

Universitatea Politehnica din București
 Facultatea Ingineria și Managementul Sistemelor Tehnologice
 Departamentul Tehnologia Materialelor și Sudare.
 Domeniul Inginerie industrială

LISTA DE LUCRĂRI

Conferențiar doctor inginer CHIVU I Oana Roxna

10 LUCRĂRI REPREZENTATIVE

1. **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**
2. **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**
3. **O. Chivu**, *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, IF = 0,959, **WOS 000318059400008**;
4. **O. Chivu**, C. Rontescu, D-T. Cicic, *Research On The Quality Of Heterogeneous Welded Joints Between Copper And Stainless*, Revista de Chimie, (Bucuresti), Vol.66, no.11, 2015, pp.1752-1757, IF=0.81, **WOS:000368213500007**;
5. **O. Chivu**, C. Rontescu; D-T. Cicic; G. Bălan; *The Effects Of Reconditioning By Welding Of Crankshafts In Automotive Industry*; Metalurgija; Vol. 55, no. 1, 2016, IF = 0,959, **WOS:000372203900015**
6. **O. Chivu**, D-T Cicic, C. Rontescu, I-M. Vasile, *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, 2016, IF=0.959, **WOS:000372343600036**
7. **O. Chivu**, D-T Cicic, C. Rontescu, *Validation of the finite element method (FEM) in case of reconditioning by welding applied to crankshafts*, Metalurgija, Vol. 55, No.2, pp. 221-224, 2016, IF=0.959, **WOS:000372343600020**
8. **O.R. Chivu**, C. Rontescu, D.T. Cicic, I.M. Vasile, C. Petriceanu, (2015), *Qualitative and Quantitative Comparisons on Reconditioning by Welding of Crankshafts from Auto Industry*; ModTech 2015 The Third International Conference on Modern Manufacturing Technologies in Industrial Engineering; June 17-20, IOP Conf. Series: Materials Science and Engineering 95 (2015), **WOS:000365128900003**;
9. C. Babiș, **O. Chivu**, D. Dobrotă, *Finite element type of stress analysis for parts based on S235 JR steel welding*, Metalurgija, vol. 53, no.2, pp.251-253, 2014; IF=0.958, **WOS000326142100028**
10. A. Semenescu, G. Amza, **O.R. Chivu**, A. Dimitrescu, Z. Apostolescu, *Contributions to the environmental impact of coating processes for reconditioning by welding*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Section Name. 19. Air Pollution and Climate Change pag.315-322, ISSN 1314-2704, DOI: 10.5593/SGEM_GeoConference, ISBN:978-619-7105-64-3, ISSN: 1314-2704, **WOS:000391348700041**

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. Babis, 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 in inginerie si 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. Babiş, **O. Chivu** - *Comportarea la Oboseală a Structurilor Sodate- Noțiuni Teoretice - Calculul și Mecanica Ruperii- vol I*, Ed. PRINTECH, București 2013, ISBN 978-606-23-0051-7, 129 pag.
- Cb5.** C. Babiş, **O. Chivu** - *Comportarea la Oboseală a Structurilor Sodate- Cercetări Experimentale – Deformații și Curbe de Durabilitate -vol II*, Ed. PRINTECH, București 2013, ISBN 978-606-23-00630, 172 pag.
- Cb6.** C. Babiş, 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. Babis, G. Solomon, G. Iacobescu, **O. Chivu**, *Analiza Avariilor*, Editura PRINTECH 2017, ISBN 978-606-23-0740-0, CNCSIS Cod 54, 319 pag;
- Cb8.** C. Babiş, G. Iacobescu, **O. Chivu**, Z. Apostolescu, D. Nițoi- *Elemente de securitate și sănătatea muncii în domeniul mecanic prelucrări prin aşchiere*, 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 tipografia locale/de instituții sau de uz intern).

- I1.** **O. Chivu**, C. Babiş, D. Dobrotă– *Noțiuni Generale de Teoria Aşchierii, Îndrumar laborator*, Editura PRINTECH, București 2013, ISBN 978-606-23-0060-9, 105 pag;
- I2.** **O. Chivu**, C. Babis, V. Aioniesie– *Elemente de Medicina Muncii, Îndrumar de Laborator*, Ed. PRINTECH, București 2013, ISBN 978-606-23-0061-6, 111 pag;
- I3.** C. Babiş, 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 în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță). *Se menționează la fiecare lucrare includerea în Baza ISI [Accession Number, WOS=..., ultimul Factor Impact, ISSN] și/sau denumirea altei (altor) BDI.*

- Ris1.** D.T. Cacic, 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**
- Ris2.** D.T. Cacic, 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**
- Ris3.** C. Rontescu, D.T. Cacic, 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**
- Ris4.** 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**
- Ris5.** 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**
- Ris6.** C. Rontescu; D.T. Cacic; 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**
- Ris7.** **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**
- Ris8.** 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**
- Ris9** 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**

- Ris10.** 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**
- Ris11** 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**
- Ris12** 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**
- Ris13.** 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**
- Ris14** 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**
- Ris15** **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**
- Ris16** 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**
- Ris17.** 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**
- Ris18.** **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**
- Ris19.** 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 Polutants on the Environment*, Source: REVISTA DE CHIMIE Volume: 67 Issue: 12 pp.2659-2661 Published: DEC **(2016)** ISSN: 0034-7752, **WOS:000393230400056**
- Ris20.** 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**
- Ris21** 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**
- Ris22.** 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**
- Ris23** 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**
- Ris24** 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**
- Ris25** 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**
- Ris26** 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**
- Ris27** 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**
- Ris28** 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**
- Ris29** 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**
- Ris30** 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**
- Ris31** **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**
- Ris32** **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**

- Ris33** 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**
- Ris34** C. Petriceanu, D. Dobrotă, C. Rontescu, D.T. Cicic, **O.R. Chivu**, O. Teodorescu, (2016), *Research Of The Ultrasonic Testing Parts Reconditioned By Welding*, Metalurgija, Vol.55, No. 3, pp. 465-468, ISSN 0543-5846, FI=0.959, **WOS:000372344500046**
- Ris35** D-T. Cicic, C. Rontescu, C. Gh. Amza, **O.R. Chivu**, G. Iacobescu, (2016), *Qualitative and Quantitative Comparisons Concerning the Influence of Jointing 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**
- Ris36** **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 **WOS:000372343600036**
- Ris37** **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**
- Ris38** 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**
- Ris39** 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**,
- Ris40** 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, IF=0.81 **WOS:000363359700009**
- Ris41** 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**,
- Ris42** 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 **WOS000326142100028**
- Ris43** **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**,
- Ris44** **O. Chivu (Virlan)**; 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
- Ris45** 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
- Ris46** C. Babiş, **O. Chivu**, D. Dobrotă, (2014), *Researches on the impact of welding on fatigue life*, U.P.B. Sci. Bull., Series D, Vol. 75, Iss. 4, pp. 185-196, INDEXATA: EBSCO, INDEX COPERNICUS, ULRICHS, SCIPPIO, GOOGLE SCHOLAR, SCOPUS
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- Ris49** **O.R. Chivu**, C. Babis, A. Dimitrescu, *The Determination And Appreciation Of Occupational Toxicity At Work*, Data publicării 2017/1, Jurnal FIABILITATE SI DURABILITATE, Volumul 1, Numărul 1, Pagini, 214-221, Editor, Editura "Academica Brancusi", Targu Jiu, ISSN 1844-640X , Indexate:, Copernicus, EBSCO, JurnalSeec, DOAJ, ULRICHS, SCIPPIO
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- Ris51** A. Dimitrescu, C. Babis, **O. Chivu**, *METHODS OF ANALYSIS OF VALUE OF USE*, Data publicării 2017/1, Jurnal FIABILITATE SI DURABILITATE, Volumul 1, Numărul 1, Pagini 228-234, Editor Editura "Academica Brancusi", TARGU JIU, ISSN 1844-640X , Indexate:, Copernicus, EBSCO, JurnalSeec, DOAJ, ULRICHS, SCIPPIO
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- Ris59** **O. Chivu**, C Babiș, (2013), *Contributions to the finite element modeling of rotary ultrasonic motors*, *Fiability and Durability*, Supliment no. 1/2013, pp. 109-115; Indexate:, Copernicus, EBSCO, JurnalSeec, DOAJ, ULRICHS, SCIPPIO
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- Ris61** **O.R. Chivu**, D. Dobrotă, G.Chirculescu, (2010), *Theoretical and experimental contributions concerning the proposed model for the disc-typed rotary ultrasonic motor*, *FiabilitatesiDurabilitate- Fiability& Durability*, No. 2(6), Editura "AcademicaBrâncuși", Târgu Jiu, ISSN 1844 – 640X; pp. 49-52 Indexate:, Copernicus, EBSCO, JurnalSeec, DOAJ, ULRICHS, SCIPPIO
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- Ris63** C. Petriceanu, C. Rontescu, D.T. Cicic, **O. R Chivu**, M.C. Dijmărescu, *Research on welding of plastic materials*, U.P.B. Sci. Bull., Series D, Vol. 78, Iss. 2, (2016) ISSN 1454-2358, pp 125-130

Rio – Alte reviste de specialitate de circulație internațională.

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 în alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selecție a

publicațiilor pe baza unor criterii de performanță. *Se mentioneaza la fiecare lucrare includerea în Baza ISI [ISI Proceedings, Accession Number, WOS=....., ISSN] si/sau denumirea altei (altor) BDI.*

- Vis1G.** Amza, D.F. Nițoi, V.D. Petrescu, **O.R. Chivu**, Z. Apostolescu *Contributions to risk injury evaluation of human skin contact caused by welding technology in mechanical engineering a company*, MATEC Web Conf. **Volume 121, (2017)**, 8th International Conference on Manufacturing Science and Education – MSE 2017 "Trends in New Industrial Revolution", **Article Number11002**
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- Vis3** C. Babis, A. Dimitrescu, G. Iacobescu, G. Solomon, **O. Chivu**, *The influence of the weld toe grinding and wig remelting weld toe rehabilitation techniques, on variable stresses, in case of cross fillet welds, reinforced with additional welding rows*, MATEC Web of Conferences 121, 03004 (2017) DOI: 10.1051/mateconf/20171210 MSE 2017 3004
- Vis4** A. Semenescu, G. Amza, **O.R. Chivu**, A. Dimitrescu, Z. Apostolescu, *Contributions to the environmental impact of a company engineering and technological equipment*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Section Name. 19. Air Pollution and Climate Change pag.307-314, ISSN 1314-2704, DOI: 10.5593/SGEM_Geo Conference, ISBN:978-619-7105-64-3, ISSN: 1314-2704, **WOS:000391348700040**
- Vis5** A. Semenescu, G. Amza, **O.R. Chivu**, A. Dimitrescu, Z. Apostolescu, *Contributions to the environmental impact of coating processes for reconditioning by welding*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Section Name. 19. Air Pollution and Climate Change pag.315-322, ISSN 1314-2704, DOI: 10.5593/SGEM_Geo Conference, ISBN:978-619-7105-64-3, ISSN: 1314-2704, **WOS:000391348700041**
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- Vis7** B. Claudiu, C. Amza, G. Amza, A. Zoia, Roxana, **O.R. CHIVU**, *The Influence Of Fillet Welds Wig Remelting On Durability Curves*, *Book Group Author(S): Sgem, Source: Nano, Bio And Green - Technologies For A Sustainable Future Conference Proceedings*, SGEM 2016, VOL I Book Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 353-360 Published: 2016 Accession Number: **WOS:000391648800046** Conference Title: 16th International Multidisciplinary Scientific Geoconference (SGEM 2016), Conference Date: JUN 30-JUL 06, 2016, Conference Location: Albena, BULGARIA ISSN: 1314-2704 ISBN:978-619-7105-68-1
- Vis8** C Babis, G. Amza, D. Nitoi, **O.R. CHIVU**, Z. Apostolescu, *Innovative Technology For Rehabilitation Of Welded Fillet Joints, In Order To Increase The Fatigue Lifetime*, *Book Group Author(S): Sgem, Source: Nano, Bio And Green - Technologies For A Sustainable Future Conference Proceedings*, SGEM 2016, VOL I Book Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 183-190 Published: 2016 Conference Title: 16th International Multidisciplinary Scientific Geoconference (SGEM 2016) Conference Date: JUN 30-JUL 06, 2016 Conference Location: Albena, BULGARIA ISSN: 1314-2704 ISBN: 978-619-7105-68-1, **WOS:000391648800024**
- Vis9** **O.R. Chivu**, C. Rontescu, D.T. Cicic, I.M. Vasile, C. Petriceanu, (2015), *Qualitative and Quantitative Comparisons on Reconditioning by Welding of Crankshafts from Auto Industry*; ModTech 2015 The Third International Conference on Modern

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Vis15 O. R. Chivu, C. Rontescu, D.T. Cicic, M.I. Vasile, Reconditioning of crankshaft in the automotive industry by using TIG welding. Structural integrity of welded structures - ISCS15, Advanced Materials Research Vol 1111 (2015), pp. 43-48, doi:10.4028/www.scientific.net/AMR.1111.43

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Vis17 C. Petriceanu, O.R. Chivu, (2015), Mathematical Modeling of Non-Destructive Testing for Layered Materials, Applied Mechanics and Materials, Vol. 760, pp. 651-656.

Vis18 O.R. Chivu, D. Dobrotă, C. Babiș, (2014), Finite element modelling of an ultrasonic rotary motor, Fiability and Durability, Supliment, No. 1, pp. 84-92;

Vis19 O. Chivu, (2014), Rebuilding auto pieces by welding in ultrasonic field, Fiability and Durability, Supliment, No. 1, pp. 76-83,

Vis20 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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Vis22 O. Chivu, C. Babiș, C. Tarbă, (2012), The fatigue life expectancy in case of welded and non welded structures– Academic Journal of Manufacturing Engineering Mar 2012, vol 10 Issue 1, pp. 30- 35

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Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

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Vn - Volumele unor manifestări științifice naționale.

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Vn2 O.R. Chivu, C. Petriceanu, C. Babiș, (2014), Hardness and dilution analysis to reconditioning by welding car parts, Annals of the „Constantin Brâncuși” University of Târgu-Jiu, Engineering Series, Issue 4/2014, pp. 106-111

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.

Vn4 O. R Chivu, Gh. Amza, D. Nițoi, C. Radu, V. Aioniesie, (2012). Professional Exposure At Noise Of 12th International Conference on Technology and Quality for Sustained Development – TQSD12 Bucharest, Romania, November, 5 – 6, ISSN 1844-9158, pp.33-38.

Vn5 I. Prisacariu, O. Chivu, (2012), Several Applications Of Ultrasonic Piezoelectric Motors. Future Directions Of Research, SISOM 2012, pp. 345-350,

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 the by 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. Ilescu**, (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.- CERERI

- B1.** Rontescu Corneliu , 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 invenție OSIM 20/5
- B2.** 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, Propunere Brevet de invenție OSIM
- B3.** 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 invenție OSIM
- B4.** Prisacariu Ilie, **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 invenție OSIM
<http://pub.osim.ro/publication-server/pdf-document?PN=RO129901%20RO%20129901&iDocId=6283&iepatch=.pdf>
- B5.** Demetrian Alin, Semenescu Augustin, **Chivu Oana Roxana**, Costoiu Mihnea, Demetrian Camelia, Mates Ileana, Dumitrescu Silviu, *ESO-TRAHEOSCOP*- A1000913, DIN 09-11.2017-Propunere Brevet de invenție OSIM

A - Inovații și alte creații.

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

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**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 competitive- **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 competitive Expert e-learning-COR-235905
- Pi3.** proiect 2016-1-RO01-KA202-024493 Circular Economy Digital Traning Toolbox to foxter 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 competitive, Expert e-learning-COR-235905
- Pi4.** 2016-1-RO01-KA202-024508 A Digital Trening 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 competitive, 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.** Vrtual & 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

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 cumediul socio-economic (învaloare 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 imbinările sudate de colt” CONTRACT DE CERCETARE ȘTIINTIFICA 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.

Conf.dr.ing. Oana Roxana CHIVU

