

PERSONAL DATA



Borcan G. Florin

 2nd E. Murgu Sq., Timișoara-300041, România

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Sex male | Nationality romanian

WORK EXPERIENCE

22.IX.2014 -

Lecturer, then Assoc. Prof (since 2017)

University of Medicine and Pharmacy, Analytical Chemistry Dept.

2nd E. Murgu Sq., Timisoara-300041

[education and research](#)

01.X.2011 - 21.IX.2014

PhD Asist., then Lecturer (since 2013)

University of Medicine and Pharmacy, Pharmaceutical Chemistry Dept.

2nd E. Murgu Sq., Timisoara-300041

[education and research](#)

01.IX.2009 - 31.XII.2011

PhD Teacher

"Electrotimis" TradeSchool, Chemistry Dept.

2nd M. Millo Str., Timisoara-300696

[education](#)

01.XI.2008 - 31.VIII.2009

PhD Teacher

"Gr. Moisil" HighSchool, Chemistry Dept.

4th Ghirlandei Str., Timisoara-300231

[education](#)

01.III.2006 - 30.VI.2008

Asist.

West University, Faculty of Chemistry and D.P.P.D.

16th Pestalozzi Str., Timisoara-300115

[research and education](#)

01.IX.2002 - 31.VIII.2004

Teacher

"Sf. Nicolae" TradeSchool, Chemistry Dept.

9th Mihai Viteazu Str., Deta-305200

[education](#)

EDUCATION AND TRAINING

01.X.2019-

PhD in Pharmacy

University of Medicine and Pharmacy, Faculty of Pharmacy

2nd E. Murgu Sq., Timisoara-300041

PhD program

01.X.2011 - 30.IX.2012

Master in Cosmeto-dermatology

University of Medicine and Pharmacy, Faculty of Pharmacy

2nd E. Murgu Sq., Timisoara-300041

Master program: Formulation and evaluation of dermato-cosmetic product

- 01.X.2006 - 31.III.2008 **Bachelor's Degree in Computer Science**
 West University, Faculty of Mathematics-Informatics
 4th V. Parvan Blvd., Timisoara-300223
 Postgraduate specialization
- 01.XI.2004 - 31.X.2008 **PhD in Chemistry**
 West University, Faculty of Chemistry-Biology-Geography
 16th Pestalozzi Str., Timisoara-300115
 PhD program
- 01.X.2002 - 30.VI.2004 **Master in Chemistry**
 West University, Faculty of Chemistry-Biology-Geography
 16th Pestalozzi Str., Timisoara-300115
 Master program: Chemistry of biologically active compounds
- 01.X.1998 - 30.VI.2002 **Bachelor's Degree in Chemistry**
 West University, Faculty of Chemistry-Biology-Geography
 16th Pestalozzi Str., Timisoara-300115
 Undergraduate courses

PERSONAL SKILLS AND COMPETENCES

Mother language romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Engleză	B2	C2	B2	C1	C2
Franceză	B1	B2	B1	B1	B1

Social skills and competences High sociability and good communication skills gained through the experience as a teacher. Teamwork, creativity and perseverance, gained inside research groups. Ability to adapt to multicultural environments, developed through work with foreign students.

Organizational skills and competences Leader of students practical works. Good experience in managing research projects. Organizational spirit with a flair for planning and management of resource, budget and time.

Skills acquired in the workplace Team spirit, creativity and perseverance, gained in research groups. Ability to adapt to multicultural environments, developed through work with foreign students.

Digital skills	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Good hardware knowledge: system assembly, HDD partitioning, installation, optimization - Windows operating systems. Advanced user of Windows Explorer, Total Commander, MS Office (Word, Excel, PowerPoint), Internet browsers, chemistry programs (ISIS, HyperChem) and statistics. Basic knowledge of computer graphics (Adobe Photoshop, Corel, Flash) and programming (HTML, MySQL, PHP).

Other skills Experienced user of sample characterization tools (chemicals, biological samples, new synthetic products): pH-meters, Courage-Khazaka dermatological probes, DSC Mettler-Toledo, Particles' Zetasizer Cordouan Technol., Flow-cytometry BD, HPLC Agilent, MALDI-TOF Bruker.

Driving licence cat. B (since 1997)

March 1st 2022

PhD Florin G. BORCAN

 ADDITIONAL INFORMATIONS

ORCID: orcid.org/0000-0003-3406-0303

Publons: publons.com/researcher/1403718

Brainmap.ro Code: [U-1700-031U-0068](https://brainmap.ro/1700-031U-0068)



 1. Teaching and professional activity

A. Books

- A.1. **Borcan F**, Jurconi H, Bolcu C. *Considerații generale privind adezivii poliuretani*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-314-0, p. 60.
- A.2. Bolcu C, **Borcan F**. *Chimia compușilor macromoleculari*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-388-9, p. 102.
- A.3. **Borcan F**, Borcan G, Bolcu C. *Tipuri de probleme de chimie organică*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-405-5, p. 124.
- A.4. Putz MV, **Borcan F**, Lacrămă AM (Ed.) *Cercul principiilor. Vol I*. Ed. Univ. de Vest, Timișoara, 2007, ISBN 978-975-125-077-9, p. 272.
- A.5. **Borcan F**, Pitulice L, Dascălu D, Chiriac V, Bolcu C, Isac D. *Algoritmizare, modelare, experiment chimic – Chimie anorganică*. Ed. Eurostampa, Timișoara, 2007, ISBN 978-973-687-586-1, p. 128.
- A.6. **Borcan F**, Pitulice L, Isac D. *Practică pedagogică - chimie*. Ed. Eurostampa, Timișoara, 2007, ISBN 978-973-687-597-7, p. 44.
- A.7. **Borcan F**, Cîrstea CA. *Probleme de chimie anorganică*. Ed. Eurostampa, Timișoara, 2008, ISBN 978-973-687-654-7, p. 120.
- A.8. Bolcu C, Seiman I, Duda-Seiman C, **Borcan F**. *Tehnologii moderne de obținere a unor tipuri speciale de poliuretani*. Ed. Eurostampa, Timișoara, 2008, ISBN 978-973-687-668-4, p. 224.
- A.9. Bolcu C, **Borcan F**. *Culegere de probleme de chimie organică – pentru examenele din învățământul liceal, universitar și postuniversitar*. Ed. Eurostampa, Timișoara, 2010, ISBN 978-606-569-112-4, p. 116.
- A.10. Trandafirescu C, Șoica C, Pătrușescu C, **Borcan F**. *Chimie farmaceutică. Lucrări practice de laborator*. Ed. Victor Babeș, Timișoara, 2012, ISBN 978-606-8054-74-2, p. 218.
- A.11. **Borcan F**, Andoni M. *Aplicații pentru dezvoltarea abilităților de calcul chimic*. Ed. Mirton, Timișoara, 2012, ISBN 978-973-52-1272-8, p. 136.
- A.12. Șoica C, **Borcan F**, Trandafirescu C. *Chimia și acțiunea antisepticelor și dezinfectantelor*. Ed. Victor Babeș, Timișoara, 2013, ISBN 978-606-8456-20-1, p. 176.
- A.13. **Borcan F**, Andrica FM, Ardelean S. *Elemente de metodologie aplicată în toxicovigilență și cosmetovigilență*. Ed. Victor Babeș, Timișoara, 2014, ISBN 978-606-8456-40-9, p. 132.
- A.14. Ledeti A-V, Axente C, Cîrcioban D-L, Ledeti I-V, **Borcan F**. *Chimie analytique quantitative – Notes de cours*. Ed. Mirton, Timișoara, 2017, ISBN 978-973-52-1770-9, p. 274.
- A.15. **Borcan F**, Ledeti AV, Tomoroga C, Cîrcioban D-L. *Tehnici de analiză instrumentală*. Ed. Victor Babeș, Timișoara, 2020, ISBN 978-606-786-199-0, p. 146.

B. Chapters

- B.1. **Borcan F**, Filimon N, Bolcu C. *Modelling of the polyurethane structure for a better antibiotics' adsorption* In Putz MV (Ed.) *Advances in Chemical Modeling. Volume 2*, Nova Science Publishers Inc. 2011, ISBN 978-1-61209-669-8, p. 371-377.
- B.2. Duda-Seiman C, Avram S, Duda-Seiman D, Bumbacila B, **Borcan F**, Cinca R. *Calcium Channel Blockers: Past and Future* In Khan MTH (Ed.) *Recent Trends on QSAR in the Pharmaceutical Perceptions*, Bentham Science Publishers 2012, ISBN 978-1-60805-433-6, p. 51-62.
- B.3. Avram S, Buiu C, Duda-Seiman C, **Borcan F**, Duda-Seiman D, Mihailescu D. *Evaluation of the Pharmacological Descriptors Related to the Induction of Antimicrobial Activity by Using QSAR and Computational Mutagenesis* In Khan MTH (Ed.) *Recent Trends on QSAR in the Pharmaceutical Perceptions*, Bentham Science Publishers 2012, ISBN 978-1-60805-433-6, p. 63-98.

2. Research activity

C. Scientific papers in ISI journals

- C.1. Bolcu C, **Borcan F**. The Study of the Reactions of 2,4-dihydroxy-benzophenone with mono- and diisocyanates. *Materiale Plastice*, **2005**, 42(1), 35-39.
ISSN= 0025-5289
FI= [0,412/2005](#)
Autor Princ.: UA
WOS= 000228469600007
- C.2. Bolcu C, **Borcan F**, Nuțiu R. Aspects regarding the synthesis and characterization of some types of thermoplastic polyurethanes. *Materiale Plastice*, **2006**, 43(3), 258-261.
ISSN= 0025-5289
FI= [0,319/2006](#)
Autor Princ.: -
WOS= 000242135800016
- C.3. Vlase T, Doca N, Vlase G, Bolcu C, **Borcan F**. Kinetics of non-isothermal decomposition of three irganox-type antioxidants. *Journal of Thermal Analysis and Calorimetry*, **2008**, 92(1), 15-18.
ISSN= 1388-6150
FI= [1,630/2008](#)
Autor Princ.: UA
WOS= 000254920300003
- C.4. Bolcu C, **Borcan F**, Duda-Seiman C, Nuțiu R. Thermal Analysis of Urethane and Alophanate Compounds Obtained by Chemical Reactions Between Phenylisocyanate and Mono- or Bifunctional Stabilizers. *Materiale Plastice*, **2009**, 46(3), 315-320.
ISSN= 0025-5289
FI= [0,000/2009](#)
Autor Princ.: -
WOS= 000272488600020
- C.5. Avram S, Duda-Seiman D, Duda-Seiman C, **Borcan F**, Mihăilescu D. Predicted binding rate of new cephalosporin antibiotics by a 3D-QSAR method: a new approach. *Monatshefte fur Chemie/Chemical Monthly*, **2010**, 141(5), 589-597.
ISSN= 0026-9247
FI= [1,356/2010](#)
Autor Princ.: -
WOS= 000277603800016
- C.6. Avram S, Duda-Seiman DM, **Borcan F**, Wolschann P. QSAR-CoMSIA Applied to Antipsychotic Drugs with Their Dopamine D2 and Serotonine 5HT2A Membrane Receptors. *Journal of the Serbian Chemical Society*, **2011**, 76(2), 263-281.
ISSN= 0352-5139
FI= [0,879/2011](#)
Autor Princ.: AC
WOS= 000288057300010
- C.7. Avram S, Duda-Seiman DM, **Borcan F**, Radu B, Duda-Seiman C, Mihăilescu D. Evaluation of Antimicrobial Activity of New Mastoparan Derivatives Using QSAR and Computational Mutagenesis. *International Journal of Peptide Research and Therapeutics*, **2011**, 17(1), 7-17.
ISSN= 1573-3149
FI= [0,986/2011](#)
Autor Princ.: -
WOS= 000288710700002
- C.8. Avram S, Buiu C, **Borcan F**, Milac AL. More effective antimicrobial mastoparan derivatives, generated by 3D-QSAR-Almond and computational mutagenesis. *Mol. BioSyst.*, **2012**, 8(2), 587-594.
ISSN= 1742-206X
FI= [3,350/2012](#)
Autor Princ.: -
WOS= 000298994900018
- C.9. Avram S, Mihăilescu D, **Borcan F**, Milac AL. Prediction of improved antimicrobial mastoparan derivatives by 3D-QSAR-CoMSIA/CoMFA and computational mutagenesis. *Monatshefte fur Chemie/Chemical Monthly*, **2012**, 143(4), 535-543.
ISSN= 0026-9247
FI= [1,629/2012](#)
Autor Princ.: -
WOS= 000301585000003
- C.10. Avram S, Buiu C, Duda-Seiman D, Duda-Seiman C, **Borcan F**, Mihăilescu D. Evaluation of the Pharmacological Descriptors Related to the Induction of Antidepressant Activity and its Prediction by QSAR/QRAR Methods. *Mini-Rev Med Chem*, **2012**, 12(6), 467-476.
ISSN= 1389-5575
FI= [2,865/2012](#)
Autor Princ.: -
WOS= 000305730800004
- C.11. Cînta-Pînzaru S, Dehelean CA, Soica C, Culea M, **Borcan F**. Evaluation and differentiation of the Betulaceae birch bark species and their bioactive triterpene content using analytical FT-vibrational spectroscopy and GC-MS. *Chemistry Central Journal*, **2012**, 6(1), 67.
ISSN= 1752-153X
FI= [1,312/2012](#)
Autor Princ.: UA
WOS= 000307108300001
- C.12. **Borcan F**, Șoica CM, Ganta S, Amiji MM, Dehelean CA, Munteanu MF. Synthesis and preliminary in vivo evaluations of polyurethane microstructures for transdermal drug delivery. *Chemistry Central Journal*, **2012**, 6, 87.
ISSN= 1752-153X
FI= [1,312/2012](#)
Autor Princ.: PA
WOS= 000310298900001
- C.13. **Borcan F**, Bolcu C, Filimon N, Bandur G. The synthesis and characterization of the polyurethanes with antimicrobial properties. *e-Polymers*, **2012**, 080, 01-08.
ISSN= 1618-7229
FI= [0,400/2012](#)
Autor Princ.: PA
WOS= 000308666900002
- C.14. **Borcan F**, Șoica CM, Dehelean CA, Ganta S, Amiji MM. Size and Stability Optimization for Polyurethane Nanostructures used as Transdermal Drug Vehicle. *Rev. Chim. Bucharest*, **2012**, 63(11), 1164-1166.
ISSN= 0034-7752
FI= [0,538/2012](#)
Autor Princ.: PA
WOS= 000312606800016
- C.15. Danciu C, **Borcan F**, Bojin F, Zupko I, Dehelean C. Effect of the Isoflavone Genistein on Tumor Size, Metastasis Potential and Melanization in a B16 Mouse Model of Murine Melanoma. *Natural Product Communications*, **2013**, 8(3), 343-346.
ISSN= 1934-578X
FI= [0,924/2013](#)
Autor Princ.: -
WOS= 000316778500018

- C.16. Heghes A, Șoica CM, Ardelean S, Ambrus R, Muntean D, Gălușcan A, Dragoș D, Ionescu D, **Borcan F**. Influence of emulsifiers on the characteristics of polyurethane structures used as drug carrier. *Chemistry Central Journal*, **2013**, 7(1), 66. ISSN= 1752-153X
 FI= [1,663/2013](#)
 Autor Princ.: UA
 WOS= 000318717900001
- C.17. Gălușcan A, Jumanca D, **Borcan F**, Șoica CM, Ionescu D, Rusu LC, Crăiniceanu Z. Comparative Study on Polyurethane and Cyclodextrin Carrier for Triclosan. *Rev. Chim. Bucharest*, **2014**, 65(2), 190-193. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: AC
 WOS= 000333577400013
- C.18. Danciu C, Șoica C, Oltean M, Avram S, **Borcan F**, Csanyi E, Ambrus R, Zupko I, Muntean D, Dehelean CA, Craina M, Popovici RA. Genistein in 1:1 Inclusion Complexes with Ramified Cyclodextrins: Theoretical, Physicochemical and Biological Evaluation. *International Journal of Molecular Sciences*, **2014**, 15(2), 1962-1982. ISSN= 1422-0067
 FI= [2,862/2014](#)
 Autor Princ.: -
 WOS= 000335776400017
- C.19. Șoica C, Oprean C, **Borcan F**, Danciu C, Trandafirescu C, Coricovac D, Crăiniceanu Z, Dehelean CA, Munteanu M. The Synergistic Biologic Activity of Oleanolic and Ursolic Acids in Complex with Hydroxypropyl- γ -Cyclodextrin. *Molecules*, **2014**, 19(4), 4924-4940. ISSN= 1420-3049
 FI= [2,416/2014](#)
 Autor Princ.: -
 WOS= 000336087800070
- C.20. Șoica C, Danciu C, Săvoiu-Balint G, **Borcan F**, Ambrus R, Zupko I, Bojin F, Coricovac D, Ciurlea S, Avram S, Dehelean CA, Olariu T, Matusz P. Betulinic Acid in Complex with a Gamma-Cyclodextrin Derivative Decreases Proliferation and in Vivo Tumor Development of Non-Metastatic and Metastatic B164A5 Cells. *Int. J. Mol. Sci.*, **2014**, 15, 8235-8255. ISSN= 1422-0067
 FI= [2,862/2014](#)
 Autor Princ.: -
 WOS= 000336841800069
- C.21. Vlaia V, Pînzaru I, Coricovac D, Andoni M, **Borcan F**, Antal D. Uptake of Thallium by Medicinal Plants: First Data for a Romanian Flora and Significance to Human Health. *Rev. Chim. Bucharest*, **2014**, 65(10), 1158-1162. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: AC
 WOS= 000344719500008
- C.22. Trandafirescu C, Antal D, Șoica C, Zupko I, Minorics R, Ambrus R, **Borcan F**, Oprean C, Danciu C, Avram S, Dehelean C, Niță S, Vlaia L. Cyclodextrin complexes of Oleanolic and Ursolic Acid. Physico-chemical and biological preliminary evaluation. *Rev. Chim. Bucharest*, **2014**, 65(10), 1163-1167. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: -
 WOS= 000344719500009
- C.23. Danciu C, Coricovac DE, Șoica C, Dumitrașcu V, Simu G, Antal D, Lajos K, Dehelean CA, **Borcan F**. Evaluation of skin physiological parameters in SKH1 mice experimental model after exposure to aggressive factors like UVB using non-invasive methods. *Rev. Chim. Bucharest*, **2014**, 65(10), 1195-1199. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: UA
 WOS= 000344719500016
- C.24. Trandafirescu C, Avram S, Șoica C, Aigner Z, Arpad G, Kata M, Dehelean C, Szabaday Z, **Borcan F**. Solid-state Characterization of Bifonazole – beta-cyclodextrin Binary Systems. II. *Rev. Chim. Bucharest*, **2014**, 65(11), 1336-1339. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: UA
 WOS= 000345946300017
- C.25. Jumanca D, Galuscan A, Podariu AC, **Borcan F**, Earar K. Anti-inflammatory Action of Toothpastes Containing Betulin Nanocapsules. *Rev. Chim. Bucharest*, **2014**, 65(12), 1473-1476. ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: -
 WOS= 000345946400015
- C.26. Buiu C, Avram S, Duda-Seiman D, Milac AL, Duda-Seiman C, Păcureanu L, **Borcan F**. More Effective DPP4 Inhibitors as Antidiabetics Based on Sitagliptin Applied QSAR and Clinical Methods. *Current Computer-Aided Drug Design*, **2015**, 11(4), 237-249. ISSN= 1573-4099
 FI= [1,155/2015](#)
 Autor Princ.: UA
 WOS= 000350338600007
- C.27. Cîtu IM, **Borcan F**, Zambori C, Tița B, Păunescu V, Ardelean S. Influence of crosslinking agent - chain extender ratio on the properties of hyperbranched polyurethane structures used as dendritic drug carrier. *Rev. Chim. Bucharest*, **2015**, 66(1), 119-123. ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: PA
 WOS= 000350270800025
- C.28. Minda D, Pavel IZ, **Borcan F**, Coricovac D, Pînzaru I, Andrica F, Morgovan C, Niță LD, Șoica C, Muntean D, Toma CC. Beneficial Effects of a Lupeol-Cyclodextrin Complex in a Murine Model of Photochemical Skin Carcinoma. *Rev. Chim. Bucharest*, **2015**, 66(3), 373-377. ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: -
 WOS= 000352756300018
- C.29. Cîtu IM, Toma C, Trandafirescu C, Antal D, Zambori C, Oprean C, Bojin F, **Borcan F**, Păunescu V, Lăzureanu V. Preparation and Characterization of a Polyurethane Nanocarrier Used for Mixtures of Betulin and Fatty Acids. *Rev. Chim. Bucharest*, **2015**, 66(3), 431-437. ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: AC
 WOS= 000352756300031
- C.30. Danciu C, **Borcan F**, Șoica C, Zupko I, Csanyi E, Ambrus R, Muntean D, Sass C, Antal D, Toma C, Dehelean C. Polyurethane Microstructures-a Good or Bad in vitro Partner for the Isoflavone Genistein? *Nat. Prod. Comm.*, **2015**, 10(6), 951-954. ISSN= 1934-578X
 FI= [0,884/2015](#)
 Autor Princ.: -
 WOS= 000356565700038
- C.31. Cîtu C, Danciu C, Pînzaru I, Ghiulai R, Vlaia L, Vlaia V, **Borcan F**, Dumitru C, Pavel IZ, Sas I, Bernad E. Genistein and its fatty acid esters as new in vitro antitumor compounds. *Rev. Chim. Bucharest*, **2015**, 66(8), 1100-1104. ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: AC
 WOS= 000361124600004

- C.32. Avram S, Mernea M, **Borcan F**, Mihailescu D. Evaluation of the Therapeutic Properties of Mastoparan- and Sifuvirtide- Derivative Antimicrobial Peptides Using Chemical Structure-Function Relationship - in vivo and in silico Approaches. *Curr Drug Deliv.*, **2016**, 13(2), 202-210. ISSN= 1567-2018
FI= [2,516/2016](#)
Autor Princ.: -
WOS= 000375396200004
ISSN= 0025-5289
FI= [0,903/2015](#)
Autor Princ.: UA
WOS= 000368971900028
ISSN= 1389-5575
FI= [2,841/2015](#)
Autor Princ.: -
WOS= 000365468700010
ISSN= 1875-628X
FI= [1,170/2016](#)
Autor Princ.: AC
WOS= 000373935600001
ISSN= 1422-0067
FI= [3,226/2016](#)
Autor Princ.: AC
WOS= 000374583800084
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: -
WOS= 000369524300018
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: -
WOS= 000372170700019
ISSN= 0025-5289
FI= [0,778/2016](#)
Autor Princ.: AC
WOS= 000373966500028
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: AC
WOS= 000375364800016
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: -
WOS= 000375364800033
ISSN= 1388-0209
FI= [1,916/2016](#)
Autor Princ.: -
WOS= 000386041900043
ISSN= 0278-6915
FI= [3,778/2016](#)
Autor Princ.: -
WOS= 000381835900017
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: -
WOS= 000385510300015
ISSN= 0034-7752
FI= [1,232/2016](#)
Autor Princ.: -
WOS= 000385513000037
ISSN= 0025-5289
FI= [0,778/2016](#)
Autor Princ.: UA
WOS= 000380629300006
ISSN= 0258-851X
FI= [0,953/2016](#)
Autor Princ.: -
WOS= 000384933000014
- C.33. Cîtu C, Ceuta L, Popovici R, Ionescu D, Pinzaru I, **Borcan F**. Alternative Possibilities to Assess a Phytohormone Release Rate from a Polyurethane Carrier. *Mater. Plast.*, **2015**, 52(4), 553-559.
- C.34. Avram S, **Borcan F**, Borcan L-C, Milac AL, Mihailescu D. QSAR Approaches Applied to Antidepressants Induced Neurogenesis - in vivo and in silico Applications. *Mini-Reviews in Medicinal Chemistry*, **2015**, 16(3), 230-240.
- C.35. Mernea M, Borcan L-C, **Borcan F**, Avram S. Antipsychotics as Psychosis Drugs and Neuroprotective Promoters Evaluated by Chemical QSAR - in silico and in vivo Studies. *Letters in Drug Design&Discovery*, **2016**, 13(4), 269-275.
- C.36. Stoian D, Pantea S, Margan M, Timar B, **Borcan F**, Craina M, Craciunescu M. Individualized Follow-up of Pregnant Women with Asymptomatic Autoimmune Thyroid Disease. *Int. J. Mol. Sci.*, **2016**, 17(1), 1-13.
- C.37. Berceanu MF, Pinzaru I, Bratu T, Crainiceanu Z, Ceuta L, **Borcan F**, Coricovac D, Cîtu C. Evolution of Murine Melanoma in C57BL/6J Female Mice. A non-invasive evaluation. *Rev. Chim. Bucharest*, **2016**, 67(1), 81-83.
- C.38. Simu GM, Coricovac D, Cseh L, Soica C, **Borcan F**, Ionescu D, Andoni M, Dragos D, Dehelean C. Assessment of Skin Injuries Induced by Organic and Inorganic Phases of the Cosorb Process by Means of Non-invasives Techniques. *Rev. Chim. Bucharest*, **2016**, 67(2), 291-296.
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- D.25. Stoian D, **Borcan F**, Derban M, Craina M, Dehelean CA, Craciunescu M. Combined Thyroid Imaging Report and Data System Ti-Rads and Ultrasound Guided Fine Needle Aspiration Biopsy in Solid Thyroid Nodules. *JSM Thyroid Disorders and Management*, **2016**, 1(1), 1002. ISSN= -
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- D.29. Preda M, Sisu E, Vlaia V, Olariu T, Moaca A, Borcan L-C, **Borcan F**. In vitro experimental evaluations of birch bark extracts with selectivity in the obtaining of betulinol. *Journal of Agroalimentary Processes and Technologies*, **2018**, 24(4), 289-294. ISSN= 1453-1399
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Autor Princ.: AC

D.31. Borcan L-C, **Borcan F**, Pauncu E-A, Tomescu MC. Correlations between weather parameters, atmospheric hydrogen sulphide level and vitamin B12 administration to H2S exposed workers. *Romanian Journal of Occupational Medicine*, **2019**, 70(1), 6-11. ISSN= 2601-0828
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D.32. **Borcan F**, Mioc M, Ghiulai R, Pinzaru I, Dehelean CA, Soica CM. A Study on the Behavior of a Polyurethane Drug Carrier in Various pH Media. *Journal of Medicine and Life*, **2020**, 13(2), 198-202. ISSN= 1844-122x
 Autor Princ.: PA

Autor Princ. (Main author): PA (first author), AC (corresponding author), UA (last author)

E. Trademark and patents

E.1. Jumanca D, Galuscan A, Florita S, Podariu A, Florita Z, Dehelean C, **Borcan F**. *Compoziție pentru pastă de dinți*. Brevet de invenție, nr. 127805, eliberat de OSIM în 28.II.2014.

E.2. Jumanca D, Gălușcan A, **Borcan F**, Florița S, Dehelean C, Florița Z. *Procedeu și dispozitiv pentru producerea nanogelurilor și microgelurilor pe bază de silicați alcalino-pământoși*. Brevet de invenție, nr. 128480, eliberat de OSIM în 26.II.2016.

E.3. UMF Timișoara (**Borcan F**, Soica CM, Florița S, Gălușcan A, Jumanca D). *Vehicul polieter-uretanice pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie*. Brevet de invenție, nr. 128801, eliberat de OSIM în 29.XI.2017.

E.4. **Borcan F**, Borcan L-C, Tomescu MC, Florea S-D, Morariu V-I. *BoToFLm*. Certificat de înregistrare a mărcii nr. 161222 (OSIM 04.01.2019).

E.5. **Borcan F**, Borcan L-C, Dehelean CA, Soica C-M. *pharm na-mi S*. Certificat de înregistrare a mărcii nr. 167149 (OSIM 04.06.2020).

E.6. UMF Timișoara (Borcan L-C, Popescu FG, **Borcan F**, Păuncu E-A, Tomescu MC, Dehelean CA). *Produs absorbant pentru hidrogen sulfurat și procedeu de obținere a acestuia*. Brevet de invenție nr. 133956, eliberat de OSIM în 30.III.2021.

E.7. UMF Timișoara (**Borcan F**, Dehelean CA, Soica CM). *Compoziție poliuretanică cu solubilitate crescută, utilizabilă ca transportor transcutanat pentru aciclovir*. Cerere de brevet de invenție nr. A / 00665 înregistrată la OSIM în 23.X.2020.

F. Research projects / grants

F1. Manager

F1.1. „Nanotehnologii de poliuretani acoperiți cu strat antimicrobian”, value 32.000 lei, 2007-2008, financing authority: CNCSIS, grant TD137 / 2007.

F1.2. „Nanocapsule polieter-uretanice utilizate ca vehicule de transport transdermic pentru substanțe biologice active”, value 300.000 lei, 2010-2012, financing authority: CNCSIS, grant RU-PD586 / 2010.

F1.3. „Implementarea unor noi direcții de biosinteză cu dublă funcționalizare pentru triterpene pentaciclice cu potențial antitumoral”, value 5.000 euro, 2013, financing authority: UMF Timișoara, grant competiție internă 15250 / 19.XII.2012.

F1.4. „Study on Molecular Docking, Synthesis and Characterization of a Polyurethane Biomaterial used as a DNA Carrier”, value 100.000 euro, 2020-2023, financing authority: UMF Timișoara, grant competiție internă – Cercetători experimentați 5EXP/1244/ 30.01.2020.

F2. Team member

F2.1. „Unificarea cuantică a legăturii chimice prin funcționala densitate a electronegativității și funcția de localizare electronică cu aplicații la reactivitatea nano-sistemelor naturale complexe”, value 8.930 lei, 2006-2007, financing authority: CNCSIS, grant AT54 / 2006 (manager Putz VM).

F2.2. „Evaluarea unor formulări farmaceutice moderne obținute prin complexarea unor triterpene pentaciclice cu derivați polizaharidici funcționalizați”, value 24.350 lei, 2013-2014, financing authority: UEFISCDI, grant PN II – Capacități, CT-163/22.04.2013, Modul III - proiecte bilaterale România-Ungaria (contract 674/22.IV.2013) (manager Soica CM).

F2.3. „Recuperarea avansată a produselor utile din deșeurile de catalizatori uzate”, value 1.250.000 lei, financing authority: UEFISCDI, parteneri: ProAirCleanEcologic SA, INCD Ecolnd, coordonator Institutul de Chimie Timișoara, grant PN-II-PT-PCCA-2013-4-0612 (manager Costișor O).

F2.4. „Obtaining pentacyclic triterpene micro-crystals and pharmaceutical toxicology study of their changes in experimental models”, financing authority: UEFISCDI, grant RO-FR 2014, 791/30.VI.2014 (manager Nicolov M).

F2.5. „Formulări de avangardă pe bază de eugenol nanocapsulat cu adresabilitate în medicina dentară”, value 440.001 lei, financing authority: UEFISCDI, PN-III-P2-2.1-BG-2016-0455 (contract 122/2016) (manager Rusu L).

F3. Without competition

F3.1. „Studiu privind realizarea de îmbunătățiri ale procesului de obținere a brânțurilor încălzite din dotarea trupelor NATO”, value 3.000 lei, 2005-2006, financing authority: SC Uretan SA Chevereșu Mare, team member (manager Bolcu C).

3. Recognition and impact of the activity

G. Citations

WOS - Core Collection Citation Report		Scopus Report	
Total publications:	118	Documents:	90
Sum of Times Cited:	909	Citations:	703 by 493 docs
Citing Articles:	632		
h-index:	17	h-index:	14
Google Scholar Report		Research Gate Report	
Citations (All):	848	Reads:	13266
h-index (All):	16	Citations:	643
i10-index (All):	26	RG Score:	32.4

H. Research awards

- H.1. Article „More effective antimicrobial mastoparan derivatives, generated by 3D-QSAR-Almond and computational mutagenesis" was awarded based on PN-II-RU-PRECISI-2011-3-1371 by CNCS-UEFISCDI.
- H.2. Article „Evaluation of the pharmacological descriptors related to the induction of antidepressant activity and its prediction by QSAR/QRAR methods" was awarded based on PN-II-RU-PRECISI-2012-6-0651 by CNCS-UEFISCDI.
- H.3. Article „Evaluation and differentiation of the Betulaceae birch bark species and their bioactive triterpene content using analytical FT-vibrational spectroscopy and GC-MS" was awarded based on PN-II-RU-PRECISI-2012-6-1406 by CNCS-UEFISCDI.
- H.4. Article „Effect of the Isoflavone Genistein on Tumor Size, Metastasis Potential and Melanization in a B16 Mouse Model of Murine Melanoma" was awarded based on PN-II-RU-PRECISI-2013-7-2895 by CNCS-UEFISCDI.
- H.5. Article „Influence of emulsifiers on the characteristics of polyurethane structures used as drug carrier" was awarded based on PN-II-RU-PRECISI-2013-7-3232 by CNCS-UEFISCDI.
- H.6. Article „Synthesis and preliminary in vivo evaluations of polyurethane microstructures for transdermal drug delivery" was awarded based on PN-II-RU-PRECISI-2013-7-3237 by CNCS-UEFISCDI.
- H.7. Second Prize for special merits in scientific activity within the UMF "Victor Babeş" Timișoara, awarded during the UMF Days, 21-22 nov. 2013.
- H.8. 30% increase in the salary (merit salary in 2014) for ISI articles published as first author in 2012.
- H.9. Article „Genistein in 1:1 inclusion complexes with ramified cyclodextrins: theoretical, physicochemical and biological evaluation" was awarded based on PN-II-RU-PRECISI-2014-8-5767 by CNCS-UEFISCDI.
- H.10. Article „The Synergistic Biologic Activity of Oleanolic and Ursolic Acids in Complex with Hydroxypropyl-gamma-Cyclodextrin" was awarded based on PN-II-RU-PRECISI-2014-8-6440 by CNCS-UEFISCDI.
- H.11. Article „Betulinic Acid in Complex with a Gamma-Cyclodextrin Derivative Decreases Proliferation and in Vivo Tumor Development of Non-Metastatic and Metastatic B16A5 Cells" was awarded based on PN-II-RU-PRECISI-2014-8-6564 by CNCS-UEFISCDI.
- H.12. Article „More Effective DPP4 Inhibitors as Antidiabetics Based on Sitagliptin Applied QSAR and Clinical Methods" was awarded based on PN-II-RU-PRECISI-2015-9-9099 by CNCS-UEFISCDI.
- H.13. Article „QSAR Approaches Applied to Antidepressants Induced Neurogenesis - in vivo and in silico Applications" was awarded based on PN-III-P1-1.1-PRECISI-2016-11861 by CNCS-UEFISCDI.
- H.14. Article „Sex differences and pathology status correlated to the toxicity of some common carcinogens in experimental skin carcinoma" was awarded based on PN-III-P1-1.1-PRECISI-2016-12614 by CNCS-UEFISCDI.
- H.15. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie" has received Diplomă de excelență și Medalia de Aur cu mențiune specială din partea organizatorilor Salonului Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.
- H.16. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie" has received Diplomă de excelență și Medalia de Aur din partea USMF „Nicolae Testemițanu" din Republica Moldova la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.
- H.17. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie" has received Diplomă de excelență și Medalia de Aur din partea Asociația Justin Capră la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.
- H.18. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie" has received Diplomă și Medalia de Aur din partea organizatorilor la Salonul Internațional de Inventii și Inovații „Traian Vuia", Timișoara, 13-15 jun 2018.
- H.19. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie" has received Diplomă din partea Balkan Managers' Association din Republica Serbia la Salonul Internațional de Inventii și Inovații „Traian Vuia", Timișoara, 13-15 jun 2018.
- H.20. Article „Mistletoe and Garlic Extracts as Polyurethane Carriers – A Possible Remedy for Choroidal Melanoma" was awarded based on PN-III-P1-1.1-PRECISI-2018-21558 by CNCS-UEFISCDI.

H.21. Brevetul „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” was awarded based on PN-III-P1-1.1-PRECBVT-2018-0948 by CNCS-UEFISCDI.

H.22. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă de excelență și Medalia de Aur din partea organizatorilor Salonului Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.23. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă de excelență și Medalia Pro Invent din partea organizatorilor Salonului Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.24. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă de excelență din partea USMF „Nicolae Testemițanu” din Republica Moldova la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.25. Article „Synthesis and characterization of a polyurethane carrier used for a prolonged transmembrane transfer of a chili pepper extract” was awarded based on PN-III-P1-1.1-PRECISI-2019-30438 by CNCS-UEFISCDI.

H.26. Article „Synthesis and preliminary characterization of polyurethane nanoparticles with ginger extract as a possible cardiovascular protector” was awarded based on PN-III-P1-1.1-PRECISI-2019-33423 by CNCS-UEFISCDI.

H.27. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diploma of Achievement and Medal INVENTICA 2020 din partea organizatorilor XXIVth Int Exhibition of Inventics Iasi, 29-31 jul 2020.

H.28. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diploma of Achievement and Medal INVENTICA 2020 din partea organizatorilor XXIVth Int Exhibition of Inventics Iasi, 29-31 jul 2020.

H.29. Article „Potential Therapeutic Approaches to Alzheimer's Disease By Bioinformatics, Cheminformatics And Predicted Adme-Tox Tools” was awarded based on PN-III-P1-1.1-PRECISI-2020-46936 by CNCS-UEFISCDI.

H.30. Article „Obtaining and Characterization of a Polydisperse System Used as a Transmembrane Carrier for Isosorbide Derivatives” was awarded based on PN-III-P1-1.1-PRECISI-2020-47459 by CNCS-UEFISCDI.

H.31. Article „Albendazole-cyclodextrins binary systems Thermal and spectral investigation on drug-exciipient interaction” was awarded based on PN-III-P1-1.1-PRECISI-2020-49960 by CNCS-UEFISCDI.

H.32. Article „Shear wave elastography in diagnosing secondary hyperparathyroidism” was awarded based on PN-III-P1-1.1-PRECISI-2020-52914 by CNCS-UEFISCDI.

H.33. Article „Thyroid Pathology in End-Stage Renal Disease Patients on Hemodialysis” was awarded based on PN-III-P1-1.1-PRECISI-2020-52917 by CNCS-UEFISCDI.

H.34. Article „TI-RADS Diagnostic Performance: Which Algorithm is Superior and How Elastography and 4D Vascularity Improve the Malignancy Risk Assessment” was awarded based on PN-III-P1-1.1-PRECISI-2020-52920 by CNCS-UEFISCDI.

H.35. Patent „Polyether-urethane carrier for the transdermal transport of pharmaceutical compounds used in dentistry” has received Silver Diploma din partea organizatorilor International Exhibition Inventcor Deva, 17-19 dec 2020.

H.36. Patent „Hydrogen sulfide adsorbent product and the procedure for its obtaining” has received Gold Diploma din partea organizatorilor International Exhibition Inventcor Deva, 17-19 dec 2020.

H.37. Article „Melissa officinalis L. Aqueous Extract Exerts Antioxidant and Antiangiogenic Effects and Improves Physiological Skin Parameters” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-60186 către CNCS-UEFISCDI.

H.38. Article „Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-60237 către CNCS-UEFISCDI.

H.39. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” was awarded based on PN-III-P1-1.1-PRECBVT-2021-3160 by CNCS-UEFISCDI.

H.40. Article „Natural Preparations Based on Orange, Bergamot and Clove Essential Oils and Their Chemical Compounds as Antimicrobial Agents” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-62413 către CNCS-UEFISCDI.

H.41. Article „The Value of Strain Elastography in Predicting Autoimmune Thyroiditis” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-67143 către CNCS-UEFISCDI.

H.42. Article „Oleogel Formulations for the Topical Delivery of Betulin and Lupeol in Skin Injuries - Preparation, Physicochemical Characterization, and Pharmacological Evaluation” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-67401 către CNCS-UEFISCDI.

4. Other activities

I. Scientific meetings

11. Full papers

11.1. Vlase G, **Borcan F**, Bolcu C, Doca N, Vlase T. Thermal stability of different polyurethane compositions by means of non-isothermal kinetics. *European Conference on Calorimetry and Thermal Analysis for Environment, Zakopane (Polonia), 06-11.IX.2005*, p. 95-100.

11.2. Pitulice L, Chiriac A, Isac D, **Borcan F**. The investigation of Romania's air quality state and the Environmental Performance Index. *1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007*, p. 107-111, ISBN 978-954-91147-3-7.

11.3. Bolcu C, **Borcan F**, Davidescu D, Campean G. The study of a biostimulating composition with a possible foliage application to a large group of agrarian crops. *1st International Conference "Research People and Actual Tasks on*

Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007, p. 262-266, ISBN 978-954-91147-3-7.

11.4. Bolcu C, **Borcan F**, Nuțiu R. The microcellular polyurethane elastomers used to obtain high elasticity joint. *1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007*, p. 258-261, ISBN 978-954-91147-3-7.

11.5. Simu GM, Dragomirescu A, Dehelean CA, **Borcan F**. In vivo study of the efficiency of a cosmetic emulsion containing acetyl tetrapeptide-5. *5th Symposium „New trends and strategies in the chemistry of advanced materials”, Timișoara, 03-04.XI.2011*, p. 56-61, ISSN 2065-0760.

11.6. **Borcan F**, Șoica CM. Drug delivery system based on poly(ether urethane) used for topic application. *5th Symposium „New trends and strategies in the chemistry of advanced materials”, Timișoara, 03-04.XI.2011*, p. 70-75, ISSN 2065-0760.

12. Abstracts

12.1. **Borcan F**, Bolcu C. Descompunerea termică a compușilor staniului (II). *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 42, ISBN 973-8488-74-5.

12.2. Bolcu C, **Borcan F**. Sisteme polimerice utilizate pentru protecția anticorozivă a conductelor petroliere. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 62, ISBN 973-8488-74-5.

12.3. Bolcu C, **Borcan F**. Studii privind sinergismul stabilizatorilor utilizați în domeniul poliuretanelor. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 269, ISBN 973-8488-74-5.

12.4. **Borcan F**, Bolcu C. Aplicații ale stabilizării termo- și foto-oxidative reactive în domeniul poliuretanelor. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 293, ISBN 973-8488-74-5.

12.5. Bolcu C, **Borcan F**. Adeziv poliuretanic pentru lipirea cablurilor autoturismelor. *Zilele Academice Timișene, Timișoara, 26-27.V.2005*, p. 108.

12.6. Bolcu C, **Borcan F**. Poliuretan pentru curele de transmisie auto. *Zilele Academice Timișene, Timișoara, 26-27.V.2005*, p. 154.

12.7. Bolcu C, **Borcan F**. Efficient methods for photostabilization of the polyurethanes. *The 8th Polymers for Advanced Technologies International Symposium, Budapesta (Ungaria), 13-16.IX.2005*, p. 97.

12.8. Bolcu C, **Borcan F**, Nuțiu R. Considerations regarding the thermal stability of the urethane and alophanate groups from thermal-oxidative stabilized polyurethanes. *1st European Chemistry Congress, Budapesta (Ungaria), 27-31.VIII.2006*, p. 281, ISBN 963-9319-61-9.

12.9. Bolcu C, **Borcan F**, Nuțiu R. Bicomponent Polyurethane System Used for Manufacture of the Gasket Packing which Work at High Pressures in Mineral Oil. *12th International Conference of Physical Chemistry, București, 6.IX.2006*, p. 156.

12.10. Bolcu C, **Borcan F**, Nuțiu R. Correlation of the Rheological Properties of the Bicomponent Polyurethane Adhesives with the Physical and Mechanical Properties of the Elastic Junctions Made with Them. *12th International Conference of Physical Chemistry, București, 6.IX.2006*, p. 156.

12.11. Bolcu C, **Borcan F**, Nuțiu R, Dehelean T. Bicomponent polyurethane system used for manufacture of fittings which work at high pressures in mineral oil. *Zilele Academice Timișene, Ediția a X-a, Timișoara, 24-25.V.2007*, p. 17, ISBN 978-973-52-0130-2.

12.12. Bolcu C, **Borcan F**, Nuțiu R. Correlations between rheological properties - physical and mechanical properties for elastic junctions with bicomponent polyurethane adhesives. *European Polymer Congress, Portorož (Slovenia) 02-06.VII.2007*, p. 279, ISBN 978-961-90731-7-9.

12.13. Bolcu C, **Borcan F**, Nuțiu R. Comparative study of additive and reactive thermal-oxidative stabilization of the polyurethanes. *European Polymer Congress, Portorož (Slovenia) 02-06.VII.2007*, p. 279, ISBN 978-961-90731-7-9.

12.14. **Borcan F**, Bolcu C, Nuțiu R. Obținerea unor materiale poliuretanic utilizate ca suporturi de substanțe antiseptice. *Zilele Academice leșene, Iași, 26-29.IX.2007*, p. 24.

12.15. **Borcan F**, Filimon N, Bolcu C, Nuțiu R. Polyurethane foam with antimicrobial activity. *48th Microsymposium: Polymer Colloids From Design to Biomedical and Industrial Applications, Praga (Rep. Ceha), 20-24.VII.2008*, p. 181, ISBN 978-80-85009-57-6.

12.16. Bolcu C, **Borcan F**, Vlase T, Doca N, Jurcău D. Mixed thermal-oxidative stabilization – a modern method for the polyurethane stabilization. *Zilele Academice Timișene, Ediția a XI-a, Timișoara, 28-29.V.2009*, p. 43, ISBN 978-973-52-0630-7.

12.17. **Borcan F**, Bolcu C, Vlase T, Doca N. New proofs of the polyurethane foams degradation mechanism. *Zilele Academice Timișene, Ediția a XI-a, Timișoara, 28-29.V.2009*, p. 44, ISBN 978-973-52-0630-7.

12.18. **Borcan F**, Dehelean CA, Anghel A. New Poly(Ether Urethane) Nanocapsules As Drug Carriers For Topic Application. *Advances in Polymer Science and Technology, Linz (Austria), 28.IX-01.X.2011*, p. 22, ISBN 978-3-85499-907-2.

12.19. Șoica C, Trandafirescu C, **Borcan F**, Danciu C, Avram S, Ambrus R, Zupko I, Ledeti I, Fuliș A, Dehelean C. Inclusion complexes between pentacyclic triterpenes and amphiphilic cyclodextrins: synthesis and physico-chemical and pharmacological analysis. *3rd World Conference on Physico-Chemical Methods in Drug Discovery and Development, Dubrovnik (Croatia), 22-26.IX.2013*, p. 68.

12.20. Trandafirescu C, Gheorgheosu D, **Borcan F**, Oprean C, Ionescu D. Preliminary evaluation of the synergistic activity of lupeol and betulin. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 18, ISBN 978-606-8456-32-4.

12.21. Pînzaru I, Mioc M, Șoica C, **Borcan F**, Dehelean C, Gheorgheosu D. Oleanolic acid derivatives with ester structure and their activity against photochemical skin carcinoma. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 19, ISBN 978-606-8456-32-4.

12.22. Oprean C, Bojin F, Șoica C, Trandafirescu C, **Borcan F**, Mioc M, Dehelean C, Păunescu V. Antitumor activity of betulinic acid on A375 human melanoma cells. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 29, ISBN 978-606-8456-32-4.

- 12.23. Oprean C, Bojin F, Șoica C, Trandafirescu C, **Borcan F**, Mioc M, Dehelean C, Păunescu V. Ursolic and oleanolic acid's effects on Ki-67 cellular marker. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 30, ISBN 978-606-8456-32-4.
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- 12.29. **Borcan F**, Andrica F, Tita B. Study of lupeol release from a polyurethane carrier. *Natural Products as a Source of Compounds with Chemopreventive and Anti-Inflammatory Activity (International Workshop of the Romanian-French Bilateral Project PN II-CT-789/30.06.2014, Timisoara, 10.VII.2015*, p. 50, ISBN 978-606-8456-67-6.
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- 12.31. **Borcan F**, Borcan LC, Tita B, Ledeti A. Assessment of degradation products of polyurethane-based nanoparticles used as a drug delivery system. *The importance of using micro crystals in therapy, workshop Timisoara 2015*, p. 15-17, ISBN 978-606-8456-86-7.
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- 12.36. **Borcan F**, Borcan L-C, Cîrcioban D, Ledeti A. Effect of pH on the degradation of a polyurethane drug delivery system. *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity, workshop Timișoara 2016*, p. 15, ISBN 978-606-786-024-5.
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- 12.39. Trandafirescu C, Ledeti A, **Borcan F**, Soica C, Dehelean C, Ledeti I. Solid-state characterization of albendazole–complex binary systems with pharmaceutical excipients. *7th BBBB International Conference on Pharmaceutical Sciences, October 5-7, 2017, Balatonfüred, Hungary, Book of abstracts*, p. 150.
- 12.40. Cîrcioban D, Ledeti I, Vlase G, Ledeti A, Vlase T, **Borcan F**, Axente C, Borcan C, Dehelean C. Guest-host interactions and complex formation for artemisinin with cyclodextrins. *13th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2017), 24-27.IX.2017, Loano (SV), Italy, Book of abstracts*, p. 62.
- 12.41. Pînzaru IA, Rusu L, Dehelean CA, Coricovac D, **Borcan F**. Evaluation of eugenol polyurethane nanostructures toxicological statement. *Eurotox October 2017, Bratislava*. DOI: 10.1016/j.toxlet.2017.07.958
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- 12.45. Tanase IM, Ledeti AV, Dragomirescu AO, Suta LM, Cîrcioban D, Axente C, **Borcan F**, Ledeti IV. Preliminary characterization of some loaded polyurethanes used as adsorbents for bioactive compounds from plant extracts. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 44. ISBN 978-606-786-104-4.

12.46. Preda M, Pinzaru I, Coricovac D, **Borcan F**, Dehelean C. Green isolation of bioactive compounds from birch bark extracts and modern formulations. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 75. ISBN 978-606-786-104-4.

13. Other international meetings

- 13.1. **Borcan F**, Bolcu C, Davidescu D, Campean G. News regarding ways to obtain some of the latest foliage fertilizer. *Al VII-lea Simpozion International Romania-Serbia&Muntenegru-Ungaria, Reșița, 22-23.IX.2005.*
- 13.2. **Borcan F**, Bolcu C. Original polyurethane systems used to obtain the frontly injected shoe soles. *Al VII-lea Simpozion International Romania-Serbia&Muntenegru-Ungaria, Reșița, 22-23.IX.2005.*
- 13.3. **Borcan F**, Dehelean CA, Anghel A. Syntheses of polyurethane nanocapsules for transdermal drug delivery. *European Conference for Academic Disciplines Gottenheim (Germania), 28.XI-03.XII.2010.*
- 13.4. **Borcan F**, Șoica CM, Dehelean CA. Polyurethane nanoparticles used as drug carrier. *Advanced Macromolecular Systems Across the Length Scales, Siofok (Ungaria), 03-06.VI.2012.*
- 13.5. **Borcan F**, Șoica CM. Polyurethane nanostructures used as drug carrier for pentacyclic triterpenes in cancer therapy. *76th Prague Meeting on Macromolecules, Praga (Rep. Ceha), 01-05.VII.2012.*
- 13.6. **Borcan F**, Șoica CM, Trandafirescu C, Ionescu D, Dehelean CA. Synthesis and evaluation of a polyurethane transdermal carrier used for betulin and betulinic acid. *14th Tetrahedron Symposium, Viena (Austria), 25-28.VI.2013.*
- 13.7. Șoica C, Fuliș A, Ledetș I, Vlase G, Trandafirescu C, **Borcan F**, Simu G, Dehelean C. Synthesis and Thermal Behaviour of New Ambazone Complexes with some Transitional Metals. *2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, Vilnius (Lithuania), 27-30.VIII.2013.*

14. Other national meetings

- 14.1. **Borcan F**, Șoica CM, Dehelean CA. Prepararea și caracterizarea unui vehicul polimeric utilizat în transportul transdermic al acidului betulinic. *Actualități și perspective în cercetarea farmaceutică, Craiova, 26-28.IX.2012.*
- 14.2. Simu GM, Dragomirescu A, Dehelean CA, **Borcan F**. Studiu mexametric privind eficacitatea anti-cearcăn a unei emulsii cosmetice conținând Eyeseryl. *Actualități și perspective în cercetarea farmaceutică, Craiova, 26-28.IX.2012.*
- 14.3. Trandafirescu CM, Gyéresi A, Șoica C, Szabadai Z, Aigner Z, Oprean C, **Borcan F**, Kata M. Solid-State Characterization of Bifonazole - β -Cyclodextrin Binary Systems. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*
- 14.4. Șoica C, **Borcan F**, Trandafirescu CM, Oprean C, Danciu C, Coricovac DE, Dehelean CA. Synergic Behavior of Oleanolic and Ursolic Acid in Complex with Hydroxypropyl- β -Cyclodextrin. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*
- 14.5. Oprean C, Mioc M, Șuta LM, **Borcan F**, Șoica C, Dehelean CA. Comparative Preliminary Evaluation of Some Lupan-Derived Triterpenic Acids. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*
- 14.6. Redeș (Crăciun) L, **Borcan F**, Ardelean S. Preparation and Characterization of Polycarbamate Nanostructures Used for Transmembrane Transport of Lupeol. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*
- 14.7. Oprean C, **Borcan F**, Șoica C, Danciu C, Muntean D, Trandafirescu CM, Mioc M, Șuta LM, Dehelean CA. New Formulations with Oleanolic and Ursolic Acids Applied in Antitumor and Antimicrobial Medication. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*
- 14.8. **Borcan F**. Implementarea unor noi direcții de biosinteză cu dublă funcționalizare pentru triterpene pentaciclice cu potențial antitumoral. *Zilele Academice Timișene, Timișoara, 28.V.2015.*

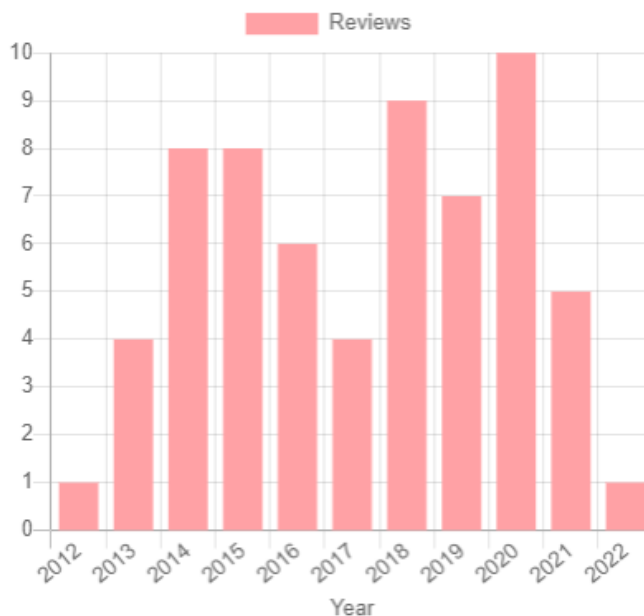
15. Training programs

- 15.1. Instrument de analiza termica - calorimetrul cu scanare cu baleiaj (DSC 1 - Mettler-Toledo, Elvetia)
- 15.2. Dispozitive de determinare a marimii si stabilitatii particulelor coloidale - modul Vasco si Wallis (Zetasizer - Cordouan Technol., Franta)
- 15.3. Cromatografie de lichide la inalta presiune - HPLC / MS (Agilent 6100, USA)
- 15.4. Instrumente neinvazive de testare a pielii - sonde de masurare a TWL, eritemului, melaninei, hidratarii, stralucirii, culorii, pH-ului, elasticitatii (Courage-Khazaka, Germania)
- 15.5. „Moștenirea lui Eugene Garfield - aflați despre istoria unică a Web of Science”, Webex Online Clarivate Analytics, 09.II.2018, enformation.
- 15.6. „Cum se pot identifica sursele de finanțare”, Webex Online Clarivate Analytics, 19.II.2018, enformation.
- 15.7. „Aflați cum să creați și să consolidați un profil autor (ORCID / RID) pentru a fi în conformitate cu cerințele pentru autori al editorilor și al finanțatorilor”, Webex Online Clarivate Analytics, 23.II.2018, enformation.
- 15.8. „Aflați cum să gestionați referințe cu EndNote Online”, Webex Online Clarivate Analytics, 07.III.2018, enformation.
- 15.9. „Open Session”, Webex Online Clarivate Analytics, 03.V.2018, enformation.
- 15.10. Workshop – The best way to design and formulate MCQ. UMFT, Timișoara, 28-29.VI.2018
- 15.11. „Identificarea, utilizarea si analiza continutului Open Access in Web of Science”, Webex Online Clarivate Analytics, 18.12.2018, enformation.
- 15.12. „Unde ar trebui sa public?”, Webex Online Clarivate Analytics, 12.02.2019, enformation.
- 15.13. Webex Clarivate Analytics: Unde să publici: utilizarea Journal Impact Factor, 23 aprilie 2019.

- 15.14. Webex Clarivate Analytics: Author Records sunt acum disponibili în Web of Science, 31 octombrie 2019.
- 15.15. Webex Clarivate Analytics: Informații despre Open Access de la Web of Science, 12 noiembrie 2019.
- 15.16. Webex Web of Science: Identifică cercetarea de top cu Essential Science Indicators (ESI), 27 martie 2020.
- 15.17. Webex Web of Science: Noutăți Journal Citation Reports și InCites Benchmarking & Analytics, 16 aprilie 2020.
- 15.18. Webex Web of Science: Aprofundează cunoștințele în domeniul tău de cercetare cu Web of Science, 24 aprilie 2020.
- 15.19. Webex Web of Science: Opțiunile de căutare a lucrărilor unui autor în Web of Science, 14 mai 2020.
- 15.20. Webex Web of Science: Găsește revista potrivită în care să publici, 22 iunie 2020.

J. Scientific reviewer (Publons report)

VERIFIED REVIEWS	VERIFIED REVIEWS (LAST 12 MONTHS)	REVIEW TO PUBLICATION RATIO
<p>63 Median: 3 97th percentile</p>	<p>6 Median: 1 88th percentile</p>	<p>0.5:1 Median: 0.3:1</p>



March 1st, 2022

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