

LISTĂ LUCRĂRI

a. Lucrări considerate a fi cele mai relevante pentru realizările proprii

1. **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**, DOI: 10.1016/j.mtcomm.2022.103565, WOS:000802775400002, **FI = 3,662**
2. 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, DOI: 10.24193/subbchem.2020.3.02, **WOS: 000581042000003, FI = 0,447.**
3. **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, DOI: 10.24193/subbchem.2020.1.02, WOS: 000526912600003, **FI = 0,447.**
4. **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, DOI: 10.24193/subbchem.2019.2.27, WOS: 000484542200003, **FI = 0,494.**
5. **Julieta Daniela Chelaru**, Liana Maria Mureşan, Corrosion inhibitors for bronze covered with synthetic golden patina, Rev. Roum. Chim,63,1,73-81,2018, WOS: 000439133900010, **FI = 0,275.**
6. **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, DOI: 10.24193/subbchem.2017.4.30, WOS: 000425964800031, **FI = 0,305.**
7. **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**, DOI: 10.24193/subbchem.2017.2.21, WOS: 000417263800009, **FI= 0,305.**
8. **Julieta Daniela Chelaru**, Calin I. Anghel, Maria Gavriloae, Liana Maria Mureşan, **2017**, Electrochemical and meta-modelling analysis of the inhibiting effect exerted by sulfuric acid diamide on bronze corrosion, Revue Roumaine de Chimie, 62, 49 – 56, **WOS: 000395957100007, FI = 0,4.**
9. **Julieta Daniela Chelaru**, Maria Gavriloae, Liana Maria Mureşan, **2016**, Electrochemical investigation of the inhibiting effect exerted by the sulphuric acid diamide on bronze corrosion, Studia UBB Chemia, 3, Tom I, 125 – 134, WOS: 000393577300014, FI = 0,244.
10. **Julieta Daniela Chelaru**, Liana Maria Mureşan, Vasile Filip Soporan, Ovidiu Nemeş, Lucian Barbu-Tudoran, **2014**, Investigation of a naturally patinated bronze artifact originating from the outdoor statuary group of Mathias Rex, Journal of Cultural Heritage, 15, 546 – 549, FI = 1,11.

b. Teza de doctorat

1. Contribuții la studiul degradării și conservării bronzurilor turnate din operele de artă, **2011**. Conducători științifici Prof. Dr. Ing. Vasile Filip Soporan, Prof. Dr. Liana Maria Mureșan.

c. Brevete de invenție și alte titluri de proprietate industrială -

d. Cărți și capitole în cărți

1. Călin I. Anghel, **Julieta D. Chelaru**, Elemente de Inginerie Mecanică. Mecanică și rezistența materialelor, Editura Risoprint, **2015**

e. Articole/studii, publicate în reviste din fluxul științific internațional principal

1. **Julieta Daniela Chelaru**, Maria Oana Felecan, The study of the corrosion zinc-nickel coated ST2 stainless steel, MACHINES. TECHNOLOGIES. MATERIALS. vol 3, 2023

2. **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**.

3. Liliana Bizo, Klara Magyari, **Julieta Daniela Chelaru**, Ovidiu Nemeș, 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**.

4. 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**.

5. **Julieta Daniela Chelaru**, Lucian Barbu – Tudoran, Liana Maria Mureșan, **2015**, The effectiveness of wax in protection of bronzes covered with artificial patina in outdoor exposure, Studia UBB Chemia, 3, vol. 60, 151 - 162.

6. **Julieta Daniela Chelaru**, Liana Maria Mureșan, **2014**, 2-Mercapto-5-Acetylamino-1,3,4-Thiadiazole as Corrosion Inhibitor for a naturally Patinated Monumental Bronze Artifact, Studia UBB Chemia, 3, 91 - 102.

7. **Julieta Daniela Chelaru**, Lucian Barbu-Tudoran, Liana Maria Mureșan, **2013**, Protection of Artistic Bronzes by artificial Patina and Wax, Studia UBB Chemia, 4, 173 - 182.

8. Călin I. Anghel, **Daniela J. Chelaru**, **2013**, Metamodeling Level of Pollution Based on Operating Parameters of a Thermo Power Station, Studia UBB Chemia, 4, 41-52.

9. **Julieta Daniela Chelaru**, Liana Maria Mureșan, Vasile Filip Soporan, Ovidiu Nemeș, Tibor Kolozsi, **2012**, Investigation of corrosion protection by chemically applied patina on artistic bronzes, Fascicle IX. Metallurgy and Materials Science, 2, 89 – 94.

10. **Julieta Daniela Chelaru**, Liana Maria Mureșan, Vasile Filip Soporan, Ovidiu Nemeș, Tibor Kolozsi, **2011**, A study on the corrosion resistance of bronzes covered with artificial patina”, International Journal of Conservation Science, 2, 109 - 116.

11. **Julieta Daniela Chelaru**, Vasile Filip Soporan, Ovidiu Nemeș, **2010**, Time analysis of King Matthias The I Sculptural Group, International Journal of Conservation Science, 1, 69 - 74.

f. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;

1. **Julieta Daniela Chelaru**, Ovidiu Nemeș, Vasile Filip Soporan, Tibor Kolozsi, Voicu Duca, *The influence of the environmental factors on the King Matthias Sculptural Group*, International Conference 16th Building Services, Mechanical and Building Industry Days, **Debrecen, Ungaria, 2010**.

2. Tiberiu Kolozsi, **Julieta Daniela Chelaru** *Aspects regarding the restoration of a large sculptural group. Case study: the sculptural group of Mathias I in Cluj – Napoca*”, Romania, 6TH International Conference on Interdisciplinarity in Education ICIE’11: Education, Research, Innovation in Engineering and Related Disciplines & Jointly International Steering Committee Meeting, 2011, **Karabuk / Safranbolu, Turkey, 2011**.

g. Alte lucrări și contribuții științifice

1. **Julieta Daniela Chelaru**, Tibor Kolozsi, Study of the influence of environmental factors on degradation of monumental art cast bronze, **2012**, Acta Technica Napocensis, Environmental Engineering and Sustainable Development Entrepreneurship, 1, 55 – 62.

2. **Julieta Daniela Chelaru**, Considerații asupra oportunităților antreprenoriale cu privire la turnătoriile de artă ecologice, Conferința „Antreprenariat, mediu de afaceri și dezvoltare durabilă” – AMDD **2012**, 95 – 102.

3. **Julieta Daniela Chelaru**, Andreea Hegyi, *Restaurarea Grupului Sculptural Matei Corvin din Cluj-Napoca, Romania*, Coroziune și protecție anticorozivă, **2010**, V, 4, ISSN 1842 - 0346.

Conferințe:

1. **Julieta Daniela Chelaru**, Evaluation of corrosion in steel reinforced concrete using COMSOL Multiphysics 5th International Conference on Recent Advancements in Engineering & Technology (ICRAET -23), Goa, India, 2023, Prezentare orală.
2. Julieta Daniela Chelaru, Oana Felecan, The study of the corrosion zinc-nickel coated ST2 stainless steel, XXTH JUBILEE INTERNATIONAL CONGRESS MACHINES. TECHNOLOGIES. MATERIALS’23, Varna, Bulgaria 2023.
3. Julieta Daniela Chelaru, Raluca Septelean, Ioana Luiza Gaina, Corrosion inhibition of steel in the process industry using phenothiazine derivatives, 4th Science & Engineering of Polymeric materials, Hammamet, Tunisia, 10-14 mai 2023, Poster.

4. Julieta Daniela Chelaru, "Investigating the corrosion of bronze used for outdoor sculptures, XIX INTERNATIONAL CONGRESS - WINTER SESSION "MACHINES.TECHNOLOGIES. MATERIALS 2022", 09 - 12.03.2022 BOROVIETS, BULGARIA, Poster.
5. Julieta Daniela Chelaru, Tibor Kolozsi, The study on the casting and assembly of equestrian statues from the 20th century, Case Study. 2ND INTERNATIONAL VIRTUAL MEETING ON MATERIAL SCIENCE AND NANOTECHNOLOGY, October 25-26, 2021, Prezentare orală.
6. Julieta Daniela Chelaru, Maria Gorea, Evaluation of Corrosion in Steel Reinforced Concrete with Brick Waste, 15th International Conference on Corrosion Engineering, Control and Protection, 16-17 August 2021 Barcelona, Prezentare orală.
7. Nicoleta Cotolan (Ignat), Diana Bogdan, Julieta Daniela Chelaru, The Study of Green Corrosion Inhibition on Carbon Steel Using Acidic Media, 12th International Conference Processes In Isotopes And Molecules, 25-27 September 2019, Cluj-Napoca, Romania. Poster.
8. Maria Gorea, Julieta Daniela Chelaru, Liliana Antonela Bizo, Adriana Tanase, GYPSUM-BASED MORTARS WITH ADDITION OF WASTE FOR CONSTRUCTION, 12th International Conference Environmental Legislation Safety Engineering and Disaster Management ELSEDIMA 2018, ISBN: 978-606-93873-1-3.
9. BIZO LILIANA-ANTONELA, MAGYARI KLARA DOROTTYA, CHELARU JULIETA DANIELA, Nemes Ovidiu, Comparative study of structural and optical properties of zirconium-doped indium oxide synthesized by solid state reactions and sol-gel technique, 5th International Conference on Powder Metallurgy and Advanced Materials, 17-20 September 2017, Cluj-Napoca, Romania. Poster.
10. Julieta Daniela Chelaru, Dovran Aylakov, Liana Maria Mureșan, CORROSION INHIBITION OF CARBON STEEL IN WASTEWATER FROM PETROLEUM AND OIL INDUSTRY, International U.A.B - BENA Conference, Alba Iulia, 25-27 May 2017. Poster.
11. Julieta Daniela Chelaru, The restoration and conservation of a piece of art made by casting, 2nd International Scientific and Technical Conference Problems of Metallurgy and Material Science, 28-30 November 2017, AzTu, Baku, Azerbaijan.
12. Julieta Daniela Chelaru, Madalina Gavrioloaie, Liana Maria Mureșan, The sulfuric diamide in the anticorrosion protection of artistic bronze, International U.A.B - BENA Conference, Alba Iulia, 28-30 May 2015. Poster.
13. Julieta Daniela Chelaru, Oportunitati antreprenoriale privind realizarea obiectelor decorative, Antreprenoriat, mediu de afaceri si dezvoltare durabila, 2013.
14. J. D. Sabau (Chelaru), L. M. Muresan, V. F. Soporan, O. Nemes, T. Kolozsi STUDY ON THE CORROSION RESISTANCE OF BRONZES COVERED WITH ARTIFICIAL PATINA, „NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING - TEME 2011” Galati, 2011.

15. Kolozsi Tiberiu, Julieta Daniela Chelaru, Simona Malureanu, Aspects Regarding the Restoration of a Large Sculptural Group. Case Study: The Sculptural Group of Mathias I in Cluj-Napoca, Romania, 6TH INTERNATIONAL CONFERENCE ON INTERDISCIPLINARITY IN EDUCATION ICIE'11: RESEARCH IN ENGINEERING AND RELATED DISCIPLINES, April 14-16, 2011, Karabuk/Safranbolu, Turkey
16. Julieta Daniela Sabau (Chelaru), Ovidiu Nemes, Tibor Kolozsi, The influence of the environmental factors on the King Matthias Sculptural Group, International Conference 16th Building Services, Mechanical and Building Industry Days, 14-15 Octombrie 2010, Debrecen, Ungaria.
17. Tiberiu Kolozsi, Radu Moraru, Alexandru Pasat, Oana Mara Gui, Daniela-Julieta Chelaru Digital techniques in Reinforcement and Conservation of a Large Sculptural Group. Case Study: The Sculptural group of Mathias I in Cluj- Napoca, Romania. 5th International Conference on Interdisciplinarity in Education- ICIE' 10, June 17- 19 2010, Tallinn, Estonia
18. Julieta Daniela Sabau (Chelaru), V. F. Soporan, O. Nemes, T. Kolozsi, Analiza Tehnicilor de Execuție a Grupului Statuar „Matei Corvin” [Analysis of the Technical Performance of „Matei Corvin” Statue], A 20-a CONFERINȚĂ NAȚIONALĂ DE TURNĂTORIE, 2010, Brasov.