

## LISTA PUBLICAȚIILOR

### DIȚU LIA-MARA

#### I. Cărți, monografii, cursuri, capitole în volume colective

##### Manuale universitare

1. Mihăescu G., Chifiriuc C., **Dițu L.M.**, 2007, *Microbiologie generală*, Ed. Univ. din București, 552 p. ISBN-9789737372689.
2. Mihăescu G., Chifiriuc C., **Dițu L.M.**, 2009, *Imunobiologie*, Ed. Univ. București, 572 p. ISBN – 978-973-737-734-0.
3. Gheorghe I., **Dițu L.M.**, Mitache M.M., Avram I. 2019. Manual de micologie aplicată. Editura Universității “Titu Maiorescu”, Editura Hamangiu. ISBN: 978-606-767-065-3.
4. Mihaela Magdalena Mitache Carmen Curuțiu, Irina Gheorghe, **Lia-Mara Dițu**, Alina-Maria Holban colorații uzuale în laboratorul de microbiologie. Mic ghid practic, Editura Universității “Titu Maiorescu” Editura Hamangiu București, 2019, ISBN: 978-606-27-1309-6/ 978-606-767-066-0
5. Grigore MIHĂESCU, **Lia-Mara DIȚU**, Grajiela GRĂDIȘTEANU, Mariana Carmen CHIFIRIU, Virologie. Editura Medicală 2025. ISBN 978-973-39-0881-4

##### Manuale de lucrări practice

1. Mihăescu G., Chifiriuc C., Lazăr V., 2013, *Principii și tehnici de analiză imunologică și moleculară utilizate în laboratorul clinic (Dițu Lia-Mara, contribuție capitol I)*, Ed. Univ. București, 321 p, ISBN 978-606-16-0264-

##### Monografii

1. Mihăescu G., Chifiriuc M.C., **Dițu L.M.**, 2007, *Antibiotice și substanțe chimioterapeutice antimicrobiene*, Editura Academiei Române, București, 357 p. ISBN 978-973-27-1573-4.

##### Capitole in carti edituri internationale

1. Veronica Lazăr, Teodora Colța, Luminița Măruțescu, **Lia-Mara Dițu** and Mariana Carmen Chifiriuc. *New anti-infectious strategy based on antimicrobial and quorum sensing inhibitors from vegetal extracts and propolis*, Microbial pathogens and strategies for combating them: science, technology and education, Vol II, A. Méndez-Vilas, Ed., 2014, ISBN-13 Vol. 2: 978-84-942134-0-3.
2. Carmen Mariana Chifiriuc, Anton Ficai, Alexandru Mihai Grumezescu, **Lia-Mara Dițu**, Marcela Popa, Carmen Iordache, Alina Maria Holban, Șerban Vifor Gabriel Bereșteanu, Raluca Grigore and Veronica Lazăr. *Soft tissue engineering and microbial infections: challenges and perspectives. Nanobiomaterials in Soft Tissue Engineering Applications of Nanobiomaterials*, Elsevier, Chapter 1, p. 1-29, edited by Alexandru Grumezescu, 2016, ISBN: 978-0-323-42865-1.
3. Alina Maria Holban, Ecaterina Andronescu, Carmen Curuțiu, **Lia Mara Dițu**, Mariana Carmen Chifiriuc and Veronica Lazăr. 2016. *Bioactive nanomaterials for cartilage and muscle regeneration. Nanobiomaterials in Soft Tissue Engineering Applications of Nanobiomaterials*, Elsevier, Chapter 10, p. 261-297, edited by Alexandru Grumezescu, 2016, ISBN: 978-0-323-42865-1.
4. Mariana Carmen Chifiriuc, Alina Maria Holban, Carmen Curuțiu, **Lia-Mara Dițu**, Grigore Mihăescu, Alexandra Elena Oprea, Alexandru Mihai Grumezescu, Veronica Lazăr. *Antibiotics drug delivery systems for the intracellular targeting of bacterial pathogens. Smart Drug Delivery System*, chapter 11, edited by Alexandru Grumezescu, 2016, ISBN 978-953-51-2247-0.

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6. Delia Albuleț, Denisa A. Florea, Bianca Boarcă, **Lia M. Dițu**, Mariana C. Chifiriuc, Alexandru M. Grumezescu, Ecaterina Andronescu. *Nanotechnology for personalized medicine: cancer research, diagnosis, and therapy. Nanostructures for Cancer Therapy*, Chapter 1, p. 1-17, 2017, edited by Anton Ficai, Alexandru Grumezescu, **2016**, ISBN: 978-0-323-46144-3.
7. **Lia-Mara Dițu**, Irina Gheorghe. *Introduction in Soft Chemistry and Food Fermentation. Soft Chemistry and Food Fermentation*, Chapter 1, vol 3 Editors: Alexandru Grumezescu Alina Maria Holban, acceptat spre publicare in 1 decembrie **2016**, Paperback ISBN: 9780128114124.
8. Veronica Lazăr, **Lia-Mara Dițu**, Carmen Curuțiu, Irina Gheorghe, Alina Holban, Marcela Popa and Carmen Chifiriuc. *Impact of Dental Plaque Biofilms in Periodontal Disease: Management and Future Therapy*. Chapter 2, Periodontitis, book edited by Pachiappan Arjunan, ISBN 978-953-51-3606-4, Print ISBN 978-953-51-3605-7, Published: November 15, **2017** under CC BY 3.0 license.
9. **Lia-Mara Dițu**, Madalina Elena Grigore, Petronela Camen Comănescu, Alina Maria Holban. *Therapeutic, Introduction in Nutraceutical and Medicinal Foods; Probiotic and Unconventional Foods*, 1st Edition. Editors: Alexandru Grumezescu Alina Maria Holban, Paperback ISBN: 9780128146255, Imprint: Academic Press, Published Date: 1st May **2018**, Page Count: 528. <https://www.elsevier.com/books/therapeutic-probiotic-and-unconventional-foods/grumezescu/978-0-12-814625-5>
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12. **Ditu L.M.**, Bucuresteanu R., Ionita M., Neacsu A., Calinescu I. *Antimicrobial and Antibiofilm Properties of Nanocomposite Surfaces with Biomedical Applications*. Chapter in Nanocomposites - Properties, Preparations and Applications, IntechOpen Open Access books, Print ISBN: 978-0-85014-081-1, **2024**. <https://www.intechopen.com/chapters/89605>

## II.A Articole în reviste cotate ISI, ca autor principal (prim autor, autor corespondent, ultim autor)

1. **Dițu L.M.**, Chifiriuc M.C., Bezirtzoglou E., Voltsi C., Bleotu C., Pelinescu D., Mihăescu G., Lazăr V. 2011. Modulation of virulence and antibiotic susceptibility of enteropathogenic Escherichia coli strains by Enterococcus faecium probiotic strain culture fractions, Anaerobe. No 17(6), p 448-51.
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### III. ISI PROCEEDINGS

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### III – Articole științifice publicate în reviste integrate în fluxul internațional BDI (MEDSCAPE – MEDLINE, NCBI, BIOSIS Previews)

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66. Toma Fistos, Alina Melinescu, **Lia Mara Dițu**, Anton Ficai, Denisa Ficai, Florica Marinescu, Roxana Ioana Matei (Brazdis), Irina Fierăscu, Anda Maria Baroi, Cristian-Andi Nicolae, Radu Claudiu Fierăscu. *Tailoring protective coatings for the protection of cultural heritage inorganic objects–inheritage project* – The International Symposium “PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT”PRIOCHEM – XVIII-th Edition. October 26-28, 2022.
67. Toma Fistos, Roxana Ioana Matei, Anda Maria Baroi, Irina Fierascu, **Lia-Mara Ditu**, Valentin Raditoiu, Radu Claudiu Fierascu. *Application of Phosphate Materials Enhanced with Different Metals with Potential Antimicrobial Properties on Different Types of Bricks* - Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2022” 24-26 November 2022. (lucrare premiata cu Best poster award)
68. Toma Fistos, Roxana Ioana Matei (Brazdis), Anda Maria Baroi, Irina Fierascu, **Lia-Mara Ditu**, Radu Claudiu Fierascu. *Apatitic Materials Improve with Heavy Metals with Potential Antimicrobial Properties*

for the treatment of Wood and Stone Cultural Heritage Objects. Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering” NanoBioMat 2023 – Summer Edition, 28-30 June 2023.

69. Toma Fistos, Alina Melinescu, **Lia Mara Ditu**, Anton Fikai, Denisa Fikai, Florica Marinescu, Roxana Ioana Matei (Brazdis), Irina Fierascu, Anda Maria Baroi, Cristian-Andi Nicolae, Radu Claudiu Fierascu. *Multifunctional composite materials (with consolidation, self-cleaning and antimicrobial properties) applicable for the preservation of inorganic substrates*, “Priorities of Chemistry for a Sustainable Development” PRIOCHEM XIXth Edition, 11-13 Octombrie 2023, Bucuresti.
70. Toma Fistos, Alina Melinescu, **Lia Mara Ditu**, Anton Fikai, Denisa Fikai, Florica Marinescu, Roxana Ioana Matei (Brazdis), Irina Fierascu, Anda Maria Baroi, Cristian-Andi Nicolae, Radu Claudiu Fierascu, *Nanotechnological approach for the protection of cultural heritage*, International Scientific Symposium CURRENT TRENDS IN NATURAL SCIENCES, 16 – 18 May 2024, National University of Science and Technology POLITEHNICA Bucharest, Pitesti University Centre, Romania.
71. **Lia Mara Ditu**, Toma Fistos, Roxana Ioana Matei (Brazdis), Anda Maria Baroi, Anton Fikai, Florica Marinescu, Irina Fierascu, Radu Claudiu Fierascu. Novel anti-microbial formulations as promising coatings applicable for conservation of cultural heritage objects. E-MRS 2024 SPRING MEETING held at the Exhibition & Convention Center in Strasbourg (France) from May 27 to May 31, 2024.

#### V. Lucrări științifice prezentate la congrese / simpozioane naționale, publicate în rezumat

1. Chifiriuc M.C., Stanciuc A.M., Iordache C., Bucur M., Banu O., Dracea O., Larion C., Măruțescu L., **Dițu L.M.**, Manoiu S., Lazăr V., **2008**, *Investigation of microbial biofilms behavior in the presence of different antibiotics and substrata*. Medical significance of microbial biofilms - Workshop, November 21<sup>th</sup>, Bucharest, Roumania.
2. Cotar A.I., Chifiriuc M.C., Dinu S., Bucur M., Iordache C., Banu O., Dracea O., Larion C., **Dițu L.M.**, Manoiu S., Lazăr V., **2008**, *Screening of molecular markers of virulence and quorum sensing in Staphylococcus aureus and Pseudomonas aeruginosa strains isolated from clinical infections*. Medical significance of microbial biofilms - Workshop, November 21<sup>th</sup>, Faculty of Biology, University of Bucharest, Roumania.
3. **Dițu L.**, L. Măruțescu, G. Mihăescu, V. Lazăr, M. Chifiriuc. *Assessment of the influence of phenyl lactic acid and its synergic activity with antibiotics on Pseudomonas aeruginosa resistant strains by Flow cytometry*. IX<sup>th</sup> National Congress of Cytometry, **2013**, 16-18 may, Bucharest, Roumania.
4. **Dițu L.M.**, C. Limban, S. Siamu, A. Holbana, I. Gheorghe, C. Chifiriuc, G. Mihăescu, V. Lazăr. *Antifungal Activity of Novel Pharmacologically Active Compounds Against Penicillium Expansum, Aspergillus niger, Rhizopus stolonifer*. Congress of Faculty of Medicine and Pharmacy, Bucharest, MAEDICA - a Journal of Clinical Medicine, 28-30 may, **2015**, Bucharest, Roumania.
5. Preda M, Danciulescu O, **Ditu LM**, Holban AM, Serbanescu AA, Popa MI. *Soluble virulence factors in Staphylococcus spp. isolated from skin infections*, prezentare orală susținută în cadrul Sesiunii Tanarului Cercetator - Specialități preclinice - la Congresul Universității de Medicină și Farmacie Carol Davila, Ediția a VII-a, Palatul Parlamentului, București, 10-12 octombrie **2019**.
6. Stancu A.I., Oprea E., Ditu L.M. *Studii privind activitatea antioxidantă și antimicrobiană a extractelor de Verbena officinalis și Aloysia triphylla*. "SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE “D. BRANDZA” Ediția a XXV-a, București, 8-9 noiembrie, **2019**.

7. Uricaru A.M., Grosu E., Ditu L.M. Evaluarea potențialului antimicrobian al unor uleiuri esențiale comerciale. "SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE "D. BRANDZA" Ediția a XXV-a, București, 8-9 noiembrie, 2019.
8. Bucuresteanu R., Ditu L.M., Ionita M., Calinescu I., Raditoiu V., Cojocaru B., Cinteza O., Curutiu C., Holban A.M., Enachescu M., Enache L., Mustatea G., Chihaiu V., Nicolaev A., Borcan E.L., Mihaescu G. *Studiu preliminar asupra agenților antimicrobieni cu mecanism de activare fotocatalitică utilizați pentru protecția suprafețelor cu risc crescut de infecții*, ZIM (Ziua Internațională a Microorganismelor), București, 17 septembrie 2021.
9. Ionita M., **Bucuresteanu R.**, Mihaescu G., Husch M., Chihaiu V., Parvulescu V., Ditu L.M. *Physico-chemical and biological characterization of the new synthesized resins doped with tio2 anatase as antimicrobial coating*. A XIV-a Ediție a Sesiunii Științifice PRODUCTICA, 6-7 Mai 2022, Mioveni, Argeș, România – prezentare orală.
10. Cristiana Gabriela SOTIRIU, Nichita PUȘCAȘ, Florica MARINESCU, Carmen CURUȚIU, Lia-Mara DIȚU, Alina-Maria HOLBAN. Efectul unor extracte din plante asupra creșterii și virulenței unor specii aparținând genului Pseudomonas. SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA” Ediția a XXVIII-a, București, 4-5 noiembrie 2022.
11. Mădălina BOBORA, Alina-Maria HOLBAN, Carmen CURUȚIU, Lia-Mara DIȚU, Veronica LAZĂR. Testarea unor noi strategii antimicrobiene și antibiofilm – nanotuburi de carbon funcționalizate cu uleiuri esențiale. SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA” Ediția a XXVIII-a, București, 4-5 noiembrie 2022.
12. Bianca-Georgiana IOSUB, Alina-Maria HOLBAN, Carmen CURUȚIU, Lia-Mara DIȚU, Veronica LAZĂR. *Investigarea potențialului inhibitor al unor suprafețe nanomodificate asupra formării de biofilme pe substraturi inerte*. SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA” Ediția a XXVIII-a, București, 4-5 noiembrie 2022.
13. Diana-Elena ALEXANDRESCU, Lia-Mara DIȚU, Aurora NEAGOE, Gentiana PREDAN, Daniela LAZĂR, Mioara DUMITRAȘCU *Universitatea din București, Facultatea de Biologie Studii privind potențialul genului Azotobacter ca biofertilizator cu impact asupra creșterii și dezvoltării plantelor*. . SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA” Ediția a XXX-a, București, 15-16 noiembrie 2024.

## 1. PROIECTE DECERCETARE NATIONALE

### Director/Responsabil proiect:

- **Young Researchers Grant (UB)** - Microbial communities associated with romanian rare plants from a natural habitat - **ICUB (Institutul de Cercetare al Universității din București) – Competiția 2017**. (<http://icub.unibuc.ro/index.php/application/young-researchers-grant-ub/2-uncategorised/75-young-researchers-grant-ub-awarded-in-2017>). **Director de proiect**
- Contractul de finanțare nr. **527PED/2020, cod proiect PN-III-P2-2.1-PED-2019-1825**: Noi strategii antimicrobiene folosind compoziții pe bază de rășini cu proprietăți fotocatalitice (Total 600.000 lei, UB – 300.000). **Director de proiect**
- Contractul de finanțare nr. **591PED/2022, Cod proiect: PN-III-P2-2.1-PED-2021-0627**: Compozite multifuncționale inovatoare pentru protecția obiectelor aparținând patrimoniului cultural (Total 600.000 lei, UB- 150.000). **Responsabil de proiect (partener P3 UB)**.

- **Contractul de finanțare în curs de contractare, Cod Proiect PN-IV-P6-6.1-CoEx-2024-0120:** Centre de excelență: Centrul de excelență în cercetare pentru promovarea neutralității și rezilienței climatice prin agricultura (Total 9.019.500 lei, Partener UB-P3) – **Persoană cheie.**

#### **Membru in echipa de cercetare**

1. **Grant CEEEX\_MII/ 2006 (2006 – 2008)** “Aplicații ale mecanismelor de QS în dezvoltarea unor noi strategii anti-infecțioase”.
2. **CEEEX\_86/2006 (2006 – 2008)** “Aplicarea tratamentului cu fascicule de electroni accelerați în vederea decontaminării microbiene a suplimentelor nutritive din catină”.
3. **CEEEX\_85/2006 (2006 - 2008)** „Cercetări interdisciplinare privind obținerea unor noi agenți antimicrobieni, caracterizarea fizico-chimică și testarea activității biologice în vederea valorificării în terapia antiinfecțioasă”.
4. **CEEEX MI/2006 (2006 - 2008)** “Constituirea unei rețele integrate pentru studiul biofilmelor microbiene pe substraturi celulare și protetice, în scopul îmbunătățirii diagnosticului și tratamentului infecțiilor cauzate de biofilme”.
5. **CNCSIS 1679/ 2007 (2007 - 2009)** “Selectarea și controlul eficienței unor alternative ecologice de combatere a infecțiilor oportuniste cu bacterii multirezistente la antibiotice și incluse în biofilme”.
6. **PN II 61046/2007 (2007-2009)** „Cercetări privind obținerea unor noi agenți antimicrobieni din clasa tioureidelor: sinteza, caracterizarea, fizico-chimică și screenig biologic ”
7. **IDEI 296/2007 (2007 – 2010)** „Influența proteinelor de șoc termic asupra expresiei virulenței și patogenității bacteriene”
8. **PN II 42150/2008 (2008 – 2011)** „Cercetari interdisciplinare privind soluționarea unor noi aspecte de antibioretistență cu implicații majore în patologia chirurgicală cardiovasculară și gastroenterologică”
9. **PN II 62071/2008 (2008 – 2011)** „Obținerea unui fitoprodus topic eficient în procesul de vindecare a leziunilor cutanate”.
10. **PCCA 2 94/2012 (2012 – 2014)** “Noi dispozitive tubulare protetice nanostructurate cu proprietăți antibacteriene și antibiofilm induse de modificări fizico-chimice și morfologice”.
11. **PN-II-PT-PCCA 77/2012 (2012 – 2015)** „Cercetări inovative, multidisciplinare de investigare a efectelor probiotice ale unor noi tulpini de bacterii lactice și consorții”
12. **PCCA 215/2014** - Materiale și acoperiri nanostructurate inovative cu activitate antimicrobiană pentru aplicații medicale;
13. **PCCA 87/2014** - Textile fotocatalitice inovative cu proprietăți antibacteriene și de autocurățare;
14. **PCCA 259/2014** - Compozite bioceramice cu aplicații locale în terapia antibacteriană;
15. **PN-III-P2-2.1-BG-2016-0369, 116BG** - Transferul cunoașterii privind investigarea proprietăților antiinfecțioase și antitumorale ale unor noi formulări cosmetice și farmaceutice pe bază de extracte naturale.
16. **PN3-CO-PTE 52 PTE/2016** - Hidrogeluri compozite pe baza de nanoparticule anorganice și colagen cu activitate antimicrobiană prelungită pentru prevenirea infecțiilor de plagă.
17. **ERANET-JPI-EC-AMR -AWARE-WWTP/ 2017-2020** - Antibiotic resistance in wastewater: transmission risks for employees and residents around waste water treatment plants.

## ALTE CATEGORII DE PROIECTE– CONTRACTE CU INDUSTRIA

**Responsabil contract nr 6863/2017** – Testarea activității antimicrobiene a unor probe de vopsea lavabilă, conform ISO 22196:2011.

**Responsabil contract nr 31954/2016 - International training cours: *Applied Microbiological Training Course***, Coca-Cola Hellenic and University of Bucharest, Faculty of Biology Department, Microbiology, 10-14 noiembrie, 2016

## PROIECTE DE CERCETARE INTERNATIONALE

### Membru asociat (colaborator)

*“Screening for isolation and purification of novel bacteriocins from dairy lactic acid bacteria isolated from fermented foods with a potential to inhibit pathogenic bacteria”* - Research fellowship through a bilateral cooperation Romania-Belgium, conducted in Industrial Microbiology Research Group (IMDO - *Industrial Microbiology, Fermentation Technology and Downstream Processing*) Department of Applied Biological Sciences-University Vrije Brussel.

### Participare la Saloane de Inventica

1. IDEA (IDEA, Novelty, Invention and craft) International Exhibition, Abony, Hungary – Innovative multifunctional composites for the protection of cultural heritage objects (InHeritage) – Radu Claudiu Fierascu, Alina Melinescu, **Lia-Mara Ditu**, Irina Fierascu, Denisa Ficai, Alina Maria Holban, Toma Fistos, Anton Ficai, Carmen Curutiu (Gold medal)
2. International Exhibition of Inventions and Innovations “TRAIAN VUIA – 2022 Timisoara – Innovative multifunctional composites for the protection of cultural heritage objects (InHeritage) – Radu Claudiu Fierascu, Alina Melinescu, **Lia-Mara Ditu**, Irina Fierascu, Denisa Ficai, Alina Maria Holban, Toma Fistos, Anton Ficai, Carmen Curutiu (Gold medal)
3. 7th International Inventions Fair – ISIF’22 – Innovative multifunctional composites for the protection of cultural heritage objects (InHeritage) – Radu Claudiu Fierascu, Alina Melinescu, **Lia-Mara Ditu**, Irina Fierascu, Denisa Ficai, Alina Maria Holban, Toma Fistos, Anton Ficai, Carmen Curutiu (Gold medal)
4. EUROINVENT 2023 – Hydrophobic coating with self-cleaning and antimicrobial properties for artificial elements of vernacular constructions and method of obtaining it – Radu Claudiu Fierascu, Toma Fistos, Irina Fierascu, Alina Melinescu, Anton Ficai, Denisa Ficai, **Lia Mara Ditu**, Carmen Curutiu (Gold medal, awards from INOE 2000, Inventarium Science Portugal, special delegation award – ICPE-CA, EUROINVENT Grand Award)
5. INVENTICA 2023 – Hydrophobic coating with self-cleaning and antimicrobial properties for artificial elements of vernacular constructions and method of obtaining it – Radu Claudiu Fierascu, Toma Fistos, Irina Fierascu, Alina Melinescu, Anton Ficai, Denisa Ficai, **Lia Mara Ditu**, Carmen Curutiu (Gold medal, awards from CITT-UPT, Moldova Technical University)
6. International Exhibition Traian Vuia 2023, Timisoara – Hydrophobic coating with self-cleaning and antimicrobial properties for artificial elements of vernacular constructions and method of obtaining it – Radu Claudiu Fierascu, Toma Fistos, Irina Fierascu, Alina Melinescu, Anton Ficai, Denisa Ficai, **Lia Mara Ditu**, Carmen Curutiu (Silver medal, Diploma of Excellence INOE 2000)
7. 2023 Kaohsiung International Invention and Design EXPO (KIDE), 30.11-02.12.2023, Coating with photocatalytic and antimicrobial effect for the protection of natural elements of vernacular buildings

made of calcareous stones and procedure for obtaining it – Toma Fistos, Radu Claudiu Fierascu, Irina Fierascu, Mihaela-Alina Melinescu, Anton Ficai, Denisa Ficai, **Lia Mara Ditu**, Irina Gheorghe-Barbu, Roxana Ioana Brazdis (Matei), Anda Maria Baroi

8. IWIS – International Warsaw Invention Show 2023, 12-14.12.2023, Coating with photocatalytic and antimicrobial effect for the protection of natural elements of vernacular buildings made of calcareous stones and procedure for obtaining it – Toma Fistos, Radu Claudiu Fierascu, Irina Fierascu, Mihaela-Alina Melinescu, Anton Ficai, Denisa Ficai, **Lia Mara Ditu**, Irina Gheorghe-Barbu, Roxana Ioana Brazdis (Matei), Anda Maria Baroi

ANEXA 2

### CERERE/BREVETE DE INVENȚIE

1. Nițulescu George Mihai, Missir Alexandru Vasile, Chifiriuc Mariana Carmen, **Dîtu Lia Mara**. *Tioureide ale acidului 1-metil, 1H-4-pirazol-carboxilic și procedeu de preparare a acestora*. Brevet de invenție nr. RO123418 B1/ 2009 **Brevet acordat OSIM**
2. Grosu Elena, Fikai Anton, Chifiriuc Mariana Carmen, Rapa Maria, Ulinici Sorin Claudiu, Fikai Denisa, **Dîtu Lia Mara**. *Dispozitiv protetic tubular, stratificat, cu proprietăți antimicrobiene*, Cerere de brevet Nr: (11) 131309 A2 (51) A61F 2/02 (2006.01) (21) a 2015 00105 (22) 16/02/2015 (41) 30/08/2016/8/2016, Buletinul Oficial de Proprietate Industrială, Secțiunea „Brevete de Invenție”
3. Bucuresteanu Razvan Catalin, Ionita Monica Nicoleta, **Ditu Lia-Mara**, Alina-Maria Holban, Grigore Mihaescu, Curutiu Carmen, Husch Mihai, Durus Valer Dan, Udrea Radu Mihail, Enache Alexandu Alin. *Dispozitiv și procedeu de evaluare a activității produselor fotocatalitice*. Cerere OSIM nr. A/00430/17.08.2022.
4. Holban A.M., Zarif M.E., Vizireanu S., Yehia S.A., Birca A., Grumezescu A.M., Farcasiu A.T., Curutiu C., **Ditu L.M.**, Chifiriuc M.C., Dinescu G.; *Metoda cu plasma la presiune atmosferica pentru indepartarea biofilmelor microbiene dezvoltate pe diferite substraturi*. RO136024 (B1) 2024-07-30 **Brevet acordat OSIM**.
5. Toma Fistos, Radu Claudiu Fierascu, Roxana Ioana Brazdis (Matei), Anda Maria Baroi, Irina Fierascu, Mihaela Alina Melinescu, Anton Fikai, Denisa Fikai, **Lia Mara Ditu**, Carmen Curutiu *Acoperire hidrofobă cu proprietăți de autocurățare și antimicrobiene pentru elementele artificiale ale construcțiilor vernaculare și procedeu de obținere a acesteia*. Cerere de brevet de invenție A00773/28.11.2022.
6. Toma Fistos, Radu Claudiu Fierascu, Irina Fierascu, Mihaela-Alina Melinescu, Anton Fikai, Denisa Fikai, **Lia Mara Ditu**, Irina Gheorghe-Barbu, Roxana Ioana Brazdis (Matei), Anda Maria Baroi *Acoperire cu efect fotocatalitic și antimicrobian pentru protecția elementelor naturale din piatră calcaroasă ale construcțiilor vernaculare și procedeu de obținere a acesteia*. Cerere de brevet de invenție A00558/2023,
7. Fierăscu Radu Claudiu, Matei Roxana Ioana, Baroi Anda Maria, Fistos Toma, Fierăscu Irina, **Ditu Lia-Mara**. *Material compozit pe bază de ciment ionomer de sticlă și nanoparticule metalice fitosintetizate cu proprietăți antimicrobiene îmbunătățite și procedeu de obținere*. Cerere OSIM nr. A 2023 - 00104/06.03.2023

Data

28.01.2026

Semnătura

