

LISTA DE LUCRĂRI

BALKAN IRINA VARVARA (Anton)

A) TEZA DE DOCTORAT

“CERCETĂRI PRIVIND CAPACITATEA INOCULANTĂ A CERIULUI ÎN FONTELE CENUȘII”

B) CĂRȚI ȘI CAPITOLE DIN CĂRȚI

1. I., Mărginean, B., Florea, **I. Anton**. *Criterii principale și relații de calcul pentru dimensionarea tehnologică a sectoarelor productive ale secțiilor de turnătorie*. Tratat de Știința și Ingineria Materialelor Metalice, Vol. 6, 1174pg, (pp 298-478), Ed. AGIR, Academia de Științe Tehnice din România, București, 2014, ISBN 978-973-720-533-9; ISBN 973-720-064-0.

C) ARTICOLE/STUDII *IN EXTENSO*, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

1. **I.V. Anton**, I. Riposan. *Structure Characteristics of Ce-Inoculated, Low Sulphur Grey Cast Irons*. 4TH INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND STRUCTURES - AMS '11, Timisoara, 27 - 28 October 2011; *Solid State Phenomena*, ISSN: 1012-0394, ISSN/ISO: Solid State Phenom., Vol. 188, 2012, pp. 318-323, **Accession Number: WOS:000308047400052** DOI: 10.4028/www.scientific.net/SSP.188.318, Trans Tech. Publications, Switzerland. **Recenzii/Indexari: ISI (ISTP, CPCI, Web of Science), Elsevier SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Institution of Electrical Engineers (IEE), Google Scholar, etc.**

2. M. Chisamera, I. Riposan, S. Stan, C. Militaru, **I. Anton**, M. Barstow. *Inoculated Slightly Hypereutectic Gray Cast Irons*. *Journal of Materials Engineering and Performances* [DOI: 10.1007/s11665-011-9907-2], On-line First, 30 March 2011; Vol.21, No.3, 2012, pp. 331-338, Accession Number: **WOS:000301798500006 ISSN 1059-9495, [ISI - Web of Science/Science Citation Index Expanded]**. **Recenzii/Indexari: SCOPUS.**

3. M. Chisamera, I. Riposan, S. Stan, **I. Anton**, M. Barstow. *Effects of Iron Powder Addition on the Solidification Behaviour of Hypereutectic Grey Cast Iron*. 9TH INTERNATIONAL SYMPOSIUM ON SCIENCE AND PROCESSING OF CAST IRON (SPCI-9), November 09-13, 2010, Luxor, Egypt. *Key Engineering Materials-KEM*, Vol 457 [Science and Processing of Cast Iron IX], (2011), pp. 90-95. **Accession Number: WOS: 000291962900015** Trans. Techn. Publications, Switzerland, Editor(s): Nofal A; Waly M, DOI: **10.4028/www.scientific.net/KEM.457.90**, ISSN 1013-9826, online available since 2010/Dec/30 at [http:// www.scientific.net/kem](http://www.scientific.net/kem) [ISSN 1662-9795]. **Indexari: ISI Proceedings; ISI-Materials Science Citation Index, SCOPUS; INSPEC; Compendex.**

4. **I.V. Anton**, C. Militaru, E.M. Stefan, N. Ivan, M. Chisamera, I. Riposan. *Wall Thickness-Solidification Features Correlation of Ductile Iron Castings under Mould Type Influence*. **UPB Sci. Bull., Series B**, Volume 71, No. 4, 2009, pp. 115-126. ISSN 1454-2331, **cotată B+, cod CNCIS 50. Indexari Revista - BDI: INSPEC; SCOPUS; CAMBRIDGE SCIENTIFIC**

ABSTRACTS, CHEMICAL ABSTRACTS, METAL ABSTRACTS, ENGINEERING VILLAGE, PUBLICATION IN ENGINEERING, COMPENDEX, METADEX.

5. Brandusa Ghiban, Constantin Madalin Guragata, Nicolae Serban, Anca Daniela Raiciu, **Irina Balkan** - *Hot working behaviour of inconel 718 superalloy*, **U.P.B. Sci. Bull., Series B**, Vol. 81, Iss. 4, 2019 ISSN 1454-2331, **cotată B+**, **cod CNC SIS 50. Indexari Revista - BDI: INSPEC; SCOPUS; CAMBRIDGE SCIENTIFIC ABSTRACTS, CHEMICAL ABSTRACTS, METAL ABSTRACTS, ENGINEERING VILLAGE, PUBLICATION IN ENGINEERING, COMPENDEX, METADEX.**

6. Brandusa Ghiban, Claudia Natra, Alexandru Cernea, Anca Daniela Raiciu, Ovidiu Odagiu, **Irina Balkan** - *Structural investigation concerning Al 3003Al 4xxx clad materials*, **U.P.B. Sci. Bull., Series B**, Vol. 81, Iss. 4, 2019 ISSN 1454-2331, **cotată B+**, **cod CNC SIS 50. Indexari Revista - BDI: INSPEC; SCOPUS; CAMBRIDGE SCIENTIFIC ABSTRACTS, CHEMICAL ABSTRACTS, METAL ABSTRACTS, ENGINEERING VILLAGE, PUBLICATION IN ENGINEERING, COMPENDEX, METADEX.**

7. **Balkan IV**, Riposan I*. *Ce-Bearing FeSi Alloy Inoculation of Electrically Melted, Low Sulphur Grey Cast Irons for Thin Wall Castings*. *Metals*. 2021; 11(7):1122. <https://doi.org/10.3390/met11071122>. (15 pages) Received: 8 June 2021 / Revised: 6 July 2021 / Accepted: 13 July 2021 / Published: 15 July 2021. (This article belongs to the Special Issue Optimizing Techniques and Understanding in Casting Processes). Accession Number WOS:000676462200001. *Corresponding Author. ISI Web of Science Core Collection Clarivate Analytics, SCOPUS

D) PUBLICAȚII IN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

1. **I.V. Anton**, I.Riposan. *Cooling rate dependence of structures characteristics in Ce-inoculated low-S grey irons*. THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, Nr. 4, 2011, pp. 58-63, ISSN 1453 – 083X, **CNC SIS Code: 215 [B+]. Recenzii/Indexari: CSA-Cambridge Scientific Abstracts.**

2. Cristina Militaru, **Irina Varvara Anton**, Eduard Stefan, Nicoleta Ivan. *Ductile Iron solidification under mould type and wall thickness influence*. WORLD TECHNICAL FORUM, INTERNATIONAL PHD FOUNDRY CONFERENCE, 3rd June 2009, Brno, Czech Republic.

3. Ioan Mărginean, **Irina Varvara Anton**, Crenguța Manuela Pârvulescu. *Vibration technique – an improvement solution for quality of cast metallic material*. INTERNATIONAL SYMPOSIUM ON ADVANCED ENGINEERING AND APPLIED MANAGEMENT – 40TH ANNIVERSARY IN HIGHER EDUCATION (1970-2010) 4 – 5 November, 2010, Hunedoara, Romania.

4. Cristina Militaru, **Irina Varvara Anton**, Nicoleta Ivan, Stelian Stan, Eduard Ștefan, Bogdan Albu, Mihai Chișamera, Iulian Ripoșan. *Graphite shape degeneration under the solidification conditions influence*. CONFERINȚA NAȚIONALĂ DE TURNATORIE ȘI EXPOZITIE, editia a 20-a, Brasov, 9 – 10 iunie 2010.

6. M. Chisamera, I. Riposan, S. Stan, C. Militaru, **I. Anton**, M. Barstow. *Structural Characteristics of Inoculated Slightly Hypereutectic Grey Cast irons*. 1ST INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING AND MANAGEMENT, ADEM 2010, Drobeta-Turnu Severin, May 19-21, 2010.

E) ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE

Proiecte internaționale

1. I.Ripoșan, M. Chișamera, S.Stan, P.Toboc, **I.V.Anton**. *RE Inoculants in Low Sulphur Grey Iron*. Contract International, Project ELKEM 52155, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.

2. I. Ripoșan, M. Chișamera, S.Stan, P.Toboc, **I.V.Anton**. *(Ca + Ba) Inoculants in Low Sulphur Grey Iron*. Contract International, Project ELKEM 52157, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.

3. I. Ripoșan, M. Chișamera, S.Stan, P.Toboc, **I.V.Anton**. *SiSiCAR80 Application in Cast Iron Industry*. Contract International, Nr.807, 2007, UPB/CEMS - Metalkraft AS, Norvegia.

4. I. Ripoșan, M. Chișamera, S.Stan, P.Toboc, **I.V.Anton**. *Representative Inoculants Comparison Low and Medium Sulphur Grey Irons*. Contract International, Project ELKEM 52155-52127/2008-1, 2008-2010, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.

5. *Understanding the phenomena/mechanisms occurring during thermomechanical processing of β -Ti alloys and their influence on crystallographic texture*, Contract no.PCE 213/25.02.2021, Centrul de Cercetare si Expertiza a Materialelor Speciale, Universitatea POLITEHNICA din Bucuresti.

6. *Demonstration model of an advanced processing technology for hybrid lightweight carbon nanotube reinforced aluminium composites with enhanced properties designed for aerospace applications*, Proiect UEFISCDI Ctr.492PED/2020, Centrul de Cercetare si Expertiza a Materialelor Speciale, Universitatea POLITEHNICA din Bucuresti.

Comunicări științifice nepublicate

1. **Irina Varvara Balkan (Anton)** - *Influența inoculării cu Ce asupra caracteristicilor structurale ale fontelor cenușii cu conținut scăzut de sulf* – WORKSHOP TEMATIC „Tendințe noi în procesarea materialelor metalice”, București, 10 Decembrie 2018.

2. **Irina Varvara BALKAN**, Nicolae ȘERBAN, Vasile Dănuț COJOCARU - *The influence of mechanical vibrations on microstructural characteristics of a subsequently forged aluminium alloy* – ROMAT 2018, 15 – 18th Nov., BUCHAREST, ROMANIA