



PERSONAL INFORMATION

Dorin-loan CATANA



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Sex Male | Date of birth | Nationality Romanian

WORK EXPERIENCE

- 2023 **Expert for the European Commission**
- 2016 - 2019 **European Commission, B-1049, Brussels, Belgium, <http://ec.europa.eu>**
Research, innovation
[Research, innovation](#)
- 1990 - present **Professor (2017 – present), assoc. professor (1998 – 2017), lecturer (1993 – 1998), assistant (1990 –1993)**
Transilvania University of Brasov, B-dul Eroilor no. 29, Brasov, 500036, Romania, <http://www.unitbv.ro>
Education, research
[Education, research](#)
- 1985 - 1990 **Process engineer**
Mechanical Enterprise, Str. Rampei no. 1, Codlea, 505100, Romania, <http://www.mecod.ro>
Maintenance engineer, Process engineer, Design engineer, Production tracking engineer
[Industrial manufacturing](#)

EDUCATION AND TRAINING

- 2016 **Habilitated Doctor**
Transilvania University of Brasov, Faculty of Materials Science and Engineering, Romania
▪ Habilitation as PhD supervisor, in the Industrial engineering field
- March – April 1999 **Businesses valuator** [Training](#)
The National Association of Romanian Valuers, Bucharest, Romania
▪ Businesses valuations, economics and management skills
- 1993 - 1997 **PhD Title in the field of Engineering Sciences** EQF level 8
Transilvania University of Brasov, Brasov, Romania
▪ Cutting tools design, Plastic deformations, Thermomechanical treatments
- 1980 - 1985 **B. Sc. Diploma, Mechanical engineer – Machine-tools specialization** EQF level 7
Transilvania University of Brasov, Faculty of Machine Construction Technology, Romania
▪ Maintenance and management of the machine tools, Skills for the machine tools design and development
- 1975 - 1979 **High school Diploma** EQF level 4
Lyceum no. 1 (IT), Brasov, Romania
▪ Hardware and software knowledge, Programming languages for computers

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Certificate of linguistic competences no. 264/2008. B2					
Italian	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through my experience as member in faculty council, tutor, vice-dean, research projects and through collaboration with industrial enterprises

Organisational / managerial skills

- Vice-dean Faculty of Materials Science and Engineering, vice-head of department, manager of NX (Unigraphics) and Solid Edge training centre of Faculty of Materials Science and Engineering, research management skills acquired as coordinator in international project

Job-related skills

- Knowledge and description of the primary technological processes, characterization methods of the materials properties, cutting tools, thermomechanical treatments, processing technologies for advanced materials, computer aided design (CAD), finite element analysis (FEA)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Very good command of Microsoft Windows and Office™ tools
- Very good command of Siemens-Solid Edge
- Good command of simulation software MSC – SuperForm and FEMAP

Other skills

- Property valuer (real estate and movable properties)

Driving licence

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ADDITIONAL INFORMATION

Publications	1 book published in international publishing house 8 books published in national publishing house 12 papers in ISI Journals 6 papers in ISI Proceedings 8 papers in BDI Journals 32 papers in Romanian Journals
Projects	1 international research grant as coordinator 2 national research grants as coordinator 10 national research projects as member
Presentations	47 presentations at international and national conferences
Citations	h-index – 4 Web of Science – Clarivate Analytics h-index – 4 Scopus

ANNEXES

Last articles	<p>Catana D-I., Brus D-I, Pop M-A – <i>Modelling influence on bending behaviour simulation of the Poly(Lactic Acid) structures, 3D printed</i>, Polymers, Vol. 15, Issue 4, 2023, pp. 1-12, ISSN 2073-4360, WOS:000940905500001, DOI: 10.3390/polym15040960</p> <p>Catana D., Pop M-A, Brus D-I – <i>Comparison between tests and simulations regarding bending resistance of 3D printed PLA structures</i>. Polymers, Vol. 13, Issue 24, 2021, pp. 1-11, ISSN 2073-4360, WOS:000737468300001, DOI:10.3390/polym13244371</p> <p>Catana D., Pop M-A, Brus D-I – <i>Comparison between the test and simulation results for PLA structures 3D printed, bending stressed</i>. Molecules, Vol. 26, Issue 11, 2021, pp. 1-13, ISSN 1420-3049, WOS:000660469500001, DOI: 10.3390/molecules26113325</p> <p>Milosan I, Bedo T., Gabor C., Munteanu D.,...Catana D., Varge B. – <i>Characterization of aluminium alloy-silicon carbide functionally graded materials developed by centrifugal casting process</i>. Applied Sciences, Vol. 11, Issue 4, 2021, pp. 1-14, ISSN 2076-3417, WOS:000632102500001, DOI: 10.3390/app11041625</p> <p>Catana D., Pop M-A. – <i>Studies regarding simulation process to static loading of the structure obtained from polylactic acid (PLA) 3D printed</i>. Journal of Applied Polymer Science, Vol. 138, Issue 6, February 10, pp. 1-12, 2021, ISSN 0021-8995, WOS:000575801800001, DOI: 10.1002/app.50036</p> <p>Catana D., s. a. – <i>Aspects of thermal transfer in heat treatment of alloy steels using concentrated solar energy</i>. Journal of Thermal Analysis and Calorimetry, Vol. 138, nr. 4, pp. 2541-2553, 2019, ISSN 1388-6150, WOS:000499703500017, DOI: 10.1007/s10973-019-08525-w</p>
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Prof. Dr. habil. eng. Dorin-loan CATANA