

MEMORIU ȘTIINȚIFIC
Drd. ȘOLEA (IORDĂCHESCU) Marina Roxana

Studii de doctorat

Perioada: 1.10.2020-17.07.2025

Conducător științific: Prof.univ.habil.dr.ing.ec SEMENESCU Augustin

Domeniul: Inginerie și Management

Titlul tezei de doctorat: IDENTIFYING OPTIMAL SOLUTIONS FOR THE MAINTENANCE AND UPKEEP OF MEDICAL INSTRUMENTS

Activitate științifică (se vor lăsa doar cele care se aplică)

A. Lista de lucrări științifice (articole în reviste sau volume)

Articole publicate în reviste WOS (Web of Science) din zona roșie/galbenă (Q1/Q2)

1. **Thermodynamic Assessment of Molten Bix-Sn1-x ($x=0.1$ to 0.9) Alloys and Microstructural Characterization of Some Bi-Sn Solder Alloys**, By Niculescu, F (Niculescu, Florentina); Pencea, I (Pencea, Ion); Iacob, G (Iacob, Gheorghe); Ghita, M (Ghita, Mihai); Stanescu, MM (Stanescu, Mariana-Mirela); Petrescu, MI (Petrescu, Mircea-Ionut); Niculescu, EL (Niculescu, Emanuel-Laurentiu); Butu, M (Butu, Mihai); Stancel, CD (Stancel, Constantin-Domenic); Serban, N (Serban, Nicolae); **Solea, RM (Solea, Roxana-Marina)**; Ilie, AA (Ilie, Andrei-Alexandru), Source: **MATERIALS**, Volume 17, Issue 7, DOI10.3390/ma17071579, Article Number 1579, Published APR 2024, Indexed 2024-04-17, Document Type Article, Language English, Accession Number **WOS:001201626400001**, PubMed ID 38612093, eISSN 1996-1944, IDS Number NP3W4, **Journal Impact Factor™ 3.1, Category Quartile (Metallurgy & Metallurgical Engineering) Q1**

Articole publicate în reviste cotate WOS (Web of Science)

1. **PRELIMINARY STUDY OF TiN AND TiCN COATINGS FOR STAINLESS STEEL SURGICAL INSTRUMENTS**, By **Iordachescu, MRS (Iordachescu, Marina Roxana Solea)** ; Semenescu, A (Semenescu, Augustin) ; Blajan, AI (Blajan, Adriana Ileana; Bitu, AI (Bitu, Ana-Iulia); Ciocoiu, R (Ciocoiu, Robert); Antoniac, I (Antoniac, Iulian), Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 4, Published 2024, Indexed 2025-01-01, Document Type Article, Categories/ Classification: Research Areas Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, Language English, Accession Number: **WOS:001380943500022**, ISSN, 1454-2331, IDS Number, P9I0Z, Journal Impact Factor™ (2023): 0,3, Category Quartile: Q4.
2. **A STUDY OF THE SURFACE FREE ENERGY OF STAINLESS STEEL SURGICAL INSTRUMENTS**, By: **Solea, MR (Solea (Iordachescu), Marina Roxana)**; Semenescu, A (Semenescu, Augustin); Ileana, A (Ileana (Blajan), Adriana); Ciuca, I (Ciuca, Ion); Ciocoiu, R (Ciocoiu, Robert); Bitu, AI (Bitu, Ana-Iulia) ; Antoniac, I (Antoniac, Iulian), Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 4, Page 217-230, Published 2024, Indexed 2025-01-01, Document Type Article, Categories/ Classification: Research Areas Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, Language English, Accession Number

WOS:001380943500016, ISSN 1454-2331, IDS Number P9I0Z, Journal Impact Factor TM (2023): 0,3, Category Quartile: Q4.

3. **Development and Characterization of New Biomedical Alloys Based on NiCrMo and NiCrMoTa**, By Baci, F (Baci, Florentina); Iacob, G (Iacob, Gheorghe); Niculescu, F (Niculescu, Florentina); Butu, M (Butu, Mihai); Geambazu, L (Geambazu, Laura); Manea, CA (Manea, Ciprian-Alexandru); Manta, E (Manta, Eugen); Dragut, DV (Dragut, Dumitru-Valentin); Ghita, AN (Ghita, Andreea- Nicoleta); Matei, AC (Matei, Alexandru-Cristian); **Solea, RM (Solea, Roxana- Marina)**, Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 4, Page 281-290, Published 2024, Indexed 2025-01-01, Document Type Article, Language English, Accession Number **WOS:001380943500021**, ISSN 1454-2331, IDS Number P9I0Z, Journal Impact Factor TM (2023): 0,3, Category Quartile: Q4.
4. **THE SCADA IN THE CLOUD CONCEPT FOR OPTIMIZING THE MANAGEMENT OF HEAT TREATMENT PROCESSES**, By Florea, B (Florea, Bogdan); Marcu, DF (Marcu, Dragos Florin); Semenescu, A (Semenescu, Augustin); Loana, A (Loana, Adrian); Butu, M (Butu, Mihai); Niculescu, F (Niculescu, Florentina); Iacob, G (Iacob, Gheorghe); **Solea, R (Solea, Roxana)**, Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 83, Issue 2, Page 313-322, Published 2021, Indexed 2021-07-02, Document Type Article, Language English, Accession Number **WOS:000661663200027**, ISSN 1454-2331, IDS Number SS3QR, Journal Impact Factor TM (2023): 0,3, Category Quartile: Q4.

Articole publicate în reviste indexate în alte BDI reprezentative pentru domeniu

1. **ELEMENTS OF SPACE ORGANIZATION MANAGEMENT OF ENTERPRISES IN THE METAL MATERIALS INDUSTRY**, by Adrian Ioana, Monica Iorga (Craciunica), Florin-Stefan Petcu, Dumitru Deonise, Daniela Ionela, Juganaru, **Roxana Marina Solea**, Bianca Cezarina Ene, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Special Issue, Vol. XIII, No. 3 / 2021, page 66-71 <https://doi.org/10.54684/ijmmt.2021.13.3.66>
2. **EDUCATION THROUGH INNOVATION IN THE FIELD OF METALLIC MATERIALS SCIENCE**, by Adrian IOANA*, Daniela TUFEANU, Dragos Florin MARCU, Bogdan FLOREA, Daniela Alice LUTA, Bianca Cezarina ENE, Daniela Ionela JUGANARU, **Roxana Marina SOLEA**, EUROPEAN JOURNAL OF MATERIALS SCIENCE AND ENGINEERING, Volume 6, Issue 2, 2021, page 083-088, ISSN: 2537-4338, DOI: **10.36868/ejmse.2021.06.02.083**, www.ejmse.ro

Articole publicate în volumele unor manifestări științifice indexate în alte BDI reprezentative pentru domeniu

1. **Interface characterization of Al/SiCp compacts**, by Mariana Ciurdas, Daniela Alina Neculescu and **Roxana Marina Solea**, Published under licence by IOP Publishing Ltd, IOP Conference Series: Materials Science and Engineering, Volume 1190, World Symposium on Mechanical-Materials Engineering & Science (WMMES 2021) 9th-11th September 2021, Prague, Czech Republic, Citation Mariana Ciurdas et al 2021 IOP Conf. Ser.: Mater. Sci. Eng. 1190 012012, DOI **10.1088/1757-899X/1190/1/012012**.

B. Cărți și manuale

1. [DRAGOS MARCU](#), [ADRIAN IOANA](#), [ILEANA MARIANA MATES](#), [AUGUSTIN SEMENESCU](#), [IONUT-COSMIN CHIVA](#), [BOGDAN FLOREA](#), [ALICE DANIELA MANOLESCU](#), [ROXANA MARINA SOLEA](#), [DANIELA IONELA JUGANARU](#), **MANAGEMENTUL PRODUCERII MATERIALELOR METALICE. TEORIE ȘI APLICAȚII**, EDITURA MATRIX ROM, ISBN: 978-606-25-0608-7

C. Brevete

1. ALIAJ DENTAR TIP CO-CR ALIAT CU METALE BIOCOMPATIBILIBILE SI REZISTENTA LA COROZIUNE RIDICATA- Antoniac Vasile Iulian, Rau Julietta, Semenescu Augustin, Dawod Nazem, Geantă Victoraș, Voiculescu Ionelia, Mateș Ileana Mariana, Șolea Marina Roxana, **Brevet de invenție nr 134131. Data 29/09/2023**

2. ALIAJ TIP CO-CR ALIAT CU RUTENIU SI ALTE METALE NOBILE PENTRU PROTEZE DENTARE METALO-CERAMICE - Antoniac Vasile Iulian, Rau Julietta, Semenescu Augustin, Dawod Nazem, Geantă Victoraș, Voiculescu Ionelia, Mateș Ileana Mariana, Șolea Marina Roxana, **Brevet de invenție nr 134132. Data 29/09/2023**

Proiecte de cercetare științifică

1.

D. Stagii de perfecționare

1.

E. Cursuri de perfecționare

1.

F. Membru în comitete de organizare sau comitete științifice ale conferințelor/colective de redacție ale unor reviste

1.

Student-doctorand

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