

PERSONAL INFORMATION



Alexandru PASCU



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Sex | Date of birth | Nationality Romanian

WORK EXPERIENCE

October 2015 - present

Full Professor, Associate professor (2017 - 2021), Lecturer (2015 - 2017)

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov, 1 Universităţii street, Room A II 1 Braşov. <https://sim.unitbv.ro/>

- Dean of the Faculty of Materials Science and Engineering (2024 -)
- PhD coordinator in Industrial engineering field
- Head of the research center Advanced Welding Eco-technologies
- Erasmus coordinator of the Faculty of Materials Science and Engineering
- Teaching courses related with Materials science, Robotics, Welding Engineering and research activities in the field of Industrial Engineering

Business or sector Education and Research

2005-2008

Production engineer (Buses department)

S.C. ROMAN SA, No. 5, Poienelor, 500036, Braşov, Romania

- Responsible with welding, design and construction of prototype components in buses manufacturing department;
- Organization of work routines and production schedule;
- Optimisation of production flow;
- Identification of suppliers and acquisition of raw material and consumables for mass production.

Business or sector Automotive industry

EDUCATION AND TRAINING

April 2014 – October 2015

Postdoctoral

EQF level 8

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Fundamental scientific research in the field of laser cladding.

October 2008 – September 2011

Doctor of Philosophy in Industrial Engineering

EQF level 8

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Laser welding technology;
- Thesis title: *Improving or reconditioning metallic surfaces trough coaxial laser cladding with high-alloyed powders.*

October 2009 – September 2011

Master of Science in Laser Technology

EQF level 7

E.T.S. de Ingenieros Industriales, Universidad Politécnica de Madrid, Spain

- Laser physics and industrial applications of laser technology;
- Laser welding, cladding and cutting processes.
- Laser micro-processing of advanced materials.

October 2005 – October 2007

Master of Science in Welding Engineering

EQF level 7

Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Materials science, conventional and advanced welding technologies.

October 2000 – June 2005

Bachelor of Science in Engineering

EQF level 6

Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Materials science, welding techniques, welding equipment
- WPS – Welding Procedure Specifications.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/2	C1/2	C1/2	B1/2	C1/2
Spanish	C1/2	B1/2	B1/2	B1/2	B1/2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Vice Dean of the SIM Faculty 2019 – 2024;
- Member of the Materials Engineering and Welding Department Council 2018 – present;
- Member in the Board of the Faculty of Materials Science and Engineering;
- President of the Brasov Branch within ASR – Romanian Welding Association;
- Participation in national and international scientific research projects;
- Experience in organizing international conferences, seminars, and workshops;
- Ability to strategically allocate resources to maximize research and development activities;
- Ability to assess and improve the quality of academic and research programs.

Job-related skills

- Engineering – Welding engineering and technology;
- Research – member in 3 national and 6 international research grants;
- Design – Welding technology and procedures;
- Competence in the design, welding process selection and operation of welding equipment, automation, robotics and welding process integration in complex manufacturing systems;
- Familiar with complex tasks and multitasking in the industrial production area

Computer skills

- Hardware knowledge
- Good knowledge of Microsoft Office™ tools (Word™, Excel™, PowerPoint™ and Outlook™)
- Digital image processing - CorelDraw™, PhotoShop™
- Programming –Pascal
- 3D modelling – SolidWorks™
- FEA – COSMOS™, SYSWELD™.

Other skills

- CNC machine operator-programmer (Haemmerle);
- Operator-programmer of industrial robots;
- Skills in MIG/MAG, TIG, MMA welding;
- Flame coating;
- Laser welding and cladding;
- Related skills in research in the field of laser processing, laser spectroscopy, materials science, surface engineering, advanced materials testing, etc.

Driving license

Category B (2000), Category A (2008)

ADDITIONAL INFORMATION

Publications

- Publication of 8 books and more than 60 scientific papers in technical journals;

Projects

- Director of the international ERASMUS+ project 2023-1-RO01-KA220-HED-000159985, titled: Smart Healthcare Engineering;
- Director of 4 international projects under EU-DG RTD Solar Facilities for the European Research Area | SFERA (France, Italy);
- Member of the research team for 8 projects under EU-DG RTD Solar Facilities for the European Research Area | SFERA (Spain, Italy);
- Member of the research team for two international research projects with the business environment (Delft Enterprises B.V. and Technische Universiteit Delft);
- Member of the research team for 4 national contracts.

National and international visibility

- Evaluator for ARACIS, RNE C10. ENGINEERING SCIENCES I
- Reviewer for Web of Science indexed journals: Applied Surface Science, Journal of Spectroscopy, Solar Energy Journal, Journal of materials science, Materials, Coatings;
- Chairman of the international conference BRAMAT 2024 13th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING;
- Member of the scientific committee of The Second International Symposium on Modern Engineering Equipment and Technology 2023;
- Member of the organizing committee of conferences, ESTAC12 12th European Symposium on Thermal Analysis and Calorimetry – 2018 and BRAMAT 2017, 2019, 2022;
- Key-note speaker at the 8th Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering – October 7th, 2019;
- Research activities in international laboratories such as: Centro Laser at the Polytechnic University of Madrid, IPCC and Nanoscience and Nanomaterials Lab. at the University of Las Palmas de Gran Canaria, ENEA at the Italian National Agency for New Technologies, Energy and the Environment, PROMES at the Institute of Engineering and Systems Sciences (INSIS), PSA at the Centre for Energy, Environment and Technology Research.
- Participation in numerous national and international conferences in the technical field.

Distinctions

- Gold medal at the 8th European Exhibition of Creativity and Innovation with handbook entitled *Materials Science and Engineering*;
- Patent, No. 133180/30.08.2022, FeCrAl(Y) type alloys and method for obtaining a product from this alloy, V. Geanta, I. Voiculescu, R. Ștefănoiu, V. Fugaru, E.M. Stanciu, A. Pascu, C. Postolache, M.R. Ioan.

Annexed Publication list from 2010 - 2025

Date: 01.12.2025

Signature

PUBLICATIONS LIST

PhD THESIS

Title: Improvement of mechanical properties of automotive parts through laser cladding

Domain: Industrial engineering

Thesis supervisor: Prof. Dr. Ing. Iovanaș Radu

Public defence 07.09.2011, Transilvania University of Brasov, Faculty of Materials Science and Engineering.

PATENTS

Patent, No. 133180/30.08.2022, FeCrAl(Y) type alloys and method for obtaining a product from this alloy, V. Geanta, I. Voiculescu, R. Ștefănoiu, V. Fugaru, E.M. Stanciu, A. Pascu, C. Postolache, M.R. Ioan.

BOOKS / BOOK CHAPTERS

1. **PASCU Alexandru**, *Procesul de depunere cu laser si pulberi*, Publisher LuxLibris, ISBN 978-973-131-232-3, **2013**
2. STANCIU Elena Manuela, **PASCU Alexandru**, *Sudarea cu laser*, Publisher LuxLibris Brașov, ISBN 978-973-131-304-4, **2014**
3. **PASCU Alexandru**, *Parameters of the laser cladding process*, Publisher LuxLibris Brașov, ISBN 978-973-131-344-3, **2015**
4. **PASCU Alexandru**, *Recondiționarea cu laser: baze teoretice și aplicații industriale*, Printech București Publisher, ISBN 978-606-23-0689-2, **2016**
5. **PASCU Alexandru**, *Programarea și manipularea roboților pentru sudare*, LuxLibris Brașov Publisher, ISBN 978-973-131-372-6, **2017**
6. **PASCU Alexandru**, Croitoru Cătălin, *Managementul proiectelor de cercetare : manual de seminar*, Publisher LuxLibris, ISBN 978-973-131-429-7, **2019**
7. VOICULESCU Ionelia, VASILE Ion Mihai, **PASCU Alexandru**, STANCIU Elena Manuela, *Materiale și tratamente termice pentru structuri sudate*, Publisher Printech București, ISBN 978-606-23-0690-8, **2016**
8. VOICULESCU Ionelia, VASILE Ion Mihai, STANCIU Elena Manuela, **PASCU Alexandru**, *Știința și Ingineria Materialelor*, Publisher LuxLibris Brașov, ISBN 978-973-131-316-0, **2015**

JOURNAL ARTICLES (selection)

ISI THOMSON REUTERS

1. I. Hulka, A. Pascu, D. Cuculea, *Effect of Laser Power on the Microstructure and Corrosion Resistance of NiCrBSi (Nb) Laser Clad Coatings*, **Crystals**, 15, 758, 2025
2. G. C. Iatan, D. C. Cuculea, G. Ardelean, E. M. Stanciu, A. Pascu, *Optimization of Pulsed Laser Cladding for Reconditioning of Ni-Al-Bronze (NAB) Marine Propeller*, **Materials**, 18, 8, 4301, 2025
3. I.M. Anghel, A. Pascu, I. Hulka, D. H. Woelk, I. D. Uțu, G. Mărginean, *Characterization of Cobalt-Based Composite Multilayer Laser-Cladded Coatings*, **Crystals**, 15, 11, 970, 2025.
4. C. Nicolescu, T. V. Tiganescu, A. Antoniac, O. Iorga, B. Ghiban, A. Pascu, A. Streza, I. Antoniac, *Mechanical Properties and Ballistic Performance for Different Coatings on HARDOX 450 Steel for Defense Applications*, **Crystals**, 15, 8, 687, 2025
5. I. M. Anghel, I. D. Uțu, A. Pascu, I. Hulka, D. Horst Woelk, G. Mărginean, *Microstructure and properties of Co based laser cladded composite coatings*, *Materials Testing* 2024, 1-10, 2024.
6. E.M. Stanciu, **A. Pascu**, C. Croitoru, I. C. Roata, D. Cristea, M.H. Tiorean, I. Hulka, I.M. Petre, J. C. Mirza Rosca, *Functional Surfaces via Laser Processing in Nickel Acetate Solution*, **Materials**, 16, 3087, 2023. **Q1** WOS:000976464500001
7. A.C. Mocanu, F. Miculescu, G. E. Stan, T. Tite, M. Miculescu, M. H. Tiorean, **A. Pascu**, R.C. Ciocoiu, T. M. Butte, L.T. Ciocan, *Development of ceramic coatings on titanium alloy substrate by laser cladding with pre-placed natural derived-slurry: Influence of hydroxyapatite ratio and beam power*, **Ceramics International**, 49, 7, 10445-10454, 2023. **Q1** WOS:000944679300001
8. Mocanu A.-C., Miculescu F., Stan G.E., Pasuk I., Tite T., **Pascu A.**, Butte T.M., Ciocan L.-T., *Modulated Laser Cladding of Implant-Type Coatings by Bovine-Bone-Derived Hydroxyapatite Powder Injection on Ti6Al4V Substrates*, **Materials**, 15 (22), art. no. 7971, 2022. **Q1** WOS:000887357500001

9. E.R. Moldovan, C.C. Doria, J.L. Ocana, B. Istrate, N. Cimpoesu, L.S. Baltes, E.M. Stanciu, C. Croitoru, **A. Pascu**, C. Munteanu, M.H. Tierean, *Morphological Analysis of Laser Surface Texturing Effect on AISI 430 Stainless Steel*, **Materials**, 15(13), 4580, 2022. FI 3.748. Q1 WOS:000824045100001
10. E.R. Moldovan, C.C. Doria, J.L. Ocana, L.S. Baltes, E.M. Stanciu, C. Croitoru, **A. Pascu**, I.C. Roata, M.H. Tiereanu, *Wettability and Surface Roughness Analysis of Laser Surface Texturing of AISI 430 Stainless Steel*, **Materials**, 15(8), 2955, 2022. FI 3.748. Q1 WOS:000787465000001
11. E.R. Moldovan, C.C. Doria, J.L.O. Ocana Moreno, L.S. Baltes, E.M. Stanciu, C. Croitoru, **A. Pascu**, M.H. Tierean, *Geometry characterization of AISI 430 stainless steel microstructuring using laser*, **Archives of Metallurgy and Materials**, 67(2), pp 645-652, 2022. WOS:000813491700008
12. D.N. Avram, C.M. Davidescu, M.L. Dan, J.C. Mirza-Rosca, I. Hulka, **A. Pascu**, E.M. Stanciu, *Electrochemical Evaluation of Protective Coatings with Ti Additions on Mild Steel Substrate with Potential Application for PEM Fuel Cells*, **Materials**, 15, 5364, 2022. FI 3.748. Q1 WOS:000838943600001
13. D.N. Avram, C.M. Davidescu, I. Hulka, M.L. Dan, E.M. Stanciu, **A. Pascu**, J.C. Mirza-Rosca, *Corrosion behavior of coated low carbon steel in simulated PEMFC environment*, **Materials** 2023, 16, 3056. Q1 WOS:000976988300001
14. **Pascu A.**, Stanciu E.M., Croitoru C., Roată I. C., Tierean M.H., Mirza Rosca J., Cimpoesu N., Bogatu C., *Pulsed laser cladding of NiCrBSiFeC hardcoatings using single-walled carbon nanotubes additives*, **Journal of Nanomaterials** 2019, 1-12, 2019. IF 2.23 WOS:000487080800001
15. **Pascu A.**, Stanciu E.M., Croitoru C., Roată I. C., Tierean M.H., *Carbon nanoparticle-supported Pd obtained by solar physical vapor deposition*, **Advances in Materials Science and Engineering** 2018, 1-7, 2018. IF 1.29 WOS:000426193300001
16. Roată I. C., Croitoru C., **Pascu A.**, Stanciu E.M., Hulka I., Petre I., Gabor C., Patroi D., Sbarcea B-G, Maior I., *Surface engineering of Ni-Al coatings through concentrated solar heat treatment*, **Applied surface science** 506, 144185, 2020. IF 6.18 (Q1) WOS:000512983600137
17. Croitoru C., Roată I. C., **Pascu A.**, Stanciu E.M., Hulka I., Stoian G., Lup N., *Photocatalytic surfaces obtained through one-step thermal spraying of titanium*, **Applied surface science** 504, 144173, 2020. IF 6.18 (Q1) WOS:000502040600179
18. Croitoru C., Roată I. C., **Pascu A.**, Stanciu E.M., Hulka I., Stoian G., Lup N., *Diffusion and Controlled Release in Physically Crosslinked Poly (Vinyl Alcohol)/lota-Carrageenan Hydrogel Blends*, **Polymers** 2020, 12, 1544, 2020. IF 3.42 (Q1) WOS:000558033000001
19. **Pascu A.**, Stanciu E.M., Roată I. C., Hulka I., Uțu D., Maior I., *Influence of the laser cladding parameters and solar heat treatment on the properties of biocompatible Inconel 718 coatings*, *Revista Română de Materiale / Romanian Journal of Materials* 2017, 47 (2), 157 – 165, 2017. IF 0.66 WOS:000404823800006
20. Roată I. C., Croitoru C., **Pascu A.**, Stanciu E.M., *Photocatalytic coatings via thermal spraying: a mini-review*, **AIMS Materials Science** 6 (3), 335–353, 2019. WOS:000471016400003
21. Stanciu E.M., **Pascu A.**, Roată I.C., Croitoru C., Tierean M., Rosca J. Mirza, Hulka I., *Solar radiation synthesis of functional carbonaceous materials using Al₂O₃/TiO₂-Cu-HA doped catalyst*, **Applied Surface Science** 438, 33–40, 2018. IF 5.15 (Q1) WOS:000425731200005
22. Stanciu E.M., **Pascu A.**, Tierean M.H., Roata I.C., Voiculescu I., Hulka I., Croitoru C., *Dissimilar laser welding of AISI 321 and AISI 1010*, **Technical Gazette** 25 (2), 344-349, 2018. IF 0.72 WOS:000430936800006
23. Croitoru C., Spirchez C., Lunguleasa A., Cristea D., Roata I.C., Pop M. A., Bedo T., Stanciu E.M., **Pascu A.**, *Surface properties of thermally treated composite wood panels*, **Applied Surface Science** 438, 114–126, 2018. IF 5.15 (Q1) WOS:000425731200013
24. Roată I. C., Croitoru C., **Pascu A.**, Stanciu E.M., *Characterization of physically crosslinked ionic liquid-lignocellulose hydrogels*, **BioResources** 13(3), 6110-6121, 2018. IF 1.39 (Q2) WOS:000440506300095
25. Roată I. C., Croitoru C., **Pascu A.**, Stanciu E.M., *Photocatalytic performance of copper-based coatings deposited by thermal spraying*, **Journal of Materials Science: Materials in Electronics**, 29, (13), 11345–11357, 2018. IF 2.19 (Q2)

WOS:000435588600069

26. Croitoru, A.M. Varodi, M.C. Timar, I.C. Roata, E.M. Stanciu, **A. Pascu**, *Wood-plastic composites based on HDPE and ionic liquid additives*, **Journal of Materials Science** 53 (6), 4132–4143, 2018, **IF 3.4 (Q2)**
WOS:000418294200017
27. Genta V., Voiculescu I., Stefanoiu R., Jianu A., Milosan I., Stanciu E.M., **Pascu A.**, Vasile I.M., *Titanium influence on the microstructure of FeCrAl alloys used for 4R generation nuclear power plants*, **REV.CHIM.** 70 (2), 549 – 554, 2019. **IF 1.60**
WOS:000461982200038
28. **Pascu A.**, Stanciu E.M, Voiculescu I., Tiorean M.H., Roata I.C., Ocana J.L., *Chemical and mechanical characterization of AISI 304 and AISI 1010 laser welding*, **Materials and Manufacturing Processes** 31 (3), 311–318, 2016. **IF 2.27**
WOS:000365670400008
29. Stanciu E.M, **Pascu A.**, Tiorean M.H., Voiculescu I., Roata I.C., Croitoru C., Hulka I., *Dual coating laser cladding of NiCrBSi and Inconel 718*, **Materials and Manufacturing Processes** 31 (12), 1556-1564, 2016. **IF 2.27**
WOS:000381388400003
30. Hulka I., Serban V.A., Utu D., Duteanu N.M, **Pascu A.**, Roată I.C., *Corrosion resistance of laser clad NiCrBSi composite coatings*, **Studia UBB Chemia LX**, (4), 173-184, 2015. **IF 0.191**
WOS:000369162600016
31. Hulka I., Serban V.A., Utu D., Duteanu N.M, **Pascu A.**, Roată I.C., Maior I., *Wear resistance of laser cladding NiCrBSi composite coatings*, **Romanian Journal of Materials**, 46 (1), 49 – 54, 2016. **IF 0.563**
WOS:000372938400007
32. **Pascu A.**, Stanciu E.M., Savastru D., Geanta V., Croitoru C., *Optical and microstructure characterisation of ceramic – hydroxyapatite coating fabricated by laser cladding*, **Journal of Optoelectronics and Advanced Materials** 19, (1-2), 66-72, 2017. **IF 0.39**
WOS:000400880700010
33. **Pascu A.**, Iovanas R., Iordachescu D., Cuesta A., *Effects of the laser beam intensity on the clad layer geometry and microstructure*, Conferința Internațională Bramat 2011, **Revista Metalurgia International**, 16 (5), 125-128, 2011. **IF 0.08**
WOS:000289606200028
34. Roată I. C., Iovănaș R., **Pascu A.**, *Influence of the metallizing distance variation and of the electric field voltage on the ohmic resistance of the layers deposited by thermal spraying*, **Revista Metalurgia International** 6, 73-76, 2013. **IF 0.08**
WOS:000315835600016
35. Staicu A.R., Iovanas R, Iovanas D.M., **Pascu A.**, Pop A., *Laser cladding of Ni based CW composite powder*, **Revista Metalurgia International** 6, 147-150, 2013. **FI 0.134**
WOS:000315835600032

INTERNATIONAL DATA BASE

36. Croitoru C., Giubega A., Patachia S., Baltas L., **Pascu A.**, Roata I., Tiorean M., *State of the art in calcite and polyolefins recycling*, **Bulletin of the Transilvania University of Brasov** 9 (58) (1), 35-40, 2016.
37. Pascu A., Stanciu E. M., Roată I., Croitoru C., Tiorean M., Hulka I., Mirza Rosca J., *Reconditioning of compression moulds by laser cladding*, **Annals of Faculty of Engineering Hunedoara – International Journal of Engineering XVII** (4), p. 41-44, (2019).
38. Croitoru C., Patachia S., **Pascu A.**, Roata I.C., *Obtaining and Characterization of novel wood-polypropylene Composites*, **PRO LIGNO Journal** 12, (3), 28-33, 2016.
39. **Pascu A.**, Stanciu E.M., Roata I., Croitoru C., Baltas L., Tiorean M., *Parameters and behaviour of NiCrFeSiB Laser cladding in overlapped geometry*, **Bulletin of the Transilvania University of Brasov** 9 (58) (2), 9-16, 2016.
40. **Pascu A.**, Iovănaș R., Iordăchescu D., Petre D., Stanciu E.M., Roată I.C., *Effects of the cladding speed on the clad layer geometry*, **Proceedings of 21th DAAAM International Symposium**, ISSN 1726-9679, 767-768, 2010.
41. Stanciu E.M., Dumitru G.M, Pavalache A.C., **Pascu A.**, Apostol G., Petre D. *Keyhole formation during laser welding*, **Proceedings of 21th DAAAM International Symposium**, ISSN 1726-9679, 1087-1088, 2010.

42. Petre D., Iovănaș R., Petre I.M., Roată I.C., **Pascu A.**, *Experimental researches regarding the fusion of the deposit layer by metallization with flame and powder using wig method*, Annals of **DAAAM** for 2010 & Proceedings of 21th DAAAM International Symposium, ISSN 1726-9679, 1123-1124, 2010.
43. **Pascu A.**, Iovănaș R., Petre D., Roată I., *Industrial application of high power diode pumped solid state laser for welding technology*, **Bulletin of the Transilvania University of Brasov**, 175 – 179, 2010.
44. Petre D., Iovănaș R., **Pascu A.**, *Studies on the applicability of the high velocity thermal spray used in the automotive industry*, **Bulletin of the Transilvania University of Brasov**, 186-190, 2010.
45. Petre I. M., Deaconescu T., Petre D., Deaconescu A., **Pascu A.**, *Theoretical researches regarding finite element analysis of MAS-20-750N-AA-MC-O-ER-BG pneumatic muscle* Annals of **DAAAM** for 2010 & Proceedings of 21th DAAAM International Symposium, ISSN 1726-9679, 1175-1176, 2010.
46. Roată I.C., Stanciu E.M., **Pascu A.**, *Microstructure evaluation of stainless steel welds*, **Revista RECENT** 16, (2) (45), 126-129, 2015.
47. Stanciu E.M., **Pascu A.**, Roată I.C., *Laser welding of austenitic stainless steel thin sheets*, **Revista RECENT** 16, (2) (45), 137-141, 2015.
48. **Pascu A.**, Stanciu E.M., Roată I.C., *Laser cladding of Metco 68F-NS-1 cobalt based powder*, **Revista RECENT** 16, (2) (45), 115-118, 2015.

PAPERS IN INTERNATIONAL CONFERENCES

ISI THOMSON REUTERS

49. Croitoru C., **Pascu A.**, Roata I. C., Stanciu E. M., *Obtaining and characterization of polyolefin-filled calcium carbonate composites modified with stearic acid*, **IOP Conf. Ser.: Mater. Sci. Eng.** 209, 012041, 2018.
WOS:000423732100041
50. Roata I. C., **Pascu A.**, Croitoru C., Stanciu E. M., Pop M. A., *Thermal spraying of CuAlFe powder on Cu5Sn alloy*, **IOP Conf. Ser.: Mater. Sci. Eng.** 209, 012042, 2018.
WOS:000423732100042
51. Stanciu E. M., **Pascu A.**, Gheorghiu I., *CMT welding of low carbon steel thin sheets*, **IOP Conf. Ser.: Mater. Sci. Eng.** 209, 012051, 2018.
WOS:000423732100051
52. Croitoru C., Roata I. C., **Pascu A.**, Stanciu E. M., *Ionic liquid surface treatment of calcite for improved compatibility with polyolefin matrix*, **IOP Conf. Ser.: Mater. Sci. Eng.** 209, 012052, 2018.
WOS:000423732100052
53. **Pascu A.**, Stanciu E. M., Croitoru C., Roată I. C., Tiorean M. H., *Pulsed laser cladding of ni based powder*, **IOP Conf. Ser.: Mater. Sci. Eng.** 209, 012058, 2018.
WOS:000423732100058
54. Roată I.C., **Pascu A.**, Stanciu E.M., *Influence of the electric field voltage on the microhardness of the layers coated by thermal spraying*, **Solid State Phenomena** 216, 316-321, 2014.
WOS:000347924100055
55. Stanciu E.M., **Pascu A.**, Roată I.C., *Edge fillet laser welding of aisi 304 stainless steel*, **Solid State Phenomena** 216, 304-309, 2014.
WOS:000347924100053
56. Hanea M.E., Iovănaș R., **Pascu A.**, Roată I.C., *Smart mobile workstation used to transmit data for non-destructive testing of pipelines welded joints*, **Solid State Phenomena** 216, 279-282, 2014.
WOS:000347924100048
57. Ceorapin C.G., Iovănaș R., Voiculescu I., Iovănaș D.M., **Pascu A.**, *Spot welding electrodes with the active area achieved by cladding with MMA welding*, Proceedings of 20th DAAAM International Symposium, ISBN 978-3-901509-70-4, 2009.
WOS:000282335600681

OTHER PAPERS / RELEVANT ACHIEVEMENTS

RESEARCH GRANTS

GRANT DIRECTOR

1. Director of the international ERASMUS+ project 2023-1-RO01-KA220-HED-000159985, titled: Smart Healthcare Engineering
2. Project: EU-DG RTD Solar Facilities for the European Research Area (SFERA 2) / FRANCE, Synthesis of carbon nanotubes using solar radiation and Al₂O₃-Mn/Cu₂O catalyst, 2016.
3. Project: EU-DG RTD Solar Facilities for the European Research Area (SFERA 2) / FRANCE, Al₂O₃/TiO₂ cladding in pre-placed powder geometry using concentrated solar radiation, 2017.
4. Project: EU-DG RTD Solar Facilities for the European Research Area (SFERA 2) / ITALY, Corrosion improvement of FeCrAl alloys designed for molten salt reactors, 2017.
5. Project: EU-DG RTD Solar Facilities for the European Research Area (SFERA 2) / FRANCE, Residual stress relieve of Ni based coatings fabricated by laser cladding, 2015.

MEMBER IN THE RESEARCH TEAM

1. Project: PN-III-P2-2.1-BG-2016-0349, Creșterea competitivității SC ELDON SRL prin optimizarea tehnologiei de fabricație a dulapurilor industriale de podea, 2016 – 2018.
2. Project: PN-II-RU-TE Nr. 349/2015, Polyolefins and calcite wastes recycling by obtaining new composite materials, 2016 – 2017.
3. Project with private sector – Delft Enterprises B.V, Nr. 8407/21.07.2015, Studies concerning the real time monitoring of laser welding/cutting process – SMOL, 2015 – 2018.
4. Project with private sector – Delft Enterprises B.V, Nr. 4452/17.04.2015, New methods for cutting metallic waste, 2015 – 2016.
5. Project: EU-DG RTD Solar Facilities for the European Research Area (SFERA 3) / FRANCE, Solar synthesis of functional carbonaceous under constant electric charge, 2019.
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