

Nume Prenume: STAN Stelian

Gradul didactic: Profesor

Instituția unde este titular: Universitatea Națională de Știință și Tehnologie Politehnica București Facultatea:
Știința și Ingineria Materialelor

Departamentul: Procesarea Materialelor Metalice și Ingineria Mediului

L I S T A D E L U C R Ă R I

A. TEZA DE DOCTORAT

A.1. Studii și cercetări privind influența aluminiului rezidual asupra grafitizării fontelor cenușii, Universitatea POLITEHNICA din Bucuresti, 2014.

B. CARTI

B.1 – Carti publicate in strainatate

1. I. Riposan, **S. Stan**. History of Metallurgy. In: Banabic, D (eds) History of Romanian Technology and Industry. History of Mechanism and Machine Science, Vol. 44, Springer, Cham https://doi.org/10.1007/978-3-031-39393-8_4, 2024, ISBN 978-3-031-39392-1; Online ISBN 978-3-031-39393-8

B.2.a. Carti tiparite in edituri centrale

1. I. Riposan, I. Chira, M. Chisamera, L. Sofroni, **S. Stan**. FONTE. In: Tratat de Stiinta si Ingineria Materialelor Metalice, Vol. 3, ASTR-Academia de Stiinte Tehnice din Romania, Ed. AGIR, 2009, pp. 463-580.

2. M. Chisamera, I. Riposan, L. Sofroni, **S. Stan**. FABRICAREA PIESELOR DIN FONTA PRIN TURNARE. In: Tratat de Stiinta si Ingineria Materialelor Metalice, Vol. 4, ASTR-Academia de Stiinte Tehnice din Romania, Ed. AGIR, 2010, p. 534-717.

3. I. Riposan, **S. Stan**. CIVILIZAȚIA ROMÂNEASCĂ, Vol. 24 (ISTORIA TEHNICII SI A INDUSTRIEI ROMÂNEȘTI): Vol. I (Mecanica, Tehnicile de Prelucrare si Constructiile), Cap. 3 Istoria Metalurgiei, pp. 61-106, Editura Academiei Române [Coordonator Dorel BANABIC], Bucuresti, 2019, ISBN 978-973-27-3054-6.

4. **S. Stan**, „Notiuni privind controlul de calitate in ingineria procesarii materialelor metalice”, 2019, Editura PRINTECH, ISBN: 978-606-230-947-3 Cod CNCIS 54

C. CULEGERI SI INDRUMARE

C.b. Lucrari tiparite de tipografii locale

S. Stan, Indrumar „Tehnologia Elaborarii Fontelor”, Indrumar pentru proiect, 2015, UPB, ISBN 978-973-0-19689-4

D. ARTICOLE SI STUDII DE SPECIALITATE

I. Articole/Studii publicate in Reviste si Volumele (Proceedings) unor conferinte

I.1 Reviste si Proceedings cotate si indexate ISI

1.1.1 Reviste cotate ISI [Web of Science / Science Citation Index Expanded]

1. I. Riposan, M. Chisamera, S. Stan, T. Skaland. Graphite Nucleants (Microinclusions) Characterization in Ca/Sr Inoculated Grey Irons. *Int. Journal of Cast Metal Research*, Vol. 16, No. 1-3, pp.105-111, 2003. Accession Number: WOS:000186431800020, DOI: 10.1179/136404603225006756, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: ISI Proceedings, Current Contents Connect, SCOPUS, Chem Port Connection; Metals Abstracts CSA/METADEx 2004-51-0359.
2. I. Riposan, M. Chisamera, S. Stan. Factors influencing on the microstructure and mechanical properties of as-cast and heat treated 400-18 grade ductile cast iron. *Int. Journal of Cast Metals Research*, 2007, Vol. 20, No. 2, pp. 64-67. Accession Number: WOS:000250924600006, DOI: 10.1179/136404607X239717, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS; INSPEC.
3. I. Riposan, M. Chisamera, S. Stan, D. White. Chilling properties of Ba/Ca/Sr inoculated grey cast irons. *Int. Journal of Cast Metals Research*, 2007, Vol. 20, No.2, pp. 90-97. Accession Number: WOS:000250924600010, DOI: 10.1179/136404607X239726, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS; INSPEC.
4. I. Riposan, M. Chisamera, S. Stan. Influencing factors on as-cast and heat treated 400-18 grade characteristics. *CHINA FOUNDRY*, ISSN 1672-6421 [ISI-Web of Science/Science Citation Index Expanded], Vol. 4, no. 4, pp. 300-303, 2007. Accession Number: WOS:000255392200010, Recenzii/Indexari: SCOPUS
9. M. Chisamera, I. Riposan, S. Stan. Morphological Characterization of SiC and Al₂O₃ for Particulate Cast Metal Matrix Composites. *Revista Romana de Materiale - Romanian Journal of Materials*, 2008, 38, (3), pp. 237-243, Accession Number: WOS:000259098100008, ISSN 1583-3186 [ISI-Web of Science /Science Citation Index Expanded].
5. I. Riposan, M. Chisamera, S. Stan. SiC-Cast Iron Matrix Composite, a New Material for Wear Applications. *Revista Romana de Materiale / Romanian Journal of Materials*, 2008, 38, (2), pp. 116-122, Accession Number: WOS:000256898000005, ISSN 1583-3186, [ISI-Web of Science /Science Citation Index Expanded].
6. I. Riposan, M. Chisamera, S. Stan, P. Toboc, C. Ecob, D. White. Al,Zr-FeSi Preconditioning of Grey Cast Irons. *Materials Science and Technology*, 2008, Vol. 24, No. 5, pp. 578-584, Accession Number: WOS:000257140000010, DOI: 10.1179/174328408X298842, ISSN 0267-0836, [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS; Compendex; INSPEC.
7. M. Chisamera, I. Riposan, S. Stan, D. White, G. Grasmö. Graphite Nucleation Control in Grey Cast Iron. *International Journal of Cast Metals Research*, December 2008, Vol. 21, No 1-4, pp. 39-44. Accession Number: WOS:000261010000009, DOI: 10.1179/136404608X361639, ISSN 1364-0461, [ISI-Web of Science/Science Citation Index Expanded]. The 10th Asian Foundry Congress (AFC-10), Nagoya, Japan, May 2008, pp.180-185. Recenzii/Indexari: SCOPUS,
8. I. Riposan, M. Chisamera, S. Stan, C. Ecob, D. Wilkinson. Role of Al, Ti, Zr in Grey Iron Preconditioning/Inoculation. *Journal of Materials Engineering and Performances*, Vol. 18 (1), February 2009, pp. 83-87. Accession Number: WOS: 000263063400014, DOI: 10.1007/s11665-008-9260-2, ISSN 1059-9495, [ISI - Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS
9. S. Stan, M. Chisamera, I. Riposan. Solidification Pattern of Hypoeutectic Grey Irons in Wedge Test Samples. *Metalurgia International*, Vol. XIV, 2009, Special Issue No. 2, pp. 27-30, Accession Number: WOS:000265001400006, ISSN 1582-2214 [ISI-Web of Science/Science Citation Index Expanded]. BRAMAT 2009, Int. Conference on Mat. Science & Eng., Febr. 26-28, 2009, Brasov, Romania. Recenzii/Indexari: SCOPUS
10. M. Chisamera, I. Riposan, S. Stan, D. White. Influence of residual aluminium on solidification pattern of ductile iron. *International Journal of Cast Metals Research*, Vol. 22, No. 6, 2009, pp. 401-410. Accession Number: WOS: 000271254100001, DOI: 10.1179/174313309X436619, ISSN 1364-0461, [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS
11. M. Chisamera, I. Riposan, S. Stan, E. Stefan, G. Costache. Thermal analysis control of in-mould and ladle inoculated grey cast irons. *CHINA FOUNDRY*, Vol. 6, No. 2, pp. 145-151, 2009. Accession Number: WOS:000266666800010, ISSN 1672-6421 [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS
12. I. Riposan, M. Chisamera, S. Stan, D. White. Complex (Mn,X)S compounds - major sites for graphite nucleation in grey cast iron. *CHINA FOUNDRY*, Vol. 6, No. 4, 2009, pp. 352-357. Accession Number: WOS:000272457700011, ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded].

13. I. Riposan, M. Chisamera, S. Stan. Performance of heavy ductile iron castings for windmills. CHINA FOUNDRY, Vol. 7, No. 2, 2010, pp. 163-170. Accession Number: WOS:000278107700012; ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS
14. I. Riposan, M. Chisamera, S. Stan, C. Hartung, D. White. Three-Stage Model for the Nucleation of Graphite in Grey Cast Iron. Proceedings of the Carl Loper Cast Iron Symposium, May 27-29, 2009, Madison, Wisconsin, USA, pp. 191-200; Materials Science and Technology, Vol. 26, No. 12, pp. 1439-1447, 2010 Accession Number: WOS:000284688000005, [published online July 28, 2010, DOI: 10.1179/026708309X12495548508626] ISSN 0267-0836, [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS; Compendex; INSPEC
15. I. Riposan, M. Chisamera, S. Stan, P.Toboc, G. Grasmø, D. White, C. Ecob, C. Hartung. Benefits of Residual Aluminum in Ductile Iron. Journal of Materials Engineering and Performances, Vol. 20 (1), 2011, pp. 57- 64, Accession Number: WOS:000286212500007, DOI: 10.1007/s11665-010-9640-2 ISSN 1059-9495, [published online April 16, 2010, JMEPEG_ASM International DOI: 10.1007/s11665-010-9640-2] [ISI - Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS
16. M. Chisamera, I. Riposan, S. Stan, P. Toboc, T. Skaland, D.White. Shrinkage Evaluation in Ductile Iron as Mold / Inoculant Type Influence. International Journal of Cast Metals Research, Vol. 24, No. 1, February 2011, pp. 28-36, Accession Number: WOS:000287299700005, DOI: 10.1179/136404610X12816241546618, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded].
17. M. Chisamera, S. Stan, I. Riposan, G. Grasmø, C. Hartung. Structure characteristics of Ba/Ca/Sr inoculated hypoeutectic grey cast irons. International Journal of Cast Metals Research, 2011, Vol. 24, No. 6, pp. 363-369. Accession Number: WOS:000296972600007, [Publication date: 2011-10-01; Accepted 15.03.2011; On-line first 05.10.2011], DOI 10.1179/1743133611Y.0000000011, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded].
18. 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
19. M. Chisamera, I. Riposan, S. Stan, M. Barstow. Structure Characteristics of Iron Powder Treated Slightly Hypereutectic Grey Irons. International Journal of Cast Metals Research, 2011, Vol. 24, No. 6, pp. 370-377. Accession Number: WOS:000296972600008, [Publication date: 2011-10-01; Accepted 14.03.2011; On-line first 05.10.2011], DOI 10.1179/1743133611Y.0000000010, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded].
20. I. Riposan, M. Chisamera, S. Stan, M. Barstow. Improving chill control in iron powder treated slightly hypereutectic grey cast irons. CHINA FOUNDRY, Vol. 8, No. 2, pp. 228-234, 2011. Accession Number: WOS:000291401200014, ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded].
21. S. Stan, M. Chisamera, I. Riposan, N. Ivan, M. Barstow. Iron Powder Treated Gray Irons - Critical Shape Characteristics for Graphite Nuclei. Journal of Materials Engineering and Performances, Corresponding Author [Accepted 08.11.2011]; DOI: 10.1007/s11665-011-0081-3; Online First: 02.12.2011; Volume 21, Issue 8 (2012), Page 1793-1799. Accession Number: WOS:000306549400028, ISSN 1059-9495 [ISI - Web of Science/Science Citation Index Expanded].
22. S. Stan, M. Chisamera, I. Riposan, M. Barstow. Applications of thermal analysis to monitor the quality of hypoeutectic cast irons during solidification in sand and metal moulds. Journal of Thermal Analysis and Calorimetry, Accepted 28.11.2011, On-line publication 20.12.2011, DOI: 10.1007/s10973-011-2128-y, Vol.110, No.3, Dec. 2012, pp.1185-1192, Accession Number: WOS:000311510500021, ISSN 1388-6150 [print version], 1572-8943 [electronic version]. [ISI-Web of Science/Science Citation Index Expanded].
23. I. Riposan, M. Chisamera, S. Stan. Control of Surface Graphite Degeneration in Ductile Iron for Windmill Applications. International Journal of Metalcasting, accepted 29.05.2012, Volume 7, Issue 1, Winter 2013, pp.9-20, ISSN 1939-5981 Accession Number: WOS:000314076400002 [ISI-Web of Science/Science Citation Index Expanded, Materials Science Citation Index, Current Contents/Engineering, Computing & Technology]. Recenzii/Indexari: Chemical Abstracts, ProQuest/CSA Cambridge Scientific [Aerospace and High Technology Database, CSA / ASCE Civil Engineering Abstracts, CSA Engineering Research Database, CSA High Technology Research Database with Aerospace, Mechanical and Transportation Engineering Abstracts], EBSCO [Academic Search Premier, Elsevier Bibliographic Database], SCOPUS.
24. I. Riposan, M. Chisamera, S. Stan, M. Barstow. Identifying chill tendency of cast iron melts by thermal analysis. International Journal of Cast Metals Research, accepted 21.11.2012, online 31 January 2013, VOL 26, NO 3, pp.152-159, 2013. DOI: 10.1179/1743133612Y.0000000048, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded]. Accession Number: WOS:000318683000005

25. I. Riposan, M. Chisamera, S. Stan, Enhanced quality in electric melt grey cast irons, *ISIJ International*, Vol. 53, 2013, No. 10, pp. 1683–1695, Accession Number: WOS: 000326210900001, DOI: <http://dx.doi.org/10.2355/isijinternational.53.1683>, ONLINE ISSN: 1347-5460 PRINT ISSN: 0915-1559, [ISI-Web of Science/Science Citation Index Expanded]. Recenzii/Indexari: SCOPUS; Compindex; INSPEC
26. I. Riposan, M. Chisamera, V. Uta, S. Stan, R. Naro and D. Williams, The Importance of Rare Earth Contribution from Nodulizing Alloys and Their Subsequent Effect on the Inoculation of Ductile Iron, *International Journal of Metalcasting*, Volume 8, Issue 2, 2014, pp.65-80; Accession Number: WOS:000335609500008; Document Type: Article; [ISI-Web of Science/Science Citation Index Expanded, Materials Science Citation Index, Current Contents/Engineering, Computing & Technology]. Recenzii/Indexari: Chemical Abstracts, ProQuest/CSA Cambridge Scientific [Aerospace and High Technology Database, CSA / ASCE Civil Engineering Abstracts, CSA Engineering Research Database, CSA High Technology Research Database with Aerospace, Mechanical and Transportation Engineering Abstracts], EBSCO [Academic Search Premier, Elsevier Bibliographic Database], SCOPUS.
27. I. Riposan, M. Chisamera, S. Stan, New Developments in High Quality Grey Cast Irons, *CHINA FOUNDRY*, Vol. 11, No. 4, 2014, pp. 351 - 364. Accession Number: WOS:000341768500015, ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded].
28. M. Chisamera, N. Ivan, I. Riposan, S. Stan. Iron casting skin management in no-bake mould – Effects of magnesium residual level and mould coating. *CHINA FOUNDRY*, 2015, Vol. 12 (3), pp. 222 - 230. Accession Number: WOS: 000360204000010; ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded]
29. I. Riposan, V. Uta, S. Stan*, Inoculant Enhancer to Increase the Potency of Ca-FeSi Alloy in Ductile Cast Iron, *Metallurgical Research & Technology*, Volume: 114, Issue: 4, Article Number: 416, 9 pagini, DOI: 10.1051/metal/2017041, Published: 2017, Accession Number: WOS:000408697600016; ISSN: 2271-3646; eISSN: 2271-3654 [METALL RES TECHNOL, 114 (4): 416-416 2017] Impact Factor la publicare / indexare 0.414, 5 year – 0.437 [Q4]
30. I. Riposan, S. Stan*, V. Uta, I. Stefan. Cast Iron Inoculation Enhanced by Supplementary Oxy-sulphides Forming Elements. *Journal of Materials Engineering and Performances*. Volume: 26, Issue: 9, Pages: 4217-4226, 2017, Publisher Name Springer US; Print ISSN 1059-9495; Online ISSN 1544-1024; Published Online: 30 August 2017, DOI: 10.1007/s11665-017-2869-2; Accession Number: WOS:000411202500007, Impact Factor la publicare
31. I. Riposan, M. Chisamera, S. Stan^(*). Application of cooling curve analysis in solidification pattern and structure control of grey cast irons. *Journal of Thermal Analysis and Calorimetry*, 2018, DOI 10.1007/s10973-018-7023-3. Accepted: 17 January 2018. *Corresponding Author. First Online: 25 January 2018 [Riposan, I., Chisamera, M. & Stan, S. *J Therm Anal Calorim* (2018). <https://doi.org/10.1007/s10973-018-7023-3>] Print ISSN1388-6150; Online ISSN1588-2926 May 2018, Volume 132, Issue 2, pp 1017–1028; Impact Factor la publicare / indexare 1,953 [2016], 5 year-1.69; Q2 - THERMODYNAMICS si CHEMISTRY, ANALITICAL; Accession Number: WOS : 000428957300020
32. S. Stan, M. Chisamera, I. Riposan*, L. Neacsu, A.M Cojocaru, I.Stan. Integrated System of Thermal/Dimensional Analysis for Quality Control of Metallic Melt and Ductile Iron Casting Solidification. *Journal of Materials Engineering and Performances*, 2018, Vol. 27, Issue 10, pp. 5187-5196, <https://doi.org/10.1007/s11665-018-3303-0>. *Corresponding Author. First Online: 29 March 2018; Print ISSN1059-9495; Online ISSN1544-1024 [This article is an invited submission to JMEP selected from presentations at the Symposium “Solidification, Casting, Foundry and Liquid Metal Processing,” belonging to the Topic “Joining” at the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017), held on September 17–22, 2017, in Thessaloniki, Greece, and has been expanded from the original presentation]. Document Type: Article; Proceedings Paper; Accession Number: WOS:000450714400026,
33. S. Stan, M. Chisamera, I. Riposan*, E. Stefan, L. Neacsu, A. M. Cojocaru, I. Stan, Integrated System of Thermal / Dimensional Analysis for Quality Control of Gray and Ductile Iron Castings Solidification, *International Journal of Metalcasting [Inter Metalcast]*. DOI: <https://doi.org/10.1007/s40962-018-0285-5>, First Online 29 November 2018, Publisher Name: Springer International Publishing, Print ISSN1939-5981, Online ISSN2163-3193; 2019, Volume 13, Issue 3, pp. 653-665. *Corresponding Author Accession Number: WOS:000471614400020. IF=1.347(2019, publicat June 2020)-la publicare
34. S. Stan, I. Riposan*, M. Chisamera, I. Stan, Solidification characteristics of silicon alloyed ductile cast irons. *Journal of Materials Engineering and Performances*, 2019, Vol. 28 (1), pp.278 - 286, First Online: 18 December 2018; Publisher Name Springer US; Print ISSN 1059-9495; Online ISSN 1544-1024; *Corresponding Author; Cite this article as: Stan, S., Riposan, I., Chisamera, M. et al. *J. of Materi Eng and Perform* (2018). <https://doi.org/10.1007/s11665-018-3828-2> [This article is an invited submission to JMEP selected from presentations at the 73rd World Foundry Congress and has been expanded from the original presentation. 73WFC was held in Krakow, Poland, September 23-27, 2018, and was organized by the World Foundry Organization and Polish Foundrymen's Association]. Published: JAN 2019; Document Type: Article; Accession Number: WOS: 000455266500027;
35. S. Stan, M. Chisamera, I. Riposan*, E. Stefan, L. Neacsu, A. M. Cojocaru, I. Stan. Simultaneous thermal and contraction / expansion analyses of cast iron solidification process. *Journal of Thermal Analysis and Calorimetry*, 2019. Vol. 138, Issue 4, pp.

2529-2540. DOI: 10.1007/s10973-019-08595-w; Published online: 29 July 2019. *Corresponding Author; Accession Number: WOS:000499703500016; ISSN: 1388-6150 ; eISSN: 1588-2926.

36. E. Stefan, I. Riposan*, M. Chisamera. Application of Thermal Analysis in Solidification Pattern Control of La-Inoculated Grey Cast Irons. *Journal of Thermal Analysis and Calorimetry*, 2019, Volume 138, Issue 4, pp. 2491-2503. DOI: 10.1007/s10973-019-08714-7 *Corresponding Author; Received 20 September 2018; Accepted 16 August 2019; First Online 28 August 2019; Publisher Name Springer International Publishing; Print ISSN 1388-6150; Online ISSN 1588-2926; Accession Number: WOS:000499703500013.

37. D. Anca, M. Chisamera, S. Stan, I. Riposan. Graphite degeneration in the superficial layer of high Si-ductile iron casting as influence of inoculation and protective coating against sulphur diffusion into the iron melt. *Journal of Materials Research and Technology*. [J. Mater. Res. Technol]. Received at Editorial Office 10 Aug 2019; Article revised 22 August 2019; Article accepted for publication 23 Aug 2019. Available On-line 13 September 2019. DOI: <https://doi.org/10.1016/j.jmrt.2019.08.039>; 2019, Vol. 8, Issue 6, pp. 5160-5170. Accession Number: WOS:000501576400011.

38. A.M. Cojocaru, I. Riposan, S. Stan. Solidification influence in the control of inoculation effects in ductile cast irons by Thermal Analysis. *Journal of Thermal Analysis and Calorimetry*, Nov. 2019, Vol. 138, Issue 3, pp. 2131-2143, DOI: 10.1007/s10973-019-08808-2; Received 12 June 2019; Accepted: 4 September 2019; Published online: 16 September 2019; 13 pages; ISSN 1388-6150, eISSN: 1588-2926 ;

39. D. Anca, M. Chisamera, S. Stan, I. Riposan*, Graphite degeneration in high Si, Mg-treated iron castings – sulfur and oxygen addition effects, 2019, *International Journal of Metalcasting*, DOI: 10.1007/s40962-019-00385-2, ISSN 1939-5981, Published on-line: 18 November 2019; Volume 14, Issue 3, pp. 663-671, 2020. *Corresponding Author. IF=1.805 (2020, published July 2021). Accession Number: WOS:000543460800006

40. I. Riposan, S. Stan, M. Chisamera, L. Neacsu, A.M. Cojocaru, E. Stefan, I. Stan. Simultaneous thermal and contraction / expansion curves analysis for solidification control of cast irons. *China Foundry*, Vol.17 No.2 March 2020, pp. 96-110. DOI: 10.1007/s41230-020-9147-x, Published: MAR 2020, Document Type:Review, Accession Number: WOS:000529360400003. IF=1.202/2020 (JCR 2020, published July 2021)

41. D. Anca, M. Chisamera, S. Stan, I. Stan, I. Riposan. Sulfur and Oxygen Effects on High-Si Ductile Iron Casting Skin Formation. *Coatings* 2020, 10(7), 618 (16 pages); <https://doi.org/10.3390/coatings10070618> (registering DOI). Received: 27 May 2020 / Revised: 23 June 2020 / Accepted: 27 June 2020 / Published: 29 June 2020. Accession Number: WOS:000557659100001

42. D. Anca, I. Stan, M. Chisamera, I. Riposan, S. Stan. Control of the Mg-Treated Iron Casting Skin Formation by S-Diffusion Blocking at the Metal–Mould Interface. *Coatings* 2020, 10, 680 (16 pages); <https://doi.org/10.3390/coatings10070680>. Received: 1 July 2020; Accepted: 12 July 2020; Published: 15 July 2020. Impact Factor: 2.881 (2020); 5-year Impact Factor: 3.038 (2020); (Q2 in SJR) in 'Materials Science: Coatings and Films and PHYSICS, APPLIED - SCIE. JCR, published July 2021. Accession Number: WOS:WOS: 000556367100001

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44. I. Riposan, E. Stefan, S. Stan, N. R. Pana, M. Chisamera. Effects of Inoculation on Structure Characteristics of High Silicon Ductile Cast Irons in Thin Wall Castings. *Metals* 2020, Volume 10, Issue 8, Article Number 1091, Published AUG 2020 (15 pages); <https://doi.org/10.3390/met10081091> (registering DOI) - 12 Aug 2020. Received: 23 June 2020 / Revised: 6 August 2020 / Accepted: 9 August 2020 / (This article belongs to the Special Issue Thin Wall Iron Castings). Accession Number: WOS: 000567267200001

45. E. Stefan, I. Riposan*, M. Chisamera, I. Stan. Lanthanum Role in the Graphite Formation in Gray Cast Irons. *Minerals*, 2020, Vol. 10, Issue 12, Article Number: 1146 (16 pages), DOI: 10.3390/min10121146, Published: DEC 2020, Document Type: Article.* Corresponding Address: Riposan, I. Accession Number: WOS: 000602431100001. Web of Science Core Collection. Science Citation Index Expanded

46. Stan, I.; Anca, D.; Stan, S.; Riposan, I. Solidification Pattern of Si-Alloyed, Inoculated Ductile Cast Irons, Evaluated by Thermal Analysis. *Metals* 2021, 11(5), 846. <https://doi.org/10.3390/met11050846>. Received: 20 April 2021 Accepted: 14 May 2021 Published: 20 May 2021. [Special Issues „Recent Advances in Cast Irons”]. ISI Web of Science Core Collection Clarivate Analytics, SCOPUS

47. D. Anca, I. Stan, M. Chisamera, I. Riposan, S. Stan. Experimental Study Regarding the Possibility of Blocking the Diffusion of Sulfur at Casting-Mold Interface in Ductile Iron Castings. *Coatings* 2021, 11(6), 673; <https://doi.org/10.3390/coatings11060673>
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28. Eduard Ionuț BĂHNĂREANU, Iuliana STAN, Constantin Stelian STAN, Cercetări privind prelucrarea avansată a probelor metalografice din fontă, WORKSHOP TEMATIC, Tendințe Noi în Procesarea Materialelor Metalice” – EDIȚIA a V-a, București, 14 Iunie 2024
29. Cristian ANDREI, Iuliana STAN, Constantin Stelian STAN, Impactul tipului de material asupra caracteristicilor aripilor de avion, WORKSHOP TEMATIC, Tendințe Noi în Procesarea Materialelor Metalice” – EDIȚIA a V-a, București, 14 Iunie 2024
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F. CONTRACTE CERCETARE

F.1. Contracte de cercetare la care a existat calitatea de director/responsabil

1. “Sistem Integrat de Analiză termică / Dimensională (ISTAQ) destinat controlului topiturilor metalice și solidificării pieselor turnate” (cod PN-III-P2-2.1-PED-2016-1793, acronim ISTAQ), UPB-CEMS-UEFISCDI, 18 luni, <https://proiect115ped-ro.webnode.ro/> Director
2. Cercetări privind realizarea prin turnare a materialelor compozite cu matrice metalică particulate cu adaosuri ceramice de fabricație indigenă. Contract nr. 58-92-14/1992. UPB-Min. Invat. și Științei, 1992 -1994, 3 ani, Director
3. Recuperarea elementelor utile din materialele compozite cu matrice metalică, Contract 619/96- 831/1997, Tema B3; 591/98/I, Tema A5; 273/99/II, Tema A2, MCT/ANSTI – UPB-CEMS, 1997-1999, 3 ani, Director
4. Cercetări privind obținerea materialelor compozite cu matrice metalică și posibilități de reciclare a acestora, Contract 619/96-273/99/II, Tema B4; 130/I/2000, Tema A4; MCT/ANSTI – UPB-CEMS, 1999 - 2000, 2 ani, Director
5. Cercetări privind recuperarea și re folosirea zgurelor de la prelucrare a cuprului la obținerea de amestecuri folosite la sudarea aluminotermică a cuprului. Contract 619/96, Tema B3; 460/I/1997, Tema A3; 591/98/I, Tema A1, MCT/ANSTI – UPB-CEMS, 1996 - 1998, 3 ani, Director
6. Cercetări privind recuperarea și re folosirea spanului din aliaje feroase la modificarea siliciere a fontelor; Contract 619/96, Tema B5; 460/1997, Tema A5; MCT/ANSTI – UPB-CEMS, 1996 – 1997, 2 ani, Director
7. Analize structuri de solidificare – Contract colaborare nr.308/2007 la contractul AMCSIT CEEX300/2006, UPB-CCSAE- UPB-CEMS, 2007, Responsabil

F.2. Contracte de cercetare la care a existat calitatea de membru

I. Contracte internaționale

1. I. Riposan, M. Chisamera, S. Stan. Graphite Nucleation in Grey Cast Irons. Contract international, 1998-1999, UPB/CEMS-ELKEM ASA Research, Norvegia.
2. I. Riposan, M. Chisamera, S. Stan. Grey Iron Inoculation Mechanisms. Contract international, 2000, UPB/CEMS-ELKEM ASA Research, Norvegia.
3. I. Riposan, M. Chisamera, S. Stan. Shrinkage Evaluation in Ductile Iron. Contract international, 2001-2002, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
4. I. Riposan, M. Chisamera, S. Stan. Effects of Al, Zr, and Ti in the nucleation process for grey iron. Contract international Nr. 1, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
5. I. Riposan, M. Chisamera, S. Stan. Principal nucleation sites for ductile iron. Contract international Nr. 2, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
6. I. Riposan, M. Chisamera, S. Stan. Principal differences in microparticles for Mg vs. MgFeSi treated ductile irons. Contract international Nr. 3, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
7. I. Riposan, M. Chisamera, S. Stan. Investigation of the optimum Al-content in grey iron as graphitizing influence. Contract international Nr. 1, 2004, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
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9. I. Riposan, M. Chisamera, S. Stan. Effects of Ba in comparison to Ca and Sr in grey iron. Contract international Nr. 3, 2004, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
10. I. Riposan, M. Chisamera, S. Stan, P. Toboc. Role of Aluminium in ductile iron. Contract international Nr. 1, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
11. I. Riposan, M. Chisamera, S. Stan, P. Toboc. Effects of rare earth's in nucleation of (low sulphur) grey iron. Contract international Nr. 2, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
12. I. Riposan, M. Chisamera, S. Stan, P. Toboc. Calcium-Barium interactions in inoculants. Contract international Nr. 3, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
13. I. Riposan, M. Chisamera, S. Stan, P. Toboc. RE Inoculants in Low Sulphur Grey Iron. Contract international, Project ELKEM 52155, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
14. I. Riposan, M. Chisamera, S. Stan, P. Toboc. (Ca + Ba) Inoculants in Low Sulphur Grey Iron. Contract international, Project ELKEM 52157, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
15. I. Riposan, M. Chisamera, S. Stan, P. Toboc. SiSiCAR80 Application in Cast Iron Industry. Contract international Nr. 807, 2007, UPB/CEMS-Metalkraft AS, Norvegia.
16. I. Riposan, M. Chisamera, S. Stan, P. Toboc. Representative Inoculants Comparison in Low and Medium Sulphur Grey Irons. Contract international, Project ELKEM 52155-52157/2008-1, 2008-2010, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.

II. Contracte Nationale

1. Cercetari privind realizarea printr-un turnare a materialelor compozite cu matrice metalica particulare cu adaosuri ceramice de fabricatie indigena. Contract nr. 58-92-14/1992. IPB-Min. Invat. si Stiintei, 1992 -1994
2. Fonte bainitice (ausferitice) aliate economic sub influenta morfologiei grafitului si in conditiile de ridicari a nivelului de prelucrabilitate, 511B – A4; 719/1996, 1995-1996 UPB – CNCSU) cod CNCSU: 630/1995, cod CNCSU: 1120/1996
3. Materiale compozite cu matrice feroasa procesate printr-un turnare, Grant UPB - CNCSU, 5001/96, A 71, 1995 - 1996, cod CNCSU: 628/1995; 1121/1996
4. Cercetari privind recuperarea si valorificarea in turnatoriile de fonta a deseurilor pulverulente rezultate din concasarea ferolialajelor si modificatorilor pe baza de siliciu. Contract UPB-MI/CNRM, 58-94-10; 258-12-60/B2, 518B-TA4, 1994-1996.

5. Cercetari privind recuperarea elementelor de aliere din zgura la elaborarea fontelor in cuptoare cu inductie. Contract UPB-MCT, 511/B7/1995-1997.
6. Cercetari pentru obtinerea unui agent desulfurant pe baza de carbura de calciu si a tehnicilor de desulfurare performante pentru turnatoriile de fonta. Proiect RELANSIN 749/4728/4728/2000; 2000-2002
7. Cercetari privind defosforarea in afara agregatului de elaborare in vederea extinderii recuperarii deșeurilor feroase pentru producerea fontelor. Contract UPB-MCT, 511B-B5; 619/1995; 1995-1997
8. Cercetari privind recuperarea si valorificarea eficienta in turnatorii a deșeurilor maruntes rezultate de la prelucrarea alamei. Contract 619B/96; 831/97; 591/98/I, Tema A1, B1, UPB-MCT/CNRM , 1996-1999
9. Strategii metalurgice mondiale in reciclarea automobilelor. Contract 619/96, Aditonal 273/99/II, Tema B2, 1999-2001, UPB-MI/CNRM
10. Cercetari privind recuperarea si valorificarea deșeurilor de aliaje feroase cu grad ridicat de impurificare. Contract UPB-Mi/CNRM, 619B/96, 1996.
11. N-II-IN-CI-2012-1-0067, Optimizarea procesului de prelevare a probelor de fonta in vederea analizei spectrale, SC SPECTRO SERVICE ROMANIA SRL / UPB-CEMS
12. Influenta conditiilor de elaborare asupra caracteristicilor fizico-mecanice ale fontelor speciale cu diferite forme de grafit (Fonta speciala de inalta performanta). Contract nr. 58-91-8A/1992, IPB-Min. Inv. si Stiintei, 1992-1994
13. Fonta cu grafit coral. Contract B37-629, Min. Inv.-CNCSU, 1995 – 1996, cod CNCSU 629
14. CERCETARI PRIVIND OBTINEREA FONTELOR CU GRAFIT NODULAR DE INALTA PLASTICITATE SI TENACITATE PENTRU DESTINATII SPECIALE, Grant UPB-CNCSU: 7001-27; cod CNCSU: 1090/1997, cod CNCSU: 239/1998; cod CNCSU: 571/1999
15. Studii si cercetari privind retopirea ultrarapida in strat superficial a pieselor turnate din fonta. Contract UPB-Min. Inv., 58-93-20, 1993-1995.
16. Cercetari privind demanganizarea fontelor in vederea largirii bazei de fier vechi posibil de utilizat la producerea fontelor cu grafit nodular. Contract UPB-MI/CNRM, 258-12-60/5; 58-94-9; 511B-A3, 1994-1996
17. Valorificarea superioara a deșeurilor de tabla de otel cositorita la producerea fontelor de inalta rezistenta. Contract 619/96, Aditonal 273/99/II, Tema B1, 1999 – 2001, UPB- MCT/CNRM
18. Cercetari privind recuperarea si re folosirea spanului din aliaje feroase la modificarea si aliere a fontelor. UPB- MI/CNRM, A1-619/1996, 1997-1999
19. Valorificarea superioara a deșeurilor de aluminiu pentru realizarea pulberilor necesare sudurilor aluminotermice. Contract 619/96, 273/99/II, Tema B3, MCT-UPB, 1999 - 2001.
20. Valorificarea superioara a deșeurilor de materiale carbonice indigene la elaborarea fontelor de calitate. Proiect RELANSIN, 1436/2001, 2001-2003.
21. STUDII SI CERCETĂRI PRIVIND SPECIFICUL SOLIDIFICĂRII FONTELOR CU GRAFIT NODULAR ALIATE CU SI/SI-MO, GNAC ARUT 2023, Contract 153/04.12.2023, ID: 520235554