

**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 2016 - 2025**

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

1. A. G. PLĂIAȘU, *Nanomateriale și nanotehnologii*, Editura Universității din Pitești, 2016/100, 978-606-560-945-7, 2016
2. R.N.Dobrescu, A. G. PLĂIAȘU, *Tratamente termice*, Editura Universității din Pitești, 159 pag., 2016, ISBN 978-606-560-474-2

**B5. Manuale didactice, suport de curs**

1. 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
2. A.G. Plaiasu, *Tehnologia materialelor*, fără ISBN, 100 pag, 2019
3. A.G. Plăiașu, R.N. Dobrescu, E.M. Modan, *Technologie des traitements thermiques et thermochimiques*, fără ISBN, 105 pag, 2019
4. Schiopu A.G., Oproescu M., *Inițiere în cercetare*, suport curs, 2024

**B6. Îndrumare de laborator, culegere de probleme**

1. 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
2. A.G. PLAIAȘU, 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
3. A.G. Plaiasu, R.N. Dobrescu, M.M. Modan, *Tratamente termice*, Ed. Universitații din Pitesti, e-ISBN 978-606-560-630-2, 2019
4. A.G. Plăiașu, *Nanomateriale și nanotehnologii*, fara ISBN, 80 pag., 2019
5. Adriana-Gabriela Plăiașu, Marian Cătălin Ducu, Aurelian Denis Negrea, Sorin Georgian Moga, Ecaterina Magdalena Modan, *Nanomateriale și materiale avansate*, Îndrumar de laborator, 2020, 2020
6. A.G. Schiopu, M.M. Dicu, *Știința și ingineria materialelor metalice*, Editura Universitatii Pitesti, ISBN 978-606-560-773-6, 121 pag., 2023

**C. Lucrări (articole) ISI / BDI publicate în perioada 2016 - 2025**

**C1. Articole în reviste cotate ISI Thomson Reuters**

1. E. S. Barca, A. G. PLĂIAȘU, M. Abrudeanu, B. Istrate, D. Luca, C. Munteanu, *Study of the plasma deposition of Al<sub>2</sub>O<sub>3</sub> 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,
2. E.S. Barca; L.C. Trinca, Filipescu, M.Dinescu, A.G. Plaiasu, M Abrudeanu, R. Leata, *Influence of CeO<sub>2</sub> 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
3. 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,

4. 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
5. 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
6. 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
7. 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,
8. 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
9. ECATERINA MAGDALENA MODAN, CATALIN MARIAN DUCU, CARMEN MIHAELA TOPALA, SORIN GEORGIAN MOGA, DENIS AURELIAN NEGREA, ADRIANA GABRIELA PLAIASU, *NANOSTRUCTURED IRON OXIDE POWDERS BY MICROWAVE ASSISTED SYNTHESIS*, Journal of Science and Arts Year 21, No. 4(57), pp. 1081-1094, 2021, 2021
10. 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
12. 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
13. Sorin Georgian Moga, Denis Aurelian Negrea Catalin Marian Ducu, Viorel Malinovschi, Adriana Gabriela Schiopu, Elisabeta Coaca, Ion Patrascu, *The Influence of Processing Time on Morphology, Structure and Functional Properties of PEO Coatings on AZ63 Magnesium Alloy*, Applied Sciences, 2022, 12(24), 12848; <https://doi.org/10.3390/app122412848>, 2022
14. 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
15. 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
16. 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
17. MIRUNA-ADRIANA IOTA, LAURA-MĂDĂLINA CURSARU, ADRIANA-GABRIELA SCHIOPU, IOAN ALBERT TUDOR, ADRIAN-MIHAIL MOTOC, ROXANA MIOARA PITICESCU, *Fe<sub>3</sub>O<sub>4</sub> Core–Shell Nanostructures with Anticancer and Antibacterial Properties: A Mini-Review*, Processes, 11(7), 1882, 2023, FI 3.5, 2023
18. V.M. Calinescu, M. Oproescu, V.G. Ian , 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
19. 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
20. 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

21. 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
22. A.G. Schiopu, M. Oproescu, V.G. Iana, S.G. Moga, D.A., Negrea, D.S. Vilcoci, G. Cirstea, C.M., Ducu, M.-A. Iota, *Characterization of Pure and Doped ZnO Nanostructured Powders elaborated in Solar Reactor*, Engineering, Technology and Applied Science Research 14 (2), pp.13502, 2024, ISSN 22414487, DOI 10.48084/etasr.6923, F.I.1.5 (Q2), 2024
23. A.G. Schiopu, D.M. Iordache, M. Oproescu, L.M. Cursaru, A.M. Iota, *Tailoring the Synthesis Method of Metal Oxide Nanoparticles for Desired Properties*, CRYSTALS, Volume 14, Issue 10, DOI 10.3390/cryst14100899, FI 2.4, (Q2), 2024
24. 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
25. 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
26. Elena Andreea Vijan; Ecaterina Magdalena Modan; Sorin Georgian Moga; Denis Aurelian Negrea, *Assisted Egg White Biogenic Synthesis for Elaboration of ZnO Nanoparticles*, Crystals 2025, 15(1), 71/DOI: [10.3390/cryst15010071](https://doi.org/10.3390/cryst15010071), 2025, FI 2.4, (Q2), 2025
27. Adriana-Gabriela Schiopu; Elena Andreea Vijan; Ecaterina Magdalena Modan; Sorin Georgian Moga; Denis Aurelian Negrea; Daniela Istrate; Georgiana Cirstea; Mihai Oproescu; Şaban Hakan Atapek, *Ovalbumin-Mediated Biogenic Synthesis of ZnO and MgO Nanostructures: A Path Toward Green Nanotechnology*, *Molecules* **2025**, 30(5), 1164; <https://doi.org/10.3390/molecules30051164>, FI 4.6, (Q1), 2025
28. Mihai Oproescu; Adriana-Gabriela Schiopu; Valentin-Marian Calinescu; Janusz D. Fidelus, *Enhanced Efficiency of Polycrystalline Silicon Solar Cells Using ZnO-Based Nanostructured Layers*, Crystals, 15(5), 398, <https://doi.org/10.3390/cryst15050398>, 2025, FI 2.4, (Q2), 2025
29. Adriana-Gabriela Schiopu; Mihai Oproescu; Alexandru Berevoianu; Raluca Mărginean; Laura Ionaşcu; Viorel Năstasă; Andra Dinache; Paul Mereuță; Kim KeunHwan; Daniela Istrate, Adriana-Elena Bălan, Stefan Mira, *Biogenic Synthesis of Calcium-Based Powders from Marine Mollusk Shells: Comparative Characterization and Antibacterial Potential*, Materials 2025, 18(14), 3331; <https://doi.org/10.3390/ma18143331>, FI 3.2 (Q2)
30. Daniela Istrate; Mihai Oproescu; Ecaterina Magdalena Modan; Sorin Georgian Moga; Denis Aurelian Negrea; Adriana-Gabriela Schiopu, *Nanoscale Nickel Oxide: Synthesis, Characterization, and Impact on Antibacterial Activity Against Representative Microorganisms*, ChemEngineering 2025, 9(4), 77; <https://doi.org/10.3390/chemengineering9040077>, FI 3.4 (Q2)
31. Miruna-Adriana Iota; Laura-Mădălina Cursaru; Ioan Albert Tudor; Marian-Nicolae Costea; Alexandru Cristian Matei; Dumitru Valentin Dragut; Roxana Mioara Piticescu; Adriana-Gabriela Şchiopu, *The Influence of Pressure on Magnetite–Zinc Oxide Synthesis in Hydrothermal Conditions*, Crystals 2025, 15(9), 829; <https://doi.org/10.3390/cryst15090829>, FI 2.4, (Q2)
32. Bogdan-Teodor Godea; Ana Gogorici; Daniela-Monica Iordache; Adriana-Gabriela Şchiopu; Daniel-Constantin Anghel; Marica Deaconu, *Modern Systems for Nuclear Fuel Storage and Monitoring: An Analysis of Technological Trends, Challenges, and Future Perspectives*, Energies 2025, 18(18), 5030; <https://doi.org/10.3390/en18185030>, FI 3.2 (Q3)
33. Adriana-Gabriela Schiopu; Maria-Ionela Popescu; Chaima Assamadi; Ecaterina Magdalena Modan; Sorin Georgian Moga; Denis Aurelian Negrea; Mihai Oproescu; Soumia Aboulhrouz; Hakima Aouad; Miruna-Adriana Iota, *Barium Carbonate Synthesized via Hydrolysis: Morphostructural Analysis and Photocatalytic Performance in Polymer and Geopolymer Matrices*, Crystals 2025, 15(10), 890; <https://doi.org/10.3390/cryst15100890>, FI 2.4 (Q2)

## C2. Article in volume indexed ISI Proceedings

1. 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
2. M.M. Stan, A.G. Plaiasu, *Determinants of learning motivation from the perspective of Self determination theory*, Published in: 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), DOI: 10.1109/ECAI46879.2019.9042147 Publisher: IEEE, 2019
3. Ungureanu, E , Anghel, DC, Negrea, D, Plaiasu, AG,; Rizea, V ; Dicu, MM , Ducu, CM Abrudeanu, M, *Influence of thermal shocks at high temperatures on microstructure and hardness of RENE 41 alloy*, INNOVATIVE MANUFACTURING ENGINEERING AND ENERGY (IMANEE 2019) - 50 YEARS OF HIGHER TECHNICAL EDUCATION AT THE UNIVERSITY OF PITESTI, Volume 564, DOI 10.1088/1757-899X/564/1/012046, 2019
4. 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-CoV-2 virus contamination*, 12th International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2020, 27 June -29 June, 2020, Pitesti, ROMÂNIA, ECAI Proceedings (ISSN 1843-2115), 2020
5. 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
6. 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
7. Plaiasu, Adriana-Gabriela; Niculescu, Ionela; Soare, Emanuel, *CONTINUING EDUCATION - ALTERNATIVE FOR CAPITALIZING OF THE PROFESSIONAL DEVELOPMENT NEEDS OF TEACHERS*, 2020
8. 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 2021 Pitesti 1 July 2021 through 3 July 2021, Code 171421, 2021
9. 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 2021 Pitesti 1 July 2021 through 3 July 2021, Code 171421, 2021
10. 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 2021 Pitesti 1 July 2021 through 3 July 2021, Code 171421, 2021
11. 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 2021 Pitesti 1 July 2021 through 3 July 2021 Code 171421, 2021
12. A.G. Schiopu, M. Oproescu, I. Bulgaru, O.C. Novac, M.C. Novac, G.V. Iana, *Formation of Specific Competences in the Engineering Career by Educational Software - methodological landmarks applied to the "Initiation in research" discipline*, 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), <https://ieeexplore.ieee.org/xpl/conhome/10193876/proceeding>, 2023

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

1. A. G. Plăiașu, N.–D. Stănescu, *Metal-Oxide Nanostructures*, NANO-POSTER 2016 – 6th Virtual Nanotechnology Poster, The International NanoScience Community, Nanopaprika, P16-18, 2016
2. S. Motoiu, A. Sobetkii, C.F. Rusti, M. Olaru, R.R. Piticescu, A. G. Plaiasu, A. Rinaldi, *PILOT E-BEAM PVD FACILITY OF NOVEL MATERIALS WITH APPLICATION AS FUNCTIONALLY GRADED MATERIALS*, October 2016, Conference: PRIORICHEM XII - 2016, 2016
3. D.M. Iordache, C.M. Ducu, E.L. Nițu, D. Iacomî, A.G. Plăiașu, *Preliminary study on the microstructure and mechanical properties of dissimilar joints of aluminum alloy and pure copper by FSW*, MATEC Web of Conferences 112, 04005, 2017
4. C. Tudora, M. Abrudeanu, S. Stanciu, D.C. Anghel, A.G. Plaiasu, V. Rizea, I. Stirbu, N. Cimpoesu, *Preliminary Results on Thermal Shock Behavior of CuZnAl Shape Memory Alloy Using a Solar Concentrator as Heating Source*, IOP Conf. Ser.: Mater. Sci. Eng., 374, 012024, 2018
5. A.-G. PLAIASU, M.C. Ducu, *Morphostructural Characterization of Zinc and Manganese Nano-Oxides*, Conference: ICMCTT 2018 : 20th International Conference on Materials Characterization Techniques and Testing, Istanbul, Turkey, World Academy of Science, Engineering and Technology, International Journal of Materials and Metallurgical Engineering, Vol:12, No:1, 2018, waset.org/abstracts/83988, dai.waset.org/1307-6892/83988, 2018
6. L.M. Popescu, A.G. Plaiasu, C.M. Ducu, R.M. Piticescu, I.A. Tudor, *Carbon Nanotube/Polyaniline composite films Prepared by hydrothermal- electrochemical method for biosensor applications*, October 2018, Conference: 2018 International Semiconductor Conference (CAS), 2018
7. C Tudora,, M Abrudeanu, S Stanciu , D Anghel , A . G. Plaiasu , V Rizea , I Știrbu , N Cimpoeșu, B Anton Prisacariu, *Heating to thermal shock of Cu-based SMA using a solar concentrator*, The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032014, 2018
8. Maria Magdalena Stan, Adriana-Gabriela Plăiașu, *A Study On The Relation Between Learning Styles And Students' Academic Engagement*, Volume LXVII, Pages 1- 2235 (2019), The European Proceedings of Social & Behavioural Sciences, EpSBS e-ISSN: 2357-1330, 2019
9. C. Tudora, M. Abrudeanu, S. Stanciu, D.C. Anghel, A.G. Plaiasu, V. Rizea, I. Stirbu, N. Cimpoesu, M. Coteata, *Preliminary results on microstructure profile of Cu-based shape memory alloy*, IOP Conference Series Materials Science and Engineering 572:012021, DOI: 10.1088/1757-899X/572/1/012021, 2019
10. E. M. Modan, C. M. Ducu, S. G. Moga, D.A. Negrea, A.G. Plaiasu, *Comparative analysis of the morphology of doped zinc and copper oxide nanopowders*, October 2019, IOP Conference Series Materials Science and Engineering 564:012045, 2019
11. E. Ungureanu, D.A. Anghel, D.A. Negrea, A. G. Plaiasu, V. Rizea, M.M. Dicu, C.M. Ducu, M. Abrudeanu, *Influence of thermal shocks at high temperatures on microstructure and hardness of RENE 41 alloy*, October 2019, IOP Conference Series Materials Science and Engineering 564:012046, 2019
12. Adriana Gabriela Plăiașu, Marian Cătălin Ducu, Sorin Georgian Moga, Aurelian Denis Negrea, Ecaterina Magdalena Modan, *Nanostructured transition metal oxides obtained by SPVD*, Manufacturing Review, Vol.7, nr.12, 2020
13. E.M. Modan, A.G. Plaiasu, *Review on the Elaboration and Morfo-Structural Characterization of Iron Oxide for Catalytic Applications*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 3 - 2019, ISSN 2668-4748; e-ISSN 2668-4756, 2020
14. E. M. Modan, A.G. Plaiasu, *Advantages and Disadvantages of Chemical Methods in the Elaboration of Nanomaterials*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 1 - 2020, ISSN 2668-4748; e-ISSN 2668-4756, 2020
15. Adriana-Gabriela Plaiasu, Mihai Oproescu, Ionut Bulgaru, Delia Duminica, Ionela Niculescu, Viorel Nicolae, *Improving managerial skills for implementing innovations in education*, Proceedings of the 12th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2020, 2020, 9223234, ECAI Proceedings (ISSN 1843-2115), 2020
16. Adriana-Gabriela Plaiasu, Ionela Niculescu, Emanuel Soare, *CONTINUING EDUCATION - ALTERNATIVE FOR CAPITALIZING OF THE PROFESSIONAL DEVELOPMENT NEEDS OF TEACHERS*, 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, 9223177, 2020

17. 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-CoV-2 virus contamination*, 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

18. MARIOARA ABRUDEANU, GABRIEL NEACȘU , ANDREEA ELENA ROȘU, IUSTIN-ALEXANDRU POPA, DANIEL-CONSTANTIN ANGHEL , VASILE RIZEA , DANIEL ALIN RIZEA , MIHAI BRANZEI , ADRIANA GABRIELA PLAIASU, LUMINITA CONSTANTINESCU, CĂTĂLIN-MARIAN DUCU, *The influence of thermal shock at high temperature on Zy-4 alloy*, Journal of Engineering Sciences and Innovation Volume 5, Issue 1 / 2020, pp. 21-32, B. Chemical Engineering, Materials Science and www.jesi.astr.ro Engineering , 2020

19. Modan E.M, Plaiasu A.G., *An overview on metal-oxide catalytic converters*, SCIENTIFIC BULLETIN Automotive series, 2021, <https://doi.org/10.26825/bup.ar.2020.002>

20. Patrascu I, Ducu M.C., Negrea D., Moga S.G., Plaiasu A.G., *Overview on plasma electrolytic oxidation of magnesium alloys for medical and engineering applications*, July 2022, IOP Conference Series Materials Science and Engineering 1251(1):012001, 2022

21. Oproescu M., Plaiasu .G., , Iana G.V., , Bulgaru I., Savulescu C., *Theory or practice - new trends in Engineering Career*, 2022 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), , 2022

22. M.A. Ioța, L.M. Cursaru, A.G. Șchiopu, R.M. Piticescu, *COMPOSITE NANOSTRUCTURES BASED ON METAL OXIDES FUNCTIONALIZED WITH ORGANIC COMPOUNDS WITH POTENTIAL IN CANCER THERAPY*, Book of 5th International Conference on Emerging Technologies in Materials Engineering EMERGEMAT, 2022

23. K, CHOUGRANI , A.G. SCHIOPU, M. CHOURAK, *Advanced Methods to Characterize the Structural Materials of Religious Buildings Construction*, Advanced Methods to Characterize the Structural Materials of Religious Buildings Construction. The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Metallurgy and Materials Science, Vol 46 No 2 (2023), DOI: <https://doi.org/10.35219/mms.2023.2.03>, 2023

24. N.T, CIOBANU, A.G. ȘCHIOPU, *Hydrogen Production and Solid-State Storage: A Review*, The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Metallurgy and Materials Science, Vol 46 No 3 (2023), 2023

25. A.G. Schiopu, M. Oproescu, G.V. Iana, *EMERGING OXIDES NANOPARTICLES: GROWTH MECHANISM, MORPHOLOGIES AND PROPERTIES*, Book of 6th International Conference on Emerging Technologies in Materials Engineering EMERGEMAT, 2023

26. M.A. Ioța, I.A. Tudor, L.M. Cursaru,, A.M. Mocioiu, A. Okos, A. C. Matei, N. Vitan, A.M. Motoc, A.G. Șchiopu, R. M. Piticescu, *RECENT ADVANCES IN SYNTHESIS OF ZnO NANOPARTICLES FOR MEDICAL APPLICATIONS*, Book of 6th International Conference on Emerging Technologies in Materials Engineering EMERGEMAT, pg.87, 2023

27. Alina Maria Iancu, Adriana-Gabriela Schiopu, *Metallic Oxide Pigments Analysis Applied in Painting Techniques*, 2025 17th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)

28. Andreea Elena Onache;Adriana-Gabriela Schiopu;Denis Aurelian Negrea;Sorin Georgian Moga;Ecaterina Magdalena Modan, *The Influence of Precursors in the Development of Zinc Oxide Nanopowder Using Ovalbumin From Chicken Eggs Raised in Poultry Farms*, 2025 17th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)

29. Andreea Elena Onache; Adriana-Gabriela Schiopu; Georgiana Cirstea, *Elaboration of ZNO Nanoparticles Using Egg White And Zinc Sulphate*, 2025 17th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)

30. Daniela Istrate; Ecaterina Magdalena Modan; Denis Aurelian Negrea; Adriana-Gabriela Schiopu *NiO Nanostructures Synthesis and Characterization for Functional Antibacterial Applications*, 2025 17th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)

31. Adriana-Gabriela Schiopu; Alexandru Berevoianu; Raluca Mărginean; Mihai Oproescu; Paul Mereuță; Kim KeunHwan; Valentin Bugăescu; Stefan Mira; Valorization of Biogenic Waste Shells:Mytilus Edulis and



**D. Lucrări (articole) publicate în perioada 2016 - 2025 în reviste și volume de conferințe cu referenți (neindexate)**

**D1. Articole în reviste**

1. R.E Breaz, M. Tera, V.A. Ciubotariu, V. Cohal, C. Maier, A. G. Plăiașu, *Single point incremental forming - comparison between technological equipment by an overall processing time point of view*, 27th International Conference on Manufacturing Systems, ICMaS 2018, București, Nov. 15-6, 2018, publicată în revista Proceedings in Manufacturing Systems, 2018

**D2. Articole în volumele manifestărilor științifice**

1. Apostol M., Constantin M., Diaconu D., Chirlesan D., Valeca C.V., Fianu S., Plaiasu A.G., Dupleac D., Tarantino M., Firpo G., *Competence building actions for ALFRED infrastructure*, JOURNAL OF NUCLEAR RESEARCH AND DEVELOPMENT, NO. 22, DECEMBER 2021, 14-19, 2021

**F. Granturi / proiecte de cercetare în perioada 2016 - 2025**

**F1. Granturi / proiecte câștigate prin competiție internațională**

1. *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

2. *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

3. *MASTER SCIENCE ET TECHNOLOGIE DES MATÉRIAUX*, cod CE//LL/177/2016, PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, Cod: SOUTIEN AUX FORMATIONS FRANCOPHONES, BUREAU EUROPE CENTRALE ET ORIENTALE, Agence Universitaire de la Francophonie, beneficiar: UPIT, anul: 2017, domeniul stiintific: SOUTIEN AUX FORMATIONS FRANCOPHONES, valoare: 19875.00, 2017

4. *THERMAL SHOCK AND FATIGUE ON SHAPE MEMORY ALLOY FROM CuZnAl and CuAlNi SYSTEMS – HTSMAs" TERMOMEM*, PLAIASU ADRIANA GABRIELA, ABRUDEANU MARIOARA, ANGHEL DANIEL CONSTANTIN, PLAIASU ADRIANA GABRIELA, RIZEA VASILE, Cod: Solar Facilities for European Research Area (SFERA): Transnational projects FP7, COMISIA EUROPEANĂ, beneficiar: PItaforma solar de Almeira -CIEMAT PSA /PROMES CNRS/UPit, anul: 2017, domeniul stiintific: Eco-nanotehnologii si materiale avansate, valoare: 36075.00, 2017

5. *Structural and elemental characterization of naturally occurring and artificial nano/microscale materials using modern investigation techniques*, PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, Sorin Moga, NEGREA DENIS, PLAIASU ADRIANA GABRIELA, Cod: IUCN Dubna, beneficiar: IUCN Dubna, anul: 2018, domeniul stiintific: , valoare: 13600.00, 2018, 13600.00

6. *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

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

8. *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

9. *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

10. *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

11. *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

12. *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,

## **F2. Granturi / proiecte câștigate prin competiție națională**

1. 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 Mecatronica și Tehnica Măsurării – INCDMTM, anul: 2018, domeniul stiintific: Tehnologii noi și emergente, valoare: 250793.00, 2018,

2. 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 și tehnologii laser/plasma de procesare pentru energie și depoluare: creșterea potențialului aplicativ și al interconectării științifice în 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 stiintific: , valoare: 334432.00, 2018

3. 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 stiintific: Sanatate, valoare: 226000.00, 2018

4. 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 stiintific: , valoare: 160000.00, 2018

5. 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 stiintific: 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

6. 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 Bacău, anul: 2019, domeniul științific: Tehnologii noi și emergente, valoare: 325181.00, 2019, (TC\_16\_2019\_DFMI)

7. 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

8. 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 și tehnologii laser/plasma de procesare pentru energie și depoluare: creșterea potențialului aplicativ și al interconectării științifice în 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 ȘI RADIATIEI - INFLPR RA, anul: 2019, domeniul științific: Eco, nano- tehnologii și materiale avansate, valoare: 334432.00, 2019

9. 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 ȘI RADIATIEI - INFLPR RA, anul: 2019, domeniul științific: Sanatate, valoare: 226000.00, 2019

10. 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 științific: Energetică nucleară, valoare: 45000.00, 2019

11. 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 și Inovării prin Sub-Programul 5.5 – Program de cercetare, dezvoltare și inovare pentru reactori de Generația a IV-a - ALFRED, Contract 5/18.09.2019, beneficiar: , anul: 2020, domeniul științific: 2020

12. 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 științific: Tehnologii noi și emergente, valoare: 5000.00, 2020

13. 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: PCCDI, beneficiar: , anul: 2020, domeniul științific: Tehnologii noi și emergente, valoare: 238526.00, 2020

14. PLAIASU ADRIANA GABRIELA, LANGA 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

15. 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

### **F3. Contracte de cercetare cu mediul socio-economic**

1. PLAIASU ADRIANA GABRIELA, PLAIASU ADRIANA GABRIELA, DUCU MARIAN CATALIN, *Analiză și testare probe*, Cod: contract mediu socio-economic, beneficiar: Institutul Național de C-D pentru Metale Neferoase și Rare - IMNR, anul: 2017, domeniul stiintific: Eco-nanotehnologii și materiale avansate, valoare: 2000.00, 2017
2. 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 stiintific: Eco-nanotehnologii și materiale avansate, valoare: 4500.00, 2017

**Data: 25.11.2025**

**Cadrul didactic ȘCHIOPU ADRIANA GABRIELA**