

Anexa 11

Universitatea Națională de Știință și Tehnologie **POLITEHNICA** București
Facultatea Ingineria Industrială și Robotica
Departamentul Ingineria Calității și Tehnologii Industriale
Domeniul Inginerie industrială

LISTA DE LUCRĂRI

Profesor doctor inginer CHIVU I Oana Roxana

I. TEZA (E) DE DOCTORAT (T)

T1 - CONTRIBUȚII TEORETICE ȘI EXPERIMENTALE PRIVIND MODELAREA ȘI SIMULAREA UNOR MOTOARE ULTRASONICE, Diploma de Doctor Seria G, Nr. 0000143, emisă în baza Ordinului Ministrului Învățământului nr. 4698/2009

II. CĂRȚI PUBLICATE (C)

Ca – Cărți/cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

Ca1. O. Chivu, G. Iacobescu, C. Babiș, D. Dobrotă- *Elemente de control*, Ed.PRINTECH, București 2016, ISBN 978-606-23-0557-4, 171 pag.
Ca2. C. Babiș, Gh. Solomon, G. Iacobescu, **O. Chivu** - „Bazele proceselor de sudare-Îndrumar de laborator”, Ed. PRINTECH, București 2017, ISBN 978-606-23-0734-9, 144 pag

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb1. O.Chivu, A. Semenescu, A. Ioana, M. C. Costoiu, D.F. Marcu, C. A. Marcu, *Statistica în inginerie și economie*, Ed POLITEHNICA, 2018, ISMB 978-606-515-796-5, 219 pag
Cb2. O. Chivu-*Contribuții teoretice și experimentale privind modelarea și simularea unor motoare ultrasonice*- Ed. PRINTECH, București, 2013, ISBN 978-606-521-979-3, 196 pag.
Cb3. O. Chivu - *Ingineria sistemelor de producție*, Ed.PRINTECH, București 2013, ISBN 978-606-521-976-2, 226 pag.
Cb4. C. Babiș, O. Chivu -*Comportarea la Oboseală a Structurilor Sudate- Noțiuni Teoretice - Calculul și Mecanica Ruperii- vol I*, Ed. PRINTECH, București 2013, ISBN 978-606-23-0051-7, 129 pag.
Cb5. C. Babiș, O. Chivu -*Comportarea la Oboseală a Structurilor Sudate- Cercetări Experimentale – Deformații și Curbe de Durabilitate -vol II*, Ed. PRINTECH, București 2013, ISBN 978-606-23-00630, 172 pag.
Cb6. C. Babiș, G. Iacobescu, O. Chivu, D. Dobrotă – *Elemente Legislative în Domeniul Securității și Sănătății în Muncă*, Ed.POLITEHNICA PRESS, București 2013, ISBN 978-606-515-533-6, 365 pag.
Cb7. C. Babiș, G. Solomon, G. Iacobescu, O. Chivu, *Analiza Avariilor*, Editura PRINTECH 2017, ISBN 978- 606-23-0740-0, CNC SIS Cod 54, 319 pag;
Cb8. C. Babiș, G. Iacobescu, O. Chivu, Z. Apostolescu, D. Nițoi- *Elemente de securitate și sănătatea muncii în domeniul mecanic prelucrări prin așchiere*, Ed. PRINTECH, București 2016, ISBN 978-606-23-0573-4, 177 pag.

Cc - Cărți publicate în alte edituri, cu ISBN.

III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

I1. O. Chivu, C. Babiș, D. Dobrotă– *Noțiuni Generale de Teoria Așchierii, Îndrumar laborator*, Editura PRINTECH, București 2013, ISBN 978-606-23-0060-9, 105 pag;
I2. O. Chivu, C. Babiș, V. Aioniesie– *Elemente de Medicina Muncii, Îndrumar de Laborator*, Ed.PRINTECH, București 2013, ISBN 978-606-23-0061-6, 111pag;
I3. C. Babiș, G. Iacobescu, O. Chivu, D. Dobrotă– *Elemente Legislative în Domeniul Securității și Sănătății în Muncă-Sinteze și teste grilă*, Ed.POLITEHNICA PRESS, București 2013, ISBN 978-606-515-535-0, 146 pag;
I4. Gh. Amza, C. Radu, A. Dumitrache-Rujinski, D.Nitoi, Z. Apostolescu, O. Chivu, A. Moraru; *Îndrumar proiect, Tehnologia materialelor și produselor. Proiectarea proceselor tehnologice* Vol. XI, Ed. PRINTECH, ISBN-978-606-23-02-11-5, 612 pag.
I5. Gh. Amza, C. Radu, D. F. Nitoi, A. Dumitrache Rujinski, Z. Amza, O. Chivu , *Tehnologia Materialelor Si Produselor - Proiectarea Proceselor Tehnologice, Vol X*, Ed Printech, Bucuresti, 2017, ISBN 978-606-23-0795-0, 581 pag

D -Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris- Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).Se mentioneaza la fiecare lucrare includerea in Baza ISI [Accession Number, WOS=..., ultimul Factor Impact, ISSN] si/sau denumirea altei (altor) BDI.

Ris1. O.R. Chivu ,C. Babis ,A. Semenescu ,O. D. Negoita ,G. Iacobescu,A Dimitrescu , *The Environmental Impact of Ecological Rehabilitation Techniques Applied to Statically and Variably Stressed Welded Structures* ,Sustainability **2018**, 10(12), 4782; <https://doi.org/10.3390/su10124782>, IF=2.075, **WOS:000455338100448**, ISSN: 2071-1050

Ris2. O. R. Chivu, O. Mederle, A. Semenescu, I. Mates , C. Babis , C. Demetrian, O. Negoita , A. Demetrian, *The Determination of the Noise Pollution in a Production Hall and the Diseases Produced by It*, REVISTA DE CHIMIE (Bucharest), 69, No. 4 ,**(2018)**, pp 875-880, Accession Number: **WOS:000433223000025**, ISSN: 0034-7752, IF=1.41

Ris3 C. LANCEA , L. A. CHICOS , S. M. ZAHARIA, M. A. POP, A. SEMENESCU, B. FLOREA , **O. R. CHIVU**, *Accelerated Corrosion Analysis of AISI10Mg Alloy Manufactured by Selective Laser Melting (SLM)*, REVISTA DE CHIMIE, (Bucharest),69, No. 4 , **(2018)**, pp975-981, Accession Number: **WOS:000433223000046**, ISSN: 0034-7752, IF=1.41

Ris4 C. BABIS, A. SEMENESCU, **O. R. CHIVU**, M. A. GLIGOR, G. IACOBESCU, S. GHIMISI, O. NEGOITA, *determinarea emisiilor de noxe in cazul sudarii manuale cu arc electric cu electrod invelit*, REVISTA DE CHIMIE.(Bucharest), 69, No. 7, **(2018)**, pp 1826-1829, IF=1.41, **WOS:000444595700046**, ISSN: 0034-7752

Ris5. G. IACOBESCU , C. RONTESCU , D. T. CICIC , C. BABIS , A. DIMITRESCU, **O. CHIVU**, *influence of the chemical composition of coated electrodes on moisture content of the coating and diffusible hydrogen in the welded metal*, U.P.B. Sci. Bull., Series B, Vol. 80, Iss. 3, **(2018)**, ISSN 1454-2331, pp75-84, 2018, IF=0.18, **WOS:000440890800007**, ISSN: 1454-2331

Ris6 A. FEIER1 , **O.R. CHIVU**, *Lamellar Tearing Observations Regarding the Application of European Standards in the Field of Welded Steel Constructions* , REVISTA DE CHIMIE, (Bucharest), 69, No. 6, **(2018)**, pp 1352-1354, Accession Number: **WOS:000438397400011**, ISSN: 0034-7752

Ris7 C. BABIS , A. SEMENESCU , V. PETRESCU, **O. R. CHIVU**, O. NEGOITA, G. IACOBESCU , S. GHIMISI, *The Algorithm of Chemical Risk Assessment in a Welded Construction Company*, REVISTA DE CHIMIE.(Bucharest),69, No. 9 , **(2018)**, pp2551-2556, **WOS:000449628400052**, ISSN: 0034-7752

Ris8 D.T. Cicic, C. Rontescu, A.M. Bogatu, **O.R. Chivu**, I.G. Ghionea ,*Research on the Effect of Applying the Sacrifice Layer Technique on the Chemical Composition of the Welded Deposits* ,REVISTA DE CHIMIE (Bucharest), Vol.68, No.11, **(2017)**, ISSN: 0034-7752, pp.2529-2532 , IF= 1.232, **WOS:000416751800012**

Ris9.D.T. Cicic, C. Rontescu, A.M. Bogatu, C.Gh. Amza, **O.R. Chivu**, *The Influence of the Deposit Parameters on the Medium Chemical Composition of the Welded Joint*, REVISTA DE CHIMIE (Bucharest), Vol.68, No.10 **(2017)**, pp2261-2264, ISSN: 0034-7752 IF= 1.232, **WOS:000416750000012**

Ris10. C. Rontescu, D.T. Cicic, C.Gh. Amza, **O.R. Chivu**, G. Iacobescu, *Comparative Analysis of the Components Obtained by Additive Manufacturing Used for Prosthetics and Medical Instruments*, REVISTA DE CHIMIE (Bucharest), Vol.68, No. 9, **(2017)**, pp2114-2116, ISSN: 0034-7752, IF= 1.232, **WOS:000416748800036**

Ris11. S.M. Zaharia, M. A. Pop, L. A. Chicos, C. Lancea, A. Semenescu, B. Florea, **O. R. Chivu**, *An Investigation on the Reliability and Degradation of Polycrystalline Silicon Solar Cells Under Accelerated Corrosion Test*, MATERIALE PLASTICE , Vol.54, No. 3 **(2017)**, pp466-472, IF= 0.778, **WOS:000426412300012**

Ris12. M. A. Pop, V. Geaman, I. Radomir, T. Bedo, I. Milosan, S.M. Zaharia, B. Florea, A. Semenescu, **O. R. Chivu**, *The Degradation Effects to Hand Made Composite Materials by Using Acids*, MATERIALE PLASTICE, Vol.54, No. 3 **(2017)**, pp.433-437, IF=0.778, **WOS:000426412300006**

Ris13. C. Rontescu; D.T. Cicic; A.M. Bogatu; C. Gh. Amza; **O.R.Chivu**; *Research Regarding the Analysis of the Samples Used for Prosthetics and Medical Instruments Obtained by Sintering*, REVISTA DE CHIMIE (Bucharest), Vol.68, No.8, **(2017)**, pp1854-1857, IF= 1.232, **WOS:000410388000037**

Ris14. O.R. Chivu; A. Semenescu; C.Babis; G. Iacobescu; O.D. Negoita; S. Gradinaru; *Theoretical and Experimental Research in Order to Protect the Environment in Romania*, REVISTA DE CHIMIE (Bucharest), Vol.68, No.8, **(2017)**, pp1858-1863, IF= 1.232, **WOS:000410388000038**

Ris15. A. Semenescu; C. Babis; G. Iacobescu; M. Rogobete; C. Racuciu; M. Nen; **O.R.Chivu**; S.S. Ghimis, *Research on the Implementation of Cleaner Technologies for Obtaining Chemicals, in Relation to the Environment*, REVISTA DE CHIMIE, Vol. 68, Issue: 4, Pages: 772-775 , Published: APR **(2017)**, IF= 1.232, **WOS:000400732400030**

Ris16.M. A. Pop , V. Geaman, I. Radomir, T. Bedo, I. Milosan, A. Semenescu, B. Florea , **O.R. Chivu**, *Effect of Different Solutions on the Handmade Composite Materials*, REVISTA DE CHIMIE (Bucharest), Vol.68, No.3, **(2017)**, pp467-469, IF= 1.232, **WOS:000400731900008**

Ris17. S.M. Zaharia , M.A. Pop, A. Semenescu , B. Florea , **O.R. Chivu**, *Mechanical Properties and Fatigue Performances on Sandwich Structures with CFRP Skin and Nomex Honeycomb Core*, MATERIALE PLASTICE; Vol. 54; No.1; **(2017)**, pp.67-72. IF=0.778, **WOS:000400629900016**

Ris18.V.G. Vasilescu, E. Vasilescu, A. Semenescu, B. Florea, I.M. Mates, **O.R. Chivu**, *Contributions Regarding the Influence of the Antibacterial Chemical Deposits on the Surface of the Oral Implant of the Ti10Zr Bio-alloy on Its Behaviour During Use*, REVISTA DE CHIMIE (Bucharest), Vol. 68; No. 2; **(2017)**, pp 238-242; **WOS:000395499200013**

Ris19.V.G. Vasilescu , E. Vasilescu , D. Dima , T.L. Ciocan , A. Semenescu , B. Florea , I.M. Mates , **O.R. Chivu**, *Contributions on Setting the Optimal Regime of Antibacterial Deposition on the Surface of the Oral Implant of Ti10Zr Bio-alloy*, REVISTA DE CHIMIE (Bucharest), Vol.68, No.1, **(2017)**, pp55-59 IF= 1.232, **WOS:000397043100009**

Ris20. D.P. Stefanescu, **O.R.Chivu**, C. Babis, A. Semenescu, A. Gligor, Title: *Research on the Economic Organization Environmental Impact*, Source: REVISTA DE CHIMIE, Volume: 68, Issue: 3, Pages: 599-601, Published: MAR (2017), IF= 1.232, **WOS:000400731900039**

Ris21 D.P. Stefanescu, **O.R.Chivu**, C. Babis, A. Semenescu, V. Petrescu, M. Nen, Title: *Research on the Mathematical Model for Developing the Oil Processing Company Environmental Strategies*, Source: REVISTA DE CHIMIE, Volume: 68, Issue: 2, Pages: 328-330, Published: FEB (2017) Accession Number: **WOS:000397043100028**

Ris22. **O.R. Chivu**, A. Semenescu, Babis, C. Babis, C. Amza, G. Iacobescu, Z. Apostolescu, V. Petrescu, G.M. Adir, Title: *The Impact of the Industrial Processing of Oil on the Rainfall Water Quality*, Source: REVISTA DE CHIMIE, Volume: 68, Issue: 1, Pages: 175-179, Published: JAN (2017), IF= 1.232, **WOS:000395499200038**

Ris23. Z. Apostolescu, **O.R.Chivu**, A. Semenescu, C. Babis, C. Amza, G. Iacobescu, M.A. Gligor, D. Nitoi, G.M. Adir, Title: *The Impacts of Industrial Processing of Oil on Soil Quality*, REVISTA DE CHIMIE, Volume: 68, Issue: 1, Pages: 111-115, Published: JAN 5 (2017), **WOS:000395499200024**

Ris24. R. F. Coterlici, V. Geaman, M.A. Pop, T. Bedo, I. Radomir, **O. R. Chivu**, B. Florea, A. Semenescu, *Thermal Analysis Studies Regarding the Eco-Composites Based on Jute by Applying Salinity Treatment*, REVISTA DE CHIMIE (Bucharest), Vol. 67, No. 10, (2016), pp2049-2055, IF 0,956, **WOS:000388359900033**

Ris25. **O.R. Chivu**, A. Semenescu, C. Babis, C. Amza, G. Iacobescu, M. Pasare, V. Petrescu, Z. Apostolescu, Title: *The Impacts of Industrial Processing of Oil on the Fountain Water Quality*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 12 pp 2577-2583 Published: DEC (2016) ISSN: 0034-7752, **WOS:000393230400039**

Ris26. A. Semenescu, **O.R.Chivu**, C. Babis, Z. Apostolescu, C. Amza, G. Iacobescu, V. Petrescu, Title: *The Mathematical Modeling of a Chemical Production Prediction for a Chemical Company and the Impact of the Results Pollutants on the Environment*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 12 pp.2659-2661 Published: DEC (2016) ISSN: 0034-7752, **WOS:000393230400056**

Ris27. A. Semenescu, **O.R.Chivu**, C. Babis, Z. Apostolescu, M.A. Gligor, G. Iacobescu, Title: *Methods of Evaluating the Impact of an Environmental Aspect in Case of a Petrol Processing Company*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 11 pp. 2375-2378 Published: NOV (2016) ISSN: 0034-7752, **WOS:000388361900053**

Ris28 A. Semenescu, **O.R.Chivu**, C. Babis, Z. Apostolescu, C. Amza, V. Petrescu, G. Iacobescu, Title: *The Impact of Industrial Oil Processing Activity on the Air Quality*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 10, pp2018-2021 Published: OCT (2016), ISSN: 0034-7752 **WOS:000388359900027**

Ris29. C. Rontescu, A. Pacioga, **O.R. Chivu**, D. Cicic, G. Iacobescu, A. Semenescu, Analysis of the Surface Quality of Test Samples Made of Biocompatible Titanium Alloys by Sintering, REV.CHIM.(Bucharest), Vol.67, No. 10 (2016), pp1945-1947, **WOS:000388359900010**

Ris30. A. Semenescu, **O.R.Chivu**, C. Babis, Z. Apostolescu, V. Petrescu, G. Iacobescu, Title: *Research on the Influence of Alloying Elements on the Behaviour of the Cladding by Welding of Steels*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 9 pp. 1787-1792 Published: SEP (2016) ISSN: 0034-7752, **WOS:000385266600028**

Ris31. C. Babis, A. Semenescu, **O.R.Chivu**, Z. Apostolescu, V. Petrescu, G. Iacobescu, Title: *Environmental Impact in Case of Fillet Welds Rehabilitation for Welded Bridges*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 9, pp1879-1883 Published: SEP (2016), ISSN: 0034-7752 **WOS:000385266600046**

Ris32. A. Semenescu, C. Babis, **O.R.Chivu**, M.A. Gligor, Title: *The Effect of the Dilution Multiple Layers, in the Case of Cladding by Welding*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 8 pp. 1555-1557 Published: AUG (2016) ISSN: 0034-7752 **WOS:00038451420003**

Ris33. A. Semenescu, **O.R.Chivu**, C. Babis, Z. Apostolescu, V. Petrescu, G. Balan, Title: *Formation Mechanism Emissions in Case of Reconditioning by Welding in the Automotive Industry Crankshafts*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 7 pp. 1281-1283 Published: JUL (2016) ISSN: 0034-7752, **WOS:000385513000009**

Ris34. E. Vasilescu, B. Florea, A. Semenescu, **O.R.Chivu**, C. Babis, Title: *The Mathematical Model for Manufacturing the Nickel Powder with Defined Properties*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 7, pp. 1329-1332 Published: JUL (2016) ISSN: 0034-7752 **WOS:000385513000020**

Ris35. E. Vasilescu, M. Neacsu, V.G. Vasilescu, B. Florea, A. Semenescu, **O.R.Chivu**, C. Babis, Title: *Experimental Researches for Manufacturing the Nickel Powder*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 6, pp1114-1117 Published: JUN (2016) ISSN: 0034-7752, **WOS:000385510300017**

Ris36. C. Rontescu, **O. R. Chivu**, A. Pacioga, G. Iacobescu, I. M. Vasile, D. Cicic, A. Semenescu, Research on Biocompatible Titanium Alloys Test Samples Obtained by Sintering, REVISTA DE CHIMIE (Bucharest), Vol. 67, No. 6, (2016), pp 1124, **WOS:000385510300019**

Ris37. V. Geaman, M. A. Pop, I. Radomir, T. Bedo, B. Florea, A. Semenescu, **O. R. Chivu**, M. Pasare, M. A. Gligor, (2016), *Lubrication of High Speed Ball-Bearings Using Polymer Additives*, REVISTA DE CHIMIE (Bucharest), Vol. 67, No. 11, (2016), pp 2207- 2209 FI= 0,956, **WOS:000388361900016**

Ris38. **O.R. Chivu**, C. Rontescu, D.T. Cicic, G. Bălan, (2016), *The Effects Of Reconditioning By Welding Of Crankshafts In Automotive Industry*; Metalurgija, ISI; Vol.55, Br./No 1, Str./P 1-144, Zagreb, Sijecanj-Ozujak/ January-March 2016, ISSN 0543-5846, 55-58, FI=0.959, **WOS:000372203900015**

Ris39. **O.R. Chivu**, D.T. Cicic, C. Rontescu, (2016), *Validation Of The Finite Element Method (FEM) In Case Of Reconditioning By Welding Applied To Crankshafts*, Metalurgija, Vol. 55, No.2, pp. 221-224, ISSN 0543-5846, IF=0.959, **WOS:000372343600020**

Ris40. D. Cîrîină, **O.R. Chivu**, L. Cîrîină, (2016), *Assessment of air pollutants produced by industrial activity from an aluminium alloys foundry*, Metalurgija, Vol. 55, No. 1, pp.11-14, FI=0.959, **WOS:000372203900003**

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Ris42. D-T. Cicic, C. Rontescu, C. Gh. Amza, **O.R. Chivu**, G. Iacobescu, (2016), *Qualitative and Quantitative Comparisons Concerning the Influence of Joining Parameters on the Quality of the PPR Without Insertion Components Assembly*, Materiale Plastice, Vol. 53, No.1, pp. 38-41, (2016), FI=0.81, **WOS : 000373966500009**

Ris43. **O.R. Chivu**, D-T. Cicic, C. Rontescu, I-M. Vasile, (2016), *The Influence Of The Reconditioning By Welding Processes On The Hardness Of Crankshafts In The Automotive Industry*, Metalurgija, Vol. 55, No.2, pp. 281-284, ISSN 0543-5846, FI=0.959

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Ris44. O.R. Chivu, C. Rontescu, D-T. Cicic, (2015), *Research On The Quality Of Heterogeneous Welded Joints Between Copper And Stainless*, Revista de Chimie, (Bucuresti), Vol. 66, No.11, pp. 1752-1757, FI=0.81, **WOS:000368213500007**

Ris45. C. Rontescu, D-T Cicic, C. Gh. Amza, O.R. Chivu, D. Dobrotă, (2015), *Choosing the optimum material for making a bicycle frame*, Metalurgija, Vol. 54, No. 4. pp. 679-682, FI=0.959, **WOS:000356463800020**

Ris46. S. Cristea, I. Bolocan, D. Bombos, M. Bombos, G. Vasilievici, T. Juganaru, O.R. Chivu, (2015), *Casen Panaitescu-Hydrogenolysis of Sunflower Oil over Co-Mo Catalyst*- Revista de Chimie, (Bucharest), Vol. 66, No.8, 2015, pp. 1177-1180, FI=0.81, **WOS:000363359700034**,

Ris47. D.T. Cicic, C. Rontescu, C. Gh. Amza, O.R. Chivu, (2015), *The Combined Effect of Chemical Elements on the Properties of a Layer Deposited by Welding*, Revista de Chimie, (Bucharest), Vol. 66, No. 9, (2015), pp.1299-1301, FI=0.81 **WOS:000363359700009**

Ris48. M. Bombos, D. Bombos, O.R. Chivu, I. Bolocan, (2015), *Oxidation of Glycerol by Gold Catalysts*, Revista de Chimie (Bucharest), Vol. 66, No.9, 2015, pp. 1513-1515, FI=0.81, **WOS:000363359700034**,

Ris49. C. Babiş, O.R. Chivu, D. Dobrotă, (2014), *Finite element type of stress analysis for parts based on S235 JR steel welding*, Metalurgija, vol. 53, no. 2, pp. 251-253, 2014; FI=0.959 **WOS:000326142100028**

Ris50. O.R. Chivu, (2013), *The optimization of the state of welding parameters to obtain metallic structures from the ol 52.4k steel*; Metalurgija, Vol. 52, No. 4, 2013, pp. 465-468; FI=0.959, **WOS:000318059400008**,

Ris51. O. Chivu (Vîrlan); C. Rontescu; D-T. Cicic; C. Petriceanu; (2015), *Preliminary Research On The Optimization Of the Reconditioning By Welding Technology Of certain Elements In The Automotive Industry*; Buletinul Stiintific al UPB; BDI; Series D, Vol. 77, Iss. 2., 217-224, INDEXATĂ: SCOPUS, **ULRICHS INTERNATIONAL**

Ris52. D-T. Cicic, C. Rontescu, G. Iacobescu, O. Chivu, C. Amza, (2015), *Mathematical model for determination of the melting velocity of the coated electrodes*, U.P.B. Sci. Bull., Series D, Vol. 77, Iss. 3, ISSN 1454-2358, INDEXATĂ: SCOPUS, **ULRICHS INTERNATIONAL**

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Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se mentioneaza Categoria CNCSIS.

Rno - Alte reviste de specialitate de circulație națională.

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson

Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a

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Vis21 C. Petriceanu, **O.R. Chivu**, (2015), *Mathematical Modeling of Non-Destructive Testing for Layered Materials*, Applied Mechanics and Materials, Vol. 760, pp. 651-656.

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Vis24 **O. Chivu**, D. Dobrotă, C. Babiș, (2013), *Contributions to the finite element modeling of linear ultrasonic motors*, Fiability and Durability, Supliment no. 1, pp. 116-124;

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Vi1 D. Dobrotă, C. Babiș, **O. Chivu**, (2013)- Research regarding the influence of the convex/concave shape welds on the residual deformations and on the fatigue resistance of corner welds – 9 th International Conference on Fracture and Strength of Solids, June 9-13, Jeju, Korea

Vn - Volumele unor manifestări științifice naționale.

- Vn1** Ghe. Amza, D.V. Petrescu, D. F. Nițoi, Z. Apostolescu, **O. R. Chivu**, "Contributions on the environmental impact of sections of the foundry an enterprise technology equipment ", Topic 6 - Management of sustainable development, pag. 427- 434. ISSN 2537-3463, SAMRO **2016** ISSN-L 2537-3455 ISBN 978-973-31-2390-3.
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- Vn3** C. Radu, Gh. Amza, **O.R. Chivu**, (**2012**), *Research regarding the finite element modeling of an ultrasonic horn used in a cutting process*, Of 12th International Conference on Technology and Quality for Sustained Development – TQSD12 Bucharest, Romania, November, 5 – 6, ISSN 1844-9158, pp.129-135.
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- Vn6** **O.R. Chivu**, (**2011**), *Theoretical and experimental contributions regarding construction, mode of operation and tehcnical characteristics of linear ultrasonic engines*, SISOM 2011 and Homagial Session of the Commission of Acoustics, Bucharest 25-26 May, pp. 200-203
- Vn7** **O.R. Chivu**, Gh. Amza, (**2011**), *Contributions regarding modeling therby method of finite elements of rotary ultrasonic motors active elements, model MUR-10C*, SISOM 2011 and Homagial Session of the Commission of Acoustics, Bucharest 25-26 May, pp. 204-209
- Vn8** G. Chirculescu, D.Dobrotă, **O.R. Chivu**, (**2010**), *Researches regarding the internal rectification in ultrasonic field of the pieces realised from quality carbon steel – SISOM 2010*; pp .244-247
- Vn9** **O.R. Chivu**, Gh. Amza , G.Chirculescu, (**2010**), *Materials uses in producer of active elements from ultrasonics engines*, SISOM 2010 and Homagial Session of the Commission of Acoustics, Bucharest 29-31 May, pp. 256-260
- Vn10** Gh. Amza, Z. Apostolescu, **O.R. Chivu**, M. Iliescu, (**2009**), *Research on Modeling and Design of Rotation and Translation Ultrasonic Motors - Recent Advances in Signal Processing, Robotics and Automation - Proceedings of the 8th WSEAS International Conference on SIGNAL PROCESSING, ROBOTICS and AUTOMATION (ISPRA 09)*, Cambridge, UK, February 21-23, 2009, pp. 49-52

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție

B1. Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian-Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, **Chivu Oana Roxana**, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia-Doina, (2016)- *Proteză Totală De Cot Semiconstrânsă, Din Aliaje Cu Memoria Formei, Cu Sistem De Cuplare Pe Bază De Efect Al Memoriei Formei*, nr. A 100383/ 27.05.2016, Brevet de inventie OSIM

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B1. Rontescu Corneliiu , Cicic Dumitru-Titi , **Chivu Oana Roxana**, Amza Cătălin Gheorghe, (2016)- *Metoda și dispozitiv modular mobil de recondiționare prin sudare a arborilor cotiți din industria auto*, numar: A/00026, din 13.01.2016- Propunere Brevet de inventie OSIM 20/5

B2. Miculescu Florin, Miculescu Marian, Costoiu Mihnea Cosmin, **Chivu Oana Roxana**, Barbu Catalin Alexandru, Semenescu Augustin, (2016), USCATOR MECANO-ELECTRIC DE RUFEE, A/00522 din 22.07.2016- Propunere Brevet de inventie OSIM

B3. Prisacariu Iulie, **Chivu Oana Roxana**, (2015)- *Dripping device to obtain adequate dripping interval between serial drips, device being used for determining resistance index of surface-leakage flows*, Derwent Primary Accession Number: 2015-103831 [10], RO129901-A2 –Propunere Brevet de inventie OSIM

<http://pub.osim.ro/publication-server/pdf-document?PN=RO129901%20RO%20129901&iDocId=6283&iepatch=.pdf>

B4. Demetrian Alin, Semenescu Augustin, **Chivu Oana Roxana**, Costoiu Mihnea, Demetrian Camelia, Mates Ileana, Dumitrescu Silviu, ESO-TRAHEOSCOPIA A1000913, DIN 09-11.2017-Propunere Brevet de inventie OSIM

A - Inovații și alte creații.

A1.DEMETRIAN Alin-Dragoș, DEMETRIAN Camelia, COSTOIU Mihnea Cosmin, SEMENESCU Augustin, CHIVU Oana-Roxana, MATEȘ Ileana Mariana, *Sistem Complet Pentru Drenajul Toracic, Reutilizabil*U/00003, 17.01.2018, inovatie OSIM

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, în țara/străinătate (**Pn** – nationale, **Pi** - internationale).

Pi– internationale

- Pi1.** „Augmented Reality For Technical Entrepreneurs” (Arte), Proiecte De Cooperare Inter-Institutionala, Programul RO15, Finantat Prin Mecanismul Financiar SEE 2009-2014, 14-SEE-PC-RO BUCUREȘTI, buget total: 110920 Euro, buget UPB: 29385 , 03.08.2015-31.05.2016, 01.06.2014-31.05.2016, , grant obtinut prin competitie-**DIRECTOR PROIECT**
- Pi2.** 2016-1-RO01-KA202-024578 "3DP Training in 3D Printing To Foster EU Innovation & Creativity", din 01.10.2016 pana la 31.08.2018, CONTRACT NR. 2078C/30.09.2016-25590 Euro, finantat prin programul Erasmus+, , grant obtinut prin competitie Expert e-learning-COR-235905
- Pi3.** proiect 2016-1-RO01-KA202-024493 Circular Economy Digital Training Toolbox to foster Innovative Green Entrepreneur-Eng@age, din 01.10.2016 pana la 31.08.2018, CONTRACT NR 2071C/30.09.2016,26690 Euro, finantat prin programul Erasmus+, , grant obtinut prin competitie, Expert e-learning-COR-235905
- Pi4.** 2016-1-RO01-KA202-024508 A Digital Training Toolbox for Fostering Experts in Welding Technologies, din 01.10.2016 pana la 31.08.2018, CONTRACT NR 2065C/30.09.2016- ,196250 Euro, finantat prin programul Erasmus+, , grant obtinut prin competitie, Expert e-learning-COR-242401
- Pi5.** "ENEX – Expert in Nanotechnology Exploitation", ERASMUS+ Project 2014-1-DE02-KA202-001635, KA2 Strategic partnership, 2014-2017, Expert formare.
- Pi6.** Digital Training Toolbox for Entrepreneurial Training in Augmented Reality (AROMA) 2017-1-CZ01-KA202-035560, Erasmus+ KA2 Strategic partnership, 2017-2020, 25475 Euro
- Pi7.** Drone technology training to boost EU entrepreneurship and Industry 4.0, 2017-1-RO01-KA202-037083, Erasmus+ KA2 Strategic partnership, 2017-2019, 29460 Euro
- Pi8.** Virtual & Augmented Reality Trainers Toolbox to Enable Adults Catch Up With Life Skills (VITA) 2017-1-MT01-KA204-026949, Erasmus+ KA2 Strategic partnership, 2017-2019, 29325 Euro
- Pi9.** 2018-1-EL01-KA204-047819-An Adult Digital Education Skills Kit to Foster Employability (DESK), 12842.86
- Pi10.** 2018-1-DE02-KA202-005228" INDEX-Industrial Expert" -2018, 1044Euro

Pn – nationale

- Pn1.** Nr.51/12.03.2018-„Proiectarea unor tehnologii de recondiționare prin încărcare prin sudare în câmp ultrasonic a diferitelor piese uzate”- contracte cumpărare mediu socio-economic (în valoare de minimum 25000 lei), buget total : 25185ron, contract nr.3426C/26.03.2018, perioada 1.04.2018-12.09.2018-**DIRECTOR PROIECT**
- Pn2.**„Reducerea concentratorilor de tensiuni la îmbinările sudate de colt” CONTRACT DE CERCETARE ȘTIINȚIFICĂ nr. 326 din 21.04.2016, buget total: 444 Euro, 21.04.2016-20.07.2016,membru
- Pn3.** Noi tehnologii de valorificare a deșeurilor din materiale (anvelope, benzi, articole tehnice)- Contract CNCSIS TIP A – Nr. 40 Gr/2007. Valoare 53500, membru.
- Pn4.**Noi tehnologii de valorificare a deșeurilor din materiale (anvelope, benzi, articole tehnice)- Contract CNCSIS TIP A – Nr. 91 Gr/2008. Valoare 47700, membru.
- Pn5.** Educație și formare profesională în sprijinul creșterii calității învățământului prin inițierea unor noi programe de licență și masterat în domeniul sănătății și securității în muncă. POSDRU/86/1.2/S/61690, 2010-2013, expert termen scurt

F – Alte lucrări de cercetare – dezvoltare

Obs.-a se menționa calitatea de responsabil/director sau coautor.

F.Contract POSDRU/159/1.5/S/134398, Studii Postdoctorale, Universitatea "POLITEHNICA", București (România)

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

Prof.dr.ing. Oana Roxana CHIVU