Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Daniel MUNTEANU**
Address(es)	29 Eroilor blvd., 500036 Brasov - ROMANIA
Telephone(s)	+40 268 471893
Fax(es)	+40 268 471893
E-mail	danielmunteanu@unitbv.ro; prorector-studenti-mediu.ext@unitbv.ro;

Nationality	Romanian
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 industrial companies and different institutes, coordinating and monitoring the campus resources, coordinating the general organizational – frame of students in university campus); - Didactical activity, research activity, coordinating diploma projects, coordinating Erasmus projects, coordinating Ph.D. thesis 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
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	Industrial processes optimizing
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 - preparing and characterization of tribological coatings, thin films, materials characterization (physical, chemical, structural, mechanical and tribological), Solid phase transformations, plastic deformations
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	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
Language	En	C1	En	C1	En	C1	En	C1	En	C1
Language	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	- Management skills acquired like a Vice-Rector and research grants director; - Organizational skills acquired like chairman or member of the organizing committees of different international conferences (Bramat, Rocam); - Cooperative attitude, creativity, well-schooled behavior, goodwill, positive attitude and objective spirit, affable and optimistic spirit, maximum stability.
Technical skills and competences	- 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, CVD, PECVD); - Competences in Project management; - Competences in International trade and promotion.
Computer skills and competences	MS - Windows (MS-Word, Excel, Power Point, Acces), ACAD, Internet user.
Artistic skills and competences	Painting, Graphics and Music
Driving licence	Category B

Additional information

- Research papers published in international journals or international conference proceedings. The main journals where the papers have been published: Tribology international, Applied Surface Science, Journal of Optoelectronics and Advanced Materials, Thin Solid Films, Ceramics, Surface and Coatings Technology, Wear, Int. Journal of Materials and Product Technology, Journal of Nanoscience and Nanotechnology, Journal of Mechanical Behaviour of Materials, High Temperature Materials and Processes, Romanian Journal of Physics, Optoelectronics and Advanced Materials – RC etc. **H index / Web of Science – 9, / Scopus – 9, / Google Scholar – 12**.
- 6 books;
- 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 project (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 iundustrial (German) company from Brasov - Schaeffler Romania;**
- **Chairman of International Conference of Materials Science and Engineering – BRAMAT (2013, 2015, 2017, 2019), Brașov, Romania (www.bramat.ro);**
- **Managing Guest Editor for Applied Surface Science (Elsevier), Materials Today /Proceedings (Elsevier), Journal of Materials Science (Springer) and Advanced Materials Research (Trans Tech Publication);**
- Member of editorial board – Journal of Coating Science and Technology (JCST);
- Member of National Commission - Materials Engineering, National Council for Certifying Academic Degrees and Diplomas - CNATDCU, Ministry of Education and Scientific Research;
- Reviewer at Tribology International, Applied Surface Science, Sensors and Actuators A, Materials Science and Engineering B, Thin Solid Films, Surface and Coatings Technology - Elsevier etc;
- Corresponding author: Journal of Optoelectronics and Advanced Materials, Applied Surface Science;
- Scientific committee member of Bulletin of Transilvania University of Brasov, Series I – Engineering Sciences and reviewer of Materials Science section;
- Member of Publishing committee of Recent Journal - Transilvania University of Brasov;
- Member of ASM International;
- Member of JICA – Alumni association (Japan International Cooperation Agency);
- Member of Romanian Association of Heat treatment and Surface engineering;
- Member of Romanian Association of Tribology;
- 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;
- Coordinator workshop: Foreign Trade Promotion and Effectiveness Management Methods, financed by Japan International Cooperation Agency (JICA) Tokyo and Japan Government June 2007;
- Member in different International Scientific Committees of some International conferences and meetings.

Brașov, 2020
Professor dr. eng. **Daniel MUNTEANU**

SCIENTIFIC CONTRIBUTIONS:

Doctoral thesis:

Researches on the structural and tribological characterization of thin films, TiN, Ti(C,N) and (Ti,Al)N types, prepared by plasma enhanced chemical vapour deposition.

in cooperation with Rubig GmbH – Austria and Delft University of Technology – The Netherlands.
July 14, 2002.

A. Books:

1. **Munteanu, D.,** *Straturi subţiri, cu rol tribologic, obţinute 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 şi termochimice, teorie şi aplicaţii (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; consideraţii teoretice şi aplicaţii (Solid phase transformations; fundamentals and applications)*, Transilvania University Publishing house 2003, ISBN 973-635-235-8;
4. **Munteanu, D.,** Schreiner, A. *Straturi subţiri obţinute 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, obţinute 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 oxinitrură (Thin-films, oxynitride types)* Transilvania University Publishing house 2014, ISBN 978-606-19-0450-1;

B. Articles (selection - ISI Web of Knowledge)

1. Velicu, I.L., Ianos, G.T., Porosnicu, C., Cristea, D., **Munteanu, D.**, *Energy enhanced deposition of copper thin films by bipolar high power impulse magnetron sputtering*, Surface & Coatings Technology, Vol. 359/2019, pp. 97 – 107;
2. Feldiorean, D., Cristea, D., Tierean, M., **Munteanu, D**., *Deposition temperature influence on the wear behviour of carbon-based coatings depositited on hardened steel*, Applied Surface Science, Vol. 475/2019, pp. 762 – 773;
3. 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;
4. 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;
5. 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;
6. Yan, G., Wu, Y., Cristea, D., Tierean, 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;
7. 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;
8. 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;
9. 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;
10. 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;
11. 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;
12. 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 phosporos prepared by a modified sol-gel method,* MRS Communications, 2017, pp. 1 – 7;

13. 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;
14. Patru, M., Gabor, C., Cristea, D., Oncioiu, G., **Munteanu, D.,** *Mechanical and wear characteristics of a-C:H/Cr/AlN/Ti multilayer films deposited by PVD/PACVD,* Surface & Coatings Technology, Vol. 320/2017, pp. 284 – 292;
15. 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;
16. 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;
17. 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;
18. 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;
19. 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;
20. 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;
21. 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;
22. 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;
23. 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
24. 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 (TixNy; TiB2/TixByNz; WC/WxCyNz),* Journal of Optoelectronics and Advanced Materials, Vol. 17, nr. 5-6/2015;
25. Kapnisis, K., Constantinides, G., Georgiou, H., Cristea, D., Gabor, C., **Munteanu, D.**, Brott, B., Anderson, P., Lemons, J., Anayotos, 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;
26. 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;
27. 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;
28. 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;
29. 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;
30. 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;
31. 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;
32. 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;
33. **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;

34. 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;
35. 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;
36. Arvinte, R., Borges, J., Sousa, R.E., **Munteanu, D.**, Barradas, N.P., Alvez, E., Vaz, F., Marques, L., *Preparation and characterization of CrNxOy 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;
37. **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;
38. 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;
39. 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;
40. 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;
41. Varga, B., **Munteanu, D.,** *Dilatometric and thermal analysis of hipoeutectoid Zn-Al alloys*, in *Optoelectronics and Advanced Materials – Rapid Communications*, Vol. 3, nr. 12, pp. 1343 - 1349, 2009.
42. 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;
43. **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;
44. 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;
45. **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;
46. **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;
47. 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;
48. **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;
49. 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;
50. 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.
51. 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.

Others more than 60 papers published in different journals (Romanian Journal of Physics, Journal of Mechanical Behaviour of Materials, Heat treatment and Surface engineering, Recent, Bulletin of Transilvania University of Brasov, Metalurgia etc.) or others national or international conference proceedings.

C. Conference prefaces:

1. Preface of the 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. Preface of the 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. Preface of the 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.

D. Research project (selecție)

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 coordonator	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.	Member	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: *Foreign Trade Promotion and Effectiveness Management Methods)*, 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 Develepment 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: *Structural, mechanical and tribological characterization of nanocomposite thin films Me-Si-C and Ti-C-O types, obtained by reactive sputtering deposition.*	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 *Ti(CxNy) and (TixAly)N thin films, obtained by PECVD.*	Director	2002 - 2003
Project no. 250/2006-2008, CEEX PCD, Module 1, *Special refractory monolithics for reducing medium, enhanced with nanoparticles.*	Member	2006-2008
International project RO – 35/2007 - RO ID 42, Hungarian – Romanian joint projects in Science and Technologies 2008 – 2009),*Ceramic based nanocomposite coatings with carbon nanotubes,* (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).	Member	2007
Grant no. 33253/2003, code CNCSIS 618, no. 33459/2002, code CNCSIS 539, no. 4133/2001, code CNCSIS 121, between Transilvania University and Ministry of Education and Research: *Researches on the optimization of some superficial treatments, Duplex type, based on Ti and N, applied to different tool categories for inproving the tribological behaviour.*	Member	2001-2003

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 *Nanotechnologies and nanosciences, knowledge-based multifunctional materials, and new production processes and devices*.	Collaborator	2004-2007
Project no.3/2001, between Transilvania University and S.C. Rulmentul S.A. Brasov: *Researches on the influence of some hard coatings prepared by PACVD on wear resistance of the tools used at the automatic forging equipments*.	Member	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: *Researches on wear and corrosion resistance of metal transition nitride hard coatings deposited on tool steels by PACVD.*	Member	1998-2000
Project no. 26/1998, between Transilvania University and S.C. Rulmentul S.A. Brasov: *Researches on the influence of some titanium based coatings on the wear process of tools used for cold plastic manufacturing of bearing rings*.	Member	1998