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# Ana-Maria Roman

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**Adresă:** Str Prof Doc Dimitrie Mangeron no. 41, 700050, Iasi, România (Muncă)

## DESPRE MINE

Brainmap ID: U-2100-067G-4037
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## EXPERIENȚA PROFESIONALĂ

2020 – ÎN CURS Iași, România
**ASISTENT UNIVERSITAR** UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI, FACULTATEA DE ȘTIINȚA ȘI INGINERIA MATERIALELOR

04/2019 – 09/2020 Iași, România
**INGINER MECANIC** SC CLR HYDRAULICS SRL

## EDUCAȚIE ȘI FORMARE PROFESIONALĂ

2020 – ÎN CURS Iasi, România
**STUDENT DOCTORAND, DOMENIUL INGINERIA MATERIALELOR** Universitatea Tehnică "Gheorghe Asachi" din Iași

2018 – 2020 Iași, România
**DIPLOMĂ DE MASTER - SISTEME INDUSTRIALE ȘI TEHNOLOGII MODERNE** Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică "Gheorghe Asachi" din Iași

2014 – 2018 Iași, România
**DIPLOMĂ DE INGINER ÎN ȘTIINȚA MATERIALELOR** Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică "Gheorghe Asachi" din Iași

## COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

| | COMPREHENSIUNE | | VORBIT | | SCRIS |
|---|---|---|---|---|---|
| | Comprehensiune orală | Citit | Exprimare scrisă | Conversație | |
| **FRANCEZĂ** | B2 | B2 | B2 | B2 | B1 |
| **ENGLEZA** | B2 | B2 | B2 | B2 | B1 |

*Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat*

## COMPETENȚE DIGITALE

Autocad 2d | Proiectare SolidWorks 3D | Sistem Electronic de Achizitii Publice (SEAP) | Creeare si editare site-uri | Cunoașterea bună a pachetului Microsoft Office (în special Excel, Word, PowePoint) | cunoștințe Matlab | HTML programming language

## INFORMAȚII SUPLIMENTARE

## CERTIFICATE DE CALIFICARE ȘI COMPETENȚE

**Inspector în domeniul securității și sănătății în muncă**

**Formator/Trainer**

**Competențe digitale de utilizare a tehnologiei informației ca instrument de învățare și cunoaștere**

**Competențe antreprenoriale**

**Absolvent al programului de formare psihopedagogică - Nivel I și Nivel II**

## PUBLICAȚII

**Influence of Dynamic Strain Sweep on the Degradation Behavior of FeMnSi–Ag Shape Memory Alloys**

**AM Roman**, R Cimpoeșu, B Pricop, NM Lohan, MM Cazacu, LG Bujoreanu, C Panaghie, G Zegan, N Cimpoeșu, *Influence of Dynamic Strain Sweep on the Degradation Behavior of FeMnSi–Ag Shape Memory Alloys*, JOURNAL OF FUNCTIONAL BIOMATERIALS 14, 377, (2023). **IF=4,901 (Q2)**

**In-Vitro Analysis of FeMn-Si Smart Biodegradable Alloy**

**AM Roman**, V Geantă, R Cimpoeșu, C Munteanu, NM Lohan, G Zegan, ER Cernei, I Ioniță, N Cimpoeșu, N Ioanid, *In-Vitro Analysis of FeMn-Si Smart Biodegradable Alloy*, MATERIALS 15 (2), 568, (2022). **IF=3,748 (Q1)**

**Microstructure, shape memory effect, chemical composition and corrosion resistance performance of biodegradable FeMnSi-Al alloy**

**AM Roman**, I Voiculescu, R Cimpoeșu, B Istrate, R Chelariu, N Cimpoeșu, G Zegan, C Panaghie, NM Lohan, M Axinte, AM Murariu, *Microstructure, shape memory effect, chemical composition and corrosion resistance performance of biodegradable FeMnSi-Al alloy*, CRYSTALS 13, 109, (2023). **IF=2,7 (Q2)**

**Analysis of the Corrosion Rate of FeMn-Si Biodegradable Material**

**AM Roman**, R Chelariu, R Cimpoeșu, I Știrbu, I Ioniță, MM Cazacu, BA Prisecariu, N Cimpoeșu, P Pietrusiewicz, A Sodor, *Analysis of the Corrosion Rate of FeMn-Si Biodegradable Material*, ARCHIVES OF METALLURGY AND MATERIALS 67, 1-8, (2022). **IF=0,633 (Q4)**

**Analysis of Degradation Products of Biodegradable ZnMgY Alloy**

C Panaghie, G Zegan, A Sodor, N Cimpoeșu, NM Lohan, B Istrate, **AM Roman***, N Ioanid, *Analysis of Degradation Products of Biodegradable ZnMgY Alloy*, MATERIALS 16 (8), 3092, (2023). **IF=3,748 (Q1)**

**New Zn3Mg-xY Alloys: Characteristics, Microstructural Evolution and Corrosion Behavior**

C Panaghie, R Cimpoeșu, B Istrate, N Cimpoeșu, MA Bernevig, G Zegan, **AM Roman**, R Chelariu, A Sodor, *New Zn3Mg-xY Alloys: Characteristics, Microstructural Evolution and Corrosion Behavior*, MATERIALS 14 (10), 2505 (2021). **IF=3,748 (Q1)**

**In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF)**

C Panaghie, R Cimpoeșu, G Zegan, **AM Roman**, MC Ivănescu, AA Aelenei, M Benchea, N Cimpoeșu, N Ioanid, *In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF)*, APPLIED SCIENCES 12 (5), 2727, (2022). **IF=2,838 (Q2)**

**“In-vitro” Tests on New Biodegradable Metallic Material Based on ZnMgY**

C Panaghie, N Cimpoeșu, M Benchea, **AM Roman**, V Manole, A Alexandru, R Cimpoeșu, MM Cazacu, I Wnuk, G Zegan, *“In-vitro” Tests on New Biodegradable Metallic Material Based on ZnMgY*, ARCHIVES OF METALLURGY AND MATERIALS 67 (2), 587-594 (2022). **IF=0,633 (Q4)**

### Activation of CuAlNi SMAs Using Solar Energy

CI Tudora, N Cimpoeșu, S Stanciu, DC Anghel, GA Plăiașu, M Coteață, **AM Roman**, R Cimpoeșu, M Abrudeanu, *Activation of CuAlNi SMAs Using Solar Energy*, Journal of Engineering Sciences and Innovation 5 (2), 0297-0302 (2020), **Google Scholar**

### Chemical and structural analysis of experimental biodegradable ZnMgY alloy

C Panaghie, R Cimpoeșu, A Alexandru, MA Bernevig, V Manole, **AM Roman**, BA Prisacariu, P Paraschiv, N Cimpoeșu, *Chemical and structural analysis of experimental biodegradable ZnMgY alloy*, IOP Conference Series: Materials Science and Engineering 1037, 012034 (2021), **Scopus**, **Google Scholar**

### Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique

M Lutcanu, C Munteanu, G Kicsi, **AM Roman**, CG Croitoru, BA Prisecariu, MM Cazacu, I Știrbu, DL Chicet, N Cimpoeșu, *Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique*, Materials Today: Proceedings, 72 (2), 550-553 (2023), **Scopus**, **Google Scholar**

### Short Description Over The Corrosion Rate on Iron-based Biodegradable Metals

**AM Roman**, C Nejneru, R Cimpoeșu, V Manole, P Paraschiv, M Antonovici, A Alexandru, N Cimpoeșu, *Short Description Over The Corrosion Rate on Iron-based Biodegradable Metals*, Bulletin of the Polytechnic Institute of Iași, published by "Gheorghe Asachi" Technical University of Iași, Section Materials Science and Engineering, Volume 64 (68), Number 1-4, page 37 (2018), **Google Scholar**

### Analysis of chemical reactions occurring on contact between a biodegradable Fe-Mn alloy and an electrolyte solution

**AM Roman**, N Cimpoeșu, *Analysis of chemical reactions occurring on contact between a biodegradable Fe-Mn alloy and an electrolyte solution*, Bulletin of the Polytechnic Institute of Iași, published by "Gheorghe Asachi" Technical University of Iași, Section Materials Science and Engineering, (2023), **Google Scholar**

### General View of Biodegradable Zinc Alloys

C Panaghie, **AM Roman**, M Tufescu, M Dumitru, HC Slabu, G Bădărău, N Cimpoeșu, *General View of Biodegradable Zinc Alloys*, Bulletin of the Polytechnic Institute of Iași, published by "Gheorghe Asachi" Technical University of Iași, Section Materials Science and Engineering, Volume 64 (68), Number 1-4, page 27 (2018), **Google Scholar**

### Preliminary Results on the Analysis of Materials Used in Micro-Electronics

I Adomniței, **AM Roman**, V Manole, C Panaghie, N Cimpoeșu, *Preliminary Results on the Analysis of Materials Used in Micro-Electronics*, Bulletin of the Polytechnic Institute of Iași, published by "Gheorghe Asachi" Technical University of Iași, Section Materials Science and Engineering, Volume 67 (71), Number 3-4 (2021), **Google Scholar**

### Metallic Materials with Damping Capacity for Automotive Applications

TI Birnoveanu, S Mistreanu, AM Scripcariu, **AM Roman**, C Paraschiv, N Cimpoeșu, *Metallic Materials with Damping Capacity for Automotive Applications*, Bulletin of the Polytechnic Institute of Iași, published by "Gheorghe Asachi" Technical University of Iași, Section Materials Science and Engineering, Volume 68 (72), Number 1-4, (2022), **Google Scholar**

## LUCRĂRI COMUNICATE ÎN CADRUL CONFERINȚELOR INTERNAȚIONALE

### Investigation on the properties of iron based biodegradable materials

**AM Roman**, N Cimpoeșu, *Investigation on the properties of iron based biodegradable materials*, "Gheorghe Asachi" Technical University of Iași, 4th International Conference of the Doctoral School, May 19 - 21, 2021, Iași, România – prezentare orală în limba engleză

### Investigation of biodegradability properties for FeMnSi alloy

**AM Roman**, N Cimpoeșu, *Investigation of biodegradability properties for FeMnSi alloy*, "Gheorghe Asachi" Technical University of Iași, 5th International Conference of the Doctoral School, May 18 - 20, 2022, Iași, România – prezentare orală în limba engleză

### Evaluation of experimental Fe-Mn based alloys as biodegradable materials

**AM Roman**, N Cimpoeșu, *Evaluation of experimental Fe-Mn based alloys as biodegradable materials*, "Gheorghe Asachi" Technical University of Iași, 6th International Conference of the Doctoral School, May 17 - 19, 2023, Iași, România – prezentare orală în limba engleză

**Analysis of the corrosion rate of iron-based biodegradable metals**

**AM Roman**, N Cimpoeșu, *Analysis of the corrosion rate of iron-based biodegradable metals*, 6th European Corrosion Management, 17-18 November (**NACE 2020**) – prezentare orală în limba engleză

**Chemical and structural analysis of experimental biodegradable ZnMgY alloy**

C Panaghie, R Cimpoeșu, A Alexandru, M Bernevig, V Manole, **AM Roman**, BA Prisacariu, P Paraschiv, N Cimpoeșu, *Chemical and structural analysis of experimental biodegradable ZnMgY alloy*, Innovative Manufacturing Engineering & Energy International Conference, 14 – 15 December (**IManEE 2020**)

**Analysis of the Corrosion Rate of FeMn-Si Biodegradable Material**

**AM Roman**, R Chelariu, R Cimpoeșu, I Știrbu, I Ioniță, MM Cazacu, BA Prisecariu, N Cimpoeșu, P Pietrusiewicz, A Sodor, *Analysis of the Corrosion Rate of FeMn-Si Biodegradable Material*, International Conference on Innovative Research, 20 – 21 May, Iași, România (**ICIR 2021**) – prezentare orală în limba engleză

**"In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY**

C Panaghie, N Cimpoeșu, M Benchea, **AM Roman**, V Manole, A Alexandru, R Cimpoeșu, MM Cazacu, I Wnuk, G Zegan, *"In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY*, International Conference on Innovative Research, 20 – 21 May, Iași, România (**ICIR 2021**)

**Comparative study for new biodegradable alloys based on Fe and Zn**

**AM Roman**, C Panaghie, R Cimpoeșu, I Ioniță, P Paraschiv, N Cimpoeșu, *Comparative study for new biodegradable alloys based on Fe and Zn*, 12th International Conference on Materials Science & Engineering, 9-12 March, Brașov, România (**BraMat 2022**)

**Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique**

M Lutcanu, C Munteanu, G Kicsi, **AM Roman**, C Croitoru, BA Prisecariu, MM Cazacu, I Știrbu, DL Chicet, N Cimpoeșu, *Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique*, 12th International Conference on Materials Science & Engineering, 9-12 March Brașov, România (**BraMat 2022**) – prezentare poster

**Fe-Mn-based alloys investigated as possible biodegradable materials**

**AM Roman**, N Cimpoeșu, *Fe-Mn-based alloys investigated as possible biodegradable materials*, 6th International Conference of Chemical Engineering, 5-7 October, Iași, România (**ICCE 2022**) – prezentare orală în limba engleză

## PROIECTE

**CONTRACT DE GRANT INTERN pentru finanțare proiecte Nr. GIff 17 IDEI/2021 - membru**

**CONTRACT DE GRANT INTERN pentru finanțare proiecte Nr. GI/P2/2021, Denumire Program: Granturi interne – PUBLICAȚII - membru**

**Proiect ROSE SGCU PV, AG nr. 341/SGU/PV/III din 27.07.2020 (CESIM) - membru**

**Proiect ROSE SGCU PV, AG nr. 118/ 07.05.2019 – membru**