

PERSONAL INFORMATION



VERMEȘAN Horațiu

 B-dul Muncii 203-105, 400641, Cluj-Napoca, Romania

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 Horatiu.Vermesan@imadd.utcluj.ro

Sex M | Date of birth 30/01/1968 | Nationality Romanian

WORK EXPERIENCE

- 2012-Present **Vice Dean, Faculty of Materials and Environmental Engineering**
 Technical University of Cluj-Napoca (Romania)

 - administrative tasks
- 2020-present **Full Professor**
 Technical University of Cluj-Napoca (Romania)

 - Teaching and research activities
- 2002-2020 **Associate Professor**
 Technical University of Cluj-Napoca (Romania)

 - Teaching and research activities
- 1993-202 **Lecturer**
 Technical University of Cluj-Napoca (Romania)

 - Teaching and research activities
- 1992-1993 **Design engineer**
 S.C. ARMATURA S.A. Cluj-Napoca (Romania)

 - Design and research activities

EDUCATION AND TRAINING

- 2016 - 2020 **Master degree in Risk Assessment and Environmental Safety** Level 8 CEC
 Babes-Bolyai University - Faculty of Environmental Sciences and Engineering, Cluj-Napoca (Romania)
- 2016 - 2017 **Habilitation degree** Level 8 CEC
 Ministry of National Education (Romania)
- 2001 - 2005 **Postgraduate academic studies. Applied Informatics and Programming** Level 8 CEC
 Technical University, Cluj-Napoca (Romania)
- 1997 - 1997 **Waste management and recovery. Clean production technologies.**
 École des mines d'Alès, Alès (France)
- 1995 - 1998 **Doctoral degree** Level 8 CEC
 Technical University, Cluj-Napoca (Romania)
- 1987 - 1992 **Engineer's degree** Level 6 CEC
 Technical University, Cluj-Napoca (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2

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

Communication skills Team spirit, the ability to create relationships based on trust and empathy, the ability to communicate constructively in different social situations, the skills of active listening and counselling, the ability to mediate interpersonal relationships.

Organisational / managerial skills Vice Dean, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca
Member of the University Senate
Member of the Faculty Council.

Job-related skills COURSES: Heat Treatments, Surface Corrosion, Transfer Phenomena and Unit Operations, Technologies with Low Environmental Impact.

Computer skills Social Media / MS Office (MS Word; MS PowerPoint; MS Excel; MS Publisher; MS Outlook; MS Teams) / Team-work oriented / Decision making / Written and Verbal skills / Organizational and planning skills

ADDITIONAL INFORMATION

Publications

1. Tiuc, AE; Borlea, SI; Nemes, O; **Vermesan, H**; Vasile, O; Popa, F; Pinto, R, New Composite Materials Made from Rigid/Flexible Polyurethane Foams with Fir Sawdust: Acoustic and Thermal Behavior, POLYMERS, Volume: 14, Issue: 17, Article Number: 3643, DOI: 10.3390/polym14173643, 2022
2. Uriciuc, W.A.; **Vermesan, H.**; Tiuc, A.E.; Ilea, A.; Bosca, A.B.; Popa, C.O. Casting over Metal Method Used in Manufacturing Hybrid Cobalt-Chromium Dental Prosthetic Frameworks Assemblies, MATERIALS, Volume: 14, Issue: 3, 539, DOI:10.3390/ma14030539, Published: 2021
3. **H. Vermeșan**, A. Mangău, A.-E. Tiuc, Perspectives of Circular Economy in Romanian Space, Sustainability 2020, 12(17), 6819; <https://doi.org/10.3390/su12176819>.
4. Borlea (Muresan) I.S., Tiuc A.E., Nemeș, O., **Vermesan, H.**, Vasile, O., Innovative Use of Sheep Wool for Obtaining Materials with Improved Sound-Absorbing Properties, Materials, Volume: 13 Issue: 4. Pages: 694-707 DOI: <https://doi.org/10.3390/ma13030694> Published: 2020, WOS: 000515503100201
5. **Vermeșan H.**, Tiuc A.-E., Purcar M., Advanced Recovery Techniques for Waste Materials from IT and Telecommunication Equipment Printed Circuit Boards, SUSTAINABILITY, Volume: 12, Issue: 1, Article Number: 74, DOI: 10.3390/su12010074, Published: 2020, WOS:000521955600074
6. Tiuc A.E., Nemeș, O., **Vermesan, H.**, Tamas-Gavrea, D.-R., Vasile, O., New sound absorbing materials obtained from waste rigid polyurethane foam, Materiale Plastice Volume: 56 Issue: 4 Pages: 1021-1027 Published: 2019, WOS: 000509920700050
7. Ancuta Elena Tiuc; Nemes, O.; **H. Vermesan**; Adina Cristina Toma, New sound absorbent composite materials based on sawdust and polyurethane foam, COMPOSITES PART B-ENGINEERING Volume: Issue: 165 Pages: 120-130 DOI: <https://doi.org/10.1016/j.compositesb.2018.11.103> Published: 2019, WOS: 000462803100011
8. Tiuc A.E, Vasile O., **Vermeșan H.**, Platon M.A., Sound Absorbing Insulating Composites Based on Polyurethane Foam and Waste Materials, MATERIALE PLASTICE Volume: 55 Issue: 3 Pages: 419-422 Published: SEP 2018, WOS:000452711500035
9. S Rada, D Cuiibus, **H. Vermesan**, M Rada, E Culea, Structural and electrochemical properties of recycled active electrodes from spent lead acid battery and modified with different manganese dioxide contents, Electrochimica Acta 268, 332-339, 2018. <https://doi.org/10.1016/j.electacta.2018.02.135>, WOS:000427657600038
10. Rus V., **Vermeșan H.**, Hegyi A., Tiuc A.E., Electrochemical impedance spectroscopy study - evolution modeling of corrosion products layer formed at hot dip galvanized rebar-fresh concrete interface, REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS Volume: 46 Issue: 2 Pages: 196-203 Published: 2016, WOS:000378101800008
11. Rada, S., Unguresan, M. L., Bolundut L., Rada M., **Vermesan H.**, Pica M., Culea E., Structural and electrochemical investigations of the electrodes obtained by recycling of lead acid batteries, Journal of Electroanalytical Chemistry, 2016, DOI: 10.1016/j.jelechem.2016.09.025,

WOS:000387626900024

12. Tiuc A.E., Dan V., **Vermeșan H.**, Gabor T., Proorocu M., Recovery Of Sawdust And Recycled Rubber Granules As Sound Absorbing Materials, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 15 Issue: 5 Pages: 1093-1101 DOI: 10.30638/eemj.2016.122 Published: 2016, WOS:000381274100020

13. Rus V., Hegyi A., **Vermeșan H.**, Tiuc A.E., Kinetics of the corrosion process of hot dip galvanized steel reinforcement in fresh concrete, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA Volume: 60 Issue: 2 Pages: 409-419 Published: 2015, WOS:000369161800038

14. Tiuc, A.E., Nemeș, O., Perhaița, I., **Vermeșan, H.**, Gabor, T., Dan, V., Thermal behaviour of polyurethane matrix composite materials, Studia Universitatis Babes-Bolyai Chemia Issue 2, pp. 169-176, Published: 2015, WOS: 000369161800016

15. Chira, M., **Vermesan, H.**, Rus, V., Grunwald, E., Corrosion behavior of zn-ni coatings electrodeposited in pulsed current and magnetic field on different substrates by electrochemical impedance spectroscopy techniques, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Volume: 59 Issue: 1 Pages: 63-78, 2014, WOS:000342867800007

16. Thalmaier, G., Vida-Simiti, I., **Vermesan, H.**, Codrean, C., Chira, M., Amorphous Ni₃₆Zr₃₅Ti₂₉ alloy as bipolar plates for polymer electrolyte membrane fuel cells, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, Volume: 7 Issue: 7-8 Pages: 573-576, 2013, WOS:000323397800022

17. Bulea, CC., Grunwald, E., Mate, A., **Vermesan, H.**, Co-deposition of zinc-cobalt-chromium three-component alloy with nanoscale silicon dioxide II. Properties of the alloy layer, KORROZIOS FIGYELO, Volume: 52 Issue: 2 Pages: 46-51, 2012, WOS:000326577400002

16. Bumbuc, C., Bulea, CC., Rus, V., Grunwald, E. **Vermesan, H.**, Effect of brighteners used in weakly acidic zinc electrolytes on the structure and chemical composition of galvanized Zn-Ni alloy layers, KORROZIOS FIGYELO, Volume: 52 Issue: 1 Pages: 3-6, 2012, WOS:000315421600001

18. Chira, M., **Vermesan, H.**, Rus, V., Grunwald, E., Effect of the intermediate layer composition on tribocorrosion behavior of zinc-nickel alloy, KORROZIOS FIGYELO, Volume: 52 Issue: 4 Pages: 82-85, 2012, WOS:000315421600008

19. Bulea, CC., Mate, A., Grunwald E., **Vermesan, H.**, Co-deposition of zinc-cobalt-chromium three-component alloy with nanoscale silicon dioxide I. Properties of electrolyte, KORROZIOS FIGYELO, Volume: 50 Issue: 1 Pages: 11, 2010, WOS:000277501700003

20. Hegyi, A., **Vermesan, H.**, Bumbuc, C., Influence of anticorrosive protection of the steel concrete upon the resistance to stretching by splitting of the reinforced concrete, METALURGIA INTERNATIONAL, Volume: 15 Issue: 11 Pages: 74-78, 2010, WOS:000280440800014

Projects

1. Innovative Technologies for Advanced Recovery of Materials from Computer and Telecommunications Equipment Waste, PN-III-P1-1.2-PCCDI-2017-0652
2. Nano-crystalline electro-deposits - their processing, character and properties. EC Research Project, NEPCAP
3. Innovative technology for obtaining zinc-nickel alloy coatings with corrosion-resistant composites with nanoscale composites. Innovation Project.
4. Technology for obtaining anticorrosive coatings through nanoparticulate composite co-deposition. Innovation Project.
5. Thermal shock behavior of gradient layers deposited on austenitic stainless steel
6. Research on the application of duplex technologies to austenitic stainless steels
7. Research on Influence of Oxygen on the Structure and Properties of Nitrided and Nitrocarburized Layers

Patents

1. Compoziție liantă pentru aglomerarea produselor pulverulente, CB, 95-00574/23.03.95. Număr brevet 117702 B1, Clasa: C 09 J, 101/02, Număr dosar 95-00574.
2. Stand pentru studiul tribocoroziunii, RO 130936

Scientometric Indicators

Citations: Google Scholar – 230; Scopus + Web of Science – 223
Hirsch index: Google Scholar – 8; Scopus - 7; Web of Science – 7.

Reviewer

Journal of Porous Materials; Progress in Organic Coatings; Polymers; Construction and Building Materials; Materials; Energies; Journal of Cleaner Production; Journal of Composite Materials; Engineering Structures; Applied Sciences; Coatings; Molecules; Polymer Testing

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January 2023

Professor Horațiu Vermeșan

