

LISTA DE LUCRĂRI¹
a candidatei MIHĂILESCU CARMEN-MARINELA

1. Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii (care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări menționate mai jos):

- R1. Mihailescu, C. M., Stan, D., Iosub, R., Moldovan, C., & Savin, M. (2015). A sensitive capacitive immunosensor for direct detection of human heart fatty acid-binding protein (h-FABP). *Talanta*, 132, 37-43. Q1 **IF:4,035**; <https://doi.org/10.1016/j.talanta.2014.08.067>. **WOS:000349278900006; 10.1016.****
- R2. Mihailescu, C. M., Stan, D., Savin, M., Moldovan, C. A., Dinulescu, S., Radulescu, C. H., ... & Dragomir, D. (2020). Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum. *Talanta*, 210, 120643, **Q1 IF:6,057**; <https://doi.org/10.1016/j.talanta.2019.120643>.**
- R3. Savin, M., Mihailescu, C. M.(autor corespondent), Matei, I., Stan, D., Moldovan, C. A., Ion, M., & Baciuc, I. (2018). A quantum dot-based lateral flow immunoassay for the sensitive detection of human heart fatty acid binding protein (hFABP) in human serum. *Talanta*, 178, 910-915, **Q1 IF:4,916**. <https://doi.org/10.1016/j.talanta.2017.10.045>**
- R4. Tutunaru, O., Mihailescu, C. M.(autor corespondent), Savin, M., Tincu, B. C., Stoian, M. C., Muscalu, G. S., ... & Ion, A. C. (2021). Acetylcholinesterase entrapment onto carboxyl-modified single-walled carbon nanotubes and poly (3, 4-ethylenedioxythiophene) nanocomposite, film electrosynthesis characterization, and sensor application for dichlorvos detection in apple juice. *Microchemical Journal*, 169, 106573. **Q1 IF:5,304**. <https://doi.org/10.1016/j.microc.2021.106573>.**
- R5. Savin, M., Mihailescu, C. M.(autor corespondent), Avramescu, V., Dinulescu, S., Firtat, B., Craciun, G., ... & Moldovan, C. (2021). A New Hybrid Sensitive PANI/SWCNT/Ferrocene-Based Layer for a Wearable CO Sensor. *Sensors*, 21(5), 1801. **Q2 IF:3.9** <https://doi.org/10.3390/s2105180>.**
- R6. Savin, M., Mihailescu, C. M., (autor corespondent) Moldovan, C., Grigoriu, A., Ion, I., & Ion, A. C. (2022). Resistive Chemosensors for the Detection of CO Based on Conducting Polymers and Carbon Nanocomposites: A Review. *Molecules*, 27(3), 821. **Q2 IF:4.6**; <https://doi.org/10.3390/molecules27030821>.**
- R7. Grigoriu, A., Mihailescu, C. M., (autor corespondent), Savin, M., Moldovan, C. A., Brasoveanu, C., Dinulescu, S., ... & Anghelescu, A. (2023). Facile electrodeposition-based chemosensors using PANI and C-hybrid nanomaterials for the selective detection of ammonia and nitrogen dioxide at room temperature. *Chemosensors*, 11(2), 132 **Q2 IF:4.2**; <https://doi.org/10.3390/molecules27030821>.**
- R8. Sandulovici, R. C., Carmen-Marinela, M., (autor corespondent) Grigoriu, A., Moldovan, C. A., Savin, M., Ordeanu, V., ... & Dragomir, D. (2022). The physicochemical and antimicrobial properties of silver/gold nanoparticles obtained by “green synthesis” from willow bark and their formulations as potential innovative pharmaceutical substances. *Pharmaceuticals*, 16(1), 48. **Q2 IF:4.66**; <https://doi.org/10.3390/ph16010048>.**
- R9. Mirica, A. C., Stan, D., Chelcea, I. C., Mihailescu, C. M., Ofiteru, A., & Bocancia-Mateescu, L. A. (2022). Latest trends in lateral flow immunoassay (LFIA) detection labels and conjugation process. *Frontiers in Bioengineering and Biotechnology*, 10, 922772. **Q1 IF:5.7**; <https://doi.org/10.3389/fbioe.2022.922772>.**
- R10. Mincu, N. B., Lazar, V., Stan, D., Mihailescu, C. M., Iosub, R., & Mateescu, A. L. (2020). Screen-Printed Electrodes (SPE) for in vitro diagnostic purpose. *Diagnostics*, 10(8), 517. **Q2 IF:3,6**; <https://doi.org/10.3390/diagnostics10080517>.**

2. Teza/tezele de doctorat:

T1. Biosuprafete nanostructurate pentru detectia de microorganisme patogene si biomarkeri importanti in diagnosticul de laborator, anul 2015.

3. Brevete de invenție și alte titluri de proprietate intelectuală (dacă este cazul):

B1. Brevet obtinut cu nr. [RO132771B1](https://doi.org/10.1016/j.talanta.2014.08.067) „PROCEDEU DE OBTINERE SABLON SELECTIV PENTRU DETECTIA ELECTROCHIMICA “LABEL FREE” A ADIPONECTINEI DIN PROBE BIOLOGICE UMANE, autori: Mihailescu Carmen Marinela si Stan Dana.

B2. Cerere nr. A/00448/RO a202200448 publicata in BOPI nr. RO-BOPI 01/2024 , Procedeu de realizare film compozit sensibil la amoniac bazat pe electrodepunerea materialului compozit PANI/MWCNT-NH₂/PSS ,

¹ Se prezintă obligatoriu și în format PDF, obținut prin *conversie* a fișierului Word sau Excel (nu scanat).

Autori: C.A. Moldovan, **C.M.Mihăilescu**, M. Savin, B. Firtat, A. Grigoroiu, C. Brașoveanu, S. Dinulescu, G.S. Mulscalu, V.C. Georgescu, I. Stan .

B3. **Cerere nr.** A/00263 RO a202200263 **publicata in BOPI cu nr.**RO-BOPI 12/2022 Procedeu de obținere cipuri cu film senzitiv pentru detecție de glucoză din salivă umană , Autori: **C.M. Mihăilescu**, C.A. Moldovan, M. Savin, C. Brașoveanu, S. Dinulescu, I. B. Firtat, M. Ion.

B4. **Cerere nr.** A/00506 RO a201900506 **publicata in BOPI nr.** RO-BOPI 11/2023 Procedeu de sinteză și caracterizare molecule de detecție folosite pentru dezvoltarea de teste rapide imunocromatografic, **C.M. Mihăilescu**, M. Savin, C.A. Moldovan, B. Firtat, G.S. Muscalu, M. Ion, F.A Boldeiu, C. Romanițan, O.A. Brincoveanu, I. Mihalache

B5. Cerere nr. A/00506/RO a201900506 publicata in BOPI Procedeu de obținere cerneală conductivă PANI - PSS / CH₃COOH printabilă cu ajutorul imprimantei Inkjet; autori: Mihaela Savin, **Carmen Mihailescu**, Carmen Aura Moldovan, Marian Ion

B6. Cerere nr. A2018 00572 publicata in BOPI cu nr. RO-BOPI 02/2021, Proces de funcționalizare electrochimică a electrozilor interdigitați, pentru detectarea antigenului receptor de suprafață CD4+ al subpopulațiilor de limfocite T-CD4, Autori: Dana Stan, **Carmen Marinela Mihailescu**, Clara Hortensia Radulescu

4. Cărți de specialitate și capitole în cărți de specialitate:

C1. Aplicații in Chimia organica- Partea I, autori: **Mihailescu Carmen Marinela** , Savin Mihaela, Editura Hamangiu, Bucuresti 2020, ISBN/ISSN: 978-606-27-1483-3.

C2. Aplicații in Chimia Organica -Partea a II-a , autori **Mihailescu Carmen Marinela**, Savin Mihaela, Editura Hamangiu, Bucuresti 2023, ISBN/ISSN: 978-606-27-2327-9.

C2. Cinetica Chimica, Carmen Elisabeta Manea, **Mihăilescu Carmen Marinela**, Editura Hamangiu, Bucuresti 2024, ISBN/ISSN: 978-606-27-2441-2.

C3. Gălățanu, M. L., Panțuroiu, M., Popescu, M., & **Mihăilescu, C. M. (2022)**. Plant Extracts with Antibiotic Effect. In *Handbook of Research on Advanced Phytochemicals and Plant-Based Drug Discovery* (pp. 49-72). IGI Global.

5. Articole/studii *in extenso*, publicate în reviste din fluxul științific internațional principal:

A1 **Mihailescu, C. M.**, Stan, D., Iosub, R., Moldovan, C., & Savin, M. (2015). A sensitive capacitive immunosensor for direct detection of human heart fatty acid-binding protein (h-FABP). *Talanta*, 132, 37-43. Q1 **IF:4,035**; <https://doi.org/10.1016/j.talanta.2014.08.067>. WOS:000349278900006; 10.1016/j

A2 **Mihailescu, C. M.**, Stan, D., Savin, M., Moldovan, C. A., Dinulescu, S., Radulescu, C. H., ... & Dragomir, D. (2020). Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum. *Talanta*, 210, 120643, Q1 **IF:6,057**; <https://doi.org/10.1016/j.talanta.2019.120643>.

A3 Savin, M., **Mihailescu, C. M. (autor corespondent)**, Matei, I., Stan, D., Moldovan, C. A., Ion, M., & Baciu, I. (2018). A quantum dot-based lateral flow immunoassay for the sensitive detection of human heart fatty acid binding protein (hFABP) in human serum. *Talanta*, 178, 910-915, Q1 **IF:4,916**. <https://doi.org/10.1016/j.talanta.2017.10.045>

A4 Tutunaru, O., **Mihailescu, C. M. (autor corespondent)**, Savin, M., Tincu, B. C., Stoian, M. C., Muscalu, G. S., ... & Ion, A. C. (2021). Acetylcholinesterase entrapment onto carboxyl-modified single-walled carbon nanotubes and poly (3, 4-ethylenedioxythiophene) nanocomposite, film electrosynthesis characterization, and sensor application for dichlorvos detection in apple juice. *Microchemical Journal*, 169, 106573. Q1 **IF:5,304**. <https://doi.org/10.1016/j.microc.2021.106573>.

A5 Savin, M., **Mihailescu, C. M. (autor corespondent)**, Avramescu, V., Dinulescu, S., Firtat, B., Craciun, G., ... & Moldovan, C. (2021). A New Hybrid Sensitive PANI/SWCNT/Ferrocene-Based Layer for a Wearable CO Sensor. *Sensors*, 21(5), 1801. Q2 **IF:3.9** <https://doi.org/10.3390/s2105180>.

A6 Savin, M., **Mihailescu, C. M., (autor corespondent)** Moldovan, C., Grigoroiu, A., Ion, I., & Ion, A. C. (2022). Resistive Chemosensors for the Detection of CO Based on Conducting Polymers and Carbon Nanocomposites: A Review. *Molecules*, 27(3), 821. Q2 **IF:4,6**; <https://doi.org/10.3390/molecules27030821>.

A7 Grigoroiu, A., **Mihailescu, C. M., (autor corespondent)**, Savin, M., Moldovan, C. A., Brasoveanu, C., Dinulescu, S., ... & Anghelescu, A. (2023). Facile electrodeposition-based chemosensors using PANI and C-hybrid nanomaterials for the selective detection of ammonia and nitrogen dioxide at room temperature. *Chemosensors*, 11(2), 132 Q2 **IF:4.2**; <https://doi.org/10.3390/molecules27030821>.

A8 Sandulovici, R. C., **Carmen-Marinela, M., (autor corespondent)** Grigoroiu, A., Moldovan, C. A., Savin, M., Ordeanu, V., ... & Dragomir, D. (2022). The physicochemical and antimicrobial properties of silver/gold nanoparticles obtained by “green synthesis” from willow bark and their formulations as potential innovative pharmaceutical substances. *Pharmaceuticals*, 16(1), 48. Q2 **IF:4.66**; <https://doi.org/10.3390/ph16010048>.

- A9** Mirica, A. C., Stan, D., Chelcea, I. C., **Mihailescu, C. M.**, Ofiteru, A., & Bocancia-Mateescu, L. A. (2022). Latest trends in lateral flow immunoassay (LFIA) detection labels and conjugation process. *Frontiers in Bioengineering and Biotechnology*, 10, 922772. **Q1 IF:5.7**; <https://doi.org/10.3389/fbioe.2022.922772>.
- A10** Mincu, N. B., Lazar, V., Stan, D., **Mihailescu, C. M.**, Iosub, R., & Mateescu, A. L. (2020). Screen-Printed Electrodes (SPE) for in vitro diagnostic purpose. *Diagnostics*, 10(8), 517. **Q2 IF:3.6**; <https://doi.org/10.3390/diagnostics10080517>.
- A11** Moldovan, C., **Mihailescu, C.**, Stan, D., Ruta, L., Iosub, R., Gavrilă, R., ... & Vasilica, S. (2009). Characterization of self-assembled monolayers (SAMs) on silicon substrate comparative with polymer substrate for Escherichia coli O157: H7 detection. *Applied surface science*, 255(22), 8953-8959. **Q1 IF:1,616**; <https://doi.org/10.1016/j.apsusc.2009.06.113>.
- A12** Stan, D., **Mihailescu, C. M.**, Iosub, R., Moldovan, C., Savin, M., & Baciu, I. (2012). Electrochemical studies of homogeneous self-assembled monolayers versus mixed self-assembled monolayers on gold electrode for “label free” detection of heart fatty acid binding protein. *Thin Solid Films*, 526, 143-149. **Q3, IF:1,604**; <https://doi.org/10.1016/j.tsf.2012.11.028>.
- A13** Țucureanu, V., Obreja, C. A., Crăciun, G., Romanițan, **C., Mihailescu, C. M.**, Stan, D., & Matei, A. (2022). Preparation and evaluation of nanocomposites based on transitional oxides and carbon materials for electrochemical applications. *Ceramics International*, 48(18), 27201-27212, **Q1, IF:5.2**, <https://doi.org/10.1016/j.ceramint.2022.06.032>.
- A14** Stan, D., Matei, I., **Mihailescu, C.**, Savin, M., Matache, M., Hillebrand, M., & Baciu, I. (2009). Spectroscopic investigations of the binding interaction of a new indanedione derivative with human and bovine serum albumins. *Molecules*, 14(4), 1614-1626- **Q2 IF:1,738**. <https://doi.org/10.3390/molecules14041614>.
- A15** Ionescu ON, Franti E, Carbutaru V, Moldovan C, Dinulescu S, Ion M, Dragomir DC, **Mihailescu CM**, Lascar I, Oproiu AM, et al. System of Implantable Electrodes for Neural Signal Acquisition and Stimulation for Wirelessly Connected Forearm Prosthesis. *Biosensors*. 2024; 14(1):31. **Q1 IF:5.4** <https://doi.org/10.3390/bios14010031>.
- A16** D. Stan, **C. M. Mihailescu**, M. Savin, I. Matei., 2-(2-Hydroxy-5-nitrobenzylidene)-1,3-indanedione versus Fluorescein Isothiocyanate in Interaction with anti h-FABP Immunoglobulin G1: Fluorescence and Secondary Structure Alteration and Binding Sites Localization, *International Journal of Molecular Sciences* (2013) 14, 3011-3025. . **Q1 IF:2,339**. <https://doi.org/10.3390/ijms14023011>.
- A17** Dragomir, D. C., Carbutaru, V., Moldovan, C. A., Lascar, I., Dontu, O., Ristoiu, V., **Mihailescu CM**... & Teleanu, D. M. (2022). Biocompatibility Analysis of GelMa Hydrogel and Silastic RTV 9161 Elastomer for Encapsulation of Electronic Devices for Subdermal Implantable Devices. *Coatings*, 13(1), 19. **Q1 IF:5.6**. <https://doi.org/10.3390/coatings13010019>.
- A18** Moldovan, C. A., Ion, M., Dragomir, D. C., Dinulescu, S., **Mihailescu, C.**, Franti, E., ... & Oproiu, A. M. (2022). Remote Sensing System for Motor Nerve Impulse. *Sensors*, 22(8), 2823. **Q2 IF:3.9**. <https://doi.org/10.3390/s22082823>.
- A19** Marinescu, M. R., Avram, M., Voitincu, C., Savin, M., **Mihailescu, C.**, & Ghiculescu, L. D. (2020). Electrochemical sensors with interdigitated electrodes for counting T-cells. *SCIENCE AND TECHNOLOGY*, 23(4), 368-378. **Q3 IF:0,643**. <https://doi.org/10.3390/s22082823>.
- A20** Simion, M., Ruta, L., **Mihailescu, C.**, Kleps, I., Bragaru, A., Miu, M., ... & Baciu, I. (2009). Porous silicon used as support for protein microarray. *Superlattices and Microstructures*, 46(1-2), 69-76. **Q2 IF:0,91**. <https://doi.org/10.1016/j.spmi.2008.11.02>
- A21** Anghel, E., Adiaconita, B., Avram, A., **Mihailescu, C.**, Pachi, C., Brincoveanu, O., ... & Demetrescu, I. (2023). Vertical graphene growth process optimization for use in cellular identification. *Bulletin of Materials Science*, 46(2), 105. **Q4 IF:1.8**. <https://doi.org/10.1007/s12034-023-02928-0>.
- A22** Sandulovici, R. C., Gălățanu, M. L., Cima, L. M., Panus, E., Truță, E., **Mihăilescu, C. M.**, ... & Panțuroiu, M. (2024). Phytochemical Characterization, Antioxidant, and Antimicrobial Activity of the Vegetative Buds from Romanian Spruce, Picea abies (L.) H. Karst. *Molecules*, 29(9), 2128. **Q1 IF 4,2**.
- A23** Stan, D., **Mihailescu, C.**, Paraschivescu, C., Oprea, E., Baciu, I., & Farcasanu, I. C. (2006). Proteins electrophoresis, an important method in the diagnosis of clinical lab. *REVISTA DE CHIMIE-BUCHAREST-ORIGINAL EDITION-*, 57(3), 308. **Q3 IF:0,287**.

6. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate:

- P1.** Grigoriu, A., **Mihailescu, C. M.**, Savin, M., Brașoveanu, C., Moldovan, C. A., Dinulescu, S., ... & Anghel, A. (2023, October). Enhancing NO₂ gas sensing performance at room temperature using electrodeposited composite PPy-rGO-Fc. In *2023 International Semiconductor Conference (CAS)* (pp. 43-46). **Proceedings of the IEEE International Semiconductor Conference CAS**, pp. 43-46.
- P2.** Tincu, B. I. A. N. C. A., Avram, M. A. R. I. O. A. R. A., Țucureanu, V. A. S. I. L. I. C. A., Mihailescu, C. A. R. M. E. N., Tutunaru, O. A. N. A., Avram, A. N. D. R. E. I., & Anghel, E. L. E. N. A. (2020). Single

Layer Graphene and Vertical Graphene as a Promising Candidate for Electrochemical Biosensors. *Revista de Chimie (Rev. Chim.)*, 71, 24-29.

- P3.** Anghel, E., Simionescu, O., Pachi, C., Tutunaru, O., **Mihailescu, C.**, & Avram, A. (2019, October). Vertical graphene based biosensor for biological fluids analysis. In *2019 International Semiconductor Conference (CAS)* (pp. 267-270). IEEE.
- P4.** Ion, M., Dinulescu, S., Moldovan, C., **Mihailescu, C.**, & Savin, M. (2019, May). Integrated Sensor Array Platform for Monitoring Chemical Contaminants in Water Sources. In *2019 IEEE International Symposium on Circuits and Systems (ISCAS)* (pp. 1-4). IEEE.
- P5.** Marinescu, R; Avram, M; (...); Ghiculescu, D **Mihailescu C.** 34th International-Business-Information-Management-Association (IBIMA) Conference (2019). Development of a new Biomedical MEMS for T Lymphocytes Determination (pp.3206-3220). Proceedings Paper
- P6.** Vladescu, M., Feies, V., Schiopu, P., Craciun, A., Grosu, N., Savin, M., **Mihailescu C.**, & Stan, D. (2018, December). Quantification of biomarkers via fluorescence of CdTe quantum dots in point-of-care type immunochromatographic testing. In *Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX* (Vol. 10977, pp. 823-828). **Proceeding SPIE.**
- P7.** Vladescu, M., Feies, V., Schiopu, P., Craciun, A., Grosu, N., Savin, M., **Mihailescu C.**, ... & Stan, D. (2018, December). Rapid test immunocromatografic with detection in fluorescence of cardiac troponin T. In *Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX* (Vol. 10977, pp. 289-294). **Proceeding SPIE.**
- P8.** Nedelcu, O. T., Corman, R., Stan, D., & **Mihailescu, C. M.** (2015, October). Numerical study of induced electric field in a microfluidic system for cell electroporation. In *2015 International Semiconductor Conference (CAS)* (pp. 207-210). **Proceedings of the IEEE International Semiconductor Conference CAS** (pp 207-210) IEE
- P9.** Stan, D., **Mihailescu, C. M.**, Iosub, R., Savin, M., Ion, B., & Gavrilă, R. (2012, October). Development of an immunoassay for impedance-based detection of heart-type fatty acid binding protein. In *CAS 2012 (International Semiconductor Conference)* (Vol. 1, pp. 157-160). IEEE.
- P10.** Moldovan, C., Firtat, B., Dinulescu, S., Brasoveanu, C., Ion, M., Codreanu, C., **Mihailescu C.**, ... & Savin, M. (2017, October). Integrated platform for pesticides detection in food. In *2017 IEEE Biomedical Circuits and Systems Conference (BioCAS)* (pp. 1-4). IEEE.
- P11.** **Mihailescu, C. M.**, Baciu, I., Stan, D., Moldovan, C., Iosub, R., Dinescu, A., ... & Savin, M. (2011, October). Morphological identification through electron microscopy (SEM) and Ellipsometric studies of E. coli O157: H7 cells adsorbed onto surface. In *CAS 2011 Proceedings (2011 International Semiconductor Conference)* (Vol. 1, pp. 105-108). IEEE.
- P12.** Simion, M., Ruta, L., Kleps, I., **Mihailescu, C.**, Bragaru, A., Miu, M., & Ignat, T. (2008, October). Biohybrid surface preparation for protein/DNA microarray applications. In *2008 International Semiconductor Conference* (Vol. 1, pp. 201-204). IEEE.
- P13.** **Mihailescu, C. M.**, Stan, D., Ruta, L., Ion, B., Moldovan, C., Schiopu, V., ... & Gavrilă, R. (2008, October). Mixed-monolayers with alkane thiol on gold as substrates for microarray applications. In *2008 International Semiconductor Conference* (Vol. 1, pp. 173-176). IEEE.
- P14.** Simion, M., Ruta, L., Kleps, I., **Mihailescu, C.**, Ignat, T., Stan, D., ... & Bragaru, A. (2007, October). Surface functionalization for protein microarray. In *2007 International Semiconductor Conference* (Vol. 1, pp. 135-138). IEEE.
- P15.** **Carmen–Marinela MIHĂILESCU**, Dana STAN, Carmen Aura MOLDOVAN, Silviu DINULESCU, Florentina PĂTRAȘCU, “LABEL FREE” IMMUNOSENSOR FOR METABOLIC SYNDROME INVESTIGATION, Conferința Internațională Educație și Creativitate pentru o Societate Bazată pe Cunoaștere – MEDICINĂ, MEDICINĂ DENTARĂ ȘI FARMACIE, București, Universitatea Titu Maiorescu, 2017 ISSN 2248-0048, ISBN 978-3-9503145-7-1 pagini 229-233.
- P16.** HRUBARU Madalina-Marina, Daniela Simina ȘTEFAN , **Carmen-Marinela MIHĂILESCU**, Victorita TECUCEANU, Roxana SANDULOVICI, Elena HATIEGANU, Cristian-Costel ȘÎRMĂ, Iulian SARBU DETERMINATION OF BIS-PHENOLS IN WASTE WATER BY SOLID-PHASE MICROEXTRACTION, Conferința Internațională Educație și Creativitate pentru o Societate Bazată pe Cunoaștere – MEDICINĂ, MEDICINĂ DENTARĂ ȘI FARMACIE, București, Universitatea Titu Maiorescu, 2017 ISSN 2248-0048, ISBN 978-3-9503145-7-1, pagini 200-204.
- P17.** **CM Mihăilescu**, G Costache, RC Sandulovici, I Mihalache, A Purcarea, M Codreanu, SN Voicu, E Mati, R Sboră, M Savin, CE Manea, D Ungureanu. The International Conference Education and creativity for a knowledge-based society (12th edition), 2018, Bucharest ISSN 2248-0048, ISBN 978-3-9503145-7-1
- P18.** **Carmen Marinela MIHĂILESCU**, Rodica IOSUB, George MUSCALU, Carmen Aura MOLDOVAN, Bogdan FIRTAT, Dana STAN, Bogdan MINCU, Diana STAN, Costin BRAȘOVEANU, Marian ION, ELECTROCHEMICAL SENSING OF DIMETHOATE PESTICIDE IN APPLE JUICE BASED ON CONDUCTING POLYMERS, *Universitatea Titu Maiorescu, Conferința Internațională*

Educație și Creativitate pentru o societate bazată pe cunoaștere, 2019 ISBN 978-3-9503145-7-1, pg.144-149

- P19.** Mona Luciana GĂLĂȚANU, PhD, Assistant Professor, **Carmen Marinela MIHĂILESCU**, Silviu MARCOV, Student, BOTANICAL STUDIES OF ALBIZIA JULIBRISSIN DURAZZ, , Bucuresti, Universitatea Titu Maiorescu, 2019 ISSN 2248-0048, ISBN 978-3-9503145-7-1, pg 135-140.
- P20.** Ion, M., Moldovan, C., Dinulescu, S., Muscalu, G., Savin, M., **Mihailescu, C. M.**, ... & Matei, I. (2017, October). Fabrication of a new LFIA test for rapid quantitative detection of CK-MB, using inkjet-printing method. In 2017 IEEE Biomedical Circuits and Systems Conference (BioCAS) (pp. 1-4). IEEE.

7. Proiecte de cercetare/dezvoltare pe bază de contract/grant (director grant/membru în echipă):

- G1. Biochip Microfluidic portabil pentru determinarea numarului de Limfocite T (BIOLIMEF, Contract Nr.46PTE/2016,PN-III-P2-2.1-PTE-2016-0145, Perioada: 2016-2018 Director Proiect**
- G2. Prototip de tehnologie de fabricație a microbiosenzorului cu rezonanță rapidă Förster (FRET) pentru diagnosticul precoce al infarctului miocardic acut (IMA), Contract Nr 37PTE / 2020, PN-III-P2-2.1-PTE-2019-0379, Perioada: 2020-2022; Responsabil Proiect**
- G3. Obținerea de biogeluri pentru separarea electroforetică a proteinelor serice cu aplicații în diagnostic și terapie” MATNANTECH 206(403)/2004; Perioada: 2 ani – membru**
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- G5. Technology for making arrays of miniaturized immunosensors for the detection of herbicides – Persoana cheie; PNII/1023/2007; Perioada: 3 ani- Membru**
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- G7. Micro immunosensors platform for metabolic syndrome investigation/PN-II-PT-PCCA-2011-3.2-0649/Perioada 4 ani; Membru**
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- G9. Micro-electro-fluidic system for biological cells separation and electroporation/PN-II-PT-PCCA-2013-4-1141/AD-1/ Perioada: 2 ani, Membru**
- G10. Lab-on-a-chip for label free detection of cancer cells/PN-II-PT-PCCA-2013-4-1141, Perioada: 2 ani Membru**
- G11. Microbiosensor arrays fabrication and portable detection apparatus development for acute myocardial infarction diagnostic, PN-II-PT-PCCA-2013-4-1731, perioadă 4 ani, Membru**
- G12. Selective biochip with portable analyzer for assessment of insulin resistance and the metabolic syndrome, PN-III-P2-2.1-PTE-2016-0165, perioada 2 ani/ Membru**
- G13. New methods of pregnancy monitoring and prenatal diagnosis, PN-III-P1-1.2-PCCDI-2017-0820/ Perioada 3 ani/ Membru**
- G14. Electrochemical microsensors for rapid and selective detection of pesticides, TGE-PLAT cod SMIS 2014+ 105623; perioada:3 ani/ Membru**
- G15. Micronanotechnologies for monitoring of greenhouse gases/ PN-III-P2-2.1-PED-2019-2073/perioadă 2 ani Membru în echipă**

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- G16. Smart system for indoor air quality monitoring/PN-III-P2-2.1-PTE-2019-0379, perioada 2 ani/ Membru echipă**
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- G18. Smart Portable System for VOCs detection VOC-detect M-ERA.NET Joint Call 2018, 112/2019, 2018-2021; Perioada 3 ani; Membru echipa IMT**
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G22. UNLOOC- Unlocking data content of Organ-On-Chips- **Horizon-265179-101140192** , Perioada 3 ani, **Membri in echipa IMT**

8. Alte lucrări și contribuții științifice :

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- L2.** Kleps, M. Simion, A. Bragaru, M. Miu, T. Ignat, L. Ruta, **C. Mihailescu**, "Microarray Imaging from Artefacts to Standardisation", 17th International Laser Physics Workshop (LPHYS'08), 30 June - 4 July 2008, Trondheim, Norway.
- L3.** M. Simion, **C. Mihailescu**, L. Ruta, T. Ignat, I. Kleps, D. Stan, A. Bragaru, M. Miu "Porous Silicon Surfaces - a Proper Substrate for Microarray Tehnology", , Advances in Microarray Technology (AMT), May 2008, Spain.
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- L5.** Characterized of self-assembled monolayers (SAMs) on polymer substrate comparative with silicon substrate for *E.coli* detection, Carmen Moldovan, **Carmen Mihăilescu**, Dana Stan, 15th- 19th September, 2008, EMRS Conference, Warsaw University of Technology Warsaw (Poland), Book of Abstracts, pagini 287-288.
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- L9.** Conferinta International ATOM-N, Aug. 2018, Constanta. Prezentare orala: "Quantification of biomarkers via fluorescence of CdTe quantum dots in point-of-care-type immunochromatographic testing", M. Vlădescu, V. Feieș, P. Șchiopu, A. Crăciun, N. Grosu, M. Savin, **Carmen-Marinela Mihăilescu**, Dana Stan.
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- L12.** Carmen-Marinela Mihailescu, Mihaela Savin, Dana Stan, Carmen Moldovan, George Muscalu, Silviu Dinulescu A doua Conferinta Nationala a Asociatiei de medicina de laborator din Romania (AMLR), 2017, Timisoara, Mai 2017. **Poster:** Selective biochip for insulin resistance and metabolic syndrome assesment,.
- L13.** Dana Stan , **Carmen-Marinela Mihailescu** , Florentina Pătrașcu , Hortensia Clara Rădulescu, Marius Stavăr, Marioara Avram , Tiberiu Burinaru , Vasilica Șchiopu, FUNCTIONALIZED INTERDIGITATED SURFACES FOR ELECTROCHEMICAL DETECTION OF CD4+ LYMPHOCYTES COUNT, Revista Română de Medicină de Laborator Supliment la Vol. 26, Nr. 2, Aprilie, 2018, **abstract publicat și prezentarea orală.**
- L14.** **Carmen-Marinela Mihăilescu** , Dana Stan , Florentina Pătrașcu , Hortensia-Clara Rădulescu , Marius-Nicolae Boboc Carmen-Aura Moldovan , George Muscalu , Silviu Dinulescu, ARTIFICIAL ANTIBODIES“ USED FOR THE RAPID DETECTION OF ADIPONECTIN FROM HUMAN SERUM, Revista Română de Medicină de Laborator Supliment la Vol. 26, Nr. 2, Aprilie, 2018, **abstract publicat și prezentare orală.**
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9. Traduceri de lucrări științifice: -

Declar pe proprie răspundere că datele prezentate sunt în conformitate cu realitatea

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