity Deviation And Surface Roughness In Abrasive Water Jet Cutting Of Carbon Steel, Revista de Tehnologii Neconventionale; Sibiu vol. 20.2 (Jun 2016): 39-44.
9.	Eugen HERGHELEGIU , Crina-Maria RADU, Carol SCHNAKOVSKY and Catalin TAMPU, Considerations on material thickness influence on the AWJ processing quality of an aluminum alloy, The 2016 4th International Conference on Computing and Solutions in Manufacturing Engineering - CoSME'16, that will be held in Braşov, Romania during November 3 - 4, 2016.
Articole / studii publicate în volume ale unor manifestări științifice naționale / internaționale	
1.	C. SCHNAKOVSKY, B. GANEA, I. C. RAVEICA, E. HERGHELEGIU , <i>Reverse Engineering For Automotive Industry</i> , ANNALS of the ORADEA UNIVERSITY, Volume VII (XVII), 2008 .
2.	GANEA, C. SCHNAKOVSKY, I. C. RAVEICA, E. HERGHELEGIU , „ <i>Practical Aspects Concerning Reverse Engineering</i> ”, Academic Journal Of Manufacturing Engineering, Volume 6, Issue 3/ Timisoara, 2008 .
3.	C. AXINTE, B. GANEA, E. HERGHELEGIU , C. SCHNAKOVSKY, „ <i>Ecodesign Product Life Cycle Approach</i> ”, <i>Academic Journal Of Manufacturing Engineering</i> , Volume 6, Issue 3/ Timisoara, 2008 .
4.	C. SCHNAKOVSKY, I. C. RAVEICA, B. GANEA, E. HERGHELEGIU , <i>O noua abordare privind ciclul de viață al produsului, Creșterea competitivității companiilor folosind proiectarea asistată de calculator și managementul datelor pe întreaga durată de dezvoltare a produsului</i> , Iași, 2008 .
5.	B. GANEA, C. SCHNAKOVSKY, I. C. RAVEICA, V. AVRAM, E. HERGHELEGIU , <i>Studiu experimental privind scanarea 3D, Creșterea competitivității companiilor folosind proiectarea asistată de calculator și managementul datelor pe întreaga durată de dezvoltare a produsului</i> , Iași, 2008 .
6.	C. SCHNAKOVSKY, E. HERGHELEGIU , I. C. RAVEICA, B. GANEA. <i>Study Regarding The Productivity And Quality Obtained By Means Of Various Processing Methods By Means Of Electro-Erosion</i> , THE ANNALS OF „DUNAREA DE JOS” UNIVERSITY GALATI Fascicle V 2009 , Technologies in Machine Building, pag. 229.
7.	E. HERGHELEGIU , G. BRABIE, <i>Comparative Analysis Of The Surface Quality As Result Of Processing Through Various Procedures</i> TSTM 15 nr. 1 / 2009 . pag. 54 – 59, ISSN 1224 – 7499.
8.	E. HERGHELEGIU , <i>The Influence Of The Water Pressure On The Advance Speed And The Geometric Precision When Water Jet Processing</i> TSTM 15 nr. 2 / 2009 , pag. 59 – 65, ISSN 1224 – 7499.
9.	E. HERGHELEGIU , <i>Analysis regarding the surface roughness in abrasive waterjet cutting process (A REVIEW OF THE FACTORS ON INFLUENCE)</i> , TSTM -14, No. 1 Bacău 2008 . Pag. 59 – 64, ISSN 1224 – 7499.
10.	E. HERGHELEGIU , <i>The abrasive materials used for cutting with abrasive water jet, (A REVIEW OF THE USED ABRASIVE MATERIALS)</i> , TSTM 14 Nr. 2 Bacău 2008 . Pag. 59 -65, ISSN 1224 – 7499.

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Semnătura,
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