

LISTA DE LUCRĂRI:

I. TEZA DE DOCTORAT (A)

Instalație de laborator și soft pentru simularea controlului și conducerii echipamentelor metalurgice

Conducător științific: Prof.dr.ing. Iulian OPRESCU

II. CARȚI PUBLICATE (B)

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

1. A.Semenescu, M.Târcolea, C.F.Preda, **B. Florea**, *MathCAD-Utilizare și aplicații*, Ed. MatrixRom, București, 2007, ISBN: 973-755-026-9
2. A.Semenescu, C.Bălescu, I.Oprescu, V.Mirea, C.V.Semenescu, **B.Florea**, *Control of Technological Processes for Materials Processing*, Ed. Printech, București, 2006, ISBN 973-718-403-3
3. A.Semenescu, D.Lambdarie, M.Tarcolea, CF.PREDA, G.A.Voicu, **B.Florea**, *Utilizarea MATHCAD in tehnica, matematica si economie*, Ed.Matrixrom,2010, ISBN: 9789737556165
4. I.Vircolacu,V.Mirea,**B.Florea**,A.Minea-Tratat de stiinta si ingineria materialelor metalice,vol.5,cap.6, Editura Agir ,2011,Bucuresti
5. **B. Florea**, Gh. Florea, N. Constantin, C. Dobrescu, D. F.Marcu, *Oteluri Turnate in Piese*, Editura Printech, ISBN 978-606-23-11605-5, 235 pg, Bucuresti 2020
6. I.Marginean,**B.Florea**,I.Anton, *Tratat de stiinta si ingineria materialelo rmetalice vol.6,cap.1.6,pag.298-478*,Editura Agir 2014
7. P.Dumitrascu,C.F.Balescu,I.Vircolacu,V.Mirea,**B.Florea**,A.A.Minea, *Tratat de stiinta si ingineria materialelo rmetalice vol.5,cap.6,pag.632-947*,Editura Agir 2011
8. Ciurdaș Mariana,Nicolae CONSTANTIN,Cristian Dobrescu, Alexandra ISTRATE, Dragoș Florin MARCU, **Bogdan FLOREA**, *Scăderea amprenteii de carbon prin eficientizarea proceselor de obținere a fontei de primă fuziune*, Editura Printech, COD CNCIS 54, ISBN 978-606-23-1519-1, București, 210 pag, 2023
9. N. Constantin, C. Dobrescu, V. Rucai, A. Istrate, A. Ioana, **B. Florea**, D. Marcu, *Tehnologii de valorificare a elementelor utile din deșeuri și subproduse generate în sectorul siderurgic*, Editura Printech, ISBN 978-606-23-1457-6, 192 pagini, Bucuresti 2023
10. **B. Florea**, C. Dobrescu, D. Marcu, *Bazele proiectării asistate de calculator pentru inginerii din domeniul economic și de materiale*, Editura Printech, ISBN 978-606-23-1511- 5, 108 pagini, Bucuresti 2023

III. ALTE MATERIALE PUBLICATE (B)

1. **B. Florea**, A. Ioana, A. Semenescu, D. Marcu, C.I. Chiva, *Elemente De Robotica Utilizate in Industria Materialelor Metalice*, Editura Matrix Rom, ISBN 978-606-23-11605-5, pag.127, Bucuresti 2020.
2. Dragos Florin MARCU, Adrian IOANA, Ileana MATES, Augustin SEMENESCU, Cosmin-Ionut CHIVA, **Bogdan Florea**, Alice Daniela MANOLESCU, Roxana Marina SOLEA, Daniela Ionela JUGANARU,*Managementul producerii materialelor metalice- Teorie si Aplicatii*, Editura MATRIXROM, 2020, pag.127, ISBN 978-606-25-0608-7

IV. ARTICOLE / STUDII ÎN EXTENSO PUBLICATE (C)

Ris:

1. [Geaman, V](#) (Geaman, Virgil); [Pop, MA](#) (Pop, MihaiAlin); [Radomir, I](#) (Radomir, Irinel); [Bedo, T](#) (Bedo, Tibor); [Florea, B](#) (Florea, Bogdan); [Semenescu, A](#) (Semenescu, Augustin); [Chivu, OR](#) (Chivu, Oana Roxana); [Pasare, M](#) (Pasare, Minodora); [Gligor, MA](#) (Gligor, Maria Alina), LUBRICATION OF HIGH SPEED BALL-BEARINGS USING POLYMER ADDITIVES,Revista de chimie nr.11,2016, WOS:000388361900016;FI=1,232

2. [Coterlici, RF](#) (Coterlici, RaduFrancisc); [Geaman, V](#) (Geaman, Virgil); [Pop, MA](#) (Pop, MihaiAlin); [Bedo, T](#) (Bedo, Tibor); [Radomir, I](#) (Radomir, Irinel); [Chivu, OR](#) (Chivu, Oana Roxana); [Florea, B](#) (Florea, Bogdan); [Semenescu, A](#) (Semenescu, Augustin), THERMAL ANALYSIS STUDIES REGARDING THE ECO-COMPOSITES BASED ON JUTE BY APPLYING SALINITY TREATMENT,Revista de chimie, nr.10,2016, WOS:000388359900033;Fi=1,232
3. [Vasilescu, E](#) (Vasilescu, Elisabeta); [Florea, B](#) (Florea, Bogdan); [Semenescu, A](#) (Semenescu, Augustin); [Chivu, OR](#) (Chivu, Oana Roxana); [Babis, C](#) (Babis, Claudiu),THE MATHEMATICAL MODEL FOR MANUFACTURING THE NICKEL POWDER WITH DEFINED PROPERTIES,revista de chimie nr.7,2016, WOS:000385513000020;Fi=1,232
4. [Vasilescu, E](#) (Vasilescu, Elisabeta); [Neacsu, M](#) (Neacsu, Marian); [Vasilescu, VG](#) (Vasilescu, Vlad Gabriel); [Florea, B](#) (Florea, Bogdan); [Semenescu, A](#) (Semenescu, Augustin); [Chivu, OR](#) (Chivu, Oana Roxana); [Babis, C](#) (Babis, Claudiu),EXPERIMENTAL RESEARCHES FOR MANUFACTURING THE NICKEL POWDER,revista de chimie nr.6,2016, WOS:000385510300017;Fi=1,232
5. Mereuta, V (Mereuta, Valentin); [Florea, B](#) (Florea, Bogdan), INFLUENCE OF ROUGHNESS EVOLUTION AS A SURFACE DEFECT ON FATIGUE CRACK INITIATION PROCESS, Metalurgia International, nr.11,2012,WOS:000307370400001;Fi=0,134
6. Vasilescu, M (Vasilescu, Marius); [Florea, B](#) (Florea, Bogdan), ASPECTS OF LOW COST AND ENVIRONMENTAL PROTECTION ON ALUMINIUM AND TITANIUM INVESTMENT CASTINGS,Metalurgia International nr.10,2012, WOS:000307370200016, Fi=0,134
7. [Florea, B](#) (Florea, Bogdan); Hagioglu, P (Hagioglu, Petrica); Oancea, C (Oancea, Constantin), BEHAVIOUR OF COPPER, ALUMINUM AND BRASS SAMPLES SUBJECTED TO AGGRESSIVE CORROSIVEPROCESS,metalurgia International,nr.7,2012, WOS:000304382600002; Fi=0,134
8. [Florea, B](#) (Florea, Bogdan); Mereuta, V (Mereuta, Valentin), FATIGUE DAMAGE CHARACTERIZATION OF METALLIC SURFACES ON THE LINK BETWEEN SURFACE GEOMETRY AND MICROHARDNESS,Metalurgia International,nr.6,ed.2012, WOS:000302988700017; Fi=0,134
9. Ciocan, ME (Ciocan, Mihail-Eduard); [Florea, B](#) (Florea, Bogdan), RESEARCH ON BELLS OF THE NATIONAL HERITAGE,Metalurgia International nr.2,Ed.2012, WOS:000301084900004; Fi=0,134
10. Ciocan, ME (Ciocan, Mihail-Eduard); [Florea, B](#) (Florea, Bogdan), MATHEMATICAL MODEL FOR THE GEOMETRICAL SHAPE OF THE BELL,Metalurgia International nr.2,Ed.2012, WOS:000301084900009; Fi=0,134
11. [Florea, B](#) (Florea, Bogdan); Hagioglu, P (Hagioglu, Petrica); Gheorghies, C (Gheorghies, Constantin);Cantaragiu, AM (Cantaragiu, Alina-Mihaela); Oancea, C (Oancea, Constantin); Atanasiu, OV (Atanasiu, Onut-Valeriu), CORROSION BEHAVIOUR OF SOME METALLIC SAMPLES IN NaCl SOLUTION,Metalurgia International,nr.11,Ed.2011, WOS:000294380500038; Fi=0,084
12. [Florea, B](#) (Florea, Bogdan); Novac, R (Novac, Raul); Vasilescu, E (Vasilescu, Elisabeta), MICROHARDNESS STUDY AND TRIBOLOGICAL BEHAVIOR OF MULTIPLE LAYERS OBTAINED BYELECTRODEPOSITION,Metalurgia International,nr.6,2011, WOS:000291457000005; Fi=0,084
13. Marginean, I (Marginean, Ioan); [Florea, B](#) (Florea, Bogdan); Fodor, L (Fodor, Liliana), NANOCOMPOSITES MADE BY ELECTROLYT DEPOSITION,metalurgia International,nr.5,2011, WOS:000289606200026; Fi=0,084
14. [Florea, B](#) (Florea, Bogdan); Chiriac, A (Chiriac, Alexandru); Florea, G (Florea, Gheorghe), RESEARCHES VIEWING THE DETERMINATION OF PHYSICAL PROPERTIES OF MICRO-ALLOYING THE ALUMINIUM ALLOYS,Metalurgia International,nr.2,2010, WOS:000274149100003; Fi=0,154
15. Dragomir, S (Dragomir, Stefan); Florea, G (Florea, Gheorghe); [Florea, B](#) (Florea, Bogdan); Mihalca, C(Mihalca, Constantin), VIBRATION AND DIAGNOSTIC FOR A COLD ROLLING MILLS,metalurgia International, nr.1,2010, WOS:000274149700001; Fi=0,154
16. [Florea, B](#) (Florea, Bogdan); Vasilescu, E (Vasilescu, Elisabeta), RESEARCHES CONCERNING THE MODIFICATIONS OF BOTH STRUCTURE AND PROPERTIES OF THE SURFACE BY ALUMINIZING,Metalurgia International, nr.8,2010, WOS:000277598900006;Fi=0,154
17. Oancea, C (Oancea, Constantin); Gheorghies, C (Gheorghies, Constantin); Florea, G (Florea, Gheorghe);[Florea, B](#) (Florea, Bogdan), XRD STUDIES ON SUPERFICIAL LAYER OF STEEL SUBJECTED TO FATIGUE PROCESS,metalurgia International,nr.11,2010, WOS:000280440800012; Fi=0,154
18. Saracin, I (Saracin, Ion); Pandia, O (Pandia, Olimpia); Bozga, I (Bozga, Ion); [Florea, B](#) (Florea, Bogdan), THE INFLUENCE OF FOLIAR FERTILIZERS MEANT FOR THE UPTAKE OF NITROGEN AND PHOSPHORUS SOLUBILLZING ON GARDEN PEA CHLOROPHYLL PIGMENTS,Metalurgia international nr.4,2013, WOS:000315177400030; Fi=0
19. Pandia, O (Pandia, Olimpia); Saracin, I (Saracin, Ion); Bozga, I (Bozga, Ion); [Florea, B](#) (Florea, Bogdan), VITAMIN C, CAROTENE AND PROTEIN – THERAPY AND NUTRITION – OBTAINED FROM CAPSICUM ANNUM L,Metalurgia International nr.3,2013, WOS:000313930000040; Fi=0;
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23. Mihai Alin Pop, Virgil Geaman, Irinel Radomir, Tibor Bedo, Ioan Milosan, Augustin Semenescu, **Bogdan Florea**, Oana Roxana Chivu, Effect of different solutions on the handmade composite materials, Revista de chimie, nr.3, 2017, pp.464-469, fi=1,412, WOS:000400731900008
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28. Stoicanescu, M; Crisan, A; Milosan, I; Pop, MA; Garcia, JR; Giacomelli, I; Bedo, T; Martinez, IC; Semenescu, A; **Florea B**, Chivu, OR, Heat Treatment of Steel 1.1730 with Concentrated Solar Energy, Revista de Materiale Plastice, nr.1, 2019, pp. 261-270, WOS:000464604100052, FI=1,393
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30. Geaman, V; Pop, MA; Radomir, I; Semenescu, A; **Florea B**; Chivu, OR, The influence of thermal behaviour to composites based on cotton tissue and unsaturated polyester resin, revista MATERIALE PLASTICE, nr.1, 2020, pp.197-201, WOS:000528195000022, FI=1.517
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40. **Florea, B**, Marcu, DF, Semenescu, A, Ioana, A, Ciurdas, M, Iacob, G, Niculescu, F, Iorga, M, Hristache, F, OPTIMIZING THE COMBUSTIBLE CONSUMPTION USING THE IoT CONCEPT FOR FOUNDRY FURNACES, Buletinul Politehnica serie B, nr.3, pag.147-154, 2023, WOS:001052966300013, Fi=0.5
41. Istrate, D, Sbarcea, BG, Demian, AM, Buzatu, AD, Salcianu, L, Bordeasu, I, Micu, LM, Ghera, C, **Florea, B**, Ghiban, B, Correlation between Mechanical Properties-Structural Characteristics and Cavitation Resistance of Cast Aluminum Alloy Type 5083, Crystals, nr.11, 2022, WOS:000880971600001, eISSN 2073-4352, Q2, Fi=2,7
42. Istrate, A, Buzduga, MD, **Florea, B**, Ciurdas, M, Iordachescu, RM, Buletinul Politehnica serie B, nr.3, pg.145-156, WOS:000961046800013, ISSN 1454-2331, 2022 Fi=0.5

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Risb

1. **B. Florea**, D. Marcu, A. Ioana, A. Semenescu, R. Solea, G. Iacob, F. Niculescu, “Software application for uniform quantitative evaluation of social economy projects”, 24th Innovative Manufacturing Engineering and Energy International Conference (IManEE 2020) 14th-15th December 2020, Athens, Greece, IOP Conf. Series: Materials Science and Engineering, vol. 1037, art. nr. 012063, 2021, nr. pg. 6, DOI information: <http://dx.doi.org/10.1088/1757-899X/1037/1/012063>,
2. **B. Florea**, D. Marcu, A. Ioana, A. Semenescu, R. Solea, G. Iacob, F. Niculescu, “Software application for optimizing raw material costs, including materials recovered from batteries and accumulators”, 24th Innovative Manufacturing Engineering and Energy International Conference (IManEE 2020) 14th-15th December 2020, Athens, Greece, IOP Conf. Series: Materials Science and Engineering, vol. 1037, art. nr. 012063, 2021, nr. pg. 6, DOI information: <http://dx.doi.org/10.1088/1757-899X/1037/1/012064>
3. Gheorghe FLOREA, **Bogdan Florea**, Alexandru STANESCU, Marius VASILESCU, *The control simulation of the corrosion protection process by electrical deposition*, Revista Metalurgia nr.5, p.10, 2012, Revista indexata Ebsco
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6. Victor ANDREI, Cristian DOBRESCU, Nicolae CONSTANTIN, **Bogdan FLOREA** , *Romania the application of statistical and mathematical methods of analysis to real data processing operation of a blast furnace*, acta tehnica corviniensis , Bulletin of Engineering Tome VIII [2015] Fascicule 4 [octomber – december]
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10. C Manea, A Semenescu, D.F. Marcu, **B Florea**, QUALITATIVE STUDY ON THE MANAGEMENT OF START-UPS FINANCED FROM EUROPEAN GRANT FUNDS., Nonconventional Technologies Review / Revista de Tehnologii Neconventionale . Dec2022, Vol. 26 Issue 4, p8-12
11. .Manea, Ciprian; Semenescu, Augustin; Marcu, Dragos Florin; **Florea, Bogdan**, QUANTITATIVE STUDY AND MATHEMATICAL MODELS ON THE SYNERGY BETWEEN EUROPEAN GRANT FUNDED START-UPS AND RESEARCH INFRASTRUCTURES, Nonconventional Technologies Review / Revista de Tehnologii Neconventionale . Dec2022, Vol. 26 Issue 4, p20-24
12. Adrian IOANA, , Daniela TUFEANU , Dragos Florin MARCU , **Bogdan FLOREA** , Daniela Alice LUTA , Bianca Cezarina ENE1 , Daniela Ionela JUGANARU , Roxana Marina SOLEA, Education through innovation in the field of metallic materials science, European journal of materials science and engineering, Volume 6, Issue 2, 2021, ISSN: 2537-4338, DOI: 10.36868/ejmse.2021.06.02.083, Indexata in baze de data CAS, Copernicus, DOAJ
13. Adrian IOANA, , Daniela TUFEANU , Dragos Florin MARCU , **Bogdan FLOREA** , Daniela Alice LUTA , Bianca Cezarina ENE1 , Daniela Ionela JUGANARU , Roxana Marina SOLEA, Historical and educational aspects of discoveries and inventions that revolutionized mankind, European journal of materials science and engineering, Volume 6, Issue 2, 2021, ISSN: 2537-4338, DOI: 10.36868/ejmse.2021.06.03.131, Indexata in baze de data CAS, Copernicus, DOAJ

Rvs

1. **B. Florea**, Marcu D.F., Ioana A., Semenescu A, Iordachescu R.M., Butu M, Iacob G, Niculescu F, The management of command and control technology in the cloud for monitoring aggregates in materials industry, International conference of management and industrial engineering Business change and digital transformation in a world moving through crisis, nr.10, 2021, ISSN 2344-0937, pag. 161-168
2. D.F. Marcu, **B. Florea**, A. Semenescu, A. Ioana, F. Niculescu, M. Butu, R.M. Iordachescu, M. Craciunica, Study on the development of economic activities aimed at recovering metals from used batteries, International conference of management and industrial engineering Business change and digital transformation in a world moving through crisis, nr.10, 2021, ISSN 2344-0937, pag. 678-684

V. BREVETE DE INVENȚIE / INOVAȚII (E)

1. Sistem și metodă pentru culegere, analiza și clasificarea incidentelor care apar într-o zonă operațională, bazate pe algoritmi de inteligență artificială Dumitrescu Cătălin Marian, Chiva Ionuț-Cosmin, Semenescu Augustin, Necula Horia, **Florea Bogdan**, osim cbi a 2023 - 00719 din 22 nov. 2023

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

Data,
25.05.2025

Semnătura,
Conf. dr. ing. Bogdan Florea