

**Europass  
Curriculum Vitae**

**Personal information**

Surname(s) / First name(s) **Iordache Florin**  
 Address Bucuresti, Romania  
 Telephone(s)  
 E-mail(s) [floriniordache84@yahoo.com](mailto:floriniordache84@yahoo.com)  
 Nationality Romana  
 Date of birth 2 iulie 1984  
 Gender M

**Dates Februarie 2019 – prezent**

Occupation or position held **Lector universitar**  
 Name and address of employer Departamentul Stiinte Preclinice  
 Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti  
 Splaiul Independentei, nr. 105, Bucuresti, Romania  
 Type of business or sector Educatie si cercetare

**Dates Februarie 2018 – Ianuarie 2019**

Occupation or position held **Asistent universitar**  
 Name and address of employer Departamentul Stiinte Preclinice  
 Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti  
 Splaiul Independentei, nr. 105, Bucuresti, Romania  
 Type of business or sector Educatie si cercetare

**Martie 2011 - Februarie 2018**

**Cercetator stiintific, cercetator stiintific III (2015)**  
 Institutul de Biologie si Patologie Celulara „ N. Simionescu”  
 B. P. Hasdeu nr.8, Bucuresti, Romania  
 Cercetare biomedicala

**Noiembrie 2008 → 30 Februarie 2011**

**Asistent de cercetare**  
 Institutul de Biologie si Patologie Celulara „ N. Simionescu”  
 B. P. Hasdeu nr.8, Bucuresti, Romania  
 Cercetare biomedicala

**August 2006 – Aprilie 2009**

Name and address of employer **Conservator**  
 Type of business or sector Colectarea de probe biologice de pe teren (insecte, pesti), crearea de baze de date cu colectiile muzeului. Biologie moleculara (DNA barcoding, microsateliti) pentru speciile invazive de insecte, scoici si pesti.  
 Name and address of employer Muzeul National de Stiinte ale Naturii “Grigore Antipa”  
 Sos. Kiseleff, nr.1 Bucuresti, Romania  
 Type of business or sector Educatie si cercetare

<b>Dates</b>	<b>Septembrie 2011 → Ianuarie 2012</b>
Occupation or position held	<b>Profesor Biologie</b>
Main activities and responsibilities	Educatie
Name and address of employer	<b>Liceul „Constantin Brancoveanu”, sector 1, Bucharest</b>
<b>Dates</b>	<b>23 Februarie 2012 → 22 Aprilie 2013</b>
Occupation or position held	<b>Consultant de specialitate</b>
Main activities and responsibilities	Specialit aplicatii Biologie Celulara si Moleculara
Name and address of employer	<b>SC. Antisel Ro.SRL</b>
<b>Education</b>	
<b>Dates</b>	<b>01 Octombrie 2003 - Iunie 2009</b>
Title of qualification awarded	<b>Doctor - Medic Veterinar</b>
Name and type of organisation providing education and training	Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti Splaiul Independentei, nr. 105, Bucuresti, Romania
<b>Dates</b>	<b>01 Octombrie 2004 - Iunie 2008</b>
Title of qualification awarded	<b>Licenta in Biologie</b>
Name and type of organisation providing education and training	Universitatea din Bucuresti, Facultatea de Biologie Splaiul Independentei, nr. 91-95, Bucuresti, Romania
<b>Dates</b>	<b>01 Octombrie 2008 - Iunie 2010</b>
Title of qualification awarded	<b>Master in Biochimie si Biologie Moleculara</b>
Name and type of organisation providing education and training	Universitatea din Bucuresti, Facultatea de Biologie Splaiul Independentei, nr. 91-95, Bucuresti, Romania
<b>Dates</b>	<b>01 Noiembrie 2009 – 29 Noiembrie 2013</b>
Title of qualification awarded	<b>Doctorat in Biologie, teza: “Epigenetics mechanism involved in stem cell differentiation”</b>
Name and type of organisation providing education and training	Institutul de Biologie si Patologie Celulara „ N Simionescu” B. P. Hasdeu nr.8, Bucuresti, Romania Academia Romana, Institutul de Biologie si Patologie Celulara “N. Simionescu”
<b>Dates</b>	<b>05.05.2014 – 04.11.2015</b>
	<b>Postdoctorand, cu tema; “Tehnici moderne de investigare și supraveghere a riscurilor de urgență a zoonozelor transmise de căpușe, în zona de sud a României.</b>
	Facultatea de Medicina Veterinara, Universitatea de Stiinte Agronomice si Medicina Vetrinara Bucuresti, Splaiul independentei, nr. 105, Bucuresti

Other language(s)

Self-assessment

European level (\*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C 2	Proficient User	C 2	Proficient user	C 2	Proficient user	C 2	Proficient user	C 2	Proficient user

(\*) [Common European Framework of Reference \(CEF\) level](#)

Technical skills and competences

**Biologie moleculara:** extractii ADN, ARN, (celule, sange, tesut in parafina), reverstranscriere, RT-PCR, Real-Time PCR, Western-blot, transfectii, microarray, secventiers Sanger

**Biologie celulara:** culturi de celule, izolare de celule stem din maduva osoasa si sange din cordon ombilical si gelatina Wharton, citometrie in flux, dozare lipide, proteine , glucide din probe biologice

**Histologie si microscopie:** histochimie, imunocito/imunohistochimie, criosectiuni, micrscoapie de fluorescenta, micrscoapie electronica de transmisie sii baleaj.

**Lucru cu animale:** soareci pe modele de infarct femural si miocardic

Computer skills and competences

Word, Excell, Powerpoint, software de statistica (Origin, SPSS)

Driving licence(s)

Da

- motivat  
- responsabil  
- lucru in echipa

Social and Organisational skills and competences

Current Position

**Editor Asistent pentru revista “Biointerface Research in Applied Chemistry”**

Comporter, Raditiei 15, Bucuresti, Romania

name and adrees of employer

editorial board, management, research

type of busines or sector

**Membru in asociatii profesionale:**

1. Societatea Europeana de Microbiologie Clinica si Boli Infectioase
2. Societatea Romana de Biochimie si Biologie Moleculara
3. Societatea Romana de Biofizica Pura si Aplicata
4. Societatea Romana de Biologie Celulara

Other activities

**Indrumare lucrari de licenta/dizertati: peste 50**

Annexes

**Cursuri si work-shopuri internationale**

→4 saptamani - Institute of Neurophysiology, Köln, Germany, 9.01.2010-4.02.2010

→ Curs International: “Electroporation for Medicine: Basic Knowledge, Applications and Technologies”, 25-27 Octombrie, 2012, Romania

→ Training citometrie in flux FACS MoFlo Astrios, Nyon, Elvetia, 29 aprilie -1 mai 2015

- Training bioprinter 3D Discovery Bioploter, Geneva, Elvetia, 10-14 mai 2015
- Tehnici moleculare în diagnosticul și screening-ul genetic, de la nucleotid la genom, Craiova, 3-5 septembrie 2017

#### **Premii si burse:**

1. Premiul 3 acordat de Institutul de Biologie al Academiei Romane pentru comunicarea: „*Morphological and molecular changes induced by apoptosis following treatment with P. aeruginosa bacterial culture and cell free culture in endothelial cells*”, Conferinta Aniversara “50 Years of Academic Research in Biology”, 29 Septembrie – 1 Octombrie, 2010, Bucuresti
2. Premiul pentru cea mai buna lucrare a unui tanar cercetator: Al-VI<sup>lea</sup> “Academician Nicolae Cajal Symposium” 30 Martie - 01 Aprilie, 2011, Bucuresti
3. Bursa acordata de Federatia Europeana de Biofizica la al 8<sup>lea</sup> “European Biophysics Congress, Budapesta, Ungaria, 2011
4. Bursa acordata de Federatia Societatilor Europene de Biochimie FEBS la *Young Scientist Forum and 36th FEBS Congress "Biochemistry for Tomorrow's Medicine"* Italy, 23-30 Iulie, 2011
5. Bursa acordata de Federatia Societatilor Europene de Biochimie FEBS la “38th FEBS Congress "Mechanism in Biology" Sankt Petersburg, Russia 6-11 iulie, 2013
6. Bursa acordata de Federatia Societatilor Europene de Biochimie FEBS la “43th FEBS Congress "Mechanism in Biology" Prague, Czech Republic, 4-12 Iulie, 2018

#### **Director de proiect**

1. Mecanisme genetice si epigenetice implicate in senescenta celulelor stem/SENSTEM, PN-III-P1-1.1-TE-2021-0864, nr 19/2022.
2. Ingineria tisulara a vaselor de sange utilizand bioprintarea tridimensionala a celulelor progenitoare endoteliale si musculare, BIOPRINT, PN-III-P1-1.1-PD-2016-1660, 2018-2020.
3. Impactul epigenetic în dezvoltarea bolilor cardiovasculare, Academia Oamenilor de Știință (AOȘR), 1.10.2021 - 17.12.2021

#### **Colaborator in proiecte internationale**

1. POSTDOCTORAL POSITION in Molecular Profiling of Myeloproliferative Neoplasms and Acute Myeloid Leukemia for Designing Early Diagnostic, Prognostic and Treatment Strategies (MYELOAL - EDIAPROT)” project ID P\_37\_798, co-financed by the competitiveness operational programme 2014-2020, priority axis 1 – research, technological development and innovation (rd&i) to support economic competitiveness and business development, Action 1.1.4 Attracting high-level personnel from abroad in order to enhance the RD capacity, POC-A1-A1.1.4-E-2015.
2. Targeted therapies for diabetes - related aortic valve disease THERAVALDIS, cod MySMIS – 104362, Competitiveness Operational Programme (POC), 2016 - Grant no. 115/13.09.2016;
3. Switzerland - Romania international collaboration project: Effects of sex steroids on

adult stem/ progenitor cell-mediated cardiovascular regeneration. Nr. CH-21 E / RRP (2012-2016);

4. Bilateral cooperation between Romania and Germany for reinforcing European Scientific Competitiveness in the field of Stem cell research with Applications for Cardiovascular regeneration, Acronym CORES, 7 December 2009 -7 March 2010

#### **Colaborator in proiecte nationale**

1. DNA barcoding technique applied in the study of alien and/or invasive species of Romania wildlife, Acronym "DNA-BRIS" - 1/10/2008- 2010

2. Cryopreserved stem cell bank for research and autologous transplant, acronym "BCS" - 15.09.2008-16.09.2010

3. Postdoctoral project: Project co-funded by European Social Fund Operational Programme Human Resources Development 2007 - 2013 Priority Axis 1 "Education and training in support of growth and development of knowledge based society". Project ID: 132 765 Contract: HRD /159/ 1.5 / S / 132 765.

4. Investigation of viral and host markers correlated with lack of response to anti-viral therapy in chronic hepatitis C (HepGen) - Contract no. 88 / 2012-2016 ( 2014 - 2017)

5. Expert and support development of training modules for medical students in project POSDRU 156 / 1.2 / G / 141 745, University of Medicine and Pharmacy "Carol Davila", Bucharest, 2015

6. Expert in preparation of training modules for PhD students and postdoctoral fellow in POSDRU 159 / 1.5 / S / 137 390, University of Medicine and Pharmacy "Carol Davila", Bucharest, 2015

7. 2018-2020 - Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project". Project no. PN-III-P1-1.2-PCCDI-2017-0527/Contract no. 83 PCCDI/2018 - Project title: Development of BIONanotechnologies based on extracellular Vesicles for early diagnosis, prognosis and therapy of Atherosclerotic disease;- Project acronym: BIOVEA- the project was funded with 1125000 Euro.

8. Tehnologie de înaltă sensibilitate pentru diagnosticarea pacienților cu cancer colorectal cu risc de recidivă peritoneală post-rezeecție; ghidarea terapiei personalizate, 45PTE/07/09/2020, 2020-2022

#### **Carti**

1. Alina Maria Holban, Alexandru Mihai Grumezescu, **Florin Iordache**. Nanotechnology in Diagnosis, Treatment and Prophylaxis of Infectious Diseases, **chapter 4 –“Magnetite nanostructures: Trends in anti-infectious therapy”**. Elsevier Academic Press, **2015**, ISBN: 978-0-12-801317-5

2. **Florin Iordache**, Irina Gheorghe, Veronica Lazar, Carmen Curutiu, Lia Mara Ditu, Alexandru Mihai Grumezescu, Alina Maria Holban. Food Preservation, **chapter 9 – Nanostructured materials for prolonged and safe food preservation**, Elsevier Academic Press, **2016**, ISBN 978-0-12-804303-5.

3. **Florin Iordache**, Horia Maniu, Carmen Curutiu, Petruta Cornea, Aneta Pop. Genetically engineered

foods, **chapter 14: Identification of Genetically Modified Foods, 2018**, Elsevier Academic Press, ISBN: 978-0-12-811519-0

**4.** Carmen Curutiu, **Florin lordache**, Petruta Gurban, Veronica Lazar, Carmen Chifiriuc. Bottled and Packaged Water: Volume 4: The Science of Beverages, **chapter 14. Main Microbiological Pollutants of Bottled Waters and Beverages, 2019**, Woodhead Publishing, Paperback ISBN: 9780128152720

**5.** **Florin lordache**. Materials for Biomedical Engineering: Hydrogels and Polymer-based Scaffolds, 1st Edition, **chapter 2: Bioprinted Scaffolds, 2019**, Paperback ISBN: 9780128169018

**6.** Iuliana Gâjâială, Corina Nicoleta PREDESCU, Aurelia Magdalena PISOSCHI, **Florin IORDACHE**, Loredana STANCA, Andreea Iren ȘERBAN. TESTE DE CHIMIE ORGANICĂ pentru admitere la FACULTATEA DE MEDICINĂ VETERINARĂ DIN BUCUREȘTI, 203, ISBN 978-606-072-326-4

**Lucrari stiintifice:** 92 lucrari stiintifice indexate ISI/BDI, 5 capitole de carte publicate la edituri international, participarea la peste 50 de conferinte nationale/ internationale

**Hirsch index:** **20** (web of knowledge); **25** (Scopus); **25** (Google Scholar), numar total de citari = **2100**

**Reviewer pentru:** Polymers (1), Materials (2), Molecules (1), Colloids and Surfaces B: Biointerfaces (1), AMB Express (1), Medical Science Monitor (1), Journal of Fluorescence (4).

#### Lista de lucrari - selectie

- lordache, F.;** Petcu, A.; Pisoschi, A.M.; Stanca, L.; Geicu, O.I.; Bilteanu, L.; Curuțiu, C.; Amuzescu, B.; Serban, A.I. *PCR Array Profiling of miRNA Expression Involved in the Differentiation of Amniotic Fluid Stem Cells toward Endothelial and Smooth Muscle Progenitor Cells*. Int. J. Mol. Sci. 2024, 25, 302. <https://doi.org/10.3390/ijms25010302>. (FI = 5.6).
- Amalia Mesaros, Alba Garzón, Mircea Nasui, Rares Bortnic, Bogdan Vasile, Otilia Vasile, **Florin lordache**, Cristian Leostean, Lelia Ciontea, Josep Ros & Ovidiu Pana. *Insight into synthesis and characterisation of Ga<sub>0.9</sub>Fe<sub>2.1</sub>O<sub>4</sub> superparamagnetic NPs for biomedical applications*. Sci Rep 13, 18175 (2023). <https://doi.org/10.1038/s41598-023-45285-y> (FI = 4.6).
- Cristina-Ioana Dobrița, Alina-Ioana Bădănoiu, Georgeta Voicu, Adrian-Ionuț Nicoară, Simina-Maria Dumitru, Maria-Eliza Pușcașu, Ștefania Chiriac, Răzvan Ene, **Florin lordache**. *Porous bioceramic scaffolds based on akermanite obtained by 3D printing for bone tissue engineering*. Ceramics International, 49, Part B, 2023, 35898-35906. <https://doi.org/10.1016/j.ceramint.2023.08.270> (FI = 5.2).
- Stoica AE, Albuleț D, Bîrcă AC, **lordache F**, Fica A, Grumezescu AM, Vasile BȘ, Andronescu E, Marinescu F, Holban AM. *Electrospun Nanofibrous Mesh Based on PVA, Chitosan, and Usnic Acid for Applications in Wound Healing*. International Journal of Molecular Sciences. 2023; 24(13):11037. <https://doi.org/10.3390/ijms241311037> (FI = 5.6).

5. Constantin NT, Bercea-Strugariu CM, Bîrțoiu D, Posastiuc FP, **lordache F**, Bilteanu L, Serban AI. *Predicting Pregnancy Outcome in Dairy Cows: The Role of IGF-1 and Progesterone*. *Animals*. 2023; 13(10):1579. <https://doi.org/10.3390/ani13101579> (FI = 3.0).
6. Aurelia Magdalena Pisoschi, **Florin lordache**, Loredana Stanca, Adriana Ionescu Petcu, Letitia Purdoi, Ovidiu Ionut Geicu, Liviu Bilteanu, Andreea Iren Serban. *Comprehensive overview and critical perspective on the analytical techniques applied to aflatoxin determination – A review paper*. *Microchemical Journal*, 191, 2023, 108770 <https://doi.org/10.1016/j.microc.2023.108770> (FI = 4.8).
7. Geicu OI, Bilteanu L, Stanca L, Ionescu Petcu A, **lordache F**, Pisoschi AM, Serban AI. *Composition-Based Risk Estimation of Mycotoxins in Dry Dog Foods*. *Foods*. 2023; 12(1):110. <https://doi.org/10.3390/foods12010110> (FI = 5.2).
8. Andrada Ioana Damian-Buda, Georgeta Voicu, Bogdan Stefan Vasile, Adela Banciu, **Florin lordache**, Lucian Toma Ciocan. *Development of mesoporous borosilicate bioactive glass nanoparticles containing Mg<sup>2+</sup> and Zn<sup>2+</sup>: biocompatibility, bioactivity and antibacterial activity*. *Journal of Non-Crystalline Solids*, 594, 2022, 121819. <https://doi.org/10.1016/j.jnoncrysol.2022.121819> (IF = 3.5).
9. Aurelia Magdalena Pisoschi, Aneta Pop, **Florin lordache**, Loredana Stanca, Ovidiu Ionut Geicu, Liviu Bilteanu, Andreea Iren Serban. *Antioxidant, anti-inflammatory and immunomodulatory roles of vitamins in COVID-19 therapy*. *European Journal of Medicinal Chemistry* 232 (2022) 114175 <https://doi.org/10.1016/j.ejmech.2022.114175> (FI = 6.7).
10. Aurelia Magdalena Pisoschi, **Florin lordache**, Loredana Stanca, Iuliana Gajaila, Oana Margarita Ghimpeteanu, Ovidiu Ionut Geicu, Liviu Bilteanu, and Andreea Iren Serban. *Antioxidant, Anti-inflammatory, and Immunomodulatory Roles of Nonvitamin Antioxidants in Anti-SARS-CoV-2 Therapy*. *Journal of Medicinal Chemistry* 2022 65 (19), 12562-12593 <https://doi.10.1016/j.ejmech.2022.114175> (FI = 6.7).
11. Robu A, Antoniac A, Grosu E, Vasile E, Raiciu AD, **lordache F**, Antoniac VI, Rau JV, Yankova VG, Ditu LM, et al. *Additives Imparting Antimicrobial Properties to Acrylic Bone Cements*. *Materials*. 2021; 14(22):7031. <https://doi.org/10.3390/ma14227031> (FI = 3.4).
12. Ionescu A, Bilteanu L, Geicu OI, **lordache F**, Stanca L, Pisoschi AM, Miron A, Serban AI, Calu V. *Multivariate Risk Analysis of RAS, BRAF and EGFR Mutations Allelic Frequency and Coexistence as Colorectal Cancer Predictive Biomarkers*. *Cancers*. 2022; 14(11):2792. <https://doi.org/10.3390/cancers14112792> (FI = 5.2).
13. **lordache F**, Buzila CA. *Amniotic fetal stem cells - derived endothelial progenitors, a support for personalized cardiovascular regenerative medicine*.

<https://doi.org/10.31688/ABMU.2022.57.1.01>

14. David ME, Ion RM, Grigorescu RM, Iancu L, Holban AM, **lordache F**, Nicoara AI, Alexandrescu E, Somoghi R, Teodorescu S, Gheboianu AI. *Biocompatible and antimicrobial cellulose acetate-collagen films containing MWCNTs decorated with TiO<sub>2</sub> nanoparticles for potential biomedical applications*. *Nanomaterials*. 2022; 12(2):239. <https://doi.org/10.3390/nano12020239>. (FI = 5.07)
15. Paduraru AV, Oprea O, Musuc AM, Vasile BS, **lordache F**, Andronescu E. *Influence of Terbium Ions and Their Concentration on the Photoluminescence Properties of Hydroxyapatite for Biomedical Applications*. *Nanomaterials*, 2021; 11(9):2442. <https://doi.org/10.3390/nano11092442>, (FI = 5.07).
16. Dumitrescu CR, Neacsu IA, Surdu VA, Nicoara AI, **lordache F**, Trusca R, Ciocan LT, Ficaï A, Andronescu E. *Nano-Hydroxyapatite vs. Xenografts: Synthesis, Characterization, and In Vitro Behavior*. *Nanomaterials*. 2021; 11(9):2289. <https://doi.org/10.3390/nano11092289> (FI = 5.07).
17. Paduraru AV, Musuc AM, Oprea OC, Trusca R, **lordache F**, Vasile BS, Andronescu E. *Synthesis and Characterization of Photoluminescent Ce(III) and Ce(IV) Substituted Hydroxyapatite Nanomaterials by Co-Precipitation Method: Cytotoxicity and Biocompatibility Evaluation*. *Nanomaterials*. 2021; 11(8):1911. <https://doi.org/10.3390/nano11081911> (FI = 5.07).
18. Grumezescu V, Negut I, Cristescu R, Grumezescu AM, Holban AM, **lordache F**, Chifiriuc MC, Narayan RJ, Chrisey DB. *Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization*. *Molecules*. 2021; 26(12):3634. <https://doi.org/10.3390/molecules26123634> (FI = 4.6).
19. Calu, V., Ionescu, A., Stanca, L., **lordache, F. et al.** *Key biomarkers within colorectal cancer related inflammatory microenvironment*. *Sci Rep* 11, 7940,2021 <https://doi.org/10.1038/s41598-021-86941-5>. (FI = 3.9).
20. Pisoschi AM, Pop A, **lordache F**, Stanca L, Bilteanu L, Serban AI. *Antioxidant Determination with the Use of Carbon-Based Electrodes*. *Chemosensors*. 2021; 9(4):72. <https://doi.org/10.3390/chemosensors9040072>. (FI = 3.01).
21. Gherasim O, Popescu RC, Grumezescu V, Mogoşanu GD, Mogoantă L, **lordache F**, Holban AM, Vasile BŞ, Bîrcă AC, Oprea O-C, Grumezescu AM, Andronescu E. *MAPLE Coatings Embedded with Essential Oil-Conjugated Magnetite for Anti-Biofilm Applications*. *Materials*. 2021; 14(7):1612. <https://doi.org/10.3390/ma14071612>. (FI = 3.05).
22. Miu, DM., Jinga, SI., Voicu, G., **lordache F**. *Characteristics of Wollastonite Ceramic Coatings Obtained by Pulsed Laser Deposition*. *J Inorg Organomet Polym* 31, 1601–1607 (2021). <https://doi.org/10.1007/s10904-020-01811-3>. (IF = 1.94).
23. Pisoschi AM, Pop A, **lordache F**, Stanca L, Predoi G, Serban AI. *Oxidative*



- stress mitigation by antioxidants - An overview on their chemistry and influences on health status.* Eur J Med Chem. 2021, 209:112891. <https://doi.org/10.3390/foods12010110> (IF = 5.5).
24. Preda, N., Costas, A., Beregoi, M. **lordache F.**, et al. *Functionalization of eggshell membranes with CuO–ZnO based p–n junctions for visible light induced antibacterial activity against Escherichia coli.* Sci Rep 10, 20960 (2020). <https://doi.org/10.1038/s41598-020-78005-x>. (IF =3.99).
25. Curti F, Stancu I-C, Voicu G, Iovu H, Dobrita C-I, Ciocan LT, Marinescu R, **lordache F.** *Development of 3D Bioactive Scaffolds through 3D Printing Using Wollastonite–Gelatin Inks.* Polymers. 2020; 12(10):2420. <https://doi.org/10.3390/polym12102420> (IF = 3.42).
26. Neacsu IA, Serban AP, Nicoara AI, Trusca R, Ene VL, **lordache F.** *Biomimetic Composite Scaffold Based on Naturally Derived Biomaterials.* Polymers. 2020; 12(5):1161. <https://doi.org/10.3390/polym12051161> (IF = 5.0).
27. Aurelia Magdalena Pisoschi, Aneta Pop, Iuliana Gajaila, **Florin lordache**, Razvan Dobre, Iuliana Cazimir, Andreea Iren Serban. *Analytical methods applied to the assay of sulfur-containing preserving agents.* Microchemical Journal, 155, 2020, 104681 <https://doi.org/10.1016/j.microc.2020.104681> (IF = 4.8).
28. Nicoara AI, Ene VL, Voicu BB, Bucur MA, Neacsu IA, Vasile BS, **lordache F.** *Biocompatible Ag/Fe-Enhanced TiO2 Nanoparticles as an Effective Compound in Sunscreens.* Nanomaterials. 2020; 10(3):570. <https://doi.org/10.3390/nano10030570> (IF = 5.3).
29. Gherasim O, Grumezescu AM, Grumezescu V, **lordache F.**, Vasile BS, Holban AM. *Bioactive Surfaces of Polylactide and Silver Nanoparticles for the Prevention of Microbial Contamination.* Materials. 2020; 13(3):768. <https://doi.org/10.3390/ma13030768> (IF = 3.4).
30. Alina-Denisa Draghici, Cristina Busuioc, Alexandra Mocanu, Adrian-Ionut Nicoara, **Florin lordache**, Sorin-Ion Jinga. *Composite scaffolds based on calcium phosphates and barium titanate obtained through bacterial cellulose templated synthesis.* Materials Science and Engineering: C, 110, 2020, 110704. <https://doi.org/10.1016/j.msec.2020.110704> (IF = 7.3).
31. Airini R, **lordache F.**, Alexandru D, Savu L, Epureanu FB, Mihailescu D, Amuzescu B, Maniu H. *Senescence-induced immunophenotype, gene expression and electrophysiology changes in human amniocytes.* J Cell Mol Med. 2019 Nov;23(11):7233-7245. <https://doi.org/10.1111/jcmm.14495> (IF = 5.3).
32. Andronescu E, Predoi D, Neacsu IA, Paduraru AV, Musuc AM, Trusca R, Oprea O, Tanasa E, Vasile OR, Nicoara AI, **lordache F.** et al. *Photoluminescent Hydroxylapatite: Eu3+ Doping Effect on Biological Behaviour.* Nanomaterials. 2019; 9(9):1187. <https://doi.org/10.3390/nano9091187> (IF = 5.3).

33. Andrei-Vlad Zanzir, Nicusor Nenu, Georgeta Voicu, Alina-Ioana Badanoiu, Cristina-Daniela Ghitulica, **Florin Iordache**. *Modified calcium silicophosphate cements with improved properties*. Materials Chemistry and Physics, 238, 2019, 121965 <https://doi.org/10.1016/j.matchemphys.2019.121965> (IF = 4.6).
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