

Autorul tezei de abilitare: **Conf. dr. ing. Ionuț Claudiu ROATĂ**

Titlul tezei de abilitare: **Advancements in industrial thermal spraying: process optimization, coating development, and novel applications**

Domeniul: **Inginerie industrială**

Portofoliu de lucrări

- 1 **I.C. Roata**, C. Croitoru, A. Pascu, E.M. Stanciu, I. Hulka, I. Petre, C. Gabor, D. Patroi, B.G. Sbarcea, Surface engineering of Ni-Al coatings through concentrated solar heat treatment, Applied Surface Science, 2020, 506, 144185, ISSN 0169-4332, SRI 1.32, FI **6.18** (Q1)
WOS:000512983600137
[link](#)
- 2 C. Croitoru*, **I.C. Roata***, A. Pascu, E.M. Stanciu, I. Hulka, G. Stoian, N. Lupu, Photocatalytic surfaces obtained through one-step thermal spraying of titanium, Elsevier, Applied Surface Science, 2020, 504, 144173, ISSN 0169-4332, SRI 1.32, FI **6.18** (Q1) (**autor corespondent**)
WOS:000502040600179
[link](#)
- 3 **I. C. Roată**, C. Croitoru, A. Pascu, E.M. Stanciu, Characterization of physically crosslinked ionic liquid-lignocellulose hydrogels, BioResources 13(3), 6110-6121, 2018, FI **1.39** (Q2)
WOS:000440506300095
[link](#)
- 4 **I. C. Roată**, C. Croitoru, A. Pascu, E.M. Stanciu, Photocatalytic performance of copper-based coatings deposited by thermal spraying, Journal of Materials Science: Materials in Electronics, 29, (13), 11345–11357, 2018, FI **2.19** (Q2)
WOS:000435588600069
[link](#)
- 5 **I.C. Roata**, C. Croitoru, A. Pascu, E.M. Stanciu, Photocatalytic coatings via thermal spraying: a mini-review, AIMS Materials Science, 2019, 6(3), pp. 335- 353, ISSN 2372-0468, FI **0.2**
WOS:000471016400003
[link](#)
- 6 Cătălin Croitoru*, **Ionut Claudiu Roata***, Ionic Liquids as Antifungal Agents for Wood Preservation, Molecules, 2020, 25(18), 4289, e-ISSN 1420-3049, SRI 0.87, FI **3.27**, (Q2) (**autor corespondent**)

WOS:000580097000001

[link](#)

- 7 Cătălin Croitoru*, **Ionut Claudiu Roata***, Alkylimidazolium Ionic Liquids Absorption and Diffusion in Wood, Applied Sciences, 2021, 11(16), 7640, e-ISSN 2076-3417, SRI 0.52, **FI 2.8**, (Q2) (**autor corespondent**)

WOS:000688576400001

[link](#)

- 8 **Ionut Claudiu Roata**, Ioan PLAMADIALA, Ionut UNCU, MULTIFUNCTIONAL Ni-Cr-Al-Y COATINGS VIA THERMAL SPRAYING, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, 2023, 66,5, e-ISSN 1221 – 5872, **FI 0.1**

WOS:001267255200035

[link](#)

- 9 Ionut Uncu, **Ionut Claudiu Roata***, Catalin Croitoru*, Teodor Machedon-Pisu, Visible Domain Photocatalysis Performance of Ti-Si Thermal-Sprayed Coatings, Sustainability, 2022, 14(1), 85, e-ISSN 2071-1050, SRI 0.61, **FI 3.88**, (Q2) (**autor corespondent**)

WOS:000752660700001

[link](#)

- 10 Cătălin Croitoru*, **Ionut Claudiu Roata***, Teodor Machedon-Pisu, Arthur Olah, Austenitic Stainless Steel as a Catalyst Material for Photo-Fenton Degradation of Organic Dyes, Applied Sciences, 2022, 12(3), 1008, e-ISSN 2076-3417, SRI 0.52, **FI 2.8**, (Q2) (**autor corespondent**)

WOS:000759842400001

[link](#)

Data: 11.06.2025

Conf. dr. ing. Ionuț Claudiu ROATĂ