

Rezultatele activităților de cercetare la nivel de departament in perioada 2012 - 2016

B. Cărți și capitole în cărți publicate în perioada 2012 - 2016

B1. Cărți și capitole în cărți de specialitate internaționale ca autor (cu ISBN extern)

1. Teodorescu P., Stănescu N.-D., Pandrea N., *Numerical Analysis with Applications in Mechanics and Engineering*, Wiley, Hoboken, USA, 2013, ISBN 978-1-118-07750-4, 2013, (TC_5_2013_DFMI)
2. Pandrea N., Stănescu N.-D., *Dynamics of the Rigid Solid with General Constraints by a Multibody Approach*, Wiley, Chichester, 2016, ISBN 978-1-118-95438-6, 2016, (TC_5_2016_DFMI)

B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Adriana-Gabriela PLĂIAȘU, Constantin VAHLAS, Mărioara ABRUDEANU, Maria Magdalena DICU, *Termodinamica în metalurgie. Aplicații*, Ed. Universitatii din Pitești, 2012/154, ISBN 978-606-560-280-9, 2012, (TC_4_2012_DFMI)
2. Denape J., Popa N., Onescu C., *Dinamica interfetelor cu frecare*, 2012, nr. pag. 230, Editura Universității din Pitești, ISBN: 978-606-560-227-4, 2012, (TC_4_2012_DFMI)
3. Banu Ilarion, *Tehnologia materialelor*, Editura Universității din Pitești, 486 p., ISBN 9786065602915, 2012, (TC_4_2012_DFMI)
4. Stănescu N.-D., *Metode numerice. Culegere de probleme*, Editura Didactică și Pedagogică, București, 2012, ISBN 978-973-30-3163-5, 2012, (TC_5_2012_DFMI)
5. N. Popa, C. Onescu, *Organe de mașini*, Editura Univ. din Pitești, ISBN e-978-606-560-306-6, 2012, 570 pg., 2012, (TC_5_2012_DFMI)
6. Bâldea Monica, *Mecanica: Teorie și aplicații*, carte Editura Universității Pitești, ISBN 978-606-560-279-3, 306 pagini., 2012, (TC_5_2012_DFMI)
7. Ion Dobrescu, *Tehnologia Presării la rece*, Editura Universității din Pitești, ISBN 978-606-560-263-2, 274, 2012, (TC_7_2012_DFMI)
8. Bălțeanu A., Belu N., *Noțiuni de bază în management. Studii de caz. Probleme. Întrebări*, Editura Universității din Pitești, 2012, ISBN: 978-606-560-253-3, 2012, (TC_10_2012_DFMI)
9. Bălțeanu A., Belu N., *Noțiuni de bază în management. Studii de caz. Probleme. Întrebări*, 2012, Editura Universității din Pitești, ISBN: 978-606-560-253-3, 200 pg., 2012, (TC_10_2012_DFMI)
10. Stănescu N.-D., *Mecanica sistemelor*, Editura Didactică și Pedagogică, București, 2013, ISBN 978-973-30-3458-2, 2013, (TC_5_2013_DFMI)

11. NIȚU E.L., ANGHEL D., DOBRESCU I., IACOMI D., IORDACHE M., RIZEA A., VASILE Gh., *Procese de fabricație specifice industriei de automobile*, Editura Universității din Pitești, e-ISBN 978-606-560-329-5, 522 pag., 2013, (TC_9_2013_DFMI)
12. Ion Dobrescu., *Tehnologia Montajului Ediția II-a, revizuită și adăugită*, Editura Universității din Pitești , ISBN 978-606-560-288-5, 244, 2013, (TC_7_2013_DFMI)
13. Clara Abrudeanu, H Zingle, M Abrudeanu, *Matériaux*, Editura Paralela 45, ISBN 978-973-47-1821-4, dictionar francez-român, român francez., 306 pag, 2014, (TC_5_2014_DFMI)
14. Nițu E.L., *Ingineria și managementul sistemelor de producție - Conceperea structurii operaționale a sistemelor de producție*, Editura Universității din Pitești, ISBN 978-606-560-367-7, 280 pag., 2014, (TC_10_2014_DFMI)
15. Marioara ABRUDEANU, Adriana-Gabriela PLĂIAȘU, Maria-Magdalena DICU, *Materiale compozite, microstructura, proprietati*, Editura Paralela 45, ISBN 978-973-47-1827-6,, 2015, (TC_5_2015_DFMI)
16. Rizea, V., *REZISTENȚA MATERIALELOR.CONCEPTE,SINTEZE,APLICAȚII*, e-ISBN:978-606-560-447-6, 2015, (TC_6_2015_DFMI)
17. Bădescu, N.,Rizea, V., *REZISTENȚA MATERIALELOR.COMPLEMENTE*, e-ISBN:978-606-560-448-3, 2015, (TC_6_2015_DFMI)
18. Nițu E.L., Belu N., *Ingineria și managementul sistemelor de producție - Organizarea sistemelor de producție*, Editura Universității din Pitești, ISBN 978-606-560-419-3, 248 pag. (216 pag. ca autor), 2015, (TC_10_2015_DFMI)
19. Adriana-Gabriela PLĂIAȘU, *Nanomateriale și nanotehnologii*, Editura Universității din Pitești, 2016/100, 978-606-560-945-7, 2016, (TC_4_2016_DFMI)
20. R.N.Dobrescu, Adriana-Gabriela PLĂIAȘU, *Tratamente termice*, Editura Universității din Pitești, ISBN 978-606-560-474-2, 2016/159 , 2016, (TC_4_2016_DFMI)
21. Jan-Cristian GRIGORE, *Organe de masini - Note de curs*, Editura Universității din Pitești, e-ISBN: 978-606-560-484-1, 123 pag., 2016, (TC_5_2016_DFMI)
22. Jan-Cristian GRIGORE, *Rezistența materialelor, Indrumar pentru intocmirea referatelor de laborator*, Editura Universității din Pitești, e-ISBN: 978-606-560-487-2, 141 pag., 2016, (TC_5_2016_DFMI)
23. Jan-Cristian GRIGORE, *Rezistența materialelor. Indrumar de laborator*, Editura Universității din Pitești, e-ISBN: 978-606-560-473-5, pag. 61., 2016, (TC_5_2016_DFMI)
24. Bâldea Monica, *Geometrie descriptivă.Desen tehnic.*, carte.Edit.Univ.Pitesti/2016,e-ISBN 978-606-560-497-1,133 pagini., 2016, (TC_5_2016_DFMI)
25. Iordache M., Costea A., Babă Al., *Metode de calcul și modele matematice pentru optimizarea proiectării dispozitivelor*, Editura Universității din Pitești,260 pagini, ISBN 978-606-560-477-3, 2016, (TC_7_2016_DFMI)
26. Iacomi D., Nițu E.L., Gavriluță A., *Tehnologia fabricării produselor - Ghid de proiectare a tehnologiilor de prelucrare prin așchiere*, Editura Universității din Pitești, e-ISBN 978-606-560-500-8, 214 pag., 2016, (TC_7_2016_DFMI)
27. Bălțeanu A., *Cunoașterea întreprinderii*, 2016, Editura Universității din Pitești, 2016, ISBN: 978-606-560-494 -0, 300 pg., 2016, (TC_9_2016_DFMI)

B3. Cărți și capitole în cărți de specialitate internaționale ca editor (cu ISBN extern)

1. Slătineanu L., Merticaru V., Negoescu Fl., Coteață M., Păcurar R., Strnad G., Tița I., Oancea Gh., Dușa P., Nițu E., Dodun O., *Innovative Manufacturing Engineering 2015, Selected, peer reviewed papers from the 19th IManE 2015*, TTP Ltd Switzerland, ISSN 1660-9336, 1622 pag., 2015, (TC_11_2015_DFMI)
2. DOICIN C., IONESCU N., SAVU T., NITU E. L., *Advanced Manufacturing Technologies*, Volume 834, TTP Ltd Switzerland, ISBN 978-3-03835-607-3, 248 pag., 2016, (TC_8_2016_DFMI)

B5. Manuale didactice, suport de curs

1. Nitu E., Iacom D., Iordache M., *Tehnologia fabricării produselor 1*, Pitești, 254 pag., 2012
2. Jean-Pierre MILLET, Adriana-Gabriela PLĂIAȘU, Mărioara ABRUDEANU, *Analyser, comprendre, résoudre un problème de corrosion. Rappels de cours. Exercices et études de cas*, , Ed. Universității din Pitești, 2012/233, ISBN 978-606-560-293-9 , 2012
3. Gavrilita Ana, *Logistică Industrială*, Pitesti, 70 pag., 2015
4. Iacom Doina, *Cercetare operațională. Teorie și aplicații*, Pitesti / 230 pag., 2016
5. Iacom Doina, *Scule așchietoare. Suport de curs*, Pitesti / 100 pag., 2016
6. Iacom Doina, *Tehnologii de prelucrare mecanică 2. Suport de curs*, Pitesti / 80 pag, 2015
7. Ion Ion, *Asamblari mecanice si organe de asamblare*, Universitatea din Pitesti, 2015
8. Ion Ion, *Transmisii mecanice si elemente de transmisie*, Universitatea din Pitesti, 2015
9. Ion Ion, *Masini-unelte*, Universitatea din Pitesti, 2015
10. Ion Ion, *Sisteme de fabricare cu comanda numerica*, Universitatea din Pitesti, 2015
11. Ion Ion, *Actionari hidraulice si pneumatice*, Universitatea din Pitesti, 2016
12. Belu N., *Analiză Economică, Note de curs*, 50 pag, 2016
13. Belu N., *Bazele Managementul, Note de curs*, 50 pag, 2016
14. Belu N., *Managementul Proiectelor de producție, Note de curs*, 60 pag, 2016
15. Rachieru N., *Managementul Fabricatiei Produselor*, Note de curs, Pitesti, , 2015
16. Rachieru N, *Managementul productiei*, Note de curs. Pitesti, 2014
17. RIZEA VASILE, *INIȚIERE ÎN CERCETARE-APLICAȚII, ELECTRONIC*, 2012
18. RIZEA VASILE, *Comportement mécanique des matériaux*, Applications, electronic, 2016
19. RIZEA VASILE, *PROGRAMAREA CALCULATOARELOR ȘI LIMBAJE DE PROGRAMARE, CONCEPTE, SINTEZE APLICAȚII*, , 2016
20. Vasile Gh, *Utilaje pentru prelucrari mecanice*, Pitesti, 2014, 100 pag., 2014
21. Vasile Gh, *Bazele proiectării asistate de calculator ; Curs, Pitești 2011, Pitești 2012*; 90 pag, 2012
22. Vasile Gh., *Proiectare asistata de calculator*, Pitesti, 2012, 77 pag., 2012

B6. Îndrumare de laborator, culegere de probleme

1. Plăiașu G., Iordache M., Anghel D., Banu Il., Dobrescu I., *Tehnologia materialelor. Îndrumar de laborator*, pag. 157, Editura Universității din Pitești, 2016, ISBN 978-606-560-476-6., 2016
2. Anghel D, Boroiu A, Rizea A, *Indrumar de practica - FMT*, editura universitatii din Pitesti, 214 pag., 2012
3. Nițu E., Rotaru A., Belu N., *Ingineria și managementul producției 1 - Lucrări de laborator*, Pitești, 152 pag., 2012
4. Nițu E., Belu N., Rotaru A., *Ingineria și managementul producției 2 - Lucrări de laborator*, Pitești, 150 pag., 2012
5. R.N.Dobrescu, Adriana-Gabriela PLĂIAȘU, *Tehnologia Tratatelor termice*, Editura Universității din Pitești, 2015, ISBN 978-606-560-429-2, 2015
6. Adriana-Gabriela PLĂIAȘU, Monica-Daniela IORDACHE, Daniel-Constantin ANGHEL, Radu-Nicolae DOBRESCU, coord: Ilarion BANU, *Tehnologia materialelor. Indrumar de laborator*, Editura Universității din Pitești, 2015/159, ISBN 978-606-560-476-6, 2016
7. Babă, Alexandru, Iordache Monica, *Constructia dispozitivelor modulare*, Lucrari de laborator, Editura Larisa, Câmpulung Muscel, 50 pag, 2014
8. Plăiașu G., Iordache M., Anghel D., Banu Il., Dobrescu R., *Tehnologia materialelor., Îndrumar de laborator*, Editura Universității din Pitești, ISBN 978-606-560-476-6, 2016, 157 pag, 2016
9. Iordache M. Ungureanu I., *Dispozitive tehnologice*, . Indrumar de laborator, Editura Universității din Pitești, 100 pag., 2016
10. Babă, Alexandru, Iordache Monica Daniela, *Constructia dispozitivelor modulare. Lucrare de laborator*, Editura Larisa, ISBN: 978-606-715-200-5, Câmpulung Muscel, 2014, 38pag., 2014
11. Rotaru Ana, *Logistica industrială – lucrări de laborator*, Pitesti, pag. 100, 2013
12. Rotaru Ana, *Managementul producției asistat de calculator – lucrări de laborator*, Pitesti, pag. 62, 2014
13. Gavriluță Ana, *Gestiunea integrată a producției - Lucrări de laborator*, Pitesti, 50 pag, 2014
14. Bălțeanu A., *Cunoașterea întreprinderii. Aplicații*, 2013, Pitești, 140 pg., 2013
15. Bălțeanu A., *Economia întreprinderii. Aplicații*, 2012, Pitești, 120 pg., 2012
16. Iacomî D., Vasile Gh., *Scule așchietoare. Indrumar de laborator*, Pitesti /100 pag, 2014
17. Iacomî Doina, *Metode și instrumente de management industrial - Probleme și studii de caz*, Pitesti / 60 pag., 2015
18. Iacomî Doina, *Metode și Instrumente de Management Industrial - Indrumar de laborator*, Pitesti / 80 pag, 2014
19. Gina Sicoe, *Cercetare Operationala. Indrumar de laborator*, , 2016
20. Ion-Guta Ion, *Actionari hidraulice si pneumatice, indrumar de laborator*, 7 platforme de lucrari de laborator cu suporturi scrise:- Platforma unitati de translatie cu actionare pneumatica. Scheme de acționare ciclică, simultan/sucesiv, cu mai multe unități de translație- Analiza constructivă și funcțională a

compresorului pneumatic cu piston cu o treapta de comprimare. Determinarea parametrilor: cilindree; debit volumic; randament volumic.- Analiza constructivă și funcțională a unei pompe cu roți dințate. Determinarea debitului volumic și a momentului de antrenare.- Analiza constructivă și funcțională a unui regulator proporțional de presiune. Determinarea caracteristicii de reglare presiune-intensitate- Analiza constructivă și funcțională a unui sistem mecatronic de acționare ciclică în regim automat a unui cilindru pneumatic. Analiza ciclogramei de mișcare. Studiul circuitelor și al semnalelor de comandă și de execuție.- Analiza constructivă și funcțională a unui actuator rotativ cu două pistoane și mecanism pinion-cremalieră. Determinarea unghiului de rotație și a momentului mecanic la arborele de ieșire.- Manipulator cu 4 grade de libertate cu acționare pneumatică. Studiul mișcărilor, circuitelor și al semnalelor de comandă și de execuție., 2016

21. Ion-Guta Ion, *Organe de masini, indrumar de laborator*, 7 platforme de lucrari de laborator cu suporturi scrise- Asamblari prin strângere pe con. Determinarea experimentală a momentului capabil la o asamblare prin strângere pe con- Asamblari prin șuruburi. Determinarea experimentală a forței de prestrângere și a coeficientului de frecare la o asamblare prin șuruburi- Cuplaj elastic cu bolturi. Determinarea experimentală a deformațiilor elastice re prin șuruburi- Transmisii prin curele late. Determinarea experimentală a coeficientului de frecare dintre curea și roțile de curea- Asamblari elastice. Determinarea experimentală a caracteristicii elastice a arcurilor cilindrice de compresiune- Asamblari prin strângere pe con. Determinarea experimentală a momentului capabil la o asamblare prin strângere pe con- Osii și arbori. Determinarea experimentală a deformațiilor elastice ale unei axe cu came, 2016

22. Belu N., *Analiză Economică Aplicații practice*, 50 pag., 2016

23. Rachieru N., *Managementul proiectelor de producție – Aplicații, Suporturi tipărite și în format electronic*, Pitesti, , 2016

24. Rachieru N., *Lucrări de laborator la disciplina Managementul Fabricației Produselor. Suporturi scrise*, Pitesti, , 2015

25. Pârlac, S., Popa, D., Rizea, V., Tecău F.-G., *Vibrații lucrări de laborator*, Editura Trialog, 2013, ISBN:978-606-8095-76-9., 2013

26. Vasile Gh., *Utilaje pentru prelucrări mecanice*, Pitesti 2014, 100 pag., 2014

27. Vasile Gh, *Proiectare asistată de calculator; Îndrumar de laborator*, Pitești 2011, Pitești 2012, 125 pag., 2012

28. Vasile Gh, *Bazele proiectării asistate de calculator*, Pitești 2012, 87 pag., 2012

C. Lucrări (articole) ISI / BDI publicate în perioada 2012 - 2016

C1. Articole în reviste cotate ISI Thomson Reuters

1. Dicu M.M., Abrudeanu Mărioara, Moga S., Negrea D., Andrei V., Ducu C., *Preparation of ceramic coatings on titanium formed by micro-arc oxidation method for biomedical application*, Journal of Optoelectronics and Advanced Materials, Volume: 14, Issue: 1-2, 125-130, f.i. 0.43, 2012, (TC_4_2012_DFMI)

2. Sanda Cristina VULPE, Marioara ABRUDEANU, Dumitru OHAI, Adriana Gabriela PLAIASU, Vasile RIZEA, Nicoleta RĂDUȚOIU, *The influence of the thermal transient regime on grain size nickel-based alloys*, Revue Roumaine de Chimie, Vol.63, No. 10, 2012, p. 1026-1030.<http://www.revistadechimie.ro/pdf/VULPE%20S%20C.pdf%2010%2012.pdf>, 2012, (TC_5_2012_DFMI)

3. Sanda Cristina VULPE, Mărioara ABRUDEANU, Dumitru OHÂI, Adriana-Gabriela PLĂIAȘU, Nicoleta RĂDUȚOIU, *The influence of the thermal cycling on grain size nickel-based alloys*, Revista de Chimie, 63, nr.11, 2012, p. 1112-1115, F.I. 0,538, 2012, (TC_4_2012_DFMI)
4. Negrea, Denis; Ducu, Catalin; Moga, Sorin; Malinovschi, Viorel; Monty, Claude J. A.; Vasile, Bogdan; Dorobantu, Dorel; Enachescu, Marian, *Solar Physical Vapor Deposition Preparation and Microstructural Characterization of TiO₂ Based Nanophases for Dye-Sensitized Solar Cell Applications*, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 12 (11), pp. 8746-8750, 2012; Journal Impact Factor = 1,149, 2012, (TC_4_2012_DFMI)
5. Vulpe S.C., Abrudeanu Mărioara, Ohai D., Plaiasu A.G., Radutoiu N., *The Influence of the Thermal Cycling on Grains Size of the Nickel-based Alloys*, Revista de Chimie, Volume: 63, Issue: 11, 1112-1115, Published: NOV 2012; f.i . 5.038, 2012, (TC_4_2012_DFMI)
6. Vulpe S.C., Abrudeanu Mărioara, Ohai D., Plaiasu A.G., Rizea V., Radutoiu N., *The Influence of the Thermal Transient Regime on Grain Size at Nickel-based Alloys*, Revista de Chimie, Volume: 63, Issue: 10,, 1026-1030. f.i.0.599, 2012, (TC_4_2012_DFMI)
7. Radutoiu N., Alexis J., Lacroix L., Petit J.A., Abrudeanu Mărioara, Rizea V., Vulpe S, *Of the Over-ageing Treatment on the Mechanical Properties of AA2024 Aluminum Alloy*, Revista de Chimie, Volume: 63, Issue: 10, 1042-1045, f.i. 0.538 , 2012, (TC_4_2012_DFMI)
8. Nicoleta RĂDUȚOIU, Marioara ABRUDEANU, Lo&amp;amp;iuml;c LACROIX, Jo&amp;amp;euml;l ALEXIS, Jacques-Alain PETIT, Vasile RIZEA, Sanda VULPE, *The evolution of the microstructure of the AA2024 aluminum alloys as a function of the artificial ageing temperature*, Rev. Chim. (Bucharest), vol. 63, No. 12, 2012, p. 1257-1260 <http://revistadechimie.ro/pdf/RADUTOIU%20N.pdf%2012.pdf> , 2012, (TC_5_2012_DFMI)
9. Nicoleta RĂDUȚOIU, Jo&amp;amp;amp;amp;amp;amp;euml;l ALEXIS, Lo&amp;amp;amp;amp;amp;amp;iuml;c LACROIX, Jacques-Alain PETIT, Marioara ABRUDEANU, Vasile RIZEA, Sanda VULPE, *Effect of the over-ageing treatment on the mechanical properties of the AA2024 aluminum alloy*, Rev. Chim. (Bucharest), vol. 63, No. 10, 2012, p. 1042-1045.<http://www.revistadechimie.ro/pdf/RADUTOIU%20N.pdf%2010%2012.pdf>, 2012, (TC_5_2012_DFMI)
10. Dobrescu Ion, Banu Ilarion, *Research concerning the forming forces at cold tooting by intermittent blow*, Proceedings of The 16th International Conference Modern Technologies, Quality and Innovation ModTech ., Volume I, 281-284, Thomson Reuters, 2012, (TC_7_2012_DFMI)
11. Banu Ilarion, Dobrescu Ion, *Contributions to the quality study of the parts made of malleable iron (Fgn 700-2), 52-54 HRC hardened, used for manufacturing crankshafts*, Proceedings of The 16th International Conference Modern Technologies, Quality and Innovation ModTech ., Volume I, 81-84, Thomson Reuters, 2012, (TC_8_2012_DFMI)
12. M. M. DICU, M. ABRUDEANU, S. MOGA, C. BUBULINCĂ, A. G. PLĂIAȘU, *Researches concerning the titania coatings formed on titanium by plasma electrolytic oxidation*, OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 7, No. 5-6, May - June 2013, p. 402 – 405, F.I. 0,449, 2013, (TC_4_2013_DFMI)
13. Constantin Bubulincă, Xavier Balandraud, Michel Grediac, Sergiu Stanciu, Marioara Abrudeanu, Adriana-Gabriela Plaiasu, Maria Magdalena Dicu, Eduard Laurentiu Nitu, *Study of Cu-Al-Be shape memory alloy amplitude variation of temperature with the infrared camera*, Journal of Optoelectronics and Advanced Materials Vol. 15, No. 5-6, May – June 2013, p. 544 - 549, FI=0.516, 2013, (TC_4_2013_DFMI)

14. M.-T. POPESCU, A.-G. PLĂIAȘU, M. ABRUDEANU, N. POPA, R.-N. DOBRESCU, J. DENAPE, M. DICU, *Tribological characterisation of NiP and NiP/TALC layers*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 15, No. 5- 6, May – June 2013, p. 595 – 600, F.I. 0,563, 2013, (TC_4_2013_DFMI)
15. M.-T. POPESCU, A.-G. PLĂIAȘU, M. ABRUDEANU, R.-N. DOBRESCU, N. POPA, J. ALEXIS, M.M. DICU, *Elaboration and structural characterization of NiP/TALC layers*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 2013, Volume: 15, Issue: 7-8, p 635-638, F.I. 0,563, 2013, (TC_4_2013_DFMI)
16. Constantin BUBULINCĂ, Marioara ABRUDEANU, Sergiu STANCIU, Adriana-Gabriela PLĂIAȘU, Michel GREDIAC, *THE CAPACITY OF RECOVERY OF SHAPE MEMORY AND THE MECHANICAL COMPORTEMENT OF Cu-22, 63Zn-6,44Al*, p. 9-14, METALURGIA INTERNATIONAL Special Issue vol. XIX no. 2 (2013), F.I. 0,084, 2013, (TC_4_2013_DFMI)
17. M.T.Popescu, A.G.Plaiasu, M.Abrudeanu, N.Popa, R.N.Dobrescu, M.Dicu., *Tribological Characterisation of NiP/Talc Layers*, Journal of Optoelectronics and Advanced Materials. Vol. 15, No. 5-6, May-June 2013, p.595-900., 2013, (TC_4_2013_DFMI)
18. M.-T. Popescu, A.-G. Plaiasu, M. Abrudeanu, R.-N. Dobrescu, N. Popa, J. Alexis, M. Dicu., *Elaboration and Structural Characterisation of NiP/Talc Layers.*, Journal of Optoelectronics and Advanced Materials. Vol. 15, No. 7-8 / 2013, p.635-638., 2013, (TC_4_2013_DFMI)
19. Radutoiu N., Alexis J., Lacroix L., Abrudeanu Mărioara, Petit J.A, *Study of the influence of the artificial ageing temperature on the AA2024 alloy microstructure*, Key Engineering Materials, Volume: 550, 115-125, f.i. 0.3, 2013, (TC_4_2013_DFMI)
20. Radutoiu N., Alexis J., Lacroix L., Abrudeanu Mărioara, Petit J.A., *Application of Kelvin probe Force Microscopy (KFM) to evidence localized corrosion of over-aged aeronautical 2024 aluminum alloy*, Key Engineering Materials, Volume: 550, 127-134. f.i 0.3, 2013, (TC_4_2013_DFMI)
21. Radutoiu N., Lacroix L., Joel A., Abrudeanu Mărioara, Petit J.A., Rizea V., Vulpe S, *The Evolution of the Microstructure of AA2024 Aluminum Alloys as a Function of the Artificial Ageing Temperature*, REVISTA DE CHIMIE, Volume: 63, Issue: 12, 1257-1260. f.i. 0.538, 2013, (TC_4_2013_DFMI)
22. Eduard Nitu, Stefan Tabacu, Monica Iordache, Doina Iacomi, *Finite element analysis and experimental validation of the wedge rolling process*, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 227(9), 1325–1339, FI=0.77, 2013, (TC_8_2013_DFMI)
23. A.-G. PLĂIAȘU, M. ABRUDEANU, M.M. DICU, C.MONTY, *Elaboration and nanostructural study of pure and Al doped ZnO nanopowders*, Journal of Optoelectronics and Advanced Materials, Vol.16, Issue 9-10, 2014, pp.1116-1120, F.I. 0,429, 2014, (TC_5_2014_DFMI)
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8. *Nanoscience, Nanotechnologies, Materials and New production Technologies - CSAs 2013, Value4Nano: Industrial valorisation of strategic value chains for nano-enabled products*, Adriana-Gabriela PLAIASU, FP7-NMP-2013-CSA-7, Grant no.608684, Theme 4 - NMP - Nanoscience, Nanotechnologies, Materials and New production Technologies - CSAs 2013 , 2013, 0.00, (TC_4_2013_DFMI)
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10. *DISULPHIDE OF MOLYBDENUM NANOSTRUCTURE SYNTHESIS AND CHARACTERIZATION FOR OBTAIN GREASES WITH HIGH ADHESION TO METALS—NANODISMOLY--2014*, under SFERA 2 (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA), transnational projects FP7, COMISIA EUROPEANĂ,, Abrudeanu Marioara, , 2014, 0.00, (TC_1_2014_DFMI)
11. *THIN but Great Silicon 2 Design Objects*, director: Prof. Dr. rer. Nat. Marius Enachescu, , 2014, 529412.00, (TC_5_2014_DFMI)
12. *DISULPHIDE OF MOLYBDENUM NANOSTRUCTURE SYNTHESIS AND CHARACTERIZATION FOR OBTAIN GREASES WITH HIGH ADHESION TO METALS*, RIZEA VASILE, NANODISMOLY--2014, under SFERA 2 (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA), transnational projects FP7, COMISIA EUROPEANĂ, 2014, 56136.00, (TC_6_2014_DFMI)
13. *Solar Facilities for European Research Area (SFERA): Influence of structural transformations performed by thermal shock on thermal diffusivity alloy zircaloy-4*, Mărioara ABRUDEANU, Vasile RIZEA, Daniel- Constantin ANGHEL, Solar Facilities for European Research Area (SFERA): Transnational projects FP7, COMISIA EUROPEANĂ, Contract nr.312643, 2015, 0.00, (TC_1_2015_DFMI)

14. *INFLUENCE OF STRUCTURAL TRANSFORMATIONS PERFORMED BY THERMAL SHOCK ON THERMAL DIFFUSIVITY ALLOY ZIRCALOY-4*, ABRUDEANU M, RIZEA V, PLAIASU G, ANGHEL D, (TERMOSHOCZY), under SFERA II (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA). Transnational projects FP7, G. Agreement n°:312643FP7-INFRASTRUCTURESMEMBRU, 2015, 53020.00, (TC_1_2015_DFMI)

15. *INFLUENCE OF STRUCTURAL TRANSFORMATIONS PERFORMED BY THERMAL SHOCK ON THERMAL DIFFUSIVITY ALLOY ZIRCALOY-4 (TERMOSHOCZY)-2015*, under SFERA II (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA). Transnational projects FP7, G. Agreement n°:312643FP7-INFR, Abrudeanu Marioara, , 2015, 0.00, (TC_1_2015_DFMI)

16. *Conception d'un tribomètre instrumenté pour l'étude du frottement et de l'usure pour l'industrie automobile*, , SMI , INP-Toulouse, responsabil Universitatea din Pitesti, 2015, 2015, 4500.00, (TC_5_2015_DFMI)

17. *STUDY OF VARIATION OF THE MECHANICAL PROPERTIES OF SUPERALLOYS INCONEL 718 AND RENE 41 UNDER THERMAL SHOCK – (TERMOINCORENE -2016)*, Daniel-Constantin ANGHEL, Mărioara ABRUDEANU, Adriana-Gabriela PLĂIASU, Vasile RIZEA, Luminita CONSTANTINESCU, Solar Facilities for European Research Area (SFERA): Transnational projects FP7, COMISIA EUROPEANĂ, Contract nr.312643, 2016, 0.00, (TC_1_2016_DFMI)

18. *STUDY OF VARIATION OF THE MECHANICAL PROPERTIES OF SUPERALLOYS INCONEL 718 AND RENE 41 UNDER THERMAL SHOCK—TERMOINCORENE-2016*, under SFERA II (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA), transnational projects FP7, Abrudeanu Marioara, , 2016, 0.00, (TC_1_2016_DFMI)

19. *Cost Efficient Data Collection for Smart Grid and Revenue Assurance/ Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice*, Ionescu Laurentiu, Mazare Alin, Bizon Nicu, Serban Gheorghe, Lita Ioan, Belu Nadia, Oproescu Mihai, Barleanu Florin, Iordachescu Grigore, Programul PN III Cooperarea Europeană și Internațională - Subprogram 3.2 - Orizont 2020, ERANET, Cost-Efficient Data Collection for Smart Grid and Revenue Assurance, Nr. înreg. 79/2016, înregistrat la Universitatea din Pitești cu nr. 5869 la data de 13.05.2016, 2016-2019, (valoare totala UPIT=461835 lei)<https://www.era-learn.eu/network-information/networks/era-net-smartgridplus/era-net-smart-grids-plus-joint-call-for-proposals/cost-efficient-data-collection-for-smart-grid-and-revenue-assurance>, 2016, 178321.00, (TC_14_2016_DECIE)

20. *Soutien aux formation francophones, Science et Technologie des matériaux*, Adriana-Gabriela PLAIASU, Agence Universitaire de la Francophonie, Appel: Soutien aux formation francophones, Science et Technologie des matériaux, 2016-2018 , 2016, 0.00, (TC_4_2016_DFMI)

21. *Soutien au formation francophone Science et Technologie des Matériaux / Ingénierie et Gestion de la Production*, Monica Iordache, Soutien au formation francophone Science et Technologie des Matériaux / Ingénierie et Gestion de la Production, nr inreg UPIT 7516/16.06.2016; Finantator AUF, 2016, 0.00, (TC_6_2016_DFMI)

22. *STUDY OF VARIATION OF THE MECHANICAL PROPERTIES OF SUPERALLOYS INCONEL 718 AND RENE 41 UNDER THERMAL SHOCK – (TERMOINCORENE - 2016)*, ANGHEL D, ABRUDEANU M, RIZEA V, PLAIASU G, TERMOINCORENE-2016, under SFERA II (SOLAR FACILITIES FOR THE EUROPEAN RESEARCH AREA)MEMBRU, 2016, 53600.00, (TC_5_2016_DFMI)

F2. Granturi / proiecte câștigate prin competiție națională

1. Grigore Jan-Cristian, *Cercetări privind aplicarea metodelor multicorp la analiza dinamică a sistemelor mecanice cu jocuri în cuplele cinematice în vederea îmbunătățirii regimului de funcționare*, 43/11.08.2010, 2012, (TC_1_2012_DFMI)
2. Stănescu N.-D., *Grup de rezemare cu amortizare mixtă, în concepție modulară, pentru izolarea dinamică la acțiuni seismice a podurilor și viaductelor*, director proiect ICECON, București, PN-II-PT-PCCA-2013-4-0392., 2013, (TC_5_2013_DFMI)
3. Iordache Monica, Nitu Eduard, Iacomi Doina, Viorel Nicolae, Sicoe Gina, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activ rotitor*, INOVA-FSW, Cod PN-II-PT-PCCA-2013-4-1858, Beneficiar ANCS, anul 2016, act aditional UEFISCDI nr. PT 538/11.02.2016 la ctr 219/2014 (valoare UPIT= 55754lei), 2016, (TC_2_2016_DFMI)
4. Iordache Monica, Nitu Eduard, Iacomi Doina, Viorel Nicolae, Sicoe Gina, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activ rotitor*, INOVA-FSW, Cod PN-II-PT-PCCA-2013-4-1858, Beneficiar ANCS, anul 2016, act aditional UEFISCDI nr. PT 538/11.02.2016 la ctr 219/2014 (valoare UPIT= 55754lei) , 2016, (TC_2_2016_DFMI), 2016, (TC_2_2016_DFMI)
5. Beneficiar: Universitatea Dunărea de Jos Galați-prof.univ.dr.Lucian Georgescu-manager proiect, partener: Universitatea din Pitești, director partener -prof.univ.dr.ing.Marioara Abrudeanu, POSDRU/159/1.5/S/138963 „Performanță sustenabilă în cercetarea doctorală și postdoctorală - PERFORM”, perioada de derularea a proiectului: 8 aprilie 2014-15 decembrie 2015Valoare UPIT_2015=802.728 lei, 2015, (TC_5_2015_DFMI)
6. Catalin Ducu, Adrian Clenci, Silviu Ionita, *Centrul Regional de Cercetare – Dezvoltare pentru Materiale, Procese și Produse Inovative Destinate Industriei de Automobile / CRC&D-Auto*, POS CCE A2 O 2.2.1, ID 1947 / SMIS 48763, Director de proiect, 2015, (TC_7_2015_DFMI)
7. Ducu Catalin, Clenci Adrian, Ionita Silviu, Nitu Eduard, Niculescu Rodica, Constantinescu Luminita, *Centrul Regional de Cercetare – Dezvoltare pentru Materiale, Procese și Produse Inovative Destinate Industriei de Automobile / CRC&D-Auto*, POSCCE-A2-O2.2.1-2013-1, ID 1947-2013, Responsabil laborator "Fabricație cu Comandă Numerică", 2015, (TC_8_2015_DFMI)

F3. Contracte de cercetare cu mediul socio-economic

1. Marioara ABRUDEANU, Adriana-Gabriela PLAIASU, Maria Magdalena DICU, *Ruperea axului de iesire al reductorului aferent pompei NEMO NETZSCH, tip NM 105 BY 02 S12B*, Contract nr. 95/11.12.2013, beneficiar S.C. D.M.G. S.R.L., anul de desfasurare 2013, membru contract., 2013, (TC_2_2013_DFMI)
2. PLĂIAȘU G., RIZEA V., *Caracterizare Probe metalografice*, Contract nr. 46/07.04.2014, S.C. Galvan Prodmed S.R.L.MEMBRU, 2014, (TC_6_2014_DFMI)
3. RIZEA VASILE, *Soluții iCloud pentru proiectarea, încărcarea și ținerea la zi a unor baze de date complexe, pentru piese de schimb și materiale utilizate la mașini, utilaje și autovehicule rutiere*, ARHIMEDES SOFTWARE S.R.L. Pitești, 2014-2018NR.43/01.04.2014, 2014, (TC_4_2014_DFMI)
4. Constantin Onescu, *Concepția unui tribometru instrumentat pentru studiul frecării și al uzurii pentru piese de diferite materiale utilizate în construcția de automobile,, Aka Automotiv*, 2015, 2015, (TC_6_2015_DFMI)

5. *Studiu privind transportul și mobilitatea în cadrul Regiunii Sud Vest Oltenia*, Contract Nr. 35 din 18.03.2015, anul 2015, (valoare UPIT=120766,08 lei) / membru, 2015, (TC_6_2015_DFMI)

6. Boroiu Alexandru, Bâldea Monica, Boroiu, Andrei Alexandru, Nicolae Viorel, Stan Marinică, Stan Petre, Istrate Mihaela, Vieru Ionel, Popa Dinel, *Studiu pentru proiectarea unui sistem de transport public pentru comuna Budeasa, județul Argeș*, Contract nr.1653/05.02.2016, membru, Beneficiar Primăria comunei Budeasa, jud. Argeș, valoare UPIT 2016=8000lei, 2016, (TC_5_2016_DFMI)

Sinteza rezultatelor activităților de cercetare la nivel de departament

Categoria / subcategoria activității de cercetare științifică	2012	2013	2014	2015	2016	Total
B. Cărți și capitole în cărți						
B.1 de specialitate, internaționale (autor)	0	1	0	0	1	2
B.2 de specialitate, naționale (autor)	9	3	2	4	9	27
B.3 de specialitate, internaționale (editor)	0	0	0	1	1	2
B.4 de specialitate, naționale (editor)	0	0	0	0	0	0
B.5 Manuale didactice, suporturi de curs	5	0	2	7	8	22
B.6 Îndrumare de laborator, culegere de pb.	6	3	7	3	9	28
C. Lucrări (articole) ISI / BDI						
C.1 în reviste cotate ISI	11	11	3	9	9	43
C.2 în volume indexate ISI Proceedings	8	12	16	7	13	56
C.3 în reviste /volumele unor manifestări științifice indexate BDI	53	43	31	47	20	194
D. Lucrări (articole) neindexate						
D.1 în reviste	0	0	8	0	3	11
D.2 în volumele manifestărilor științifice	9	8	3	3	3	26
E. Brevete de invenție	0	0	3	2	1	6
F. Granturi / proiecte de cercetare						
F.1 câștigate prin competiție internațională	4	5	3	4	6	22
F.2 câștigate prin competiție națională	1	1	0	3	2	7
F.3 cu mediul socio-economic	0	1	2	2	1	6

Data: 12.04.2017

Director de departament ANGHEL DANIEL-CONSTANTIN

Semnătura