

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Daniel MUNTEANU**
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 [REDACTED]

Nationality Romanian

Date of birth [REDACTED]

Gender Male

Occupational field Higher education and Scientific research

Work experience

Dates September 1996 – present:

Occupation or position held - Full professor (2008-present), associate professor (2004-2008), lecturer (2001-2004), assistant professor (1998-2001), junior lecturer (1996-1998);
 - Starting with March 2012, Vice-Rector of Transilvania University of Brasov
 - Ph.D. coordinator in Materials Engineering field.

Main activities and responsibilities - University management (coordinating the relation with the economic and socio-cultural environment (companies, entrepreneurs and different institutes), coordinating and monitoring the campus resources, coordinating and supervising the general organizational frame and activities of students in university campus);
 - Didactical activity and research activity (coordinating diploma projects, coordinating Erasmus projects, Ph.D. coordinator in Materials engineering field);

Name and address of employer Transilvania University of Brasov, 29 Eroilor Blvd., 500036, Brasov, Romania

Type of business or sector Education

Dates 1995 – 1996:

Occupation or position held Mathematics teacher

Main activities and responsibilities Teaching mathematics (geometry and algebra) for classes with human profile

Name and address of employer Mihail Cantacuzino College, Sinaia, Romania

Type of business or sector Public

Education and training

Dates 2006

Title of qualification awarded Competencies certificate in the field of Foreign trade promotion and international trade

Principal subjects/occupational skills covered Foreign trade promotion, International investments, Custom operations, Project management, Marketing, Quality management.

Name and type of organisation providing education and training World Trade Center Tokyo Inc. and Japan International Cooperation Agency – JICA

Level in national or international classification Post-university degree

Dates 1996 - 2002

Title of qualification awarded Ph.D. Diploma in the field of Materials Science and Engineering

Principal subjects/occupational skills covered Heat treatment and Surface engineering, Technologies and equipments for coatings deposition (tribological and anti-corrosive coatings), Tribology, Materials testing and characterization.

Name and type of organisation providing education and training Transilvania University of Brasov, Romania (in cooperation with Rubig GmbH – Austria, Rulmentul S.A. Brasov and Delft University of Technology – The Netherlands).

Level in national or international classification Doctoral degree

Dates 1995 - 1996

Title of qualification awarded M.Sc. Diploma in the field of Materials Science and Engineering

Principal subjects/occupational skills covered Optimizing the Industrial processes

Name and type of organisation providing education and training Transilvania University of Brasov, Romania

Level in national or international classification Master degree

Dates 1990 - 1995

Title of qualification awarded B.Sc. Diploma in the field of Materials Science and Engineering

Principal subjects/occupational skills covered Heat treatment and Surface engineering – heat and thermochemical treatment of metals and metallic alloys, solid phase transformation, Surface engineering (preparing and characterization of tribological coatings/thin films), materials characterization (physical, chemical, structural, mechanical and tribological).

Name and type of organisation providing education and training Transilvania University of Brasov, Romania

Level in national or international classification University degree

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

Language

Language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
En	C1	En	C1	En	C1	En	C1	En	C1
It	C1	It	C1	It	B1	It	B1	It	B2

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Communicative character and leadership abilities acquired in different educational and research programs and projects, at national and international level.
Organisational skills and competences	<ul style="list-style-type: none">- Management skills acquired like a Vice-Rector of Transilvania University of Brasov (12 years) and different research and educational grants and projects;- Organizational skills acquired like chairman or member of the organizing committees of different international conferences;- Cooperative attitude, creativity, well-schooled behavior, goodwill, positive attitude and objective spirit, affable and optimistic spirit, maximum stability.
Technical skills and competences	<ul style="list-style-type: none">- Competences in heat treatment and surface engineering;- Competences in using characterization methods of mechanical and tribological properties of coatings and thin films;- Competences in coatings and thin-films deposition methods (PVD and CVD methods);- Competences in Project management and Organizational culture;- Competences in International trade and International relations.
Computer skills and competences	MS - Windows (MS-Word, Excel, Power Point, Acces), Internet user.
Artistic skills and competences	Painting, Graphics and Music
Driving licence	Category B

Additional information

- Author or co-author of more than 100 research papers published in international journals or international conference proceedings. The main journals where the papers have been published: Applied Surface Science, Bioengineering, Materials Chemistry and Physics, Ceramics International, Tribology international, Journal of Optoelectronics and Advanced Materials, Thin Solid Films, Surface and Coatings Technology, Wear, Int. Journal of Materials and Product Technology, Journal of Nanoscience and Nanotechnology, Materials, Metals, Journal of Mechanical Behaviour of Materials, High Temperature Materials and Processes, Romanian Journal of Physics, Optoelectronics and Advanced Materials – RC etc.
- Hindex 22 – Google Scholar, Hindex 17 ISI - Web of Science.
- Author/co-author of 6 books;
- Co-organizer of Symposium I – Nano-engineered coatings and thin-films: from fundamentals to applications, European Materials research Society – EMRS, Spring Meeting, May 2024, Strasbourg – France (<https://www.european-mrs.com/nano-engineered-coatings-and-thin-films-fundamentals-applications-emrs>);
- Chairman of International Conference of Materials Science and Engineering – BRAMAT (2013, 2015, 2017, 2019, 2022), Braşov, Romania (www.bramat.ro);
- Member of Organizing Committee of Romanian Conference for Advanced Materials – ROCAM 2009 and 2012, University of Bucharest and Transilvania University of Brasov;
- Member of Organizing Committee and the scientific secretary of *Heat treatment and Surface engineering* section, International Conferences of Materials Science and Engineering - BRAMAT 2001, 2003, 2005, 2007, 2009 and 2011, Transilvania University of Brasov;
- 3 national research grants (Grant Director), and member in other 13 national and international research projects;
- Partner coordinator of the European project, RIA - Horizon 2020, (2016 - 2019) - DREAM (Driving up Reliability and Efficiency of Additive Manufacturing);
- Director of the national grant (Bridge Grant – Knowledge Transfer to industry type) CALINDRUL – The optimization of the inductive hardening eco-technology, in the case of big-size ring bearings (2016 – 2018), partener - the biggest industrial (German) company from Brasov - Schaeffler Romania;
- Managing Guest Editor for Applied Surface Science (Elsevier), Materials Today /Proceedings (Elsevier), Journal of Materials Science (Springer), Materials (MDPI), Applied Sciences (MDPI) and Advanced Materials Research (Trans Tech Publication);
- Member of editorial board – Journal of Coating Science and Technology (JCST);
- Member of National Commission of experts - Materials Science and Engineering, National Council for Certifying Academic Degrees and Diplomas - CNATDCU, Ministry of Education and Scientific Research, 2011 – today;
- The coordinator of the annual conference AFCO (The Graduates meet the companies) at Transilvania University of Brasov;
- The coordinator, at the university level, of the annual sessions of students scientific circles;
- Reviewer at more than 20 international journals;
- Member in different International Scientific Committees of some International conferences and meetings.

Braşov, June 2024

Daniel MUNTEANU

Contribuție științifică (selecție)

A. Cărți

1. **Munteanu, D.**, *Straturi subțiri, cu rol tribologic, obținute prin depunere chimică din vapori activată în plasmă (Tribological coatings obtained by PECVD)*, Transilvania University Publishing house 2003, ISBN 973-635-100-9;
2. Munteanu, A., **Munteanu, D.**, *Tratamente termice și termochimice, teorie și aplicații (Heat treatments, fundamentals and applications)*, Transilvania University Publishing house 2007, ISBN 978-973-635-931-6;
3. Munteanu, A., **Munteanu, D.**, *Transformări de fază în stare solidă; considerații teoretice și aplicații (Solid phase transformations; fundamentals and applications)*, Transilvania University Publishing house 2003, ISBN 973-635-235-8;
4. **Munteanu, D.**, Schreiner, A. *Straturi subțiri obținute prin pulverizare reactivă în sistem magnetron (Thin-films obtained by reactive magnetron sputtering)*, Transilvania University Publishing house 2007, ISBN 978-973-635-931-6;
5. Ionescu, C., Munteanu, A., **Munteanu, D.**, *Straturi dure de tip Ti-Si-C, obținute la temperaturi joase prin depunere fizică din vapori (Ti-Si-C hard coatings prepared at low temperature by PVD)*, Transilvania University Publishing house 2009, ISBN 978-973-598-506-6;
6. Gabor, C., **Munteanu, D.**, Munteanu, A., *Straturi subțiri cu rol decorativ obținute prin depunere fizică din vapori (Decorative thin-films prepared by PVD)*, Transilvania University Publishing house 2010, ISBN 978-973-598-742-8;
7. Cristea, D., Crișan, A., Cunha, L., **Munteanu, D.**, *Straturi subțiri de tip oxinitură (Thin-films, oxynitride types)* Transilvania University Publishing house 2014, ISBN 978-606-19-0450-1;

B. Articole (selecție - ISI Web of Knowledge)

1. Lopez, C., Gabor, C., Macedo, F., Rodriguez, M.S., Borges, J., Alves, E., Barradas, N.P., Vaz, F., Borsan, I., **Munteanu, D.**, *The influence of the nanostructure design on the optical, electrical and thermal properties of TiNx thin films prepared by reactive magnetron sputtering*, Materials Chemistry and Physics, Vol. 306/2023, pp. 127981;
2. Gatto, M.L., Mengucci, P., **Munteanu, D.**, Nasini, R., Tognoli, E., Denti, L., *Beads for Cell Immobilization: Comparison of Alternative Additive Manufacturing Techniques*, Bioengineering 2023, 10, pp. 150;
3. Milosan, I., Bedo, T., Gabor, C., **Munteanu, D.**, Pop, A.M., Coșniță, M., Catană, D., Varga, B., *Characterization of aluminum alloys – silicon carbide functionally graded materials developed by centrifugal casting process*, Applied Sciences, 2021, 11, pp. 1625;
4. Bărbulescu, O., Tecău, A., **Munteanu, D.**, Constantin, C.P., *Innovation of startups, the key to unlocking post-crisis sustainable growth in Romanian entrepreneurial ecosystem*, Sustainability, 2021, 13, pp. 671;
5. Lopez, C., Gabor, C., Cristea, D., Costa, R., Dominguez, R.P., Borges, J., Alves, E., Barradas, N.P., **Munteanu, D.**, Vaz, F., *Evolution of the mechanical properties of Ti-based intermetallic thin films doped with different metals to be used as biomedical devices*, Applied Surface Science, Vol. 505/2020, pp. 144617;

6. Velicu, I.L., Ianos, G.T., Porosnicu, C., Cristea, D., **Munteanu, D.**, *Enhanced deposition of copper thin films by bipolar high power impulse magnetron sputtering*, Surface & Coatings Technology, Vol. 359/2019, pp. 97 – 107;
7. **Munteanu, D.**, Nechifor, A., *Motivational projects for students at Transilvania University of Brasov – Romania*, Proceedings of 11th International Conference on Education and New Learning Technologies, EDULEARN 19, Palma, Spain;
8. Feldiorean, D., Cristea, D., Tiorean, M., **Munteanu, D.**, *Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel*, Applied Surface Science, Vol. 475/2019, pp. 762 – 773;
9. Țucureanu, V., **Munteanu, D.**, *Enhanced optical properties of YAG:Ce yellow phosphor by modification with gold nanoparticles*, Ceramics International, Vol. 45/2019, pp. 7641 – 7648;
10. Tiron, V., Ursu, E. L., Cristea, D., **Munteanu, D.**, Bulai, G., Ceban, A., Velicu, I.L., *Overcoming the insulating materials limitation in HiPIMS: Ion-assisted deposition of DLC coatings using bipolar HiPIMS*, Applied Surface Science, Vol. 494/2019, pp. 871 – 879;
11. Tiron, V., Porosnicu, C., Dinca, P., Velicu, I.L., Cristea, D., **Munteanu, D.**, *Beryllium thin films deposited by thermionic vacuum arc for nuclear applications*, Applied Surface Science, Vol. 481/2019, pp. 327 – 336;
12. Yan, G., Wu, Y., Cristea, D., Tiorean, M., **Munteanu, D.**, *Mechanical properties and wear behaviour of multi-layer diamond films deposited by hot-filament chemical vapour deposition*, Applied Surface Science, Vol. 494/2019, pp. 401 – 411;
13. Bedo, T., Varga, B., Nitoi, A., Velicu, I.L., Munteanu, S., Cristea, D., **Munteanu, D.**, *Metastable Al–Si–Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating*, Metals 2019, 9, 483;
14. Gabor, C., Bedo, T., Varga, B., Florescu, M., Nitoi, A., Velicu, I.L., Munteanu, S., Lupu, N., Cristea, D., Geanta, V., Pop A. M., **Munteanu, D.**, *Ti–Zr–Si–Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties*, Materials 2019, 12, 1551;
15. Tiron, V., Velicu, I.L., Cristea, D., Lupu, N., Rusu, B.G., Stoian, G., **Munteanu D.**, *Influence of ion-to-neutral flux ratio on the mechanical and tribological properties of TiN coatings deposited by HiPIMS*, Surface & Coatings Technology, Vol. 352/2018, pp. 690 – 698;
16. Tiron, V., Velicu, I.L., Pană, I., Cristea, D., Rusu, B.G., Dincă, P., Porosnicu, C., Grigore, E., **Munteanu D.**, Tascu, S., *HiPIMS deposition of silicon nitride for solar cell application*, Surface & Coatings Technology, Vol. 344/2018, pp. 197 – 203;
17. Ghiuta, I., Cristea, D., Croitoru, C., Kost, J., Wenkert, R., Vyrides, I., Anayiotos, A., **Munteanu D.**, *Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using Bacillus species*, Applied Surface Science, Vol. 438/2018, pp. 66 – 73;
18. Țucureanu, V., Matei, A., Avram, A., Popescu, M.C., Mihalache, I., Avram, M., Mărculescu, C.V., Țîncu, B.C., Volmer, M., **Munteanu, D.**, *Structural and luminescence properties of yellow phosphors prepared by a modified sol-gel method*, MRS Communications, 2017, pp. 1 – 7;
19. Velicu, I.L., Tiron, V., Porosnicu, C., Burducea, I., Lupu, N., Stoian, G., Popa, Gh., **Munteanu, D.**, *Enhanced properties of tungsten thin films deposited with a novel HiPIMS approach*, Applied Surface Science, Vol. 424 – part 3/2017, pp. 397 – 406;
20. Patru, M., Gabor, C., Cristea, D., Oncioiu, G., **Munteanu, D.**, *Mechanical and wear characteristics of α -C:H/Cr/AlN/Ti multilayer films deposited by PVD/PACVD*, Surface & Coatings Technology, Vol. 320/2017, pp. 284 – 292;
21. Rodrigues, M.S., Borges, J., Gabor, C., **Munteanu, D.**, Apreutesei, M., Steyer, P., Lopes, C., Pedrosa, P., Alves, E., Barradas, N.P., Cunha, L., Martinez-Martinez, D., Vaz, F., *Functional behavior of TiO₂ films doped with noble metals*, Surface engineering, Vol. 32/2016, nr. 8, pp. 554 – 561;

22. Kapnisis, K., Pitsilides, C., Prokopi, M., Constantinides, G., Cristea, D., **Munteanu, D.**, Brott, B., Anderson, P., Lemons, J., Anayiotos, A., *Metallic stents: Biomechanical analysis and in vivo investigation of the vessel inflammatory response*, XIV Mediterranean Conference on Medical and Biological engineering and Computing (MEDICON) 2016, IFMBE Proceedings, Vol. 57/2016, pp. 1057–1078;
23. Cristea, D., Patru, M., Crisan, A., **Munteanu, D.**, Craciun, D., Barradas, N. P., Alves, E., Apreutesei, M., Moura, C., Cunha, L., *Composition and structure variation for magnetron sputtered tantalum oxynitride thin films, as function of deposition parameters*, Applied Surface Science, Vol. 358, B/2015, pp. 508–517;
24. Jinga, V., Mateescu, A. O., Cristea, D., Mateescu, G., Burducea, I., Ionescu, C., Craciun, L. S., Ghiuta, I., Samoila, C., Ursutiu, D., **Munteanu, D.**, *Compositional, morphological and mechanical investigations of monolayer type coatings obtained by standard and reactive magnetron sputtering from Ti, TiB₂ and WC*, Applied Surface Science, Vol. 358, B/2015, pp. 579–585;
25. Patru, M., Isac, L., Cunha, L., Martins, P., Lanceros-Mendez, S., Oncioiu, G., Cristea, D., **Munteanu D.**, *Structural, mechanical and piezoelectric properties of polycrystalline AlN films sputtered on titanium bottom electrodes*, Applied Surface Science, Vol. 354, B/2015, pp. 267–278;
26. Cristea, D., Crisan, A., Cretu, N., Borges, J., Lopes, C., Cunha, L., Ion, V., Dinescu, M., Barradas, N. P., Alves, E., Apreutesei, M., **Munteanu, D.**, *Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering*, Applied Surface Science, Vol. 354, B/2015, pp. 298–305;
27. Velicu, L.-I., Neagu, M., Costinescu, L., Tiron, V., **Munteanu, D.**, *Nanomechanical characterization of amorphous and nanocrystalline FeCuNbSiB thin films*, Applied Surface Science, Vol. 352/2015, pp. 5–9;
28. Mateescu, A. O., Mateescu, G., Jinga, V., Cristea, D., Samoila, C., Ursutiu, D., **Munteanu, D.**, *Physical and technological interpretation of mechanical properties for single and multi-layer films with properties of dry lubricants*, Journal of Optoelectronics and Advanced Materials, Vol. 17, nr. 7-8/2015, pp. 1152-1160;
29. Floroian, L., Samoila, C., Badea, M., **Munteanu, D.**, Ristoscu, C., Sima, F., Negut, I., Chifiriuc, M. C., Mihailescu, I. N., *Stainless steel surface biofunctionalization with PMMA-bioglass coatings: compositional, electrochemical corrosion studies and microbiological assay*, J Mater Sci: Mater. Med. (2015) 26:195
30. Jinga, V., Mateescu, A. O., Mateescu, G., Craciun, L. S., Ionescu, C., Samoila, C., Ursutiu, D., **Munteanu, D.**, Cristea, D., *Mechanical and tribological behaviour of the multilayer dry lubricant coatings with ternary composition from compound materials (Ti_xNy; TiB₂/Ti_xByNz; WC/W_xCyNz)*, Journal of Optoelectronics and Advanced Materials, Vol. 17, nr. 5-6/2015;
31. Kapnisis, K., Constantinides, G., Georgiou, H., Cristea, D., Gabor, C., **Munteanu, D.**, Brott, B., Anderson, P., Lemons, J., Anayiotos, A., *Multi-scale mechanical investigation of stainless steel and cobalt–chromium stents*, Journal of the Mechanical Behavior of Biomedical Materials, Vol. 40/2014, pp. 240 - 251;
32. Cristea, D., Crisan, A., **Munteanu, D.**, Apreutesei, M., Costa, M.F., Cunha, L., *Tantalum oxynitride thin films: Mechanical properties and wear behavior dependence on growth conditions*, Surface & Coatings Technology, Vol. 258/2014, pp. 587 – 596;
33. Floroian, L., Florescu, M., **Munteanu, D.**, Badea, M., Popescu – Pelin, G., Ristoscu, C., Sima, F., Chifiriuc, M.C., Mihailescu, I.N., *A new concept of stainless steel medical implant based upon composite nanostructures coating*, Digest Journal of Nanomaterials and Biostructures, Vol. 9, nr. 4/2014, pp. 1555 – 1568;

34. Marin, D.G., **Munteanu, D.**, Alvez, E., Barradas, N.P., Cunha, L., Moura, C., *Influence of thermal annealing on structural and optical properties of Au:TiO₂ nanocomposite films*, in Journal of Optoelectronics and Advanced Materials, Vol. 15, nr. 5-6/2013, pp. 539 - 543;
35. Velicu, I.L., Neagu, M., Costinescu, L., **Munteanu, D.**, Koumoulos, E., Charitidis, C., *Nanomechanical properties of amorphous FeCuNbSiB thin-films deposited by HiPIMS*, in Sensors Letters, Vol. 11, nr. 10/2013, pp. 1925 – 1930;
36. Costinescu, L., Cojocariu, C., Marin, A., **Munteanu, D.**, *Researches on obtaining performant carbon based coatings with enhanced wear and corrosion resistance*, in Journal of Optoelectronics and Advanced Materials, Vol. 15, nr. 7-8/2013, pp. 791 - 796;
37. Patru, M., **Munteanu, D.**, *General aspects on tribological coatings with piezoelectric sensing capability*, in Metalurgia International, vol. XVIII, nr. special. 6/2013, p. 119 – 122;
38. Constantin, D.G., **Munteanu, D.**, Cunha, L., Moura, C., *The influence of oxygen flow during deposition on the structural, mechanical and tribological properties of titanium oxide magnetron sputtered thin films*, in Journal of Optoelectronics and Advanced Materials, Vol. 14, nr. 11-12/2012, pp. 964 - 970;
39. **Munteanu, D.**, Gabor, C., Constantin, D.G., Varga, B., Andrei, O.C., Chappe, J.M., Cunha, L., Moura, C., Vaz, F., *Friction and wear behaviours of Ti(C,O,N) dark decorative coatings*, in Tribology International (Ed. Elsevier) Vol. 44, nr. 7-8/2011, pp. 820 - 828;
40. Adochite, R.C., **Munteanu, D.**, Torell, M., Cunha, L., Cavaleiro, A., Barradas, N.P., Alves, E., Vaz, F., *The influence of annealing treatments on the properties of Ag:TiO₂ nanocomposite films prepared by magnetron sputtering*, in Applied Surface Science (Ed. Elsevier) Vol. 258/2012, pp. 4028 – 4034;
41. Apreutesei, M., Arvinte, R., Constantin, D.G., Andrei, O.C., **Munteanu D.**, *Mechanical and decorative properties of ZrOx thin-films prepared by reactive-magnetron sputtering*, in Journal of Optoelectronics and Advanced Materials, Vol. 13, nr. 7/2011, pp. 897 - 901;
42. Arvinte, R., Borges, J., Sousa, R.E., **Munteanu, D.**, Barradas, N.P., Alvez, E., Vaz, F., Marques, L., *Preparation and characterization of CrN_xO_y thin films: The effect of composition and structural features on the electrical behavior*, in Applied Surface Science (Ed. Elsevier) Vol. 257/2011, pp. 9120 – 9124;
43. **Munteanu, D.**, Ionescu, C., Olteanu, C., Munteanu, A., Davin, F., Cunha, L., Moura, C., Vaz, F., *Influence of composition and structural properties in the tribological behaviour of magnetron sputtered Ti-Si-C nanostructured thin films prepared at low temperatures*, in Wear (Ed. Elsevier) Vol. 268, nr. 3-4/2010, pp. 552 - 557;
44. Olteanu, C., **Munteanu, D.**, Munteanu, A., Ionescu, C., Chappe, J. M., Cunha, L., Vaz, F., *Tribological characterization of magnetron sputtered Ti(C,O,N) thin films*. In *Journal of Materials and Product Technology – IJMPT*, (Ed. InderScience), Vol. 39, nr. 1-2/2010, pp. 186 – 194;
45. Cunha, L., Vaz, F., Moura, C., **Munteanu, D.**, Ionescu, C., Rivière, J. P., E. Le Bourhis. *Ti-Si-C thin films produced by magnetron sputtering: correlation between physical properties, mechanical properties and tribological behaviour* in Journal of Nanoscience and Nanotechnology (Ed. American Scientific Publishers – ASP), Vol. 10/2010, nr. 4, pp. 2926-2932;
46. Cunha, L., Moura, C., Vaz, F., Chappe, J.M., Olteanu, C., **Munteanu, D.**, Munteanu, A., *Properties changes of Ti(C,O,N) films prepared by PVD: the effect of reactive gases partial pressure*, in Journal of Optoelectronics and Advanced Materials, Vol. 11, nr. 7/2009, pp. 976 – 980;
47. Varga, B., **Munteanu, D.**, *Dilatometric and thermal analysis of hypoeutectoid Zn-Al alloys*, in *Optoelectronics and Advanced Materials – Rapid Communications*, Vol. 3, nr. 12, pp. 1343 - 1349, 2009.

48. Chappe, J.M., Fernandez, A.C., Cunha, L., Martin, N., Vaz, F., **Munteanu, D.**, Borcea, B., *TiN – based decorative coatings: colour change by addition of C and O*, in Journal of Optoelectronics and Advanced Materials, Vol. 10, issue. 4/2008, pp. 900 – 903;
49. **Munteanu, D.**, Vaz, F., *The influence of nitrogen content on the properties of TiNx thin-films*, in Journal of Optoelectronics and Advanced Materials, vol. 8, nr. 2/2006, pp. 720 - 725;
50. Fernandes, A.C., Vaz, F., Cunha, L., Parreira, N.M.G., Cavaleiro, A., Goudeau, Ph., Le Bourhis, E., Riviere, J.P., **Munteanu, D.**, Borcea, B., Cozma, R., *The influence of structure changes in the properties of TiCxOy decorative thin-films*, in Thin Solid Films, 515/2007, pp. 5424 - 5429;
51. **Munteanu, D.**, Cozma, R., Borcea, B., Vaz., F., *The influence of oxygen flow on the tribological behaviour and residual stress state of TiCO Thin-films*, in Journal of Optoelectronics and Advanced Materials, vol. 8, no. 2/2006, pp. 712 - 715;
52. **Munteanu, D.**, Vaz, F., Lopes, C., Carvalho, S., Borcea, B., Ionescu, C., Munteanu, A., *Dependence between processing conditions and tribological properties of Ti-Si-C thin films*, in Metalurgia International, vol. XIII, nr. 2/2008, pp. 51 – 58;
53. Lehner, F., Muller, T., Schreiner, A., **Munteanu, D.**, *Designing functional coatings by Plasma Assisted Chemical Vapour Deposition – (PACVD)*, in Revista Metalurgia International, vol. XIV, nr. 3/2009, p. 117 – 121;
54. **Munteanu, D.**, Jiman, V., Munteanu, S., Munteanu, A., *Theoretical aspects on electron – solid interaction and signal detectors used in SEM*, in Revista Metalurgia International, vol. XIV, issue. 3/2009, pp. 153 – 157;
55. Borcea, B., Munteanu, A., **Munteanu, D.**, Olteanu, C., Guilaumont, A., Klein, D., *Mechanical properties of the nanocompozite Ti-Si-N thin – films deposited by magnetron sputtering using a HIPIMS/DC pulsed device*, in Revista Metalurgia International, vol. XIV, nr. 3/2009, pp. 117 – 121;
56. Olteanu, C., Munteanu, A., **Munteanu, D.**, Borcea, B., Vaz, F., Cunha, L., *The influence of deposition conditions on the mechanical properties of Ti(C,O,N) thin films obtained by sputtering process*, in Revista Metalurgia International, vol. XIV, nr. 3/2009, pp. 129 – 133.
57. Munteanu, A., **Munteanu, D.**, *Aspects on the tempering transformation kinetics of Cr low alloyed seels*, in High Temperature Materials and Processes, Vol. 19, nr. 2/2000, pp. 127-133.

C. Prefațe la conferințe științifice:

1. Prefață la 8th International Conference on Materials Science and Engineering – BRAMAT 2013, 28 February – 2 March 2013, Brasov, Romania (Guest editor and Chairman), in Applied Surface Science, Vol. 285/A, November 2013.
2. Prefață la 9th International Conference on Materials Science and Engineering – BRAMAT 2015, 5 – 7 March 2015, Brasov, Romania (Guest editor and Chairman), in Applied Surface Science, Vol. 358/B, December 2015.
3. Prefață la 10th International Conference on Materials Science and Engineering – BRAMAT 2017, 8 – 11 March 2017, Brasov, Romania (Guest editor and Chairman), in Applied Surface Science, Vol. 438, April 2018.
4. Prefață la 11th International Conference on Materials Science and Engineering – BRAMAT 2019, 13 – 16 March 2019, Brasov, Romania (Guest editor and Chairman), in Applied Surface Science, Vol. 526, Octombrie 2020.

D. Proiecte de cercetare (selectie)

Program/Proiect	Position	Period
Grant RIA action type, call: H2020-FOF-2016, Program - Horizon 2020, Project 723699, Driving up reliability and efficiency of additive manufacturing (DREAM).	Partner coordinator	2016-2019
PN III Bridge Grant – Knowledge transfer to the industrial partner, 2016 - 2018, CALINDRUL 100BG/2016 (The optimisation of the inductive hardening eco-tehnology in the case of big size ring bearings; partner S.C. Schaeffler Romania.	Director	2016-2018
National PCCDI - Complex research grant - New methodologies for treatment and diagnostic: current callenges and technological solutions based on nanomaterials and biomaterials.	Membru	2018-2020
Contract no. 5000/2011, between Transilvania University of Brasov and S.C. Stabilus Romania: Microhardness and roughness measurements of gas and plasma nitrided surfaces in the case of pressure tubes.	Director	2011
Soft follow-up project: <i>Foreign Trade Promotion and Effectiveness Management Methods</i>), Japan International Cooperation Agency (JICA) Tokyo and Japan Gouvernment, in partnership with World Trade Center Tokyo, JICA, JETRO (Japan External Trade Organization) Bucharest, Chamber of Commerce and Industry Brasov, Sustainable Development Agency Brasov.	Director	2007
Grant no. A1/GR106/2006, code CNCSIS 129, and no. 14567/2005, code CNCSIS 129, between Transilvania University and Ministry of Education and Research: <i>Structural, mechanical and tribological characterization of nanocomposite thin films Me-Si-C and Ti-C-O types, obtained by reactive sputtering deposition.</i>	Director	2005 - 2006
Grant no. 33253/2003, code CNCSIS 152 and no. 33459/2002, cod CNCSIS 304, between Transilvania University and Ministry of Education and Research: Phisycal, structural and mechanical characterization of <i>Ti(CxNy) and (TixAl_y)N thin films, obtained by PECVD.</i>	Director	2002 - 2003
Project no. 250/2006-2008, CEEX PCD, Module 1, <i>Special refractory monolithics for reducing medium, enhanced with nanoparticles.</i>	Membru	2006-2008
International project RO – 35/2007 - RO ID 42, Hungarian – Romanian joint projects in Science and Technologies 2008 – 2009), <i>Ceramic based nanocomposite coatings with carbon nanotubes</i> , (cooperation between Transilvania University – Department of Technological equipment and Materials science and Ceramics and Composites Laboratory din cadrul Research Institute for Technical Physics and Materials Science – HAS, Budapest).	Membru	2007
Grant no. 33253/2003, code CNCSIS 618, no. 33459/2002,	Membru	2001-2003

code CNCSIS 539, no. 4133/2001, code CNCSIS 121, between Transilvania University and Ministry of Education and Research: <i>Researches on the optimization of some superficial treatments, Duplex type, based on Ti and N, applied to different tool categories for improving the tribological behaviour.</i>		
International project HARDECOAT - NMP3-CT-2003-505948, 2004 – 2007, Development of new hard decorative coatings based on transition metal oxynitrides, within the frame of 6th Framework Programme – NMP <i>Nanotechnologies and nanosciences, knowledge-based multifunctional materials, and new production processes and devices.</i>	Colaborator	2004-2007
Project no.3/2001, between Transilvania University and S.C. Rulmentul S.A. Brasov: <i>Researches on the influence of some hard coatings prepared by PACVD on wear resistance of the tools used at the automatic forging equipments.</i>	Membru	2001
Grant no. 38/1998 code CNCSU 357, no. 33630/1999 code CNCSIS 20, no. 3993/2000 code CNCSIS 797, between Transilvania University and Ministry of Education and Research: <i>Researches on wear and corrosion resistance of metal transition nitride hard coatings deposited on tool steels by PACVD.</i>	Membru	1998-2000
Project no. 26/1998, between Transilvania University and S.C. Rulmentul S.A. Brasov: <i>Researches on the influence of some titanium based coatings on the wear process of tools used for cold plastic manufacturing of bearing rings.</i>	Membru	1998