

LISTA DE LUCRĂRI
a cadrului didactic ȘCHIOPU ADRIANA GABRIELA

A. Teza de doctorat

Cercetari privind elaborarea si caracterizarea unor nanomateriale oxidice cu proprietati speciale, ,
Ingineria materialelor, 2008

B. Cărți și capitole în cărți publicate în perioada 2009 - 2024

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

1. A. G. PLĂIAȘU, C. VAHLAS, M. ABRUDEANU, M. M. DICU, *Termodinamica în metalurgie. Aplicații*, Ed. Universitatii din Pitești, 154 pag, ISBN 978-606-560-280-9, 2012, (TC_4_2012_DFMI)
2. M. ABRUDEANU, A. G. PLĂIAȘU, M. M. DICU, *Materiale compozitie, microstructura, proprietati*, Editura Paralela 45, 371 pag., ISBN 978-973-47-1124-6, 2015, (TC_5_2015_DFMI)
3. A. G. PLĂIAȘU, *Nanomateriale și nanotehnologii*, Editura Universității din Pitești, 2016/100, 978-606-560-945-7, 2016, (TC_4_2016_DFMI)
4. R.N.Dobrescu, A. G. PLĂIAȘU, *Tratamente termice*, Editura Universității din Pitești, 159 pag., 2016, ISBN 978-606-560-474-2, (TC_4_2016_DFMI)

B5. Manuale didactice, suport de curs

1. Marioara ABRUDEANU, Adriana-Gabriela PLĂIAȘU, Elena Luminita STIRBU, *Metalografia*, Ed. Universitatii din Pitești, 2009/87, ISBN 978-973-690-888-0, 2009
2. Jean-Pierre MILLET, Adriana-Gabriela PLĂIAȘU, Mărioara ABRUDEANU, *Analyser, comprendre, resoudre un probleme de corrosion. Rappels de cours. Exercices et etudes de cas*, Ed. Universității din Pitești, 2012/233, ISBN 978-606-560-293-9 , 2012
3. A.G.PLĂIAȘU, *Sinteza și caracterizarea morfo-structurală a unor oxizi metalici nanostructurați*, Editura Universității din Pitești, e-ISBN 978-606-611-1, 2018/76., 2018
4. A.G. Plaiasu, *Tehnologia materialelor*, fără ISBN, 100 pag, 2019
5. A.G. Plăiașu, R.N. Dobrescu, E.M. Modan, *Technologie des traitements thermiques et thermochimiques*, fără ISBN, 105 pag, 2019
6. Plaiasu A.G., Oproescu M., *Inițiere în cercetare*, suport curs, 2023

B6. Îndrumare de laborator, culegere de probleme

1. A.D. Rizea, D.C. Anghel, A.G.Plăiașu, *Proiectarea produselor. Indrumar de laborator*, Proiectarea produselor. Indrumar de laborator, 2010
2. R. N. Dobrescu, A.G. PLĂIAȘU, *Tehnologia Tratatamentelor termice*, Editura Universității din Pitești, 2015/159, ISBN 978-606-560-429-2, 2015
3. A. G. PLĂIAȘU, M. D. IORDACHE, D. C. ANGHEL, R.N. DOBRESCU, coord: Ilarion BANU, *Tehnologia materialelor. Indrumar de laborator*, Editura Universității din Pitești, 2015/159, ISBN 978-606-560-476-6, 2016
4. A.D. RIZEA, D.C. ANGHEL, A.G.PLĂIAȘU., *Proiectarea funcțională a produselor*, e-ISBN 978-606-560-599-2, 2018/80, Îndrumar de laborator, 2018
5. A.G. PLAIASU, M.M. DICU, C.DUCU, *Știința și ingineria materialelor*, Editura Universității din Pitești, ISBN e-ISBN: 978-606-560-601-2, 2018/90, Îndrumar de laborator, 2018
6. A.G. Plaiasu, R.N. Dobrescu, M.M. Modan, *Tratamente termice*, Ed. Universității din Pitești, e-ISBN 978-606-560-630-2, 2019
7. A.G. Plăiașu, *Nanomateriale și nanotehnologii*, fara ISBN, 80 pag., 2019
8. Adriana-Gabriela Plăiașu, Marian Cătălin Ducu, Aurelian Denis Negrea, Sorin Georgian Moga, Ecaterina Magdalena Modan, *Nanomateriale și materiale avansate*, Îndrumar de laborator, 2020, 2020

9. A.G. Schiopu, M.M. Dicu, *Știința și ingineria materialelor metalice*, Editura Universității Pitești, ISBN 978-606-560-773-6, 121 pag., 2023

C. Lucrări (articole) ISI / BDI publicate în perioada 2009 - 2024

C1. Articole în reviste cotate ISI Thomson Reuters

1. Florina Constantin, Jean-Pierre Millet, Marioara Abrudeanu, Adriana-Gabriela Plăiașu, *Influence of a cooling liquid on the corrosion behaviour of AlMn alloy*, Revue Roumaine de Chimie, 56(9), 2011, pag. 917-921, F.I. 0,418, 2011
2. Sanda Cristina VULPE, Mărioara ABRUDEANU, Dumitru OHAI, Adriana-Gabriela PLĂIAȘU, Nicoleta RĂDUȚOIU, *The influence of the thermal cycling on grain size nickel-based alloys*, Revista de Chimie, 63, nr.11, 2012, pag. 1112-1115, F.I. 0,538, 2012, (TC_4_2012_DFMI)
3. Sanda Cristina VULPE, Mărioara ABRUDEANU, Dumitru OHAI, Adriana-Gabriela PLĂIAȘU, Vasile RIZEA, Nicoleta RĂDUȚOIU, *The influence of the thermal transient regime on grain size nickel-based alloys*, Revista de Chimie, 63, no.10, 2012, pag. 1026-1030, F.I. 0,538, 2012, (TC_4_2012_DFMI)
4. Constantin BUBULINCĂ, Marioara ABRUDEANU, Sergiu STANCIU, Adriana-Gabriela PLĂIAȘU, Michel GREDIAC, *THE CAPACITY OF RECOVERY OF SHAPE MEMORY AND THE MECHANICAL COMPORTAMENT OF Cu-22, 63Zn-6,44Al*, METALURGIA INTERNATIONAL Special Issue vol. XIX, no. 2, 2013, p. 9-14, F.I. 0,084, autor corespondent, 2013, (TC_4_2013_DFMI)
5. 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, Volume: 15, Issue: 7-8, 2013, pag. 635-638, F.I. 0,563, autor corespondent, 2013, (TC_4_2013_DFMI)
6. 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, pag. 595 – 600, F.I. 0,563, autor corespondent, 2013, (TC_4_2013_DFMI)
7. C. BUBULINCĂ, X. BALANDRAUD, M. GREDIAC, S. STANCIU, M. ABRUDEANU, A.- G. PLĂIAȘU, M. M. DICU, E. L. NIȚU, *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, F.I. 0,563, autor corespondent, 2013, (TC_4_2013_DFMI)
8. 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, pag. 402 – 405, F.I. 0,449, autor corespondent, 2013, (TC_4_2013_DFMI)
9. 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, pag.1116-1120, F.I. 0,429, 2014, (TC_5_2014_DFMI)
10. A.-G. PLĂIAȘU, Carmen Mihaela Topală, Alice Dinu, Mărioara Abrudeanu, Claudiu Suțan, *COOPER OXIDES NANOPOWDRES: SYNTHESIS BY S.P.V.D. AND CHARACTERISATION*, Revista de Chimie, Vol. 10, 2015, pag. 1636-1368, F.I. 0,9561, 2015, (TC_5_2015_DFMI)
11. A.G. Plaiasu, A. Dinu, D. Negrea, V. Rizea, M.M. Dicu, D. Bojin, M. Abrudeanu, J. C. Monty, M. Enachescu, E.S. Barca, C. Munteanu, *Synthesis and microstructural characterization of nanostructured CuO particles*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume: 17 Issue: 7-8, 2015, pag.1080-1085, F.I. 0,383, 2015, (TC_5_2015_DFMI)
12. E. S. Barca, A. G. PLĂIAȘU, M. Abrudeanu, B. Istrate, D. Luca, C. Munteanu, *Study of the plasma deposition of Al₂O₃ powder on an internal combustion engine piston*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume: 17, Issue: 9-10, 2015, pag.1522-1527, F.I. 0,383, 2016, (TC_4_2016_DFMI)
13. E.S. Barca; L.C. Trinca, Filipescu, M.Dinescu, A.G. Plaiasu, M Abrudeanu, R. Leata, *Influence of CeO₂ Thickness Layer Deposited on the 945A Steel Substrate Concerning the Corrosion Proces*, REVISTA DE CHIMIE, Volume: 67 Issue: 1, 2016, pag 177-181, F.I. 1,232, 2016, (TC_4_2016_DFMI)
14. M.D. Iordache, E.L. Nițu, A.G. Plăiașu, L.N. Boțilă, M.C. Ducu, M.M. Pasăre, *Analysis of Microstructure and Mechanical Properties of FSW Overlay Joints for Dissimilar Materials*, REVISTA DE CHIMIE, Volume: 68, Issue: 8, 2017, pag. 1811-1815, F.I.1,232, autor corespondent, 2017, (TC_1_2017_DFMI)

15. M.D. Iordache, M.C. Ducu, E.L. Nițu, D. Iacomî, A.G. Plăiașu, M.M. Pasăre, *Microstructure and Properties of Copper and 5754 Aluminum Alloy Joints by Friction Stir Welding*, REVISTA DE CHIMIE, Volume: 68, Issue: 3, 2017, pag. 459-463, F.I. 1,232, autor corespondent , 2017, (TC_1_2017_DFMI)
16. A-G. PLAIASU, M.D. Iordache, *MORPHOLOGICAL CHARACTERIZATION OF OXIDE NANOPOWDERS*, REVUE ROUMAINE DE CHIMIE, Vol. 62, Issue: 10, pg. 749-754, F.I.0,37, 2017, (TC_4_2017_DFMI)
17. M. Stanciulescu, M. Abrudeanu, M.C. Ducu, A.G. Plaiasu, *Chemical redistribution and microstructural evolution of ODS Fe-Cr powders during mechanical alloying*, Revista de Chimie -Bucharest, Original Edition, nr.69(2), pg.495-498, F.I.1,412, 2018, (TC_6_2018_DFMI)
18. CARMEN MIHAELA TOPALA , ADRIANA GABRIELA PLAIASU, CATALIN MARIAN DUCU, SORIN GEORGIAN MOGA, *Structural characterization of ZnO and Al doped ZnO powders synthesis in aqueous solutions*, REVISTA DE CHIMIE, Bucuresti, 70, No. 9 , 2019, pp.3232-3235, 2019, (TC_1_2019_DFMI)
19. ECATERINA MAGDALENA MODAN, ADRIANA GABRIELA PLAIASU, MARIA MAGDALENA DICU, MARIAN CATALIN DUCU, SORIN GEORGIAN MOGA, DUMITRU CHIRLESAN, *Morpho-structural and mechanical characterization of alloyed steel*, REV.CHIM.(Bucharest), 70, No. 11, 2019, pp. 3847-3850, 2019, (TC_1_2019_DFMI)
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21. Udrescu O, Plaiasu AG, Barbulescu CA, Ducu MC, Moga SG, Negrea DA, *ANALYSIS OF ARCHAEOLOGICAL SWORD MATERIALS FROM BURIDAVA SITE*, Journal of Sciences and arts, Issue 2, 483-496, 2022, 2022, (TC_1_2022_DFMI)
22. Modan E.M., Plaiasu A.G., *STRUCTURAL EVOLUTION IN IRON OXIDE TABLETS AT VIBRATION TESTING FOR CATALYTIC CONVERTERS*, Journal of Science and Arts, Issue 2, 497-506, 2022, 2022, (TC_1_2022_DFMI)
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24. OVIDIU VASILE UDRESCU, DENIS AURELIAN NEGREA, CONSTANTIN AUGUSTUS BARBULESCU, ADRIANA GABRIELA SCHIOPU, MARIAN CATALIN DUCU, SORIN GEORGIAN MOGA, *THE STRUCTURAL, MORPHOLOGICAL AND ELEMENTAL CHARACTERIZATION OF A SICA SCABBARD DISCOVERED AT BURIDAVA*, Journal of Science and Arts 23(1):251-262, FI 0,4, 2023, (TC_1_2023_DFMI)
25. A.G. Schiopu, M.Oproescu, V.G. Iana, C.M.Ducu, S.G. Moga, D.S. Vilcoci, G. Cirstea, V.M. Calinescu, O. Ahmed, *Synthesis and characterization of ZnO-nanostructured particles produced by solar ablation*, Materials 2023, 16(19), 6417; <https://doi.org/10.3390/ma16196417>, 2023, (TC_2_2023_DFMI)
26. MANAR ELSHAHAWY, AHMED ELNEMR, MIHAI OPROESCU, ADRIANA-GABRIELA SCHIOPU, AHMED ELGARAYHI, MOHAMMED M. ELMOGY, MOHAMMED SALLAH, *Melanoma Detection Based on a Hybrid YOLOv5 and ResNet Technique*, DIAGNOSTICS 13(17), DIAGNOSTICS 13(17), 2804, FI. 3.6, 2023, (TC_1_2023_DFMI)
27. MIRUNA-ADRIANA IOTA, LAURA-MĂDĂLINA CURSARU, ADRIANA-GABRIELA SCHIOPU, IOAN ALBERT TUDOR, ADRIAN-MIHAIL MOTOC, ROXANA MIOARA PITICESCU, *Fe3O4 Core-Shell Nanostructures with Anticancer and Antibacterial Properties: A Mini-Review*, Processes, 11(7), 1882, 2023, FI 3.5, 2023, (TC_1_2023_DFMI)
28. V.M. Calinescu, M. Oproescu, V.G. Iana , C.M. Ducu , A.-G. Schiopu, *Morphological Changes of Metal Oxides Through the Solar Physical Vapor Deposition Process*, Archives of Metallurgy and Materials, 2024 , vol. 69 , No 2 , pp. 535-540, DOI: 10.24425/amm.2024.149780, FI 0,7, 2024, (TC_2_2024_DFMI)
29. A.G. Schiopu, B.M. Girish, B.M. Satish, S. Shubha, *Wear and Hardness Characterization of Hot Forged Tungsten Carbide reinforced Aluminium 6061 Composite Materials*, ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, Volume 14, Issue 1, Page 12688-12693,, DOI 10.48084/etasr.6659, FI 1.5 (Q2), 2024, (TC_1_2024_DFMI)

30. B.S. Ainapure, B. Appasani, A.G. Schiopu, M. Oproescu, N. Bizon, *A Lightweight Deep Learning Model and Web Interface for COVID-19 Detection Using Chest X-Rays*, TRAITEMENT DU SIGNAL, Volume 41, Issue 1, pp. 313-322, feb.2024, DOI 10.18280/ts.410126, FI.1.9 (Q3), 2024, (TC_2_2024_DFMI)
31. M. Oproescu, A.G. Schiopu, V.M. Calinescu, V.G. Iana, N. Bizon, M. Sallah, *Influence of Supplementary Oxide Layer on Solar Cell Performance*, Engineering, Technology and Applied Science Research 14 (2), pp.13274, ISSN 22414487, DOI 10.48084/etasr.6879, F.I. 1.5 (Q2), 2024, (TC_1_2024_DFMI)
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34. E.M. Modan, A.G. Schiopu, C.M. Ducu, S.G. Moga, A.D. Negrea, M. Oproescu, V.G. Iana, A.M. Iota, O. Ahmed, *THE INFLUENCE OF PRECURSORS ON THE MORPHO-STRUCTURE OF ZINC OXIDE* 1 of 5 *THE INFLUENCE OF PRECURSORS ON THE MORPHO-STRUCTURE OF ZINC OXIDE*, JOURNAL OF SCIENCE AND ARTS, Vol. 24, Issue 2, Page 399-408, WOS: 001293006000015, DOI 10.46939/J.Sci.Arts-24.2-b01, FI 0.3 (Q3), autor corespondent, 2024, (TC_2_2024_DFMI)
35. ECATERINA-MAGDALENA MODAN, Catalin-Marian DUCU, SORIN-GEORGIAN MOGA, Denis-Aurelian NEGREA, ADRIANA-GABRIELA SCHIOPU, Omar Ahmed "ULTRASOUND AND MICROWAVE ASSISTED HYDROLYSIS OF NANOSTRUCTURED MAGNESIUM OXIDE FOR IMPREGNATION OF POLYESTER FIBRE FILTERS", UPB Scientific Bulletin, Series B: Chemistry and Materials Science (0.3 Q4), pg. 109-118, 2024, WOS:001380943500008, FI: 0.3

C2. Articole în volume indexate ISI Proceedings

1. D.C. ANGHEL, A.G. PLĂIAȘU, *Rapid prototyping - a method to improve the performances of design process*, MODTECH 2010: NEW FACE OF TMCR, PROCEEDINGS Book Series: Proceedings of the International Conference ModTech, MODTECH 2010, pag.47-50, 2010
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3. Marioara ABRUDEANU, Pierre PONTIAUX, Jean-Pierre MILLET, Adriana-Gabriela PLAIAȘU, Xavier BALANDRAUD, Michel GREDIAC, Juliette Huez, Sergiu STANCIU, Vasile RIZEA, Maria Magdalena DICU, *Romanian-French collaboration for Master and Doctoral studies in "Materials Engineering"*, Engineering Solutions and Technologies in manufacturing, Book Series: Applied Mechanics and Materials, Vol.697, pag.1083-1087 IMANE 2014, 2014, (TC_5_2014_DFMI)
4. Eduard Sebastian BARCA, Vasile RIZEA, Marioara ABRUDEANU, Adriana-Gabriela PLAIAȘU, Bogdan ISTRATE, Corneliu MUNTEANU, *A comparative study of morphology and composition on oxide nanopowders elaborated by SPVD*, Proceedings of the International Conference ModTech, MODTECH 2015, 2015, (TC_5_2015_DFMI)
5. Adriana-Gabriela PLAIAȘU, *The challenge to teach materials engineering*, Book Series: European Proceedings of Social/Behavioural Sciences, EpSBS, 2017, Vol.23, pag. 250-256, EDU WORD 7th INTERNATIONAL CONFERENCE 2016, 2017, (TC_4_2017_DFMI)
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8. Adriana-Gabriela Plaiasu, Mihai Oproescu, Daniel-Constantin Anghel, Alexandru Sirghie, Vasile Gabriel Iana, *Design of a mechatronic solution for the protection of personnel professionally exposed to SARS-*

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9. Mihai Oproescu, Adriana-Gabriela Plaiasu, Ionela Niculescu, Viorel Nicolae, *The challenges of the online teaching process - a short review*, 12th International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2020, 27 June -29 June, 2020, Pitesti, ROMÂNIA, ECAI Proceedings (ISSN 1843-2115), Proceedings of the 12th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2020, 2020, 9223204, 2020, (TC_1_2020_DFMI)

10. Plaiasu, Adriana-Gabriela; Oproescu, Mihai; Bulgaru Ionut; Duminica Delia; Niculescu, Ionela; Nicolae, Viorel, *Improving managerial skills for implementing innovations in education*, PROCEEDINGS OF THE 2020 12TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-2020)DOI 10.1109/ecai50035.2020.9223234, 2020, (TC_1_2020_DFMI)

11. Plaiasu, Adriana-Gabriela; Niculescu, Ionela; Soare, Emanuel, *CONTINUING EDUCATION - ALTERNATIVE FOR CAPITALIZING OF THE PROFESSIONAL DEVELOPMENT NEEDS OF TEACHERS*, 2020, (TC_1_2020_DFMI)

12. Oproescu M., Plaiasu A.G., Niculescu I., Nicolae V., Iana .G., Bulgaru I., *The Effect of Ensuring Ergonomic Learning Conditions in Technical University Education on the Engineering Profession*, Proceedings of the 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021 July 2021 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021Pitesti July 2021 through 3 July 2021, Code 171421, 2021, (TC_1_2021_DFMI)

13. Udrescu O., Plaiasu A.G., Barbulescu C.A., Ducu M.C., Moga S.G., Negrea D.A., *Corrosion of some military equipment and utensils discovered in the ancient site of Buridava*, Proceedings of the 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021 July 2021 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021Pitesti July 2021 through 3 July 2021, Code 171421, 2021, (TC_1_2021_DFMI)

14. Ghetea C., Moga S.G, Negrea D.A, Ducu M.C., Plaiasu A.G., *Methods for characterizing of materials from heritage paintings*, Proceedings of the 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021 July 2021 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021Pitesti July 2021 through 3 July 2021, Code 171421, 2021, (TC_1_2021_DFMI)

15. Oproescu M, Plaiasu A.G, Bizon N, Iana V.G, Toma D., *Oxygen Concentration Monitoring and Control in a Melted Lead Environment, Hardware concept and Implementation*, Proceedings of the 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021 July 2021 13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021Pitesti July 2021 through 3 July 2021 Code 171421, 2021, (TC_1_2021_DFMI)

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C3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. A.G. PLAIAȘU, *Synthesis of pallet shaped ZnO nanoparticles via an aqueous route*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, 2009, pag. 81, DOI: 10.15660/AUOFMTE.2009.1607, indexata ULRICHWEB, International Impact Factor Services, Cite Factor, 2009

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11. *Solutions for Critical Raw Materials Under Extreme Conditions (CRM-EXTREME)*, PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, Cod: COST Action CA15102, beneficiar: European Cooperation in science and Technology, anul: 2018, domeniul stiintific: Materials, valoare: 4500.00, 2018, 4500.00, (TC_6_2018_DFMI)

12. *Soutien aux formation francophones, MAster Science et Technologie des Materiaux*, PLAIASU ADRIANA GABRIELA, Cod: CE/LL/177/2016, beneficiar: UPIT, anul: 2018, domeniul stiintific: Soutien recherche, valoare: 8462.00, 2018, 8462.00, (TC_6_2018_DFMI)

13. *Solutions for Critical Raw Materials Under Extreme Conditions (CRM-EXTREME)*, PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, Cod: COST Action CA15102, beneficiar: European Cooperation in science and Technology, anul: 2019, domeniul stiintific: Materials, valoare: 4500.00, 2019, 4500.00, (TC_17_2019_DFMI)

14. *Open Innovation Competences for Responding to Modern Economic Challenges [OPI]*, PLAIASU ADRIANA GABRIELA, CHIRLESAN GEORGETA, CIUCUREL CONSTANTIN, FIANU SORIN, PLAIASU ADRIANA GABRIELA, GIOSANU DANIELA, GĂVAN Smaranda, BURCEA Carmen Andreea, POPESCU Cezar, POPESCU Angelica, Cod: Open Innovation Competences for Responding to Modern Economic Challenges [OPI], beneficiar: Comisia Europeană, anul: 2021, domeniul stiintific: Științe ale Educației, valoare: 253437.00, 2021, 253437.00, (TC_2_2021_DFMI)

15. *Synthesis and characterization of nanostructured magnesium oxide powders for composite layers/ SURF 1904040032*, PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, OPROESCU MIHAI, Cod: Horizon 2020/ Access SFERA III European project Grant 823802, beneficiar: Program Horizon 2020, anul: 2022, domeniul stiintific: Științe ingineresti / Stiinta materialelor, valoare: 130000.00, 2022, 130000.00, (TC_1_2022_DFMI)

16. *Nanostructured oxides layers by SPVD for enhance Solar Cell efficiency/ SURF 2201300023*, PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, Sorin Moga, OPROESCU MIHAI, IANA VASILE GABRIEL, Cod: Horizon 2020/ Access SFERA III European project Grant 823802, beneficiar: Program Horizon 2020, anul: 2022, domeniul stiintific: Științe ingineresti / Stiinta materialelor, valoare: 200000.00, 2022, 200000.00, (TC_1_2022_DFMI)

17. *Nanostructured oxides layers by SPVD for enhance Solar Cell efficiency/ SURF 2201300023*, ȘCHIOPU ADRIANA GABRIELA, ȘCHIOPU ADRIANA GABRIELA, IANA VASILE GABRIEL, Sorin Moga, OPROESCU MIHAI, Cod: Horizon 2020/ Access SFERA III European project Grant 823802, beneficiar: , anul: 2023, domeniul stiintific: Științe ingineresti / Stiinta materialelor, valoare: 200000.00, 2023, 200000.00, (TC_2_2023_DFMI)

F2. Granturi / proiecte câștigate prin competiție națională

1. , *Tehnologii inovative destinate imbunătățirii proprietăților de suprafață ale materialelor metalice, utilizate în producția de automobile*, TIMAT-AUTO, beneficiar Centrul de Cercetare pentru Materiale Avansate Pitești, perioada de derulare 2007-2010, 2009

2. , *Cercetarea și dezvoltarea unui reactor membrană pentru producerea hidrogenului ultrapur utilizabil în alimentarea pilelor de combustie*, ReMeHPC, beneficiar ICSI RM. Vâlcea, perioada de derulare 2007-2010., 2009

3. , *Convertor energetic regenerativ de tip electrolizor-pilă de combustie; proiectare arhitecturată și realizare*., CEREP, beneficiar ICSI RM. Vâlcea, perioada de derulare 2007-2010, 2009

4. , *Materiale noi, din compusi intermetalici, folosite ca ținte de iradiere pentru sursele de iridiu și cobalt, utilizate în scopul reducerii costurilor materiale și de execuție ale surselor*., IRCOAL, beneficiar SCN Pitești, perioada de derulare 2007-2010., 2009

5. PLAIASU ADRIANA GABRIELA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, NITU EDUARD LAURENTIU, IORDACHE DANIELA MONICA, VIERU IONEL, TABACU STEFAN LUCIAN, SICOE GINA MIHAELA, PLAIASU ADRIANA GABRIELA, *Implementarea tehnologiilor aditive în fabricarea componentelor complexe și suprasolicitate*”, Cod PN-III-P1-1.2-PCCDI-2017-0224, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul

1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării – INCDMTM, anul: 2018, domeniul științific: Tehnologii noi și emergente, valoare: 250793.00, 2018, (TC_8_2018_DFMI)

6. PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, NEGREA DENIS, PLAIASU ADRIANA GABRIELA, TOPALA CARMEN MIHAELA, TATARU LAVINIA DIANA, CLENCI ADRIAN CONSTANTIN, NICULESCU RODICA, VICTOR IORGA, *Materiale avansate si tehnologii laser/plasma de procesare pentru energie si depoluare: cresterea potentialului aplicativ si al interconectarii stiintifice in domeniul eco-nanotehnologiilor*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0755 Contract 46PCCDI/2018, beneficiar: INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI - INFLPR RA, anul: 2018, domeniul științific: , valoare: 334432.00, 2018, (TC_6_2018_DFMI)

7. PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, TOPALA CARMEN MIHAELA, TATARU LAVINIA DIANA, PLAIASU ADRIANA GABRIELA, NEGREA DENIS, *Proiect integrat de dezvoltare a unor tehnologii dedicate tratamentelor medicale avansate*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0728 Contract 63PCCDI/2018, beneficiar: INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI - INFLPR RA, anul: 2018, domeniul științific: Sanatate, valoare: 226000.00, 2018, (TC_6_2018_DFMI)

8. PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, TOPALA CARMEN MIHAELA, TATARU LAVINIA DIANA, NEBLEA MONICA ANGELA, MIHAESCU FLORINA CRISTINA, PLAIASU ADRIANA GABRIELA, NEGREA DENIS, *CREȘTEREA CAPACITĂȚII INSTITUȚIONALE DE CERCETARE – DEZVOLTARE- INOVARE ÎN DOMENIUL POMICULTURII ECOLOGICE*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0662, Contract nr. 12PCCDI/2018, beneficiar: INSTITUTUL DE CERCETAREDEZVOLTARE PENTRU POMICULTURA MARACINENI, anul: 2018, domeniul științific: , valoare: 160000.00, 2018, (TC_6_2018_DFMI)

9. PLAIASU ADRIANA GABRIELA, NEGREA DENIS, Mihaela Nastase, Sorin Moga, DUCU MARIAN CATALIN, PLAIASU ADRIANA GABRIELA, NICULESCU IONELA IOANA, TABACU STEFAN LUCIAN, RIZEA ALIN DANIEL, FIANU SORIN, SOARE LILIANA CRISTINA, SUTAN NICOLETA ANCA, Grecu Dorin, NIT, *Asigurarea funcționării în bune condiții a bazelor de practică pentru caracterizarea și expertizarea materialelor, proceselor și produselor, din cadrul Universității din Pitești (Prevăzut în FV pentru domeniul științific CNADCTCU)*, Cod: CNFIS-FDI-2018-0300, beneficiar: Universitatea din Pitesti, anul: 2018, domeniul științific: Asigurarea funcționării în bune condiții a grădinilor botanice universitare, a stațiunilor didactice, a bazelor de practică și a altor infrastructuri de susținere a activităților didactice, din cadrul universităților, valoare: 219000.00, 2018, (TC_6_2018_DFMI)

10. PLAIASU ADRIANA GABRIELA, GAVRILUTA CORNELIA ANA, PLAIASU ADRIANA GABRIELA, IORDACHE DANIELA MONICA, BELU NADIA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, ANGHEL DANIEL CONSTANTIN, NITU EDUARD LAURENTIU, *TEHNOLOGII DE FABRICARE INTELIGENTE PENTRU PRODUCTIA AVANSATĂ A PIESELOR DIN INDUSTRIILE DE AUTOMOBILE ȘI AERONAUTICĂ (TFI PMAIAA)*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacau, anul: 2019, domeniul științific: Tehnologii noi și emergente, valoare: 325181.00, 2019, (TC_16_2019_DFMI)

11. PLAIASU ADRIANA GABRIELA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, IORDACHE DANIELA MONICA, ANGHEL DANIEL CONSTANTIN, VIERU IONEL, TABACU STEFAN LUCIAN, NITU EDUARD LAURENTIU, PLAIASU ADRIANA GABRIELA, *Cercetări privind implementarea Inteligenței Artificiale în proiectarea componentelor de automobile, în vederea fabricației prin 3D Printing*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0224, beneficiar: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării – INCDMTM, anul: 2019, domeniul științific: Tehnologii noi și emergente, valoare: 200794.00, 2019, (TC_14_2019_DFMI)

12. PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, NEGREA DENIS, PLAIASU ADRIANA GABRIELA, TOPALA CARMEN MIHAELA, TATARU LAVINIA DIANA, CLENCI ADRIAN CONSTANTIN, NICULESCU RODICA, VICTOR IORGA, *Materiale avansate si tehnologii laser/plasma de procesare pentru energie si depoluare: cresterea potentialului aplicativ si al interconectarii stiintifice in domeniul eco-nanotehnologiilor*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0755 Contract 46PCCDI/2018, beneficiar: INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE

PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI - INFLPR RA, anul: 2019, domeniul stiintific: Eco, nano- tehnologii și materiale avansate, valoare: 334432.00, 2019, (TC_17_2019_DFMI)

13. PLAIASU ADRIANA GABRIELA, DUCU MARIAN CĂTĂLIN, Sorin Moga, TOPALA CARMEN MIHAELA, TATARU LAVINIA DIANA, PLAIASU ADRIANA GABRIELA, NEGREA DENIS, *Proiect integrat de dezvoltare a unor tehnologii dedicate tratamentelor medicale avansate*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0728 Contract 63PCCDI/2018, beneficiar: INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI - INFLPR RA, anul: 2019, domeniul stiintific: Sanatate, valoare: 226000.00, 2019, (TC_17_2019_DFMI)

14. PLAIASU ADRIANA GABRIELA, CHIRLESAN GEORGETA, FIANU SORIN, GIOSANU DANIELA, OPRESCU BENEDICT, PLAIASU ADRIANA GABRIELA, VALECA CRISTINA MONICA, VALECA SERBAN CONSTANTIN, *Activități de pregătire a realizării infrastructurii de cercetare ALFRED în România, PRO ALFRED*, Cod: Programul ALFRED, Competiția C1-2019, beneficiar: MECN, anul: 2019, domeniul stiintific: Energetică nucleară, valoare: 45000.00, 2019, (TC_1_2019_DFMI)

15. PLAIASU ADRIANA GABRIELA, CHIRLESAN DUMITRU, CHIRLESAN GEORGETA, FIANU SORIN, VALECA SERBAN CONSTANTIN, VALECA CRISTINA MONICA, GIOSANU DANIELA, OPRESCU BENEDICT, PLAIASU ADRIANA GABRIELA, *Activități de pregătire a realizării infrastructurii de cercetare ALFRED în România*, Cod: Ministerul Cercetării si Inovării prin Sub-Programul 5.5 – Program de cercetare, dezvoltare si inovare pentru reactori de Generatia a IV-a - ALFRED, Contract 5/18.09.2019, beneficiar: , anul: 2020, domeniul stiintific: , valoare: 0.00, 2020, (TC_1_2020_DFMI)

16. PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, RIZEA ALIN DANIEL, ANGHEL DANIEL CONSTANTIN, *Formarea adaptivă a materialelor compozite pentru reperele din industria de automobile*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2020, domeniul stiintific: Tehnologii noi și emergente, valoare: 5000.00, 2020, (TC_2_2020_DFMI)

17. PLAIASU ADRIANA GABRIELA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, IORDACHE DANIELA MONICA, ANGHEL DANIEL CONSTANTIN, TABACU STEFAN LUCIAN, NITU EDUARD LAURENTIU, PLAIASU ADRIANA GABRIELA, Besliu-Gherghescu Maria-Luiza, *Cercetări privind implementarea Inteligenței Artificiale în proiectarea componentelor de automobile, în vederea fabricației prin 3D Printing/Proiect complex: "Implementarea tehnologiilor aditive în fabricarea componentelor complexe și suprasolicitate"*, Cod: PCDDI, beneficiar: , anul: 2020, domeniul stiintific: Tehnologii noi și emergente, valoare: 238526.00, 2020, (TC_2_2020_DFMI)

18. PLAIASU ADRIANA GABRIELA, LĂNGA MARIUS CLAUDIU, STAN MARIA MAGDALENA, TUDOR SOFIA LOREDANA, LAZAR ADRIANA NICOLETA, BLOJU CRISTINA LOREDANA, DUMINICA DELIA RODICA, DINA AURORA TATIANA, SARBU LUIZA VENERA, STAN RUXANDRA VIORELA, BUCUROIU FLORENTINA, PETRES, *PROFESORI INOVATORI - STUDENTI ANTREPRENORI! (PISA)– COD 125202*, Cod: POCU/379/6/21, beneficiar: , anul: 2020, domeniul stiintific: Operațiune compozită OS. 6.7, 6.9, 6.10/21/Operațiune compozită OS. 6.7, 6.9, 6.10, valoare: 965457.00, 2020, (TC_2_2020_DFMI)

19. PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, RIZEA ALIN DANIEL, ANGHEL DANIEL CONSTANTIN, *TTFI PMAIAA-Proiectul component 2: Formarea adaptivă a materialelor compozite pentru reperele din industria de automobile*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: UEFISCDI, anul: 2021, domeniul stiintific: Tehnologii noi și emergente, valoare: 1000.00, 2021, (TC_11_2021_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*, , 2013, (TC_2_2013_DFMI)

2. Adriana-Gabriela Plaiasu, Marioara Abrudeanu, Maria Magdalena Dicu, *Caracterizare Probe metalografice*, Contract nr. 46/07.04.2014 Beneficiar S.C. Galvan Prodmed S.R.L. – responsabil contract, 2014, (TC_3_2014_DFMI)

3. PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, DUCU MARIAN CĂTĂLIN, *Analiză și testare probe*, Cod: contract mediu socio-economic, beneficiar: Institutul Național de

C-D pentru Metale Neferoase și Rare - IMNR, anul: 2017, domeniul științific: Eco-nanotehnologii și materiale avansate, valoare: 2000.00, 2017, (TC_4_2017_DFMI)

4. PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, *Caracterizare prin SEM a probelor*, Cod: contract mediu socio-economic, beneficiar: Institutul Național de C-D pentru Metale Neferoase și Rare, anul: 2017, domeniul științific: Eco-nanotehnologii și materiale avansate, valoare: 4500.00, 2017, (TC_4_2017_DFMI)

Data: 09.07.2025

Cadrul didactic ȘCHIOPU ADRIANA GABRIELA