



PERSONAL INFORMATION

Julieta Daniela Chelaru



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Sex F | Date of birth 09/05/1969 | Nationality Romanian

WORK EXPERIENCE

2017 -present Vice-dean

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

February 2024 -present Asociat Profesor

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

2018 -Februarie 2024 Senior Lecturer

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

2013 - 2018 Junior Lecturer

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

2012 Research Assistant

Technical University of Cluj-Napoca, Romania

EDUCATION AND TRAINING

2008 - 2011 PhD in Material Science

Technical University of Cluj-Napoca, Romania

2007- 2008 Master of Material Science

Technical University of Cluj-Napoca, Romania

1988 - 1993 Metallurgical engineering

Technical University of Cluj-Napoca, Romania

RESEARCH FIELDS

Materials science, metallurgy and corrosion of metals, corrosion protection methods, corrosion control, steel reinforced concrete corrosion, modelling of corrosion processes using COMSOL Multiphysics, maintenance, restoration and preservation of metal structures, casting of works of art.

PERSONAL SKILLS AND COMPETENCES

Social skills and competences

Communication and organizational skills acquired especially thanks to the activities carried out within the faculty: organizing the Open Doors Day event (2017-2023), events promoting science in society, organizing summer schools, the relationship with the socio-economic environment.

Computer skills

Microsoft Office™ tools, Solid Edge, COMSOL Multiphysics, ORIGIN, ZSimpWin Software, Eon XR

ADDITIONAL INFORMATION

Publications	23
Conferences	19
Books	1
References	Studia Universitatis Babes-Bolyai, Heliyon Springer Nature

ERASMUS Mobilities

- National University of Laos, Vientiane, Laos (2016, 2018, 2019),
- Hanoi University of Science and Technology, Vietnam (2016),
- Azerbaijan Technical University, Baku, Azerbaijan (2017),
- Chernivtsi National University, Ucraina (2018),
- Hitit University, Corum, Turkey (2022, 2023),
- University of Sfax, Sfax, Tunisia (2023),
- University of Mostaganem, Algeria (2023),
- Moldova State University, Chisinau, Republic of Moldova (2023)



Listă publicații (selecție)

Julieta Daniela Chelaru, Liana-Maria Muresan, Lucian Barbu, Simona Pinzaru, Tudor-Liviu Tamas, Koloszi Tibor, Characterization of the corrosion products formed on Michael the Brave's equestrian statue in urban atmosphere, *Materials today communications*, **2022**.

Julieta Daniela Chelaru, Maria Gorea, Evaluation of Corrosion in Steel Reinforced Concrete with Brick Waste, *International Journal of Materials and Metallurgical Engineering*,15,8,176-180,**2021**.

Nicoleta Cotolan; Graziella Liana Turdean, *Julieta Daniela Chelaru*, Improving the corrosion resistance of mild steel by zinc-graphene oxide coatings, *Studia Universitatis Babeş-Bolyai, Chemia*,65,3,**2020**.

Julieta Daniela Chelaru, Mihaela Ciobra, Liana Maria Mureşan, Inhibition effect of some commercial corrosion inhibitors on mild steel in 7.0 m phosphoric acid, *Studia Universitatis Babeş-Bolyai, Chemia*,65,1,**2020**

Julieta Daniela Chelaru, Liana Maria Mureşan, Study of S235 steel corrosion process in wastewater from the petrochemical industry, *Studia Universitatis Babeş-Bolyai, Chemia*,64,2, Tom II,323-333,**2019**.

Julieta Daniela Chelaru, Liana Maria Mureşan, Corrosion inhibitors for bronze covered with synthetic golden patina, *Rev. Roum. Chim*,63,1,73-81,**2018**.

Liliana Bizo, Klara Magyari, *Julieta Daniela Chelaru*, Ovidiu Nemeş, Comparative study of structural and optical properties of zirconium-doped indium oxide synthesized by solid state reactions and sol-gel technique, *Powder Metallurgy and Advanced Materials: RoPM&AM 2017*,8,167,**2018**.

Julieta Daniela Chelaru, Călin Ioan Anghel, Maria Gavriloe, Liana M Mureşan, Electrochemical and meta-modelling analysis of the inhibiting effect exerted by sulfuric acid diamide on bronze corrosion, *REVUE ROUMAINE DE CHIMIE*,62,1,49-56,**2017**.

Julieta Daniela Chelaru, Firuta Goga, Maria Gorea, Corrosion and mechanical properties and microstructure of cement mortar containing calcium sulphate waste, *Studia Universitatis Babeş-Bolyai, Chemia*,62,**2017**.

Tiberiu Alexandru Antal, *Julieta Daniela Chelaru*, A multithreaded java client-server model for robot interaction, *Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering*,60,3,**2017**.

Julieta Daniela Chelaru, Dovran Aylakov, Liana Maria Mureşan, Corrosion inhibition of low carbon steel in simulated wastewater from petroleum industry, *Studia Universitatis Babeş-Bolyai, Chemia*,62,**2017**.

Julieta Daniela Chelaru, Maria Gavriloe, Liana Maria Muresan, Electrochemical investigation of the inhibiting effect exerted by the sulfuric acid diamide on bronze corrosion, *Studia Universitatis Babeş-Bolyai, Chemia*,61,**2016**.

Julieta Daniela Chelaru, Lucian Barbu-Tudoran, *Liana Maria Muresan*, the effectiveness of wax in protection of bronzes covered with artificial patina in outdoor exposure, *Studia Universitatis Babeş-Bolyai, Chemia*,151,**2015**.

Julieta Daniela Chelaru, Liana Maria Mureşan, 2-mercapto-5-acetylamino-1, 3, 4-thiadiazole as corrosion inhibitor for a naturally patinated monumental bronze artifact, *Studia UBB Chemia*,59,91-102,**2014**.

Julieta Daniela Chelaru, Liana Maria Muresan, Vasile Filip Soporan, Ovidiu Nemes, Lucian Barbu-Tudoran, Investigation of a naturally patinated bronze artifact originating from the outdoor statuary group of Mathias Rex, *Journal of Cultural Heritage*,15,5,546-549,**2014**.

Julieta Daniela Chelaru, Lucian Barbu-Tudoran, Liana Maria Mureşan, Protection of artistic bronzes by artificial patina and wax, *Studia Universitatis Babeş-Bolyai, Chemia*,58,4,**2013**.

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