***ANEXA 4.1***

Nume Prenume: **Chelaru Julieta Daniela**

Gradul didactic: conferentiar

Instituția unde este titular: Universitatea Babeș-Bolyai

Facultatea: de Chimie și Inginerie Chimică

Departamentul: Inginerie Chimică

**LISTA**

**lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic**

1. **Teza de doctorat**

Doctorat in Ingineria Materialelor - “Contribuţii la studiul degradării şi conservării bronzurilor turnate din operele de artă”

1. **Cărţi si capitole în cărţi publicate în ultimii 10 ani**

B1. Elemente de Inginerie Mecanică: Mecanica și Rezistența Materialelor

1. **Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

C1.

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 Babes-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 Babes-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 Babes-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 Babes-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 suphuric acid diamide on bronze corrosion**, Studia UBB Chemia, 3, Tom I, 125 – 134, WOS: 000393577300014, FI = 0,244.

10. 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**.

11. **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**.

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

1. **Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi**

**(neindexate)**

D1. **- Selecţie cu maximum 20 lucrări în volume de conferinţe**

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. 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**.

3. 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 orala.

4. 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.

* 1. **Brevete obţinute în întreaga activitate**

E1. -

**Data: 01.07.2025 Semnătura:**

E – Brevete (pentru întreaga activitate)