

CURRICULUM VITAE

CANDIDAT: Sef Lucrari dr. **Cristina Cazan**
Universitatea Transilvania din Brasov,
Facultatea: Design de Produs si Mediu

CRISTINA VLADUTA (casatorita CAZAN)

Data nasterii: 08.10.1974

Studii:

- 2013 – prezent: cercetator post-doctorat, Universitatea Transilvania din Brasov, Proiect: Compozite multifunctionale realizate din deseuri;
- 2003-2010 – doctorat, Universitatea Transilvania din Brasov, Titlul tezei: Materiale compozite de tip cauciuc si mase plastice reciclate;
- 2006 – 2008 – masterat, Universitatea Transilvania din Brasov, Applied Chemistry in Environment and Industry
- 1993 – 1997 – student, Universitatea Transilvania din Braşov, Facultatea de Ştiinţe, Specializarea Fizică-Chimie

Alte specializări şi calificări

- 2014 – scoala de vara: ESEIA International Summer School 2014, Universitatea Transilvania din Braşov
- 2008 – 2009 - Certificate de absolvire cursuri postuniversitare de perfectionare eliberate de Ministerul Educatiei, Cercetarii si Tineretului: a) auditor de mediu; b) manager al sistemelor de management de mediu; c) auditor in domeniul calitatii; d) manager al sistemelor de management al calitatii;
- 2002-2003, curs CHEMINC – Quality Improvement of the Chemistry Instruction using Information and Communication Technologies, desfasurat in cadrul programului SOCRATES – COMENIUS

Titlul ştiinţific: 2010 – doctor, în domeniul fundamental: Stiinte Ingineresti, domeniul Stiinta si Ingineria Materialelor

Experienţa profesională si didactică

- 2008 – prezent: sef de lucrari, Universitatea Transilvania din Braşov;

- 2003 – 2008: asistent universitar, Universitatea Transilvania din Braşov;
- 1998 – 2003: profesor invatamant preuniversitar, Colegiul National “D.I. Mesota” Brasov;

Recenzor reviste ISI: Chemical Engineering Journal, Materials Science and Engineering B, Materials Letter, Materials Chemistry and Physics, Journal of Mechanical Engineering Research, Journal of Nanoscience and Nanotechnology

Proiecte de cercetare

- **2014, director, Solar collectors sealing with increased durability in the working environment (saline aerosols, humidity, temperature and UV) the European Solar Research Infrastructure for Concentrated Solar Power. Second Phase SFERA II**
- 2012-2015, membru, Complex high surface area photoactive nanomaterials for environmentally-friendly energy production and organic pollutants degradation (NANOVISMAT) PN II 162/2012
- 2012, membru, Product development using composites from recycled wood pastics and rubber
- 2005-2008, membru, SEE - Eu Tool - Sustainable energy for high school education - an european training tool
- 2008-2009, membru, PNII - 71-047/2007 - Sisteme fotovoltaice complexe pentru epurarea avansata a apelor rezultate din industria textila
- 2006-2008, membru, CEEX 277/2006 Materiale multifunctionale pentru conversia eficienta a energiei solare in energie termica
- 2007-2008, membru, CEEX 226/2006 “Sistem integrat de conversie a energiei din surse regenerabile”, RECIS
- 2007, membru, Cresterea vizibilitatii internationale si dezvoltarea Grupului Fotovoltaic - Romania din cadrul Platformei Tehnologice Europene Photovoltaic - Contract obtinut in cadrul PNCDI
- 2007, membru, Platforma CNCSIS 79 - Design de Produs pentru Dezvoltare Durabila - Grant de cercetare castigat prin competitie nationala

Alte competențe (coordonare specializări, discipline, laboratoare)

- coordonare de activitati didactice univeristare, nivel – licenta/masterat.
- coordonare activitati tutoriat pentru programul de studiu *Ingineria Valorificarii Deseurilor* din cadrul Universitatii Transilvania din Brasov.

Alte mentiuni (organizare de evenimente științifice - conferințe, workshop-uri, etc.)

- membru in comitetul de organizare al conferinței BRAMAT, editiile 2005, 2007
- membru in comitetul de organizare al conferinței „Third International Conference on Environmental Education, Trends in Environmental Education (EnvEdu 2006)
- membru in comitetul de organizare al Conferinței Sustainable Energy, CSE, 2006, 2008, 2014

LISTA LUCRARI

CANDIDAT: Sef Lucrari dr. **Cristina Cazan**

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Facultatea: Design de Produs si Mediu

Lucrari relevante pentru realizarile profesionale personale

1. **Cazan, C.**, Cosnita, M., Visa, M., Duta, A., capitol 38: Novel Rubber - Plastics Composites Fully Based on Recycled Materials, in Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer, 2014, ISBN 978-3-319-09706-0.
2. **Cazan, C.**, Perniu, D., Cosnita, M., Duta, A., Polymeric wastes from automotives as second raw materials for large scale products, Environmental Engineering and Management Journal 12 (2013) 1649-1655
3. Cosnita, M., **Cazan, C.**, Duta, A., Interfaces and mechanical properties of recycled rubber–polyethylene terephthalate–wood composites, Journal of Composite Materials, 48 (6), (2013) 683-694.
4. **Cazan, C.**, Duta, A., autor capitol 8: Recycled Rubber – Composite Matrix, in book Types, Properties and Uses, Nova Science Publishers, Inc., 2011, ISBN: 978-1-61761-464-4.
5. Duta, A., **Cazan, C.**, Cosnita, M., Fly ash in optimized composites based on rubber, recycled plastics, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, USA.
6. Duta, A., **Cazan, C.**, Accelerated aging test of composites based on rubber, recycled plastics and fly ash, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, CO USA.
7. **Vladuta, C.**, Andronic, L., Duta, A., Effect of TiO₂ nanoparticles on the interfaces PET-rubber composites, Journal of Nanoscience and Nanotechnology 10 (2010) 2518–2526
8. **Vladuta, C.**, Voinea, M., Purghel, E., Duta, A., Correlations between the structure and the morphology of PET- rubber nanocomposites with different additives, Materials Science and Engineering B, 165-3 (2009) 221-226.
9. **Vladuta, C.**, Andronic, L., Visa, M., Duta, A., Ceramic interface properties evaluation based on contact angle measurement, Surface & Coatings Technology 202 (2008) 2448–2452

10. Andronic, L. Enesca, A., **Vladuta, C.**, Duta, A., Photocatalytic activity of cadmium doped TiO₂ films for photocatalytic degradation of dyes, Chemical Engineering Journal 152 (2009) 64-71

Teza de doctorat

Materiale compozite se tip cauciuc si mase plastice reciclate, sub coordonarea științifică a d-nei Prof. univ. dr. ing. Anca DUȚĂ CAPRĂ

Cărți și capitole în cărți

a) Internationale

1. **Cazan, C.**, Cosnita, M., Visa, M., Duta, A., capitol 38: Novel Rubber - Plastics Composites Fully Based on Recycled Materials, in Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer, 2014, ISBN 978-3-319-09706-0.
2. Visa, M., **Cazan, C.**, Andronic, L., capitol 41: Fly Ash Based Substrates for Advanced Wastewater Treatment, in Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer International Publishing Switzerland, 2014, ISBN: 978-3-319-09706-0.
3. **Cazan, C.**, Duta, A., autor capitol 7: Rubber/Thermoplastic Blends: Micro and Nano Structur, in book: Advances in Elastomers-I: Their Blends and Interpenetrating Networks, Springer, 2013, ISBN: 978-3-642-20924-6.
4. **Cazan, C.**, Duta, A., autor capitol 8: Recycled Rubber – Composite Matrix, in book Types, Properties and Uses, Nova Science Publishers, Inc., 2010, ISBN: 978-1-61761-464-4.

b) Nationale

1. **Vladuta, C.**, autor capitol 4.3 Recycling in book Sustainable Energy, Ed. Universitatii Transilvania, 2008, Editori: Ion Visa, Anca Duță, ISBN 978-973-598-454-0.
2. Monografie: Isac, L., Tica, R., Andronic, L., **Vladuta, C.**, Chimie- Activități experimentale, Editura Universitatii Brașov, 2004.

Articole/ studii in extenso, publicate în reviste din fluxul științific internațional principal

1. Cosnita, M., **Cazan, C.**, Duta, A., Interfaces and mechanical properties of recycled rubber–polyethylene terephthalate–wood composites, *Journal of Composite Materials*, 48 (6), (2013) 683-694.
2. **Cazan, C.**, Perniu, D., Cosnita, M., Duta, A., Polymeric wastes from automotives as second raw materials for large scale products, *Environmental Engineering and Management Journal* 12 (2013) 1649-1655
3. Andronic, L., Enesca, A., **Cazan, C.**, Visa, M., TiO₂–active carbon composites for wastewater photocatalysis, *Journal of Sol-Gel Science and Technology*, 71 (2014) 396 - 405
4. Gyorgy, E., Angel Perez del Pino, A., Logofatu, C., **Cazan, C.**, Duta, A., Simultaneous Laser-Induced Reduction and Nitrogen Doping of Graphene Oxide in Titanium Oxide/Graphene Oxide Composites, *J. Am. Ceram. Soc.*, 1–7 (2014) DOI: 10.1111/jace.13013
5. Cosnita, M., **Cazan, C.**, Duta, A., Product development using composite from recycled wood, plastics and rubber, 1st first Conference on Quality and innovation and engineering and management (QIEM), *QIEM Proceedings* (2011), 253-256.
6. **Vladuta, C.**, Andronic, L., Duta, A., Effect of TiO₂ nanoparticles on the interfaces PET-rubber composites, *Journal of Nanoscience and Nanotechnology* 10 (2010) 2518–2526
7. Ienei, E., Isac, L., **Cazan, C.**, Duta, A., Characterization of Al/Al₂O₃/NiOx solar absorber obtained by spray pyrolysis, *Solid State Sciences* 12 (2010) 1894-1897
8. **Vladuta, C.**, Voinea, M., Purghel, E., Duta, A., Correlations between the structure and the morphology of PET- rubber nanocomposites with different additives, *Materials Science and Engineering B*, 165-3 (2009) 221-226.
9. Andronic, L. Enesca, A., **Vladuta, C.**, Duta, A., Photocatalytic activity of cadmium doped TiO₂ films for photocatalytic degradation of dyes, *Chemical Engineering Journal* 152 (2009) 64-71
10. **Vladuta, C.**, Andronic, L., Visa, M., Duta, A., Ceramic interface properties evaluation based on contact angle measurement, *Surface & Coatings Technology* 202 (2008) 2448–2452
11. Voinea, M., **Vladuta, C.**, Bogatu, C., Duta, A., Surface properties of copper based cermet materials, *Materials Science and Engineering: B* 152 (2008) 76-80.

12. I. Manciulea, C. Bogatu, **C. Cazan**, L. Dumitrescu, A. Duță, Investigation of some Mannich bases corrosion inhibitors for carbon steel, International Scientific Conference Corrosion 2014, 18-21 noiembrie 2014, Gliwice, Poland, publicat in Solid State Phenomena, in press..
13. C. Bogatu, **C. Cazan**, I. Manciulea, A. Duță, Corrosion resistance in saline environment of colored based alumina spectrally selective surfaces, International Scientific Conference Corrosion 2014, 18-21 noiembrie 2014, Gliwice, Poland, publicat in Solid State Phenomena, in press.

Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. Duta, A., **Cazan, C.**, Cosnita, M., Fly ash in optimized composites based on rubber, recycled plastics, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, USA.
2. Duta, A., **Cazan, C.**, Accelerated aging test of composites based on rubber, recycled plastics and fly ash, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, CO USA.
3. Cerbu, C., Ciofoaia, V., Curtu, I., **Vladuta, C.**, Impact behavior for the composite materials randomly reinforced with e-glass fibers, 13th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2009, Hammamet, Tunisia, 16-21 October 2009.
4. **Cazan, C.**, Duta, A., The Influence of Temperature on the Interface Properties of PET-rubber Nanocomposites, 3rd International Conference on Recent Advances in Composite Materials, ICRACM, Limoges, France, 2010.
5. **Vladuță, C.**, Duta, A., Effect of UV exposure on the mechanical properties of PET - rubber - TiO₂ composites, 6th International Conference on "Materials Science and Engineering" - BRAMAT 2009, Brasov, Romania, 2009.
6. **Vladuță, C.**, Duta, A., Polymer - Inorganic Composites on Advanced Recycling Solution, 2nd Conference on Sustainable Energy, Transilvania University of Brasov, Romania, 2008.
7. **Vladuta, C.**, Voinea, M., Duta, A., Composite materials based on recycled PET and tire rubber obtained by compression molding, Simpozionul Impactul Acquis-ului Comunitar de Mediu asupra Tehnologiilor si Echipamentelor, ACQUISTEM, Agigea, 2008.

8. **Vladuta, C.,** Duta, A., The mechanical properties of PET-Rubber composites, The 5th International Conference on “Materials Science and Engineering” - BRAMAT 2007, Brasov, Romania, 2007
9. **Vladuta, C.,** Duta, A., Influence of environmental open air conditions on the mechanical properties of PET – rubber composites, Galați, Romania, UgalMat **2005** The annals of “Dunarea de Jos” University of Galati Fascicle IX Metallurgy and Materials Science, ISSN 1453 – 083X. NR 2 – **2005**.

Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice:

1. **Vladuta, C.,** Cosnita, M., Duta, A., Effect of Functionalization of PET on Composites on Based Tire Rubber and Plastic Materials, <http://paginas.fe.up.pt/clme/icem15/>
2. **Vladuta, C.,** Duta, A., The Influence of Temperature on the Interface Properties of PET-rubber Nanocomposites <http://icracm2013.thefourdy.com/about-icracm-conference>
3. **Vladuta, C.,** Duta, A., Novel Solution for Plastic and Rubber Recycling, www.pmi2007.ghent.conference
4. **Cristina Vladuta,** Anca Duta, Camelia Cerbu, The additives influence on the shear mechanical properties of composites based on PET and rubber, www.lpmm.univ-metz.fr/shear07/
5. **Cristina Vladuta,** Anca Duta, Camelia Cerbu, Thermal analysis and mechanical properties of the PET- rubber composites, www.lpmm.univ-metz.fr/shear07/
6. **Vladuta, C.,** Duta, A., Visa, I., Dobre, E.B., Cerbu, C., Studies concerning the mechanical comportment of PET-rubber composites, www.
7. **Vladuta, C.,** Duta, A., Enesca A., Dobre, E.B., Visa, I., Thermal degradation and mechanical properties of PET-rubber composites, www.fe.up.pt/materiais2007
8. E.B. Dobre, I. Vișa, A. Duță, **C. Vladuță**, Finite Element Analysis Of The Strain Stress In Composites Based On Rubber And Plastics Recycled, <http://rocam.unibuc.ro/rocam2006/index1.html>
9. **C. Vladuta,** A. Duta, C. Cerbu, I. Visa, E.B. Dobre, Influence Of Accelerated Aging in aqueous media of the random PET-rubber Composites, [Http://Rocam.Unibuc.Ro/Rocam2006/Index1.Html](http://Rocam.Unibuc.Ro/Rocam2006/Index1.Html)
10. **Cristina Vladuta,** Anca Duta, Edith Bianca Dobre, Ion Visa, Luminita Isac, Relation Between Composition, Microstructure and Mechanical Properties of Pet – Rubber Composites, <http://www.camis.pub.ro/tqsd06/programme.html>