

List de lucr ri

1. Lucr ri relevante pentru realiz rile profesionale proprii

1. **Socalici A.**, Popa E., Hepu T., Vilceanu L., Contributions *related to the control of steel ingot solidification*, International Conference on Applied Sciences, ICAS 22-25 october 2013, Wuhan, PEOPLES R CHINA, IOP Conference Series-Materials Science and Engineering, Volume 57, 012004, 2014, **ISI Proceedings**
2. **Socalici A.**, Popa E., Hepu T., Puțan V., *Contributions to steel semi-finished parts quality improvements*, International Conference on Applied Sciences, ICAS 22-25 october 2013, Wuhan, PEOPLES R CHINA, IOP Conference Series-Materials Science and Engineering, Volume 57, 012003, 2014, **ISI Proceedings**
3. Andronache, C; **Socalici, A**; Hepu, T, *The influence of micro coolers on the physical-mechanical characteristics of the steels used in making railway monoblock wheels*, Technical Gazette, 20(3), 2013, pp.419-424, **ISI Journal, FI 0,615**
4. **Socalici A.**, Popa E., Hepu T., Dr goi F., *Research regarding the Improvement of the Steel Quality*, 5th International Conference on Advanced Materials and Structures (AMS 2013) Timisoara, Advanced Materials and Structures IV, Solid State Phenomena, Volume 216, pp. 273-278, **ISI Proceeding**
5. Dragoi, F; **Socalici, A**; Ardelean, E; Popa, E; Hepu, T, *Researches on the influence of the slags formed in the installations on the hydrogen removal efficiency*, Revista de Metalurgia, 47(6), 2011, pp.477-484, **ISI Journal, FI 0,202**
6. **Socalici A.**, Hepu Teodor., Ardelean E., Ardelean M., *Researches regarding the recovery of small and powder ferrous wastes within iron-and-steel industry*, 6th IASME / WSEAS International Conference on Energy & Environment Cambridge, United Kingdom, 25 february 2011, pp.282-287, **SCOPUS**
7. Ardelean E., Ardelean M., Hepu T., **Socalici A.**, *Possibilities of recycling the lime-dolomite plant dust*, Journal of Environmental Protection and Ecology, 1, 2010, pp.217-226, **ISI Journal, FI 0,178**
8. **Socalici A.**, Hepu T., Ardelean M., Ardelean E., Putan V., *Researches regarding practical application of deferrised steelshop slags in agriculture*, Journal of Environmental Protection and Ecology, 1, 2010, pp.227-237, **ISI Journal, FI 0,178**
9. **Socalici A.**, Hepu T., Ardelean E., Ardelean M., *Research regarding using the wastes with carbon content in siderurgical industry*, Journal of Environmental Protection and Ecology, 2, 2010, pp.465-470, **ISI Journal, FI 0,178**
10. Ardelean E., Ardelean M., **Socalici A.**, Hepu T., *Simulation of continuous cast steel product solidification*, Revista de Metalurgia, 43(3), 2007, pp.181-187, **ISI Journal, FI 0,436**

2. Teza de doctorat

Ana Virginia Socalici, *Contribuții privind îmbunătățirea calității pentru piesele din oțel obținute prin forjare din lingouri mari*, coordonator prof.univ.dr.ing. Ioan ILCA, Universitatea Politehnica Timișoara, titlul de doctor în domeniul fundamental științe Inginerești, domeniul de doctorat Științe și Ingineria Materialelor, confirmat prin ordinul ministrului 4450 din 02.08.2004

3. C r i i capitole în c r i de specialitate

1. Ardelean M., Ardelean E., **Socalici A.**, Hepu T., *Tehnologia materialelor*, Politehnica Timișoara, 978-606-554-979-1, 483 pag.
2. **Socalici A.**, *Baza energetică și de materii prime în industrie*, Politehnica Timișoara, 978-606-554-888-6, 2014, 308 pag.
3. **Socalici A.**, Hepu T., Drăgoi F., *Contribuții privind influența gazelor asupra calității produselor din oțel*, Politehnica Timișoara, ISBN 978-606-554-500-7, 2012, 120 pag.
4. Hepu T., **Socalici A.**, Ardelean E., Ardelean M., Constantin N., Buzduga M., *Valorificarea deeurilor feroase murdare și pulverulente*, Politehnica Timișoara, ISBN 978-606-554-245-7, 2011, 340 pag.
5. **Socalici A.**, Ardelean E., Ardelean M., Hepu T., Josan A., *Turnarea și solidificarea oțelului*, CERMI Iași, ISBN 978-973-667-303-0, 2007, 350 pag.
6. Ardelean E., Ardelean M., **Socalici A.**, Hepu T., Abrudean C., *Optimizarea proceselor de turnare continuă a oțelului*, CERMI Iași, ISBN 978-973-667-299-6, 2007, 200 pag.
7. Nica G., **Socalici A.**, Ardelean E., Hepu T., *Tehnologii pentru îmbunătățirea calității oțelului*, Mirton Timișoara, ISBN 973-661-138-8, 2003, 160 pag.
8. Hepu T., Nica G., **Socalici A.**, Ardelean E., *Defectele lingourilor și semifabricatelor din oțel*, Politehnica Timișoara, ISBN 973-8247-52-8, 2001, 174 pag.
9. **Socalici A.**, *Structura lingourilor de oțel*, Mirton Timișoara, ISBN 973-661-543-X, 2004, 150 pag.
10. Hepu T., Nica G., **Socalici A.**, Ardelean E., Maksay S., *Turnarea și solidificarea oțelului sub formă de lingouri*, Destin Deva, ISBN 973-9105-30-0, 2000, 122 pag.
11. **Socalici A.**, Maksay S., *Considerații termice în metalurgie*, Sigma Plus Deva, ISBN 973-9486-13-4, 2000, 120 pag.
12. **Socalici A.**, Benea L., Todoruț A., Strugariu L., *Ingineria mediului - Teme experimentale*, Politehnica Timișoara, ISBN 978-606-554-597-7, 2013, pag. 88
13. Weber F., **Socalici A.**, Sabău F., Ioan A., Ardelean E., Ardelean M., Nica G., Pușan V., Major I., Mihailescu G., Lupșan A., Anghel S., Josan A., Kiss I., *Comportarea materialelor metalice la sollicitări statice și dinamice*, Mirton Timișoara, ISBN 973-585352-3, 2001.
14. Milostean D., Hepu T., **Socalici A.**, Ardelean E., *Baza energetică și de materii prime, Aplicații*, Politehnica Timișoara, ISBN 978-973-625-843-5, 2009, pag.70
15. **Socalici A.**, Ardelean E., Hepu T., Găvrușescu A., Nica G., Stăniloiu I., *Prepararea minereurilor feroase*, Litografia UPT, 1999.

4. Articole în extenso în reviste cotate și indexate ISI Thomson Reuters

1. **Socalici A.**, Pascu L., Ardelean E., Hepu T., *The influence of carbon, manganese and silicon content upon the hardness of phosphorous cast iron used in manufacturing rolling stock braking shoes*, Technical Gazette, 23(6), 2016, **FI 0,579**.
2. **Socalici A.**, Popa E., Pușan V., Drăgoi F., *Researches on the reduction of steel hydrogen content by its secondary treatment inside the ladle*, Technical Gazette, 23(5), 2016, **FI 0,579**

3. Putan V., Heput T., **Socalici A.**, Putan A., *Analysis on the similarity between steel ladles and hot-water models regarding natural convection phenomena*, Technical Gazette, 24(1), 2016, **FI 0,579**
4. **Socalici, A;** Ardelean, E., Strugariu, L., *Research on the possibilities of sustainable use of powdery waste*, Environmental Engineering and Management Journal, 15(1), 2016, pp.207-212, **FI 1,065**
5. **Socalici, A;** Ardelean, E., Crisan, E., Heput, T., *Research on the increase of the reaction surface of self-reducing briquettes*, Environmental Engineering and Management Journal, 15(2), 2016, pp.443-451, **FI 1,065**
6. Andronache, C; **Socalici, A;** Heput, T, *The influence of micro coolers on the physical-mechanical characteristics of the steels used in making railway monoblock wheels*, Technical Gazette, 20(3), 2013, pp.419-424, **FI 0,615**
7. Putan, A; Putan, V; Heput, T; **Socalici, A**, *Steel treatment with calcium-aluminate synthetic slag and addition of titanium oxide*, Revista de Metalurgia, 49(1), 2013, pp.31-44, **FI 0,241**
8. Pascu, LV; Putan, A; **Socalici, A;** Heput, T, *Researches on the quality of pig iron to be used in making rail braking shoes*, Metalurgia International, 18(4), 2013, pp.193-199
9. Andronache, C; **Socalici, A;** Heput, T; Popa, E, *Research on the influence of steel ingot solidification process control on the tenacity characteristics*, Metalurgia International, 17(9), 2012, pp.234-238, **FI 0,134**
10. Dragoi, F; **Socalici, A;** Ardelean, E; Popa, E; Heput, T, *Researches on the influence of the slags formed in the installations on the hydrogen removal efficiency*, Revista de Metalurgia, 47(6), 2011, pp.477-484, **FI 0,202**
11. **Socalici A.**, Heput T., Ardelean M., Ardelean E., Putan V., *Researches regarding practical application of deferrised steelshop slags in agriculture*, Journal of Environmental Protection and Ecology, 1, 2010, pp.227-237, **FI 0,178**
12. **Socalici A.**, Heput T., Ardelean E., Ardelean M., *Research regarding using the wastes with carbon content in siderurgical industry*, Journal of Environmental Protection and Ecology, 2, 2010, pp.465-470, **FI 0,178**
13. Ardelean Marius, **Socalici Ana**, Heput Teodor, Ardelean Erika, *Research on obtaining lubricating powder from various types of wastes*, Journal of Environmental Protection and Ecology, 2, 2010, pp.593-600, **FI 0,178**
14. Ardelean Erika, Ardelean Marius, **Socalici Ana**, Heput Teodor, *Recycling of slag from the aluminium industry to steel refining*, Journal of Environmental Protection and Ecology, 2, 2010, pp.635-642, **FI 0,178**
15. Ardelean Erika, Ardelean Marius, Heput Teodor, **Socalici Ana**, *Possibilities of recycling the lime-dolomite plant dust*, Journal of Environmental Protection and Ecology, 1, 2010, pp.217-226, **FI 0,178**
16. Heput, T; Ardelean, E; **Socalici, A;** Osaci, M; Ardelean, M, *Steel deoxidation with syntetic slag*, Metalurgia International, 15(5), 2010, pp.22-28, **FI 0,154**
17. Josan, A; Heput, T; **Socalici, A;** Ardelean, E; Ratiu, S, *The simulation of hot rolling process, in order to determine the thermal field distribution in the mill rolls*, Metalurgia International, 14(7), 2009, pp.27-35, **FI 0,173**
18. **Socalici Ana**, Ardelean Erika, Heput Teodor, Ardelean Marius, *Experimental researches want to improve the quality of continuous cast semi-finished sections*, Metalurgia International, 13(11), 2008, pp.48-56

19. **Socalici, A;** Teodor, H; Ardelean, E; Marius, A; Milostean, D, *Experimental researches in pilot phases regarding at processing of ferrous pulverous and scrap waste in briquette*, Metalurgia International,13(13), 2008, pp.57-62
20. Josan, A; Vilceanu, L; Vasile, P; **Socalici, A**, *Researches concerning the particularities of the hypereutectoid steel, using for casting the mill rolls*, Metalurgia International,13(7), 2008, pp.33-38
21. Marius, A; Teodor, H; Ardelean, E; **Socalici, A**; Vilceanu, L, *New methods and analysis functioning techniques for cooling bed tool of the profile laminators*, Metalurgia International,13(5), 2008, pp.48-53
22. **Socalici, A;** Ardelean, E; Hepuț, T; Ardelean, M, *The influence of micro-coolants of the mechanical proprieties of the carbon steels*, Metalurgia International,13(4), 2008, pp.50-55
23. **Socalici, A;** Ardelean, E; Hepuț, T; Ardelean, M, Josan A., *Solidification simulation of the continuous cast blanks with micro-coolants added in the mould*, Metalurgia International,12(8), 2007, pp.20-25.
24. Ardelean E., Ardelean M., **Socalici A.**, Hepu T., *Simulation of continuous cast steel product solidification*, Revista de Metalurgia, 43(3), 2007, pp.181-187, **FI 0,436**
25. Hepu T; Ardelean, E; **Socalici, A**; Maksay, S; Gavanescu, A, *Steel desulphurization with synthetic slag*, Revista de Metalurgia, 43(1), 2007, pp.31-44, **FI 0,436**

5. Articole în volume unor manifest ri științifice indexate ISI Proceedings

1. **Socalici A.**, Pascu, L. Popa, E, Hepu , T., *The influence of the cast iron structure upon the hardness of brake shoes meant for the rolling sock*, International Conference on Applied Sciences, ICAS october 2014, IOP Conference Series: Materials Science and Engineering, Volume 85, Number 1, 2015, pp. 12026-12034
2. Pascu, L., **Socalici, A.**, Popa, E., Crisan, E., *The influence of chemical composition upon the hardness of brake shoes meant for rolling stock*, International Conference on Numerical Analysis and Applied Mathematics ICNAAM 22–28 September 2014, Rhodes, Greece, AIP Conf. Proc. 1648, 680005 (2015)
3. **Socalici A.**, Popa E., Hepu T., Vilceanu L., *Contributions related to the control of steel ingot solidification*, International Conference on Applied Sciences, ICAS 22-25 october 2013, Wuhan, PEOPLES R CHINA, IOP Conference Series-Materials Science and Engineering, Volume 57, 012004, 2014
4. **Socalici A.**, Popa E., Hepu T., Puțan V., *Contributions to steel semi-finished parts quality improvements*, International Conference on Applied Sciences, ICAS 22-25 october 2013, Wuhan, PEOPLES R CHINA, IOP Conference Series-Materials Science and Engineering, Volume 57, 012003, 2014
5. **Socalici A.**, Popa E., Hepu T., Dr goi F., *Research regarding the Improvement of the Steel Quality*, 5th International Conference on Advanced Materials and Structures (AMS 2013) Timisoara, Advanced Materials and Structures IV, Solid State Phenomena, Volume 216, pp. 273-278
6. L scuțoni A., Ardelean E, **Socalici A.**, Ardelean, M., *Mathematical modeling of micro-coolers added in the continuous casting tundish*, 11th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 21 September 2013, Rhodes, Greece, Vol. 1558, pp.1603-1606
7. Strugariu L., Crisan E., **Socalici A.**, Hepu T., *Mathematical modeling based on qualitative characteristics of briquettes depending on the composition of recipes*, 11th

- International Conference of Numerical Analysis and Applied Mathematics ICNAAM 21 September 2013, Rhodes, Greece, Vol. 1558, pp.1644-1647
8. Pascu, L., Stoica, D, **Socalici, A.**, *Determining the Cooling Affected Volume by Adding Microcoolers in the Steel*, International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 19-25 september 2012, Kos, Greece , Numerical Analysis and Applied Mathematics Volume 1479, pp. 763-766
 9. Andronache C., **Socalici A.**, Vîlceanu L., Hepu T., *Researches On The Influence Of Chemical Composition Regarding The Physical-Mechanical Characteristics Of Steel For The Manufacture Of Monobloc Wheels*, 4th International Conference on Advanced Materials and Structures, AMS 27-28 octomber 2011, Timisoara, Romania, Advanced Materials and Structures IV, Solid State Phenomena 2012, Volume 188, pp. 353-357
 10. Popa, E; Pauca, A; **Socalici, A.V.**, *Numerical Simulation of Solidification Phenomena in Continuous Cast Semi-Finished Products*, 10th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 19-25 September 2011, Halkidiki, Greece, Vol. 1389
 11. Pinca-Bretotean, C., Tirian, GO., **Socalici, AV.**, Ardelean, ED., *The optimization of the main beam for the resistance structure of an over-sized rolling bridge*, The 9-th WSEAS International Conference on Simulation, modelling and optimization, 03-05September 2009, Budapest, Romania, pp.86-914
 12. Ardelean M., Ardelean E., Hepu T., **Socalici A.**, *Simulation Results Regarding to Cinematic Parameters of Mechanical Systems*, The 13-th WSEAS International Conference on Systems, Mathematics and Computers in Science Engineering, Rodos Island, Greece, 22-24 July 2009, pp.254-259

6. Articole în reviste indexate în alte baze de date internaționale

1. Strugariu L., Hepu T., **Socalici A.**, *Recovery of sludge resulting from corrosion protection operations*, Metalurgia International, Bucuresti, Romania, ISSN 15822214, pp.161-165, 2013, **SCOPUS**
2. Popa E., Hepu T., Ardelean E., **Socalici A.**, *Identifying the main defects appeared in the structure of continuous blanks*, International Journal of Systems Engineering, Applications and Development, 6(1), pp.36-43, 2012, **Scholar Google**
3. Pauca A., Hepu T., **Socalici A.**, *Researches on the influence of alloying elements on the adamt steel type*, International Journal of Systems Engineering, Applications and Development, 6(1), pp.44-51, 2012, **Scholar Google**
4. **Socalici A.**, Ardelean E., Hepu T., Ardelean M., *Research regarding pulverous ferrous waste processing by pelletizing*, International Journal of Energy and Environment, 6(3), pp.334-341, 2012, **Scholar Google**
5. Pu an A., Pu an V., Vîlceanu L., **Socalici A.**, *Research on the Use of Waste to Reducing Slag Formation*, International Journal of Energy and Environment, 6(3), pp.342-349, 2012, **Scholar Google**
6. Todoruț A., **Socalici A.**, *Recovery of powdery waste results from technological flows in siderurgy*, International Journal of Systems Engineering, Applications and Development, 6(3), pp.251-258, 2012, **Scholar Google**
7. Ardelean M., Ardelean E., Hepu T., **Socalici A.**, *Establisching the main technological parameters of induction surface hardening for shaft parts type*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 9(4), pp. 37-40, 2011, **B+**, **Scholar Google**

8. Hepu T., **Socalici A.**, Ardelean E., Ardelean M., *Research on the diameter electrodes in electric arc furnaces*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 9(3), pp. 263-265, 2011, **B+**, **Scholar Google**
9. A. Todoru , L.Strugariu, T.Hepu , **A. Socalici**, E. Ardelean, *Research to Improving the Micropelleting Process on Agglomerated Technological Flow*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 9(3), pp.203-207, 2011, **B+**, **Scholar Google**
10. **Socalici A.**, Hepu T., Ardelean E., Ardelean M., *Research on drug specific electrodes type EBT electric arc furnace*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 9(3), pp.123-126, 2011, **B+**, **Scholar Google**
11. Hepu T., Ardelean E., **Socalici A.**, Ardelean M., *Experiments and results regarding the use foamed slags at the steel elaboration in electric arc furnaces*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 9(2), pp.109-112, 2011, **B+**, **Scholar Google**
12. Andronache C., **Socalici A.**, Maksay S., Hepu T., *Reserch regarding the quality of the steel used for making rolling stok components*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 8(3), pp. 415-421, 2010, **B+**, **Scholar Google**
13. Ardelean E., Ardelean M., Hepu T., **Socalici A.**, Benea Laura, *Research concerning to the possibility of use the sideritic residue for production of clinker*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 8(3), pp. 86- 91, 2010, **B+**, **Scholar Google**
14. Hepu T., **Socalici A.**, Ardelean E., Ardelean M., *Environment ecological process in Hunedoara area through reinsertion in economic circuit of scrap and pulverous waste*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 7(3), pp.299- 302, 200, **B+**, **Scholar Google**
15. **Socalici A.**, Ardelean E., Ardelean M., Hepu T., *Posibility to recycling of deferrized steelshop slags in agriculture*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 7(3), pp.293- 298, 2009, **B+**, **Scholar Google**
16. C. Pinca Bretotean, G. Tirian, **A.V. Socalici**, E. Ardelean, *Dimensional optimization for the strenght structure of a traveling crane*, WSEAS Transactions on Applied and Theoretical Mechanics, Greece, 4(4), pp.147-156, 2009, **SCOPUS**
17. Ardelean M., Ardelean E., **Socalici A.**, Hepu T., *Studies regarding of sideritic residue utilization for cement production*, ACTA TECHNICA CORVINIENSIS – Bulletin of Engineering, Hunedoara, 2(1), pp.21-26, **B+**, **Scholar Google**
18. **Socalici A.**, Hepu T., Ardelean E., Ardelean M., Milostean D., *Experimental researches regarding added of microcoolers at continuous casting steel*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, 7(17), pp.1785-1790, 2008, **B+**, **Scholar Google**
19. Ardelean M., Ardelean E., **Socalici A.**, Hepu T., *Experimenta equipment for microcoolers adding in tundish and crystallizer of continuous casting installation*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Oradea, Romania, ISSN 1583-0691(17), pp.1190-1195, 2008, **B+**, **Scholar Google**
20. Ardelean M., Ardelean E., Hepu T., **Socalici A.**, *Utilization of engineering plastic materials in rolling mill cooling bed construction*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, 6(16), pp.1637-1640, 2007, **B+**, **Scholar Google**

21. **Socalici A.**, Hepu T., Ardelean E., Ardelean M., *Research regarding of surface pressure in complex systems of lubrication slags*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, 6(16), pp.1201-1206, 2007, **B+**, **Scholar Google**
22. Ardelean E., Hepu T., Ardelean M., **Socalici A.**, *Influence of syntetic flux viscosity in order to increase quality of continuous casting semi-finished product*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, 6(16), pp.1356-1359, 2007, **B+**, **Scholar Google**
23. **Socalici A.**, Ilca, I., Hepu T., *Research concerning the structure improuvement of steel ingots*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 2(3), pp.69-74, 2004, **Scholar Google**
24. **Socalici A.**, *Research and experiments regarding the structure improvement of steel ingots*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 2(1), pp.75-80, 2004, **Scholar Google**
25. Ardelean E., Ardelean M., **Socalici A.**, *The influence of the technological parameters on the primary cooling at the continuous casting*, Annals of Faculty Engineering Hunedoara – International Journal of Engineering, 2(1), pp.51-56, 2004, **Scholar Google**
26. Ardelean E., Hepu T., **Socalici A.**, Nica G., Gavanescu A., *Investigations regarding the advanced utilisation of alloy elements for Ni and Mo alloyed steels*, Metalurgia, 55(3), pp.14-17, 2003, **Scholar Google**

7. Articole în volumele unor manifest ri științifice indexate BDI Proceedings

1. **Socalici A.**, Harau C., Hepu T., Ardelean E., *Development of Small and Powdery Waste Management*, 6th International Conference on Management, Marketing and Finances (MMF '12), Applied Mathematics and Economics, Vouligmeni Beach, Athens, Greece, 2012, pp.156-160, **Scholar Google**
2. Andronache C., **Socalici A.**, Vilceanu L., Hepu T., *The influence of chemical composition on the mechanical properties of steels used for manufacturing monoblock railway wheels*, The 5th WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '12), Engineering Mechanics, Urban & Naval Transportation and Tourism, Cambridge, UK, 2012, pp. 126-129, **Scholar Google**
3. Puc A., **Socalici A.**, Mois I, *Valorization of Metallic Wastes by Rolling Them in Different Profiles*, The 3 th International Conference on Energy, Environment, Devices, Systems, Communications, Computers (INEEE 12), Mathematical Modeling and Simulation in Applied Sciences, Rovaniemi, Finland, 2012, pp.171-174, **Scholar Google**
4. Todoruț A., **Socalici A.**, *Recovery of Powdery Ferrous Waste through Pelleting*, The 3 th International Conference on Energy, Environment, Devices, Systems, Communications, Computers (INEEE 12), Mathematical Modeling and Simulation in Applied Sciences, Rovaniemi, Finland, 2012, pp.134-139, **Scholar Google**
5. **Socalici A.**, Ardelean E., Hepu T., Ardelean M., *Possibilities of Turning into Account Steel Plant Powdery Wastes*, The 3th International Conference on Energy, Environment, Devices, Systems, Communications, Computers (INEEE 12), Mathematical Modeling and Simulation in Applied Sciences, Rovaniemi, Finland, 2012, pp.129-133, **Scholar Google**
6. **Socalici A.**, Hepu Teodor., Ardelean E., Ardelean M., *Researches regarding the recovery of small and powder ferrous wastes within iron-and-steel industry*, 6th IASME / WSEAS International Conference on Energy & Environment Cambridge, United

- Kingdom, 25 february 2011, pp.282-287, **SCOPUS**
7. Dragoi F., **Socalici A.**, Hepu T., Ardelean E., *Researchs on the influence of gas content from the steel on its quality*, The 4th International Conference on Manufacturing, Engineering, Quality and Production System, Barcelona, Spain, 15-19 September 2011, pp.139-146, **SCOPUS**
 8. E. Popa, T. Hepu , E. Ardelean, **A. Socalici**, *Contributions on the Study of Internal Flaws in Continuous Cast Semi-finished Products*, The 4th International Conference on Manufacturing, Engineering, Quality and Production System, Barcelona, Spain, 15-19 september 2011, pp.161-164, **SCOPUS**
 9. Pauca A., Hepu T., **Socalici A.**, Josan A., *Research on Quality of Steel for Production of Rolling Cylinders*, The 4th International Conference on Manufacturing, Engineering, Quality and Production System, Barcelona, Spain, 15-19 September 2011, pp.170-175, **SCOPUS**
 10. Todorut A., Hepu T., **Socalici A.**, Flori M., Crisan E., *Research on Expansion of the Steel Base Materials*, The 4th International Conference on Maritime and Naval Science and Engineering, Barcelona, Spain, 15-19 September 2011, pp.112-117, **SCOPUS**
 11. **A. Socalici**, T. Hepu , E. Ardelean, M. Ardelean, *Valorization of Powdery Ferrous Wastes in the Context of Sustainable Development*, 6th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development - EEESD'10, Timi oara, Romania, 2010, pp.153-157, **SCOPUS**
 12. **A. Socalici**, T. Hepu , E. Ardelean, M. Ardelean, *Researches Regarding the Obtaining of Active Slag by Using Reactive Admixtures Produced from Ferrous and Basic Scrap*, 6th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development - EEESD'10, Timi oara, Romania, 2010, pp.158-163, **SCOPUS**
 13. **Socalici A.**, Andronache C., Hepu T., *Researchs regarding the quality of the steel used for making rolling stock components*, International Symposium on Advanced Engineering and Applied Management - 40th Anniversary in Higher Education, Section 1, Hunedoara, 2010, pp.1-6, **Scholar Google**
 14. Ardelean M., Hepu T., Ardelean E., **Socalici A.**, *Hight productivity instalation for the recovery of waste by briqueting of powder*, International Symposium on Advanced Engineering and Applied Management - 40th Anniversary in Higher Education, Section 5, Hunedoara, 2010, pp.1-6, **Scholar Google**
 15. **Socalici A.**, Ardelean E., Ardelean M., Hepu T., *Researches regarding the peletizing process of ferrous pulverous waste*, International Symposium on Advanced Engineering and Applied Management - 40th Anniversary in Higher Education, Section 5, Hunedoara, 2010, pp.47-50, **Scholar Google**
 16. Ardelean E., Ardelean M., **Socalici A.**, Hepu T., *Researches in laboratory phases regarding to capitalization of ferrous pulverous waste in pellets*, International Symposium on Advanced Engineering and Applied Management - 40th Anniversary in Higher Education, Section 5, Hunedoara, 2010, pp.125-131, **Scholar Google**
 17. **Socalici A.**, Hepu T., Ardelean E., Ardelean M., Milostean D., *Experimental researches in pilot phases regarding at processing of ferrous pulverous and scrap waste in briquettes*, International Conference of Metallurgy and Materials Science, Bucuresti, 2008, pp.125-131, **Scholar Google**
 18. Hepu T., Ardelean E., Ardelean M., **Socalici A.**, Putan V., *Reducing of polution in alumina factoryarea, based of red slime waste recovery*, International Conference of Metallurgy and Materials Science, Bucuresti, 2008, pp.309-316, **Scholar Google**

19. **Socalici A.**, *Experiments regarding the steel temperature adjustment in the mould of the continuous casting machine*, 11th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, pp.319-322, **Scholar Google**
20. **Socalici A.**, Ardelean M, Puțan V., *Improving the continuous cast blank structure by using micro-coolants*, 11th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, pp.315-318, **Scholar Google**
21. **Socalici A.**, Puțan V., Josan A., *Numerical simulating of fluid flow and heat transfer in steel ladles during casting*, 11th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, pp.1275-1278, **Scholar Google**
22. **Socalici A.**, Ardelean E., Hepu T., Pinca-Bretotean C., *Settlement possibilities of steel temperature in crystallize*, 10th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology”, TMT 2006, Barcelona-Lloret de Mar, Spain, 2006, pp.161-164, **Scholar Google**
23. Pinca-Bretotean C., Tirian O., **Socalici A.**, *The Study of Thermal Regime of the Hot Rolling Mill Cylinders*, 10th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology”, TMT 2006, Barcelona-Lloret de Mar, Spain, 2006, pp.1327-1330, **Scholar Google**
24. **Socalici A.**, *Respects Regarding the Usage Micro-Cooler to Casting Steel*, 10th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology”, TMT 2006, Barcelona-Lloret de Mar, Spain, 2006, pp.157-160, **Scholar Google**

8. Brevete de invenție

1. Teodor Hepuț, **Ana Socalici**, Erika Ardelean, Marius Ardelean, Nicolae Constantin, Miron Buzduga, Radu Buzduga, *Brichet tubular din de euri feroase pulverulente*, RO126946-A0, RO126946-A8, RO126946-B1, titulari: Universitatea Politehnica Timisoara, Universitatea Politehnica Bucuresti, Centrul de Cercetare, Proiectare și Producție Refractare Alba Iulia, indexat ISI
2. Teodor Hepuț, Eugen Crișan, Erika Ardelean, **Ana Socalici**, Marius Ardelean, *Brichet cilindric multicav produs din deșeuri feroase pulverulente și mărunte cu granulație sub 2 mm*, RO127756-A0, RO127756-A8, cerere de brevet; titular: Universitatea Politehnica din Timisoara, indexat ISI

9. Granturi/proiecte câștigate prin competiție

9.1. Granturi/proiecte internaționale câștigate prin competiție

A – Director proiect

1. Grant Nr. 41/2007, *Practical application of deferrized steelshop slags in agriculture/ Valorificarea în agricultură a zgurilor de oel rie deferizate*, Balkan Environmental Association (BENA 2000RON).

B – Membru în echip

1. Grant Nr.46/2008, *Decreasing of environment pollution degree through the siderite waste capitalization for production cement*, Balkan Environmental Association, (BENA 2000 RON)
2. Grant Nr.40/2007, *The impact of lime-dolomite plants upon the environment and the possibility of reducing the ecological risk in these regions/Impactul fabricilor de var-dolomit asupra mediului și posibilități de reducere a riscului ecologic în aceste zone*, Balkan Environmental Association, (BENA 2300RON)
3. Grant Nr.24/2004, *Research regarding the recycling of the steel plant dust in siderurgic industry/Cercetări privind reciclarea prafului de oțelrie în industria siderurgică*, Balkan Environmental Association, (BENA 4000RON)

9.2. Granturi/proiecte naționale câștigate prin competiție**A – Director proiect**

1. Nr.71-044/2010, *Tehnologii avansate de conducere a proceselor industriale de calire superficială a pieselor încălzite inductiv*, 2010, Programul 4 „Parteneriate în domenii prioritare” 2007-2013, (PNCDI, UPT partener, 86.039 RON)
2. Nr. 3196/2005, *Cercetări și experimentări privind îmbunătățirea structurii semifabricatelor turnate continuu*, Programul Excelență – Proiect de cercetare pentru tineri cercetători – ET, 2005/2006/2007, (CEEX 75.000RON)
3. Nr.32940/2004, *Cercetări și experimentări privind îmbunătățirea structurii lingourilor de oțel*, (CNCSIS Grant AT, 7.750RON)
4. Nr.33550/2003, *Cercetări și experimentări privind îmbunătățirea structurii lingourilor de oțel*, (CNCSIS Grant AT, 3.600RON)

B – Membru în echip

1. Nr.71-044/2007, *Tehnologii avansate de conducere a proceselor industriale de calire superficială a pieselor încălzite inductiv*, Programul 4 „Parteneriate în domenii prioritare” 2007-2013, 2007/2008/2009, (PNCDI, UPT partener, 86.039 RON)
2. Nr.31-098/2007, *Prevenirea și combaterea poluării în zonele industriale siderurgice, energetice și miniere prin reciclarea deșeurilor marunte și pulverulente*, Programul 4 „Parteneriate în domenii prioritare” 2007-2013, 2007-2010, (PNCDI 1.257.581 RON) www.prevpol.fih.upt.ro
3. Nr. 233/2006, *Tehnologie integrate de obținere a unor surse energo-tehnologice neconvenționale utilizate ca materii prime la elaborarea oțelului*, Programul Excelență – Proiect de cercetare-dezvoltare complex, 2006-2008, (CEEX 100.000RON)
4. Nr. 232/2006, *Noi materiale refractare cu funcții complexe utilizate în industria oțelului, realizate prin tehnologii moderne*, Programul Excelență – Proiect de cercetare-dezvoltare complex, 2006-2008, (CEEX 100.000RON)
5. Nr. 3194/2005, *Optimizarea regimului termic al oțelului pe traseul cuptor-agregat de tratament secundar-instalație de turnare continuă*, Programul Excelență – Proiect de cercetare pentru tineri cercetători – ET, 2005-2007, (CEEX 69.000RON)
6. Nr. 1455/2000, *Asimilarea în fabricație a prafurilor de turnare, folosite la turnarea continuă a oțelului*, Program CD ORIZONT, 2000/2001, (ORIZONT 6.500RON)
7. Nr.1/2001, *Proiectare subansamble instalație pilot cu praf de carbune de reducere directă a minereurilor și de eurilor feroase în cuptor tubular rotativ* – subcontract la Contractul RELANSIN nr.330/1999 (1.150 RON)

8. Nr.2/2001, *Asistență tehnică, participare la experimentări pe instalația pilot de reducere directă a minereurilor și de eurilor feroase existente la Siderurgica Hunedoara – subcontract la Contractul RELANSIN nr.330/1999 (1.154 RON)*
9. Nr.3/2001, *Proiectarea și execuția ansamblului colector de alimentare cu energie electrică a instalației neconvenționale de producere a varului și dioxidului de carbon, Subcontract la contractul RELANSIN nr. 339/1999 (220 RON)*
10. Nr.4/2001, *Consultanță și asistență tehnică la realizarea alimentării cu energie electrică a instalației neconvenționale de producere a varului și dioxidului de carbon, Subcontract la contractul RELANSIN nr. 339/1999 (569 RON)*
11. Nr.5/2001, *Proiectarea instalației de încălzire a bilelor ceramice pentru instalația pilot de reducere directă a minereurilor și de eurilor feroase existente la S.C SIDERURGICA S.A. Hunedoara – subcontract la Contractul RELANSIN nr.330/1999 (1.600 RON)*
12. Nr.6/2001, *Confecționat instalație încălzire bile ceramice pentru instalația neconvențională de producere a varului și dioxidului de carbon, – subcontract la Contractul RELANSIN nr.339/1999 (470 RON)*

15.02.2016

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