

PERSONAL INFORMATION



IONUȚ-VALENTIN LEDEȚI

📍 Eftimie Murgu Square no.2, Timișoara, 300041, România

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✉ ionut.ledeti@umft.ro;

💬 Skype ionutledeti

Sex M | Date of birth January 3rd 1984 | Nationality Romanian

POSITION

Full professor of Physical Chemistry, Habil., Faculty of Pharmacy, „Victor Babeș” University of Medicine and Pharmacy, head of discipline

WORK EXPERIENCE

September 2020-present

Full Professor of Physical Chemistry, PhD

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Department I, Discipline of Physical Chemistry, Eftimie Murgu Sq. no. 2, 300041 Timișoara, Timiș, România, Tel. +40256204476, www.umft.ro

- Main courses taught (students of Faculty of Pharmacy): Physical Chemistry I and II; Physico-chemical bases of drug preformulation; Drug design; Polymorphism of drugs
- Leading practical stages for Pharmacy Students of Physical Chemistry

Business or sector Higher education and research

April 2018-present

PhD Adviser, Dr. Habil. in Chemistry

“Politehnica” University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq. no. 2, 30006, Timișoara, Timiș, România, Tel: +40256403069; Fax: +40256403060; www.upt.ro

- Research field: Complex physico-chemical screening techniques for compounds of pharmaceutical interest and with potential biological activity

Business or sector Higher education and research

September 2015-August 2020

Associate Professor of Physical Chemistry, PhD

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Department I, Discipline of Physical Chemistry, Eftimie Murgu Sq. no. 2, 300041 Timișoara, Timiș, România, Tel. +40256204476, www.umft.ro

- Main courses taught: Physical Chemistry I and II; Physico-chemical bases of drug preformulation; Drug design; Polymorphism of drugs
- Leading practical stages for Pharmacy Students: Physical Chemistry I and II; Principles of Physical Chemistry I and II.

Business or sector Higher education and research

March 2013-September 2015

Lecturer, PhD

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Department I, Discipline of Physical Chemistry, Eftimie Murgu Sq. no. 2, 300041 Timișoara, Timiș, România, Tel. +40256204476, www.umft.ro

- Courses taught: Physical Chemistry II; Principles of Physical Chemistry I
- Leading practical stages for Pharmacy Students: Physical Chemistry I and II; Principles of Physical Chemistry I and II.

Business or sector Higher education and research

September 2011-March 2013

Teaching Assistant, PhD

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Department I, Discipline of Physical Chemistry, Eftimie Murgu Sq. no. 2, 300041 Timișoara, Timiș, România, Tel. +40256204476, www.umft.ro

- Coordination of seminars on “Methodology of pharmaceutical scientific research” course
- Coordination of practical activities on “Physical Chemistry” course

Business or sector Higher education and research

February 2009-September 2011

Junior Teaching Assistant

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Department I, Discipline of Physical Chemistry, Eftimie Murgu Sq. no. 2, 300041 Timișoara, Timiș, România, Tel. +40256204476, www.umft.ro

- Coordination of practical activities on “Physical Chemistry” course

Business or sector Higher education and research

EDUCATION AND TRAINING

June 2017-April 2018

Habilitation Thesis

EQF Level 8

“Politehnica” University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq. no. 2, 30006, Timișoara, Timiș, România, Tel: +40256403069; Fax: +40256403060; www.upt.ro

- Habilitation thesis in CHEMISTRY (submitted on June 22, 2017, defended on December 8, 2018), entitled “Techniques for complex physico-chemical screening of compounds of pharmaceutical interest and potential biological activity”. The habilitation certificate obtained through OMEN no. 3367/22.03.2018, respectively becoming doctoral supervisor in the field of Chemistry in IOSUD UPT, according to the decision 542/112/ C of 23.04.2018

May 2014-September 2015

Postdoctoral Studies

EQF Level 8

West University of Timișoara, Faculty of Physics, Vasile Pârvan no.4, 300223 Timișoara – România, Tel. +40 (0) 256 592108; www.uvt.ro

- Research project: Studies of thermally-induced interactions in the class of bioactive compounds using hyphenated and complementary techniques. Funder: POSDRU/159/1.5/S/137750

October 2010-September 2011

Master Degree

EQF Level 7

„Victor Babeș” University of Medicine and Pharmacy, Faculty of Pharmacy, Eftimie Murgu Sq. no. 2 300041 Timișoara – România, Tel. +40 (0) 256 204476; www.umft.ro

- Subjects covered: Formulation and evaluation of dermato-cosmetic products, coordinator: Professor Anca-Octavia Dragomirescu, PhD.
- Dissertation theme: QSAR modelling of skin permeability to different chemical compounds. Advisor: Professor Ludovic Kurunczi, PhD.

October 2007-November 2010

Doctoral Studies in Chemistry

EQF Level 8

“Politehnica” University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering Victoriei Sq. no. 2, 300006 Timișoara – România, Tel. +40 (0) 256 403063; www.upt.ro

- Subjects covered: Organic Synthesis; Spectroscopy (IR technique, NMR, GC-MS); Biological Activities;
- Thesis theme: Studies regarding the synthesis of functionalized mercapto-triazoles and their use as ligands and potentially bioactive compounds. Advisor: Professor Carol Csunderlik, PhD

October 2002-July 2007

Chemical Engineer

EQF Level 6

“Politehnica” University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering Victoriei Sq. no. 2, 300006 Timișoara – România, Tel. +40 (0) 256 403063; www.upt.ro

- Subjects covered: Chemistry and Chemical Engineering;
- Certificate of graduation of psychological and pedagogical courses: Educational psychology, Pedagogy, Sociology, Educational communication
- Diploma of long term higher education (5 years) in Chemical Engineering (final examination grade: 10.00; ECTS grade 9.86).

September 1998-June 2002

Baccalaureate Diploma

EQF Level 4

“Constantin Diaconovici Loga” National High School, Timișoara, Romania

- Upper secondary education, general education focused on mathematics and physics
- Baccalaureate Diploma, final examination grade: 9.71

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Proficient User					
French	C1	C1	C1	C1	C1
Proficient User					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills acquired both during the research period (documentation and synthesis for the elaboration of the doctoral thesis, master's dissertation and postdoctoral studies)
- Development of communication and presentation skills as a result of experience in university education.

Organisational / managerial skills

- Team spirit, acquired in professional practice and in research activities with colleagues
- In 2004 I obtained the diploma of merit for the activity carried out within the project of the County Foundation for Youth entitled "Campaign for the civic participation of young people"
- Between November 10-12, 2006, I participated in the training program regarding the Implementation of the school program of "Counseling and Orientation" at the School with cls. I-VIII no.18 Timișoara
- Between November 10-14, 2006, I attended professional training courses in order to use AeL software and to develop educational materials for AeL.
- Organizational spirit, acquired after carrying out laboratory and seminar activities with students

Job-related skills

- Physical chemistry and kinetics - expertise in advanced instrumental screening
 - Thermal analysis and hyphenated analysis techniques;
 - Spectroscopy (IR technique in tablet and ATR, NMR, 2D NMR, GC-MS, UV-VIS)
 - Kinetic studies in homogeneous and heterogeneous environments (solids)
 - Diffractometry (X-ray) and scanning electron microscopy (SEM)
 - QSAR modeling of skin permeability to various chemical agents
- Chemistry of natural compounds
 - Isolation and characterization of bioactive compounds from natural sources
 - Derivatization of natural compounds to semi-synthetic products: purification and characterization
- Chemical synthesis and physico-chemical properties of the analytes
 - Heterocyclic compounds and precursors (acids, esters, hydrazides, Schiff bases, etc.) - 1,2,4-triazoles and their functionalization
 - Derivatization of natural compounds to semi-synthetic products: purification and characterization
 - Synthesis of coordination compounds (metal complexes) by various techniques
 - Design of supramolecular adducts for bioactive compounds (adducts with natural and semi-synthetic cyclodextrins, adducts such as crystals and salts, etc.)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of Microsoft Office (Word, Excel, PowerPoint, Visio), ISIS Draw, ChemOffice, Origin, TableCurve, MatLab, AeL., AutoCAD, AKTS)
- good knowledge of Internet use, including web research

- Other skills**
- photography and digital image processing
 - painting
 - clay modelling

Driving licence B

ADDITIONAL INFORMATION

Publications and citations I have authored 121 ISI scientific papers in international journals (2010-April 2024), which have gained 1474 citations (Web of Science, Clarivate Analytics), most of which are related to the Physical Chemistry of Drugs (preformulation studies of active pharmaceutical ingredients). I am also the author / co-author of several textbooks and the author of a monograph.

h-index 20 (according to Web of Science);

Research projects I participated in 7 research projects obtained through national competition. The main area of expertise in these projects was the use of thermal analysis and molecular spectroscopy as investigative methods in the class of bioactive or potentially bioactive compounds.

Conferences I have participated in a series of national and international scientific conferences, both with oral presentations and with posters, with over 160 presented materials. Most of the materials presented are in the field of Physical Chemistry of the drugs.

- Prizes**
- Judit Simon ESTAC Award 2022, for recognition of those under 40 who achieved outstanding results in the field of thermal analysis and calorimetry, 19-22 September 2022, Palermo, Italy (The 13th European Symposium on Thermal Analysis and Calorimetry).
 - The "Professor Bologna" distinction awarded by the National Alliance of Student Organizations in Romania (ANOSR), 12th Edition, at the Professor Bologna Gala, between May 23-26, 2019, in Iași
 - 39 of the ISI works were awarded at national level by UEFISCDI (Executive Unit for the Financing of Higher Education, Research, Development and Innovation in Romania).

Member of scientific associations Member of the Romanian Chemical Society (SChR)
 Member of the International Association of Physical Chemists (IAPC)
 Member of the Thermal Analysis and Calorimetry Commission of the Romanian Academy (CATCAR)

References Available on request

ANNEXES

- Publication list

Timișoara,
 April 9, 2024

Professor Ionuț-Valentin Ledetși, PhD., Habil.



LIST OF PUBLICATIONS

A1. BOOKS

1. **Ionuț-Valentin Ledeti**, Georgeta Maria Simu, Sebastian-Claudiu Simu, *Chimie fizică aplicată pentru farmaciști – Termodinamică clasică, Proprietăți structurale ale moleculelor (I) – ediția a doua, revăzută și adăugită*, Editura Victor Babeș, Timișoara, 2023, ISBN 978-606-786-339-0; 172 pages;
2. **Ionuț-Valentin Ledeti**, Georgeta Maria Simu, Sebastian-Claudiu Simu, *Applied Physical Chemistry for Pharmacy Students – Classical thermodynamics, Structural properties of molecules (I)*, Editura Victor Babeș, Timișoara, 2023, ISBN 978-606-786-314-7, 172 pages;
3. Adriana-Violeta Ledeti, Denisa-Laura Cîrcioban, Amalia-Ioana Ridichie, Carmen Tomoroga, **Ionuț-Valentin Ledeti** – *Qualitative Analytical Chemistry – A Laboratory Textbook*, Editura Victor Babeș, Timișoara, 2023, ISBN 978-606-786-329-1, 230 pages;
4. **Ionuț-Valentin Ledeti**, *Bazele fizico-chimice ale preformulării medicamentului - Volumul I: Structura materiei. Stări de agregare*, Editura Mirton, Timișoara, 2018, ISBN 978-973-52-1771-6 general; ISBN 978-973-52-1772-3 volum I, 224 pages;
5. Adriana-Violeta Ledeti, Carmen Axente, Denisa-Laura Cîrcioban, **Ionuț-Valentin Ledeti**, Florin Borcan, *Chimie Analytique Quantitative – notes de cours*, Editura Mirton, Timișoara, 2018, ISBN 978-973-52-1770-9, 273 pages;
6. Adriana-Violeta Ledeti, **Ionuț-Valentin Ledeti**, Denisa-Laura Cîrcioban, *Bazele practice ale analizei chimice calitative – Aplicații în domeniul farmaceutic*, Editura Mirton, Timișoara, 2018, ISBN 978-973-52-1781-5, 211 pages;
7. Georgeta Maria Simu, Ludovic Kurunczi, **Ionuț-Valentin Ledeti**, *Chimie Physique Notes de Cours, Tome Second : Spectroscopie, Cinétique et Colloïdes*, Editura Victor Babeș, Timișoara, 2014, ISBN 978-606-8456-01-0, 226 pages.
8. **Ionuț-Valentin Ledeti**, Georgeta Maria Simu, *Chimie Physique Appliquée – Spectroscopie, Electrochimie, Cinétique chimique, Systèmes disperses*, Editura Mirton, Timișoara, 2012, ISBN 978-973-52-1207-0, 128 pages;
9. Georgeta Maria Simu, **Ionuț-Valentin Ledeti**, *Chimie fizică aplicată pentru farmaciști (II)*, Editura Mirton, Timișoara, 2011, ISBN 978-973-52-1006-9, 120 pages;
10. Georgeta Maria Simu, **Ionuț-Valentin Ledeti**, *Chimie Physique Appliquée – Thermodynamique classique, Propriétés structurelles des molécules*, Editura Mirton, Timișoara, 2011, ISBN 978-973-52-1103-5, 110 pages;
11. **Ionuț-Valentin Ledeti**, Georgeta Maria Simu, *Chimie fizică aplicată pentru farmaciști (I)*, Editura Mirton, Timișoara, 2010, ISBN 978-973-52-0908-7, 122 pages;
12. **Ledeti Ionuț-Valentin**, *Studiul sintezei mercapto-triazolilor funcționalizați, compuși cu potențială activitate biologică*, Editura Politehnica Timișoara, Seria Teze de doctorat 2(14), 2010, ISBN 978-606-554-217-4, 258 pages.

A2. HABILITATION THESIS

COMPLEX PHYSICO-CHEMICAL SCREENING TECHNIQUES OF COMPOUNDS OF PHARMACEUTICAL INTEREST AND WITH POTENTIAL BIOLOGICAL ACTIVITY, Domain: Exact Sciences - CHEMISTRY; defended on December 8, 2017. The certificate of habilitation obtained through OMEN no. 3367 / 22.03.2018, respectively becoming doctoral supervisor in the field of Chemistry in IOSUD UPT, according to the decision 542/112 / C of 23.04.2018

B1. ISI PAPERS

B1.1 IN EXTENSO ISI ORIGINAL ARTICLES AND REVIEWS (*corresponding authors; # authors with equal contribution)

No.	Authors	Title of article	Journal	IF	Year of IF	Author
1.	Amalia Ridichie, Adriana Ledeti, Laura Sbarcea*, Gerinde Rusu, Cornelia Muntean, Denisa Cîrcioban, Francisc Peter, Ionuț Ledeti	Preformulation studies of levonorgestrel	Journal of Thermal Analysis and Calorimetry, 2024, accepted for publication	4.4/2022	2022	Last author
2.	Denisa Cîrcioban, Adriana Ledeti*, Amalia Ridichie, Titus Vlase, Ionuț Ledeti , Ionela-Amalia Bradu, Alexandru Pahomi, Laura Sbârcea, Gabriela Vlase	Compatibility Study of Mirtazapine with Several Excipients Used in Pharmaceutical Dosage Forms Employing Thermal and Non-thermal Methods	Journal of Thermal Analysis and Calorimetry, 2024, accepted for publication	4.4/2022	2022	Co-author
3.	Amalia Ridichie, Adriana Ledeti*, Francisc Peter*, Ionuț Ledeti , Cornelia Muntean, Matilda Rădulescu	Kinetic Investigation of the Oxidative Thermal Decomposition of Levonorgestrel	Processes, 2023, 11(11); DOI10.3390/pr11113210	3.5/2022	2022	Co-author
4.	Bianca Baul, Adriana Ledeti*, Denisa Cîrcioban, Amalia Ridichie, Titus Vlase, Gabriela Vlase, Francisc Peter*, Ionuț Ledeti	Thermal Stability and Kinetics of Degradation of Moxonidine as Pure Ingredient vs. Pharmaceutical Formulation	Processes, 2023, 11(6), 1738; DOI10.3390/pr11061738	3.5/2022	2022	Last author
5.	Denisa Cîrcioban, Ionuț Ledeti , Titus	Stability evaluation and kinetic study	Journal of Thermal Analysis and	4.4/2022	2022	Co-author

	Vlase, Gerlinde Rusu, Adriana Ledeti*, Gabriela Vlase	for the atypical antidepressant opipramol	Calorimetry, 2023, DOI10.1007/s10973-023-12249-3	22		
6.	Cosmina Bengescu, Adriana Ledeti, Tudor Olariu, Cîrcioban Denisa, Comelia Muntean*, Gabriela Vlase, Titus Vlase, Carmen Tomoroga, Anca Octavia Dragomirescu, Daniela Dascălu, Lenuța-Maria Șuta, Ionuț Ledeti , Marius Murariu	Instrumental investigations of promestriene: first report regarding the solid-state characterization and compatibility with pharmaceutical excipients	Journal of Thermal Analysis and Calorimetry, 2023, 148; 4641-4649; DOI10.1007/s10973-023-11942-7	4.4/20 22	2022	Co-author
7.	Sebastian Simu, Adriana Ledeti, Elena-Alina Moacă*, Comelia Păcurariu, Cristina Dehelean, Dan Năvolan, Ionuț Ledeti	Thermal Degradation Process of Ethinylestradiol-Kinetic Study	Processes, 2023, 10(8), art. no. 1518 DOI10.3390/pr10081518	3.5	2022	Last author
8.	Mirabela Romanescu, Valentina Buda, Adelina Lombrea, Monodora Andor, Ionuț Ledeti , Maria Suci, Corina Danciu, Cristina Dehelean, Liana Dehelean	Sex-Related Differences in Pharmacological Response to CNS Drugs: A Narrative Review	Journal of Personalized Medicine, 2022, 12(6), art. no. 907 DOI10.3390/jpm12060907	3.4	2022	Co-author
9.	Valentina Buda, Minodora Andor, Anca Tudor, Octavian Crețu, Carmen Cristescu, Corina Danciu, Ionuț Ledeti , Zorin Crăiniceanu, Mircea Onel, Diana Aurora Bordejevic, Mirela Cleopatra Tomescu, Oana Suci, Lucian Petrescu, Dana Emilia Man	The Plasma Level Of Soluble Endoglin In Hypertensive Patients Undergoing Long-Term Treatment With Candesartan	Farmacia, 2022, 70(1), 90-101 DOI10.31925/farmacia.2022.1.14	1.6	2022	Co-author
10.	Laura Sbârcea, Ionuț-Mihai Tănase, Adriana Ledeti, Denisa Cîrcioban, Gabriela Vlase, Paul Barvinschi, Marinela Miclău, Renata-Maria Văruț, Oana Suci, Ionuț Ledeti	Risperidone/Randomly Methylated β -Cyclodextrin Inclusion Complex—Compatibility Study with Pharmaceutical Excipients	Molecules, 2021, 26(6), 1690; https://doi.org/10.3390/molecules26061690	4.927	2021	Last author
11.	Laura Sbarcea, Ionuț-Mihai Tanase, Adriana Ledeti*, Denisa Cîrcioban, Gabriela Vlase, Paul Barvinschi, Marinela Miclău, Renata-Maria Varut, Cristina Trandafirescu, Ionuț Ledeti	Encapsulation of Risperidone by Methylated beta-Cyclodextrins: Physicochemical and Molecular Modeling Studies	Molecules, 2020, 25(23), art.no. 5694; DOI: 10.3390/molecules25235694	4.412	2020	Last author
12.	Denisa Cîrcioban, Ionuț Ledeti , Lenuța-Maria Suta, Gabriela Vlase, Adriana Ledeti*, Titus Vlase, Renata Varut, Laura Sbarcea, Cristina Trandafirescu, Cristina Dehelean	Instrumental analysis and molecular modelling of inclusion complexes containing artesunate	Journal of Thermal Analysis and Calorimetry, 2020, 142(5);1951-1961; DOI: 10.1007/s10973-020-09975-3	4.626	2020	Co-author
13.	Denisa Cîrcioban, Adriana Ledeti*, Gabriela Vlase, Titus Vlase, Cristina Dehelean, Ionuț Ledeti	Thermal stability and kinetic degradation study for dihydroartemisinin	Journal of Thermal Analysis and Calorimetry, 2020, 142(5); 2131-2139; DOI: 10.1007/s10973-020-09902-6	4.626	2020	Last author
14.	Denisa Cîrcioban, Adriana Ledeti*, Gabriela Vlase, Ionuț Ledeti , Titus Vlase, Renata Varut, Ioana-Zinuca Pavel, Cristina Dehelean	Preparation, physicochemical characterization and biological activity evaluation of some inclusion complexes containing artesunate	Journal of Thermal Analysis and Calorimetry, 2020, 141(3); 1041-1051; DOI: 10.1007/s10973-020-09763-z	4.626	2020	Co-author
15.	Ionuț-Mihai Tanase, Laura Sbarcea*, Adriana Ledeti, Paul Barvinschi, Denisa Cîrcioban, Gabriela Vlase, Renata-Maria Varut, Ionuț Ledeti	Compatibility studies with pharmaceutical excipients for aripiprazole-heptakis (2,6-di-O-methyl)-beta-cyclodextrin supramolecular adduct	Journal of Thermal Analysis and Calorimetry, 2020, 142(5); 1963-1976; DOI: 10.1007/s10973-020-09901-7	4.626	2020	Last author
16.	Ionuț Ledeti , Mirabela Romanescu, Denisa Cîrcioban, Adriana Ledeti*, Gabriela Vlase, Titus Vlase, Oana Suci*, Marius Murariu*, Sorin Olariu, Pentru Matusz, Valentina Buda, Doina Picu	Stability and Compatibility Studies of Levothyroxine Sodium in Solid Binary Systems-Instrumental Screening	Pharmaceutics, 2020, 12(1); art.58; DOI: 10.3390/pharmaceutics12010058	6.321	2020	First author
17.	Valentina Buda, Bianca Baul, Minodora Andor, Dana Emilia Man, Adriana Ledeti*, Gabriela Vlase, Titus Vlase, Corina Danciu, Petru Matusz, Francisc Peter, Ionuț Ledeti	Solid State Stability and Kinetics of Degradation for Candesartan-Pure Compound and Pharmaceutical Formulation	Pharmaceutics, 2020, 12(2); art.86; DOI: 10.3390/pharmaceutics12020086	6.321	2020	Coresp
18.	Ionuț Ledeti , Cosmina Bengescu, Denisa Cîrcioban, Gabriela Vlase, Titus Vlase, Carmen Tomoroga, Valentina Buda, Adriana Ledeti*, Anca Dragomirescu, Marius Murariu	Solid-state stability and kinetic study of three glucocorticoid hormones: prednisolone, prednisone and cortisone	Journal of Thermal Analysis and Calorimetry, 2020, 141(3); 1053-1065 DOI: 10.1007/s10973-020-09534-w	4.626	2020	First author
19.	Ionuț-Mihai Tănase, Laura Sbârcea*	Physicochemical characterization	Journal of Thermal Analysis and	4.626	2020	Last author

	Adriana Ledeti, Gabriela Vlase, Paul Barvinschi, Renata-Maria Văruț, Anca Dragomirescu, Carmen Axente, Ionuț Ledeti	and molecular modeling study of host-guest systems of aripiprazole and functionalized cyclodextrins	Calorimetry, 2020, 141(3); 1027-1039 DOI: 10.1007/s10973-020-09549-3			
20.	Anamaria Todea, Diana Aparaschivei, Ioan Bitcan, Ionuț V. Ledeti , Geza Bandur, Francisc Peter*, Lajos Nagy, Sandor Keki, Emese Biro	Thermal behavior of oligo(epsilon-caprolactone)-co-delta-gluconolactone] enzymatically synthesized in reaction conditions optimized by experimental design	Journal of Thermal Analysis and Calorimetry, 2020, 141(3); 1017-1026 DOI: 10.1007/s10973-020-09557-3	4.626	2020	Co-author
21.	Iulia Păușescu, Anamaria Todea, Valentin Badea, Francisc Peter, Mihai Medeleanu*, Ionuț Ledeti , Gabriela Vlase, Titus Vlase	Optical and thermal properties of intelligent pH indicator films based on chitosan/PVA and a new xanthylum dye	Journal of Thermal Analysis and Calorimetry, 2020, 141(3); 999-1008 DOI: 10.1007/s10973-019-08911-4	4.626	2020	Co-author
22.	Mirela Nicolov, Doina Georgescu, Emiliană Laura Andreici Eftimie, Simona Cinta Pinzaru, Roxana Roman, Ionuț Ledeti , Rita Ambrus, Adelina Cheveresan, Nicolae Avram	DFT Study of Structure, IR and RAMAN Spectra for Betulinic Acid Solvatomorphs	Revista de Chimie –Bucharest, 2019, 70(1), 107-111 https://doi.org/10.37358/RC.19.1.6861	1.755	2019	Co-author
23.	Valentina Buda, Minodora Andor, Dana Emilia Baibata, Ramona Cozlac, Gabriela Radu, Dorina Coricovac, Corina Danciu, Ionuț Ledeti , Adelina Cheveresan, Cristian Nica, Paul Tuduțe, Mirela Cleopatra Tomescu	Decreased sEng plasma levels in hypertensive patients with endothelial dysfunction under chronic treatment with Perindopril	Drug Design Development And Therapy, 2019, 13, 1915-1924; DOI: 10.2147/DDDT.S186378	3.216	2019	Co-author
24.	Valentina Buda, Minodora Andor, Carmen Cristescu, Mirela Cleopatra Tomescu, Danina Muntean, Dana Emilia Baibata, Diana Aurora Bordejevic, Corina Danciu, Olivia Dalleur, Dorina Coricovac, Zorin Crăiniceanu, Anca Tudor, Ionuț Ledeti , Lucian Petrescu	Thrombospondin-I Serum Levels In Hypertensive Patients With Endothelial Dysfunction After One Year Of Treatment With Perindopril	Drug Design Development And Therapy, 2019, 13, 3515-3526; DOI: 10.2147/DDDT.S218428	3.216	2019	Co-author
25.	Denisa Cîrcioban, Ioana Zinuța Pavel*, Adriana Ledeti, Ionuț Ledeti, Corina Danciu, Cristina Dehelean	Cytotoxic Activity Evaluation on Breast Cells of Guest-host Complexes Containing Artemisinin	Revista de Chimie –Bucharest, 2019, 70(8), 2843-2846 https://doi.org/10.37358/RC.19.8.7439	1.755	2019	Co-author
26.	Laura Sbârcea, Adriana Ledeti*, Lucreția Udrescu, Renata-Maria Văruț, Paul Barvinschi, Gabriela Vlase, Ionuț Ledeti	Betulonic acid—cyclodextrins inclusion complexes	Journal of Thermal Analysis and Calorimetry, 2019, 138(4); 2787-2797; DOI: 10.1007/s10973-019-08359-6	2.731	2019	Co-author/Last author
27.	Mihaela Cristea, Bianca Baul, Ionuț Ledeti *, Adriana Ledeti, Gabriela Vlase, Titus Vlase, Božena Karolewicz, Oana Ștefănescu, Anca Octavia Dragomirescu, Cezara Mureșan, Dan-Simion Cîpu, Dana Velimirovici, Mircea Ștefănescu	Preformulation studies for atorvastatin calcium	Journal of Thermal Analysis and Calorimetry, 2019, 138(4); 2799-2806; DOI: 10.1007/s10973-019-08798-1	2.731	2019	Coresp
28.	Cristina Trandafirescu#, Ionuț Ledeti #, Codruța Șoica*, Adriana Ledeti, Gabriela Vlase, Florin Borcan, Cristina Dehelean, Dorina Coricovac, Roxana Racoviceanu, Zoltán Aigner	Albendazole-cyclodextrins binary systems. Thermal and spectral investigation on drug-excipient interaction	Journal of Thermal Analysis and Calorimetry, 2019, 138(5); 3039-3054; DOI: 10.1007/s10973-019-08326-1	2.731	2019	First author
29.	Ionuț Ledeti , Mihaela Budiul, Petru Matusz, Gabriela Vlase, Denisa Cîrcioban, Cristina Dehelean, Lenuta-Maria Suta, Angelica Caunii, Adriana Ledeti, Titus Vlase, Marius Murariu, Sorin Bolintineanu	Preformulation studies for nortriptyline. Solid-state compatibility with pharmaceutical excipients	Journal of Thermal Analysis and Calorimetry, 2018, 131(1); 191-199 DOI 10.1007/s10973-017-6269-5	2.471	2018	First author
30.	Adriana Ledeti, Gabriela Vlase, Titus Vlase, Denisa Cîrcioban, Cristina Dehelean, Ionuț Ledeti *, Lenuta-Maria Suta	Binary adduct formation of desipramine with dicarboxylic acids: an instrumental study	Journal of Thermal Analysis and Calorimetry, 2018, 131(1); 167-173; DOI 10.1007/s10973-016-5967-8	2.471	2018	Coresp
31.	Adriana Ledeti, Gabriela Vlase, Titus Vlase, Denisa Cîrcioban, Cristina Dehelean, Ionuț Ledeti *	Kinetic study for solid-state degradation of mental disorder therapeutic agents: amitriptyline, desipramine and imipramine	Journal of Thermal Analysis and Calorimetry, 2018, 131(1); 155-165; DOI 10.1007/s10973-016-6064-8	2.471	2018	Coresp
32.	Adriana Ledeti, Tudor Olariu, Angelica Caunii, Gabriela Vlase, Denisa Cîrcioban, Bianca Baul, Ionuț Ledeti *, Titus Vlase,	Evaluation of thermal stability and kinetic of degradation for levodopa in non-isothermal conditions	Journal of Thermal Analysis and Calorimetry, 2018, 131(2); 1881-1888;	2.471	2018	Coresp

	Marius Murariu		DOI: 10.1007/s10973-017-6671-z			
33.	Ionuț Ledeti #, Agneta Pusztai#, Cezara Mureșan#, Denisa Cîrcioban, Gabriela Vlase, Carmen Axente, Lenuța-Maria Șuta, Titus Vlase, Petru Matusz, Adriana Ledeti*, Oana Suci, Valentina Buda, Marius Murariu	Study of kinetic characteristics of 6-ethyl chenodeoxycholic acid and deoxycholic acid decomposition in non-isothermal conditions	Journal of Thermal Analysis and Calorimetry, 2018, 134(1); 757-764; DOI: 10.1007/s10973-018-7660-6	2.471	2018	First author
34.	Denisa Cîrcioban, Ionuț Ledeti , Gabriela Vlase, Adriana Ledeti*, Carmen Axente, Titus Vlase, Cristina Dehelean	Kinetics of heterogeneous-induced degradation for artesunate and artemether	Journal of Thermal Analysis and Calorimetry, 2018, 134(1); 749-756; DOI: 10.1007/s10973-018-7257-0	2.471	2018	Co-author
35.	Denisa Cîrcioban, Adriana Ledeti, Gabriela Vlase, Alina Moacă, Ionuț Ledeti *, Claudia Farcaș, Titus Vlase, Cristina Dehelean	Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin	Journal of Thermal Analysis and Calorimetry, 2018, 134(1); 741-748; DOI: 10.1007/s10973-018-7497-z	2.471	2018	Coresp
36.	Ionuț Ledeti #, Agneta Pusztai#, Cezara Mureșan#, Denisa Cîrcioban, Gabriela Vlase, Marius Murariu, Lenuța-Maria Șuta, Titus Vlase, Adriana Ledeti*, Oana Suci, Valentina Buda, Petru Matusz	Study of solid-state degradation of prochlorperazine and promethazine	Journal of Thermal Analysis and Calorimetry, 2018, 134(1); 731-740; DOI: 10.1007/s10973-018-7566-3	2.471	2018	First author
37.	Denisa Cîrcioban, Adriana Ledeti, Gabriela Vlase, Dorina Coricovac, Alina Moaca, Claudia Farcaș, Titus Vlase, Ionuț Ledeti *, Cristina Dehelean	Guest–host interactions and complex formation for artemisinin with cyclodextrins: instrumental analysis and evaluation of biological activity	Journal of Thermal Analysis and Calorimetry, 2018, 134(2); 1375-1384; DOI: 10.1007/s10973-018-7411-8	2.471	2018	Coresp
38.	Ionuț Ledeti #, Agneta Pusztai#, Marius Murariu#, Sorin Olariu, Codruț Ivan, Denisa Cîrcioban, Gabriela Vlase, Adriana Ledeti*, Titus Vlase, Petru Matusz	Comparative instrumental investigations of some bile acids	Journal of Thermal Analysis and Calorimetry, 2018, 134(2); 1345-1350; DOI: 10.1007/s10973-018-7163-5	2.471	2018	First author
39.	Ionuț Ledeti #, Marius Murariu#, Gabriela Vlase, Titus Vlase, Nicolae Doca, Adriana Ledeti*, Lenuța-Maria Șuta, Tudor Olariu	Investigation of thermal-induced decomposition of iodoform	Journal of Thermal Analysis and Calorimetry, 2017, 127(1); 565-570 DOI: 10.1007/s10973-016-5368-z	2.209	2017	First author
40.	Valentina Buda, Minodora Andor, Adriana Ledeti, Ionuț Ledeti *, Gabriela Vlase, Titus Vlase, Carmen Cristescu, Mirela Voicu, Liana Suci, Mirela Tomescu	Comparative Solid-State Stability of Perindopril Active Substance vs. Pharmaceutical Formulation	International Journal Of Molecular Sciences, 2017, 18(1) Article Number: 164 DOI:10.3390/ijms18010164	3.687	2017	Coresp
41.	Rodica Narcisa Tanasescu, Razvan Bardan, Adriana Ledeti, Ionuț Ledeti , Petru Matusz, Germaine Săvoiu-Balint, Sorin Bolintineanu	Considerations on Thermal Behaviour and Porosity of Renal Calculi in Bisphosphonate-Treated Postmenopausal Women	Revista de Chimie –Bucharest, 2017, 68(6), 1259-1263	1.412	2017	Co-author
42.	Corina Danciu*, Ersilia Alexa, Stefana Avram, Daliana Minda, Ioana Pavel, Roxana Babuta, Marius Mioc, Ionuț Ledeti , Ioana Cuc Hepcal, Andrei Motoc	Total Polyphenol Content and Antiproliferative Activity of Green Tea Extracts Collected from Romanian Pharmaceuticals Market	Revista de Chimie –Bucharest, 2017, 68(6), 1174-1176	1.412	2017	Co-author
43.	Ionuț Ledeti , Sorin Bolintineanu, Gabriela Vlase, Denisa Cîrcioban, Adriana Ledeti, Titus Vlase, Lenuța-Maria Șuta, Angelica Caunii, Marius Murariu	Compatibility study between antiparkinsonian drug Levodopa and excipients by FTIR spectroscopy, X-ray diffraction and thermal analysis	Journal of Thermal Analysis and Calorimetry, 2017, 130(1); 443-441 DOI 10.1007/s10973-017-6393-2	2.209	2017	First author
44.	Ionuț Ledeti , Sorin Bolintineanu, Gabriela Vlase, Denisa Cîrcioban, Cristina Dehelean, Lenuța-Maria Șuta, Angelica Caunii, Adriana Ledeti, Titus Vlase, Marius Murariu	Evaluation of solid-state thermal stability of donepezil in binary mixtures with excipients using instrumental techniques	Journal of Thermal Analysis and Calorimetry, 2017, 130(1); 425-431 DOI 10.1007/s10973-017-6250-3	2.209	2017	First author
45.	Lenuța-Maria Șuta, Gabriela Vlase, Titus Vlase, Germaine Balint-Săvoiu, Tudor Olariu, Ionela Belu, Adriana Ledeti*, Marius-Sorin Murariu, Lavinia Stelea, Ionuț Ledeti	Thermal characterization of cholesterol in air vs. nitrogen atmosphere	Revista de Chimie –Bucharest, 2016; 67(1):84-86	1.232	2016	Co-author/Last author
46.	Lenuța-Maria Șuta, Gabriela Vlase, Titus Vlase, Tudor Olariu, Ionuț Ledeti *, Ionela Belu, Codruț Ivan, Cristian Andrei Sarau, Germaine Balint-Săvoiu, Lavinia Stelea, Adriana Ledeti	Solid state stability of cholesterol: preliminary kinetic analysis	Revista de Chimie –Bucharest, 2016; 67(1):113-115	1.232	2016	Coresp
47.	Lenuța-Maria Șuta, Gabriela Vlase, Adriana Ledeti*, Titus Vlase, Petru Matusz, Cristina Trandafirescu, Denisa Cîrcioban, Sorin Olariu, Ivan Codruț, Marius Murariu, Lavinia Stelea, Ionuț Ledeti	Solid-State Thermal Behaviour of Cholic Acid	Revista de Chimie –Bucharest, 2016, 67(2): 329-331	1.232	2016	Co-author/Last author

48.	Adriana Ledeti, Gabriela Vlase, Ionuț Ledeti* , Titus Vlase, Petru Matusz, Cristina Dehelean, Denisa Cîrcioban, Lavinia Stelea, Lenuta-Maria Suta	Thermal Stability of Desipramine and Imipramine	Revista de Chimie –Bucharest, 2016, 67(2): 336-338	1.232	2016	Coresp
49.	Laura Sbârcea, Lucreția Udrescu, Ionuț Ledeti , Zoltan Szabadai, Adriana Fuliș*, Claudiu Sbârcea	β -Cyclodextrin inclusion complexes of lisinopril and zofenopril. Physicochemical characterization and compatibility study of lisinopril- β -cyclodextrin with lactose.	Journal of Thermal Analysis and Calorimetry 2016, 123(3): 2377-2390; DOI:10.1007/s10973-015-5045-7	1.953	2016	Co-author
50.	Lenuta Maria Suta, Petru Matusz, Adriana Ledeti*, Codrut Ivan, Marius Murariu, Mircea Constantin Sora, Ionuț Ledeti	Embedding of Biliary Calculi in Plastic Materials. A viable solution for increasing their mechanical resistance during sampling	Materiale plastice, 2016; 53(1):19-22	0.778	2016	Co-author/Last author
51.	Cristina Trandafirescu, Codruta Soica, Adriana Ledeti, Florin Borcan*, Lenuta-Maria Suta, Marius Murariu, Cristina Dehelean, Daniela Ionescu, Ionuț Ledeti	Preformulation Studies for Albendazole. A DSC and FTIR analysis of binary mixtures with excipients	Revista de Chimie –Bucharest, 2016, 67(3): 463-467.	1.232	2016	Co-author/Last author
52.	Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Marius Murariu, Cristina Trandafirescu, Lenuta Maria Suta, Cristina Dehelean, Adriana Ledeti*, Codruta Soica	Non-isothermal Isoconversional Kinetic Study Regarding the Degradation of Albendazole	Revista de Chimie –Bucharest, 2016, 67(3): 549-552.	1.232	2016	First author
53.	Marius Sorin Murariu, Sorin Olariu, Codrut Ivan, Ionuț Ledeti* , Titus Vlase, Gabriela Vlase, Adriana Ledeti, Nicoleta Iacob, Gratian Miclaus, Petru Matusz	Correlations Between Morphology and Instrumental Analysis of Human Gallstones - Preliminary Study	Revista de Chimie –Bucharest, 2016, 67(3): 575-579.	1.232	2016	Coresp
54.	Cristina Trandafirescu, Ionuț Ledeti , Dorina E Coricovac, Codruta Soica*, Iulia Pinzaru, Cristina Dehelean, Radu E Iacob, Florin Borcan	Optimization of Hollow Aliphatic Polyurethane Particles Used as a Drug Delivery System	Materiale plastice, 2016; 53(2):205-210	0.778	2016	Co-author
55.	Diana Antal, Iulia Pinzaru, Florin Borcan, Teodora Marti, Ionuț Ledeti , Dorina Coricovac, Stefan Schweiger, Hermann Stuppner, Cristina Dehelean*, Evelyne Ollivier, Codruta Soica	Inclusion Complexes of the Aurone Sulfuretin and the Chalcone Butein from Cotinus coggygia Wood in Two Cyclodextrin Types First data on physico-chemical properties	Revista de Chimie –Bucharest, 2016, 67(6): 1104-1109	1.232	2016	Co-author
56.	Ionuț Ledeti , Adriana Ledeti*, Gabriela Vlase, Titus Vlase, Petru Matusz, Vasile Bercean, Lenuta Maria Suta, Doina Picu	Thermal stability of synthetic thyroid hormone L-thyroxine and L-thyroxine sodium salt hydrate both pure and in pharmaceutical formulations	Journal of Pharmaceutical and Biomedical Analysis, 2016; 125: 33–40 DOI: 10.1016/j.jpba.2016.03.026	3.255	2016	First author
57.	Adriana Fuliș, Ionuț Ledeti* , Gabriela Vlase, Titus Vlase, Codruta Soica, Cristina Dehelean, Camelia Oprean, Florina Bojin, Lenuta-Maria Suta, Vasile Bercean, Stefana Avram	Thermal degradation, kinetic analysis, and apoptosis induction in human melanoma for oleanolic and ursolic acids	Journal of Thermal Analysis and Calorimetry 2016; 125(2): 759-768 DOI:10.1007/s10973-015-5052-8	1.953	2016	Coresp
58.	Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Adriana Fuliș *, Lenuta-Maria Suta	Comparative thermal stability of two similar-structure hypolipidemic agents – Simvastatin and Lovastatin. Kinetic Study	Journal of Thermal Analysis and Calorimetry 2016; 125(2): 769-775, DOI: 10.1007/s10973-015-5071-5	1.953	2016	First author
59.	Ionuț Ledeti , Vasile Bercean, Gabriela Vlase, Titus Vlase, Adriana Ledeti*, Lenuta Maria Suta	Betulonic Acid - Study of Thermal Degradation by Kinetic Approach	Journal of Thermal Analysis and Calorimetry 2016; 125(2): 785-791 DOI: 10.1007/s10973-016-5299-8	1.953	2016	First author
60.	Diana Antal, Florina Ardelean, Iulia Pinzaru, Florin Borcan, Ionuț Ledeti , Dorina Coricovac, Istvan Zupko, Beatrice Baghdikian, Evelyne Ollivier, Codruta Soica, Sorin Bolintineanu	Effects of Cyclodextrin Complexation on the Anti-cancer Effects of Cotinus coggygia Extract and its Constituents, Butein and Sulfuretin	Revista de Chimie –Bucharest, 2016, 67(8): 1618-1622	1.232	2016	Co-author
61.	Roxana Blajovan, Ionuț Ledeti , Gabriela Vlase, Adriana Ledeti*, Titus Vlase.	Study of thermal induced excipient-excipient interactions	Journal of Thermal Analysis and Calorimetry, 2016, 126(1): 171-179. DOI 10.1007/s10973-016-5348-3	1.953	2016	Co-author
62.	Adriana Ledeti, Gabriela Vlase, Titus Vlase, Vasile Bercean, Marius Sorin Murariu, Ionuț Ledeti* , Lenuta-Maria Suta	Solid-State Preformulation Studies Of Amiodarone Hydrochloride	Journal of Thermal Analysis and Calorimetry 2016; 126(1): 181-187. DOI: 10.1007/s10973-016-5256-6	1.953	2016	Coresp
63.	Gabriela Vlase, Constantin Bolcu, Dorina Modra, Mihaela Budiul, Ionuț Ledeti , Paul Albu, Titus Vlase*	Thermal behavior of phthalic anhydride-based polyesters. Part I. Influence of the polyol on the thermal	Journal of Thermal Analysis and Calorimetry 2016; 126(1): 287-292 DOI: 10.1007/s10973-016-5509-4	1.953	2016	Co-author

		stability				
64.	Adriana Ledeti, Gabriela Vlase, Denisa Cercioban, Ionuț Ledeti , Cristina Dehelean, Lavinia Stelea, Titus Vlase, Angelica Caunii	Comparative stability of Levodopa under thermal stress in both oxidative and inert media	Revista de Chimie –Bucharest, 2016, 67(12), 2648-2650	1.232	2016	Coresp
65.	Ionuț Ledeti , Anda Alexa, Vasile Bercean, Gabriela Vlase, Titus Vlase, Lenuța-Maria Șuta, Adriana Fuliș*	Synthesis and Degradation of Schiff Bases Containing Heterocyclic Pharmacophore	International Journal Of Molecular Sciences, 2015, 16 (1) 1711-1727 DOI: 10.3390/ijms16011711	3.257	2015	First author
66.	Lucreția Udrescu*, Adriana Fuliș, Ionuț Ledeti , Gabriela Vlase, Paul Barvinschi, Ludovic Kurunzi, Laura Sbârcea	Host-guest system of zofenopril and randomly methylated beta-cyclodextrin: preparation, characterization and solubility	Revista de Chimie –Bucharest, 2015; 66(1): 17-20.	0.956	2015	Co-author
67.	Ionuț Ledeti , Vasile Bercean*, Anda Alexa, Codruta Soica, Lenuța-Maria Suta, Cristina Dehelean, Cristina Trandafirescu, Delia Muntean, Monica Licker, Adriana Fuliș	Preparation and Antibacterial Properties of Substituted 1,2,4-Triazoles	Journal of Chemistry, 2015, Article no. 879343, 1-5 DOI:10.1155/2015/879343	0.996	2015	First author
68.	Lucretia Udrescu*, Laura Sbarcea, Adriana Fuliș, Ionuț Ledeti , Titus Vlase, Paul Barvinschi, Ludovic Kurunzi	Physicochemical characterization of zofenopril inclusion complex with 2-hydroxypropyl-beta-cyclodextrin	Journal of the Serbian Chemical Society, 2015; 80 (4): 485-497 DOI: 10.2298/JSC140828118U	0.97	2015	Co-author
69.	Ionuț Ledeti , Gabriela Vlase, Ionel Ciucanu, Tudor Olariu, Adriana Fuliș*, Lenuța-Maria Șuta, Ionela Belu	Analysis of solid binary systems containing simvastatin	Revista de Chimie –Bucharest, 2015; 66(2): 240-243	0.956	2015	First author
70.	Codruț Ivan, Ionuț Ledeti *, Gabriela Vlase, Titus Vlase, Adriana Fuliș, Sorin Olariu	Study of Solid-State Behaviour of Some Human Gallstones	Revista de Chimie –Bucharest, 2015; 66(2): 265-270	0.956	2015	Coresp
71.	Laura Sbârcea, Ionuț Ledeti , Liana Drăgan, Ludovic Kurunzi, Adriana Fuliș*, Lucreția Udrescu	Fosinopril sodium-hydroxypropyl-β-cyclodextrin inclusion complex. Thermal decomposition kinetics and compatibility studies	Journal of Thermal Analysis and Calorimetry 2015; 120(1): 981-990. DOI: 10.1007/s10973-015-4450-2	1.781	2015	Co-author
72.	Lenuța-Maria Suta, Ionuț Ledeti *, Liana Suci, Daniel Hadaruga, Adriana Fuliș, Ionela Belu	Study Regarding the Behaviour of Encapsulated Piroxicam in Liquid Media	Revista de Chimie –Bucharest, 2015; 66(5):718-721.	0.956	2015	Coresp
73.	Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Ionel Ciucanu, Tudor Olariu, Anamaria Todea, Adriana Fuliș*, Lenuța-Maria Suta	Instrumental Analysis of Potential Lovastatin - excipient Interactions in Preformulation Studies	Revista de Chimie –Bucharest, 2015; 66(6):879-882.	0.956	2015	First author
74.	Amina Ramona Popovici, Gabriela Vlase*, Titus Vlase, Lenuța-Maria Suta, Călin Popoiu, Ionuț Ledeti , Gheorghe Iovănescu, Adriana Fuliș	Local anesthetic agents. Part III. Study of solid dosage forms with pharmaceutical excipients	Revista de Chimie –Bucharest, 2015; 65(7):1046-1051	0.956	2015	Co-author
75.	Codrut Ivan, Lenuța-Maria Suta, Tudor Olariu, Ionuț Ledeti *, Gabriela Vlase, Titus Vlase, Sorin Olariu, Petru Matusz, Adriana Fuliș	Preliminary kinetic study for heterogenous degradation of cholesterol - containing human biliary stones	Revista de Chimie –Bucharest, 2015, 66(8):1253-1255.	0.956	2015	Coresp
76.	Ionuț Ledeti , Gabriela Vlase*, Titus Vlase, Vasile Bercean, Adriana Fuliș	Kinetic of solid state degradation of transitional coordinative compounds containing functionalized 1,2,4 - triazole ligand	Journal of Thermal Analysis and Calorimetry, 2015, 121(3): 1049-1057 DOI: 10.1007/s10973-015-4520-5	1.781	2015	First author
77.	Adriana Fuliș, Gabriela Vlase, Titus Vlase, Lenuța-Maria Șuta, Codruța Șoica, Ionuț Ledeti *	Screening and characterization of cocrystal formation between carbamazepine and succinic acid	Journal of Thermal Analysis and Calorimetry, 2015, 121(3):1081-1086 DOI: 10.1007/s10973-015-4473-8	1.781	2015	Coresp
78.	Adriana Fuliș, Gabriela Vlase, Ionuț Ledeti *, Lenuța-Maria Șuta	Ketoprofen-Cysteine Equimolar Salt. Synthesis, Thermal Analysis, PXRD and FTIR Spectroscopy Investigation	Journal of Thermal Analysis and Calorimetry, 2015, 121(3): 1087-1091 DOI: 10.1007/s10973-015-4516-1	1.781	2015	Coresp
79.	Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Lenuța-Maria Suta, Anamaria Todea, Adriana Fuliș*	Selection of solid-state excipients for simvastatin dosage forms through thermal and nonthermal techniques	Journal of Thermal Analysis and Calorimetry 06/2015; 121(3):1093-1102 DOI: 10.1007/s10973-015-4832-5	1.781	2015	First author
80.	Ionuț Ledeti, Gabriela Vlase, Titus Vlase, Adriana Fuliș*	Kinetic analysis of solid-state degradation of pure pravastatin versus pharmaceutical formulation	Journal of Thermal Analysis and Calorimetry 06/2015; 121(3):1103-1110. DOI: 10.1007/s10973-015-4842-3	1.781	2015	First author
81.	Ionuț Ledeti , Ștefana Avram*, Vasile Bercean, Gabriela Vlase, Titus Vlase, Adriana Ledeti* Istvan Zupko, Marius Mioc, Lenuța-Maria Șuta, Codruta Soica, Cristina	Solid-State Characterization and Biological Activity of Betulonic Acid Derivatives	Molecules, 2015, 20(12): 22691-22702 DOI:10.3390/molecules201219876	2.465	2015	First author

	Dehelean					
82.	Rodica Narcisa Tanasescu, Adriana Fulias*, Ionuț Ledeti , Mariana Ioana Miron, Petru Matusz	Evaluation of mineral composition in the area of the cortical osteoporotic bone: a fourier transform infrared spectroscopy (FTIR) and scanning electronic microscopy (SEM) study	Revista de Chimie –Bucharest, 2015; 66(12):2047-2050	0.956	2015	Co-author
83.	Adriana Fulias, Calin Popoiu*, Gabriela Vlase, Titus Vlase, Daniela Onetiu, Germaine Savoie, Georgeta Simu, Cristina Patruescu, Gheorghe Iliu, Ionuț Ledeti	Thermoanalytical And Spectroscopic Study On Methotrexate – Active Substance And Tablet	Digest Journal of Nanomaterials and Biostructures, 2014; 9(1):93-98.	0.945	2014	Co-author/Last author
84.	Gheorghe Nodiți, Adriana Fulias*, Ionuț Ledeti	Methotrexate as coordination complex ligand: Study of interaction with Zn(II)	Digest Journal of Nanomaterials and Biostructures, 2014, 9(1), 251-260.	0.945	2014	Co-author/Last author
85.	Gheorghe Nodiți, Ionuț Ledeti *, Georgeta Simu, Lenuta-Maria Suta, Daniela Onetiu, Adriana Fulias	Microwave - Assisted synthesis of local anaesthetic procaine from benzocaine	Revista de Chimie –Bucharest, 2014, 65(1), 65-67	0.810	2014	Coresp
86.	Lucretia Udrescu*, Laura Sbarcea, Adriana Fulias, Ionuț Ledeti , Gabriela Vlase, Paul Barvinschi, Ludovic Kurunzi	Physicochemical analysis and molecular modeling of the fosinopril β -cyclodextrin inclusion complex	Journal of Spectroscopy, 2014, art.no 748468, 1-14 DOI:10.1155/2014/748468	0.538	2014	Co-author
87.	Ionuț Ledeti , Georgeta Simu*, Gabriela Vlase, Titus Vlase, Tudor Olariu, Germaine Savoie, Lenuta-Maria Suta, Calin Popoiu, Adriana Fulias	Ni(II) Coordination Compound with Acetaminophen. Synthesis and Characterization	Revista de Chimie –Bucharest, 2014; 65(5): 556-559.	0.810	2014	First author
88.	Tudor Olariu, Lenuta-Maria Suta, Calin Popoiu, Ionuț Ledeti *, Georgeta Simu, Germaine Savoie, Adriana Fulias	Alternative Synthesis of Paracetamol and Aspirin Under Non-conventional Conditions	Revista de Chimie –Bucharest, 2014; 65(6): 633-635.	0.81	2014	Coresp
89.	Georgeta Simu, Ionuț Ledeti , Simona Muntean, Adriana Fulias, Ioana Citu, Codruta Soica, Doina Onisei, Germaine Savoie-Balint, Iulia Pinzaru*, Daniela Ionescu	Study of the interaction of some pharmaceutical compounds with different cellulosic supports	Revista de Chimie –Bucharest, 2014; 65(6): 664-670.	0.81	2014	Co-author
90.	Mihail Birzescu, Marius Milea, Dan Rosu, Ionuț Ledeti *, Madian Rafaila, Viorel Sasca, Mircea Niculescu	Synthesis and thermal analysis of the nickel(II) oxalate obtained through the reaction of ethylene glycol with Ni(NO ₃) ₂ ·6H ₂ O	Revue Roumaine de Chimie, 2014, 59(6-7), 555-563	0.311	2014	Coresp
91.	Iulia Pinzaru, Cristina Trandafirescu, Zoltan Szabadai, Marius Mioc, Ionuț Ledeti , Dorina Coricovac, Sorina Ciurlea*, Roxana Ghiulai, Zorin Crainiceanu, Georgeta Simu	Synthesis and Biological Evaluation of Some Pentacyclic Lupane Triterpenoid Esters	Revista de Chimie –Bucharest, 2014; 65(7): 848-851	0.81	2014	Co-author
92.	Ionuț Ledeti , Titus Vlase, Gabriela Vlase, Lenuta Maria Suta*, Adriana Fulias, Ionela Belu	Synthesis and Solid - state Characterization of a Cobalt(II) Triazolic Complex	Revista de Chimie –Bucharest, 2014; 65(8): 897-902.	0.81	2014	First author
93.	Gheorghe Pupca, Viorel Bucuras, Gabriela Vlase, Titus Vlase, Adriana Fulias*, Ionuț Ledeti	Solid-State Analysis of Some Urinary Calculi	Revista de Chimie –Bucharest, 2014; 65(9):1058-1062	0.81	2014	Co-author/Last author
94.	Mircea Niculescu, Ionuț Ledeti *, Mihail Birzescu	New methods to obtain carboxylic acids by oxidation reactions of 1,2-ethanediol with metallic nitrates	Journal Of Organometallic Chemistry, 2014; 767, 108-111 DOI:10.1016/j.jorganchem.2014.05.041	2.173	2014	Coresp
95.	Maria Ilici, Vasile Bercean, Monica Venter, Ionuț Ledeti *, Tudor Olariu, Lenuta-Maria Suta, Adriana Fulias	Investigations on the Thermal-Induced Degradation of Transitional Coordination Complexes Containing (3H-2-thioxo-1,3,4-thiadiazol-5-yl)thioacetate Moiety	Revista de Chimie –Bucharest, 2014; 65(10):1142-1145.	0.81	2014	Coresp
96.	Adriana Fulias, Gabriela Vlase, Codruta Soica, Vasile Bercean, Titus Vlase, Ionuț Ledeti *	Thermal behaviour of a modified encapsulation agent. Heptakis-6-iodo-6-deoxy-beta-cyclodextrin	Journal of Thermal Analysis and Calorimetry, 2014, 118 (2), 961-966. DOI: 10.1007/s10973-014-3727-1	2.042	2014	Coresp
97.	Adriana Fulias, Gabriela Vlase*, Titus Vlase, Daniela Onetiu, Nicolae Docca, Ionuț Ledeti	Thermal degradation of B-group vitamins: B1, B2 and B6. Kinetic study	Journal of Thermal Analysis and Calorimetry, 2014, 118 (2), 1033-1038. DOI: 10.1007/s10973-014-3847-7	2.042	2014	Co-author/Last author
98.	Ionuț Ledeti , Gabriela Vlase*, Titus Vlase, Nicolae Docca, Vasile Bercean, Adriana Fulias	Thermal decomposition, kinetic study and evolved gas analysis of 1,3,5-triazine-2,4,6-triamine	Journal of Thermal Analysis and Calorimetry, 2014, 118 (2), 1057-1063.	2.042	2014	First author

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100.	Codruta Soica, Adriana Fuliș*, Gabriela Vlase, Cristina Dehelean, Titus Vlase, Ionuț Ledeti .	Synthesis and Thermal Behaviour of New Ambazone Complexes with some Transitional Metals	Journal of Thermal Analysis and Calorimetry, 2014, 118 (2), 1305-1311. DOI: 10.1007/s10973-014-3858-4	2.042	2014	Co-author/Last author	
101.	Adriana Fuliș, Codruta Soica, Ionuț Ledeti , Titus Vlase, Gabriela Vlase, Lenuta-Maria Suta*, Ionela Belu	Characterization of pharmaceutical acetylsalicylic acid - theophylline cocrystal obtained by slurry method under microwave irradiation	Revista de Chimie –Bucharest, 2014; 65 (11): 1281-1284.	0.81	2014	Co-author	
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103.	Mircea Niculescu, Petru Budrugaec, Ionuț Ledeti *, Vasile Pode, Mihail Birzescu	Synthesis and characterization of the polynuclear coordination compound obtained through the reaction of 1,3-propanediol with Cu(NO ₃) ₂ ·3H ₂ O	Revue Roumaine de Chimie, 2013, 58(4-5), 387-392	0.393	2013	Coresp	
104.	Ionuț Ledeti , Adriana Fuliș*, Gabriela Vlase, Titus Vlase, Nicolae Doca	Novel Triazolic Copper (II) Complex: Synthesis, Thermal Behaviour And Kinetic Study	Revue Roumaine de Chimie, 2013, 58(4-5), 441-450.	0.393	2013	First author	
105.	Adriana Fuliș, Gabriela Vlase, Titus Vlase, Codruța Soica, Alina Heghes, Marius Craina*, Ionuț Ledeti	Comparative kinetic analysis on thermal degradation of some cephalosporins using TG and DSC data	Chemistry Central Journal, 2013, 7, article no. 70 DOI:10.1186/1752-153X-7-70	1.663	2013	Co-author/Last author	
106.	Mircea Niculescu, Dan Rosu, Ionuț Ledeti *, Marius Milea, Petru Budrugaec	Thermal and spectroscopic studies of Ni(II)-Fe(III) heteropolynuclear coordination compound obtained through the reaction of 1,2-ethanediol with metallic nitrates	Revue Roumaine de Chimie, 2013, 58(6), 543-552	0.393	2013	Coresp	
107.	Adriana Fuliș, Ionuț Ledeti *, Gabriela Vlase, Titus Vlase	Physico-chemical solid-state characterization of pharmaceutical pyrazolones: An unexpected thermal behaviour	Journal of Pharmaceutical and Biomedical Analysis, 81–82, July–August 2013, 44–49 DOI: 10.1016/j.jpba.2013.03.018	2.829	2013	Coresp	
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109.	Adriana Fuliș#, Ionuț Ledeti #, Gabriela Vlase#, Călin Popoiu#, Alina Heghes#, Mihai Bilanin#, Titus Vlase#, Dorina Gheorgheosu, Marius Craina, Simona Ardelean, Otilia Mărginean, Liana Moș	Thermal behaviour of procaine and benzocaine Part II: compatibility study with some pharmaceutical excipients used in solid dosage forms	Chemistry Central Journal, 2013, 7:140. DOI: 10.1186/1752-153X-7-140	1.663	2013	Co-author	
110.	Ionuț Ledeti , Georgeta Simu, Gabriela Vlase, Germaine Săvoiu, Titus Vlase, Lenuta-Maria Șuta, Călin Popoiu*, Adriana Fuliș	Synthesis and Solid-State Characterization of Zn(II) Metal Complex with Acetaminophen.	Revista de Chimie –Bucharest, 2013, 64(10), 1127-1130.	0.677	2013	First author	
111.	Lenuta-Maria Suta, Lavinia Vlaia*, Adriana Fuliș, Ionuț Ledeti , Daniel Hadaruga, Constantin Mircioiu	Evaluation study of the inclusion complexes of some oxicams with 2-hydroxypropyl-β-cyclodextrin	Revista de Chimie –Bucharest, 2013; 64(11):1279-1283.	0.677	2013	Co-author	
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113.	Cristina Dehelean, Codruța Șoica*, Ionuț Ledeti , Mihaela Aluas, Istvan Zupko, Atena Gălușcan, Simona Cinta-Pinzaru,	Study of the betulon enriched birch bark extracts effects on human carcinoma cells and ear	Chemistry Central Journal, 2012, 6, article no. 137, 1-9 DOI:10.1186/1752-153X-6-137	3.281	2012	Co-author	

	Melania Munteanu	inflammation					
114.	Bogdan Tița*, Adriana Fuliș, Geza Bandur, Ionuț Ledeti , Dumitru Tița	Application of thermal analysis to study the compatibility of sodium diclofenac with different pharmaceutical excipients	Revista de Chimie –Bucharest, 62(4), 2011, 443–454.	0.599	2011	Co-author	
115.	Vasile Bercean*, Ionuț V. Ledeti , Valentin Badea, Mihaela Bălan, Carol Csunderlik	New heterocyclic tioethers derived from 3-substituted-4H-4-amino-5-mercapto-1,2,4-triazoles and succinic acid	Revista de Chimie –Bucharest, 61(11), 2010, 1028-1030.	0.693	2010	Co-author	
116.	Ionuț V. Ledeti , Vasile Bercean*, Ionuț M. Tănase, Andreea Creangă, Valentin Badea, Carol Csunderlik	New azomethine Derivatives of 3-substituted-4H-4-amino-5-Ethoxycarbonyl-methylsulfanyl-1,2,4-triazoles as Potential Anti-inflammatory Agents	Revista de Chimie –Bucharest, 61(10), 2010, 935-937.	0.693	2010	First author	
117.	Ionuț V. Ledeti *, Vasile N. Bercean, Valentin Badea, Mihaela Bălan, Carol Csunderlik	The alkylation of 1H-5-mercapto-3-phenyl -1,2,4-triazole and 4H-4-amino-5-mercapto-3-phenyl -1,2,4-triazole	Revista de Chimie –Bucharest, 61(9), 2010, 833-837.	0.693	2010	First author	

B1.2 ISI PROCEEDING PAPERS PUBLISHED IN EXTENSO (*corresponding authors; # authors with equal contribution)

No.	Authors	Title of article	Conference/Journal	IF	Year of IF	Author
1.	Emiliana-Laura Andreici Eftimie*, Roxana Roman, Mirela Nicolov, Ionuț Ledeti , Zoltan Szabadai, Nicolae M. Avram	DFT Calculation of Vibrational Frequencies for Betulinic Acid Methanol Monosolvate	TIM15-16 PHYSICS CONFERENCE Edited by: Vizman, D; Popescu, A Book Series: AIP Conference Proceedings Volume: 1796, Article Number: 030012, DOI: 10.1063/1.4972377 Published: 2017 Conference: TIM15-16 Physics Conference Location: W Univ Timisoara, Phys Fac, Timisoara, ROMANIA Date: MAY 26-28, 2016	-	-	Co-author
2.	Adriana Fuliș, Gabriela Vlase, Anamaria Todea, Titus Vlase, Ionuț Ledeti *	Thermal Characterization of Polymeric Coatings for Pharmaceutical Dosage Forms	Macromolecular Symposia 06/2015; 352(1):59-65. DOI:10.1002/masy.201400154	0.913	2015	Coresp

B1.3 ISI MEETING ABSTRACTS

No.	Authors	Title of article	Conference/Journal	IF	Year of IF	Author
1.	Valentina Oana Buda, Olivia Dalleur, Andreea Prelipcean, Dana Emilia Man, Octavian Cretu, Minodora Andor, Corina Danciu, Ionuț Ledeti , Lucian Petrescu	Misuse of Drugs in Romanian Elderly Population	Atherosclerosis Volume 331 Page E269-E270 Meeting Abstract P668 Published AUG 2021 Indexed 2021-09-23 Document Type Meeting Abstract	6.851	2021	Co-author
2.	Valentina Oana Buda, Andreea Prelipcean, Minodora Andor, Carmen Cristescu, Maria Suci, Liana Suci, Maria Cristiana Mabda, Mirela Voicu, Corina Danciu, Ionuț Ledeti , Lucian Petrescu, Olivia Dalleur	Excessive Prescription of NSAIDs and Theophylline in Primary Care Setting of Romanian Elderly Population	Atherosclerosis Volume 331 Page E270-E270 Meeting Abstract P669 Published AUG 2021 Indexed 2021-09-23 Document Type Meeting Abstract	6.851	2021	Co-author

B2. SCIENTIFIC PAPERS PUBLISHED IN BDI JOURNALS

No.	Authors	Title of article	Journal	Author
1.	Amalia Ridichie, Adriana Ledeti*, Denisa Ivan,	Solid-State Characterization of Mupirocin and	Timisoara Med. 2023, 2023(2),	Last author

	Carmen Tomoroga, Laura Sbârcea, Lenuța-Maria Șuta, Răzvan Bertici, Anca Dragomirescu, Florentin Crăineanu, Ionuț Ledeti	Metronidazole	3; doi: 10.35995/tmj20230203
2.	Denisa Cîrcioban, Ionuț Ledeti* , Gabriela Vlase, Titus Vlase, Adriana Ledeti	Solid State Stability and Preformulation Studies for Acetylcholinesterase Inhibitor Drug Tacrine	Timisoara Med. 2020, 2020(1), 4; doi:10.35995/tmj20200104. Coresp
3.	I. V. Ledeti , Andreea A. Alexa, V. N. Bercean	Structural NMR Analysis of Triazolic Compounds Derived From Isonicotinic Acid	Annals of West University of Timișoara, Series Chemistry 2011, 20(1), 81-86 First author
4.	I. V. Ledeti , V. N. Bercean, Andreea A. Alexa	Novel Complexes of Copper (II) and Cadmium (II) with S-functionalised 1,2,4-Triazolic Ligand: Vibrational Study	Annals of West University of Timișoara, Series Chemistry 2011, 20(1), 87-93 First author
5.	A.A. Creangă, V.N. Bercean, V. Badea, I. Ledeti , Carol Csunderlik	Benzoylation of thiosemicarbazide	Chem. Bull. "Politehnica" Univ. (Timișoara), 53(67), 1-2, 2008, 45-49. Co-author

C. ABSTRACTS FROM INTERNATIONAL AND NATIONAL CONFERENCES (selection)

1.	KINETIC INVESTIGATION OF OXIDATIVE THERMAL DECOMPOSITION OF LEVONORGESTREL Amalia Ridichie, Adriana Ledeti, Francisc Peter, Ionuț Ledeti The 16 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 July 2023, Porto, Portugal. BOOK OF ABSTRACTS, ISBN 978-989-35015-3-5, P.B3, p.79		
2.	THERMAL STABILITY AND DECOMPOSITION OF OLMESARTAN MEDOXOMIL. Bianca Baul, Minodora Andor, Dana Emilia Man, Valentina Buda, Adriana Ledeti, Denisa Cîrcioban, Sebastian Simu, Carmen Tomoroga, Francisc Peter, Ionuț Ledeti The 16 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 July 2023, Porto, Portugal. BOOK OF ABSTRACTS, ISBN 978-989-35015-3-5, P.B4, p.80		
3.	KINETIC ANALYSIS OF NON-ISOTHERMAL DECOMPOSITION OF GESTRINONE Amalia Ridichie, Adriana Ledeti, Gerlinde Rusu, Francisc Peter, Ionuț Ledeti The 16 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 July 2023, Porto, Portugal. BOOK OF ABSTRACTS, ISBN 978-989-35015-3-5, P.B5, p.81		
4.	COMPATIBILITY STUDY OF MIRTAZAPINE WITH SEVERAL EXCIPIENTS USED IN PHARMACEUTICAL DOSAGE FORMS EMPLOYING THERMAL AND NON-THERMAL METHODS Denisa Cîrcioban, Adriana Ledeti, Amalia Ridichie, Titus Vlase, Ionuț Ledeti , Amalia Bradu, Alexandru Pahomi, Gabriela Vlase The 16 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 July 2023, Porto, Portugal. BOOK OF ABSTRACTS, ISBN 978-989-35015-3-5, P.C8, p.89		
5.	PREPARATION AND INSTRUMENTAL SCREENING OF BINARY ADDUCTS CONTAINING MOXONIDINE. Bianca Baul, Adriana Ledeti, Gabriela Vlase, Titus Vlase, Francisc Peter, Ionuț Ledeti The 16 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 July 2023, Porto, Portugal. BOOK OF ABSTRACTS, ISBN 978-989-35015-3-5, P.C9, p.90		
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7.	KINETICS OF THERMAL DEGRADATION OF PHARMA GRADE SULFOBUTYLETHER SODIUM BETACYCLODEXTRIN Claudia Temereancă, Adriana Ledeti, Gabriela Vlase, Cristina Trandafirescu, Valentina Buda, Denisa Cîrcioban, Laura Sbârcea, Titus Vlase, Ionuț Ledeti 31 st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 October 2022, Reșița – Romania BOOK OF ABSTRACTS, PP14, p.39		
8.	INSTRUMENTAL INVESTIGATIONS OF TELMISARTAN-AMINOACIDS BINARY ADDUCTS Bianca Baul, Denisa Cîrcioban, Laura Sbârcea, Adriana Ledeti, Gabriela Vlase, Titus Vlase, Elisabeta Atyim, Renata-Maria Văruț, Francisc Peter, Ionuț Ledeti 31 st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 October 2022, Reșița – Romania BOOK OF ABSTRACTS, PP15, p.40		
9.	HEPTAKIS(2,6-DI-O-METHYL)-B-CYCLODEXTRIN INCLUSION COMPLEX OF OLMESARTAN MEDOXOMIL. COMPATIBILITY WITH EXCIPIENTS Laura Sbârcea, Bianca Baul, Adriana Ledeti, Paul Barvinschi, Gabriela Vlase, Denisa Cîrcioban, Lenuța-Maria Șuta, Francisc Peter, Ionuț Ledeti 31 st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 October 2022, Reșița – Romania BOOK OF ABSTRACTS, PP16, p.41		
10.	THEORETICAL AND INSTRUMENTAL APPROACH FOR THE DEVELOPMENT OF CO-CRYSTALS WITH MIRTAZAPINE AND OPIPRAMOL Denisa Cîrcioban, Ionuț Ledeti , Adriana Ledeti, Titus Vlase, Renata Văruț, Gabriela Vlase 31 st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 October 2022, Reșița – Romania BOOK OF ABSTRACTS, PP18, p.43		
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- 14.** HOST-GUEST INTERACTIONS AND FORMATION OF TERNARY INCLUSION COMPLEXES - NAPROXEN: OMEPRAZOLE: CYCLODEXTRINS
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- 16.** OBTINEREA COMPLEXILOR DE INCLUZIUNE A ITRACONAZOLULUI CU CICLODEXTRINE PENTRU ÎMBUNĂTĂȚIREA BIODISPONIBILITĂȚII (OBTAINING OF INCLUSION COMPLEXES OF ITRACONAZOLE WITH CYCLODEXTRINS FOR BIOAVAILABILITY)
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- 18.** THERMAL STABILITY OF ANTIHYPERTENSIVE DRUG MOXONIDINE – AN ISOCONVERSIONAL KINETIC STUDY
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- 25.** SOLID-STATE COMPATIBILITY STUDY BETWEEN PREDNISON AND PHARMACEUTICAL EXCIPIENTS
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26. THERMAL ANALYSIS AND MOLECULAR MODELLING OF INCLUSION COMPLEXES CONTAINING ARTESUNATE
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163.	NOI COLORANTI PIRAZOLIL-AZO-FENOLICI COMPLEXABILI, INTERMEDIARI IN SINTEZA PIRAZOLO[5,1-C]BENZO[1,2-E][1,2,4]TRIAZINELOR Vasile-Nicolae Bercean, Sabina Nițu, Ionuț Ledeti , Valentin Badea, Carol Csunderlik XXX-th Romanian Chemistry Conference, October 8-10 2008 Călimănești-Căciulata, Vâlcea, Romania, P.S.I.-45.

D. ORAL COMMUNICATIONS AND PLENARY LECTURES

1.	SOLID-STATE STABILITY AND PREFORMULATION STUDIES OF ETHYL-NORGESTRIENONE Amalia Ridichie, Adriana Ledeti, Laura Sbârcea, Francisc Peter, Ionuț-Valentin Ledeti 32nd Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR32), 3rd of November 2023, Măgurele – Romania, BOOK OF ABSTRACTS, OP6, p.20
2.	SOLID-STATE CHARACTERIZATION OF MUPIROCIN AND METRONIDAZOLE Amalia Ridichie, Adriana Ledeti, Anca Dragomirescu, Laura Sbârcea, Denisa Ivan, Ionuț-Valentin Ledeti 32nd Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR32), 3rd of November 2023, Măgurele – Romania, BOOK OF ABSTRACTS, OP9, p.23
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4.	IMPLEMENTATION OF THERMOANALYTICAL TECHNIQUES IN INVESTIGATION OF PHARMACEUTICALS Ionuț Ledeti Invited lecture at 31 st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 October 2022, Reșița – Romania BOOK OF ABSTRACTS, IL2, p.15
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7.	THERMAL ANALYSIS – HERE, THERE AND EVERYWHERE IN PHARMACEUTICAL SCIENCES Ionuț Ledeti Plenary lecture at The 13th European Symposium on Thermal Analysis and Calorimetry (ESTAC13), 19-22 September 2022, Palermo, Italy, www.estac13.org. BOOK OF ABSTRACTS, p.16 Judit Simon ESTAC Award 2022, for recognition of those under 40 who achieved outstanding results in the field of thermal analysis and calorimetry
8.	INSTRUMENTAL INVESTIGATIONS OF PROMESTRIENE - FIRST REPORT REGARDING THE SOLID STATE CHARACTERIZATION AND COMPATIBILITY WITH PHARMACEUTICAL EXCIPIENTS Cosmina Bengescu, Adriana Ledeti, Tudor Olariu, Denisa Cîrcioban, Cornelia Muntean, Gabriela Vlase, Titus Vlase, Carmen Tomoroga, Anca Octavia Dragomirescu, Daniela Dascălu, Lenuța-Maria Șuta, Ionuț Ledeti 30 th Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR30), 15-16 October 2021, Bucharest – Romania
9.	INSTRUMENTAL SCREENING OF SOLID-STATE PREFORMULATION FOR TWO ATYPICAL ANTIPSYCHOTIC AGENTS: ARIPIPRAZOLE AND RISPERIDONE Ionuț-Mihai Tănase, Denisa Cîrcioban, Adriana Ledeti, Gabriela Vlase, Titus Vlase, Laura Sbârcea, Lenuța-Maria Șuta, Germaine Săvoiu-Balint,

	Daniela Dascălu, Ionuț Ledeti 30 th Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR30), 15-16 October 2021, Bucharest – Romania
10.	THERMAL ANALYSIS RESEARCH IN THE TIME OF COVID19 - PLANS AND CHANGES Ionuț Ledeti , Denisa Cîrcioaban, Laura Sbârcea, Anca Dragomirescu, Tudor Olariu, Lenuța Șuta, Adriana Ledeti 29 th Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, Wednesday, 23 rd of December 2020, Zoom platform, 16:00-19:00
11.	DIRECȚII DE CERCETARE ÎN CHIMIA FIZICĂ A MEDICAMENTULUI-PREFORMULARE CLASICĂ VS. INOVARE? Ionuț Ledeti Realizări științifice și profesionale la ceas aniversar, alumni Chimie CBG-UVT, Workshop cu participare internațională, 5 iunie 2018
12.	WS: CUM SE REALIZEAZĂ O LUCRARE ȘTIINȚIFICĂ? Ionuț Ledeti Invitație din partea LSFT, cu prilejul Galei Studenților Farmaciști din România, ediția a VI-a, 3-6 decembrie 2015, Aula Magna UMFVB Timișoara, 5 decembrie 2015
13.	SOLID-STATE CHARACTERIZATION OF MICOPHENOLIC ACID Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Lenuta-Maria Șuta, Ionel Ciucanu, Adriana Fuliș Drug Discovery 2015, 11-13 august 2015, Vol. 4 Issue 2, ISSN 2169-0138 DDO, p.48 Proceedings of International Conference and Expo on Drug Discovery and Designing, Frankfurt, Germany
14.	COMPARATIVE THERMAL STABILITY OF TWO SIMILAR-STRUCTURE HYPOLIPIDEMIC AGENTS – SIMVASTATIN AND LOVASTATIN. KINETIC STUDY Ionuț Ledeti , Gabriela Vlase, Titus Vlase, Ionel Ciucanu, Adriana Fuliș Proceedings of the 12 th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2015) held in Girona, 17-19 June 2015, ISBN: 13-978-84-606-8873-0, p. 76
15.	STUDII PRIVIND SINTEZA, CHARACTERIZAREA, COMPORTAREA FIZICO-CHIMICĂ ȘI EVALUAREA BIOACTIVITĂȚII PRIN SCREENING COMPLEX A UNOR DERIVAȚI TRIAZOLICI ȘI TRITERPENICI Ionuț Ledeti Zilele Academice Timișene, Ediția a XIV-a, Secțiunea Medicină, 28 mai 2015, Simpozion IV – Tineri cercetători**
16.	SPECTROSCOPIC AND THERMAL CONTRIBUTIONS REGARDING THE SYNTHESIS OF BETULONIC ACID BY SELECTIVE OXIDATION OF BETULIN A. Fuliș, V. Bercean, G. Vlase, T. Vlase, I. Ledeti ICCE-22; 22 st Annual International Conference on Composites/Nano Engineering, 13-19 July 2014, Saint Julian, Malta, Session 5A Bio2
17.	INFLUENȚA VARIABILELOR DE FORMULARE ASUPRA CEDĂRII MELOXICAMULUI DIN HIDROGELURI Șuta LM, Belu I, Vlaia L, Fuliș A, Ledeti I , Mircioiu C. Zilele UMF din Craiova, a XLIV-a ediție, 2014, Craiova, 6-7 iunie 2014, p.422
18.	SYNTHESIS, THERMAL BEHAVIOUR AND KINETIC STUDY OF A NEW TRIAZOLIC ZINC(II) COMPLEX Fuliș A., Ledeti I. , Vlase G., Szollossi A., Vlase, T. Zilele Academice Timișene Ediția a XIII-a, Secțiunea Medicină, 23 mai 2013, Timișoara, p. 10-11
19.	Approaches regarding the synthesis of potentially anti-inflammatory compounds containing 1,2,4-triazolyl thioacetate moiety Ionuț V. Ledeti , Vasile N. Bercean, Cristina A. Dehelean, Codruța Șoica TIMMEDICA International Congress and Exhibition 4 th edition, Timișoara, Romania, June 16-18, 2011

E. CITATIONS AND h-INDEX

- **h-index Google Scholar: 21; i10-index: 63; Citations from Google Scholar: 1.580**
- **h-index Web of Science: 20; Citations from Web of Science: 1.474**
- **h-index Scopus: 20; Citations from Scopus: 1.494**

F. AWARDED PAPERS

1. Risperidone/Randomly Methylated beta-Cyclodextrin Inclusion Complex-Compatibility Study with Pharmaceutical Excipients
LAURA SBÂRCEA, IONUȚ-MIHAI TĂNASE, ADRIANA LEDEȚI, DENISA CÎRCIOBAN, GABRIELA VLASE, PAUL BARVINSCHI, MARINELA MICLĂU, RENATA-MARIA VĂRUȚ, OANA SUCIU, **IONUȚ LEDEȚI**
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2. Encapsulation of Risperidone by Methylated beta-Cyclodextrins: Physicochemical and Molecular Modeling Studies
LAURA SBARCEA, IONUT-MIHAI TANASE, ADRIANA LEDETI*, DENISA CIRCIOBAN, GABRIELA VLASE, PAUL BARVINSCHI, MARINELA MICLAU, RENATA-MARIA VARUT, CRISTINA TRANDAFIRESCU, **IONUT LEDETI**
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3. Instrumental analysis and molecular modelling of inclusion complexes containing artesunate
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Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2021-55137
4. Thermal stability and kinetic degradation study for dihydroartemisinin

- DENISA CIRCIOBAN, ADRIANA LEDETI*, GABRIELA VLASE, TITUS VLASE, CRISTINA DEHELEAN, **IONUT LEDETI**
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5. Compatibility studies with pharmaceutical excipients for aripiprazole-heptakis (2,6-di-O-methyl)-beta-cyclodextrin supramolecular adduct
IONUȚ-MIHAI TĂNASE, LAURA SBARCEA*, ADRIANA LEDEȚI, PAUL BARVINSCHI, DENISA CIRCIOBAN, GABRIELA VLASE, RENATA-MARIA VARUȚ, **IONUT LEDETI**
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2021-53613
 6. Physicochemical characterization and molecular modeling study of host-guest systems of aripiprazole and functionalized cyclodextrins
IONUȚ-MIHAI TĂNASE, LAURA SBĂRCEA*, ADRIANA LEDEȚI, GABRIELA VLASE, PAUL BARVINSCHI, RENATA-MARIA VĂRUȚ, ANCA DRAGOMIRESCU, CARMEN AXENTE, **IONUȚ LEDEȚI**
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Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-50178
 8. Solid-state stability and kinetic study of three glucocorticoid hormones: prednisolone, prednisone and cortisone
IONUȚ LEDEȚI, COSMINA BENGESCU, DENISA CIRCIOBAN, GABRIELA VLASE, TITUS VLASE, CARMEN TOMOROGA, VALENTINA BUDA, ADRIANA LEDEȚI*, ANCA DRAGOMIRESCU, MARIUS MURĂRIU
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-50098
 9. Preformulation studies for atorvastatin calcium
MIHAELA CRISTEA, BIANCA BAUL, **IONUȚ LEDEȚI***, ADRIANA LEDEȚI, GABRIELA VLASE, TITUS VLASE, BOŽENA KAROLEWICZ, OANA ȘTEFĂNESCU, ANCA OCTAVIA DRAGOMIRESCU, CEZARA MUREȘAN, DAN-SIMION CIPU, DANA VELIMIROVICI, MIRCEA ȘTEFĂNESCU
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-50091
 10. Betulonic acid-cyclodextrins inclusion complexes
LAURA SBĂRCEA, ADRIANA LEDEȚI*, LUCREȚIA UDRESCU, RENATA-MARIA VĂRUȚ, PAUL BARVINSCHI, GABRIELA VLASE, **IONUȚ LEDEȚI**
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-50082
 11. Preparation, physicochemical characterization and biological activity evaluation of some inclusion complexes containing artesunate
DENISA CIRCIOBAN, ADRIANA LEDETI*, GABRIELA VLASE, **IONUT LEDETI**, TITUS VLASE, RENATA VARUȚ, IOANA-ZINUCA PAVEL, CRISTINA DEHELEAN
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-49971
 12. Albendazole-cyclodextrins binary systems Thermal and spectral investigation on drug-excipient interaction
CRISTINA TRANDAFIRESCU#, **IONUȚ LEDEȚI#**, CODRUȚA ȘOICA*, ADRIANA LEDEȚI, GABRIELA VLASE, FLORIN BORCAN, CRISTINA DEHELEAN, DORINA CORICOVAC, ROXANA RACOVICĂNEANU, ZOLTĂN AIGNER
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-49960
 13. Solid State Stability and Kinetics of Degradation for Candesartan-Pure Compound and Pharmaceutical Formulation
VALENTINA BUDA, BIANCA BAUL, MINODORA ANDOR, DANA EMILIA MAN, ADRIANA LEDEȚI*, GABRIELA VLASE, TITUS VLASE, CORINA DANCUI, PETRU MATUSZ, FRANCISC PETER, **IONUȚ LEDEȚI**
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2020-49930
 14. Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin
DENISA CIRCIOBAN, ADRIANA LEDETI, GABRIELA VLASE, ALINA MOACĂ, **IONUT LEDETI**, CLAUDIA FARCAȘ, TITUS VLASE, CRISTINA DEHELEAN
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2019-30648
 15. Kinetics of heterogeneous-induced degradation for artesunate and artemether
DENISA CIRCIOBAN, **IONUT LEDETI**, GABRIELA VLASE, ADRIANA LEDETI, CARMEN AXENTE, TITUS VLASE, CRISTINA DEHELEAN
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2019-30651
 16. Study of solid-state degradation of prochlorperazine and promethazine
IONUT LEDETI, AGNETA PUSZTAI, CEZARA MUREȘAN, DENISA CIRCIOBAN, GABRIELA VLASE, MARIUS MURĂRIU, LENUȚA-MARIA ȘUTA, TITUS VLASE, ADRIANA LEDETI, OANA SUCIU, VALENTINA BUDA, PETRU MATUSZ
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2019-30654
 17. Study of kinetic characteristics of 6-ethyl chenodeoxycholic acid and deoxycholic acid decomposition in non-isothermal conditions
IONUT LEDETI, AGNETA PUSZTAI, CEZARA MUREȘAN, DENISA CIRCIOBAN, GABRIELA VLASE, CARMEN AXENTE, LENUȚA-MARIA ȘUTA, TITUS VLASE, PETRU MATUSZ, ADRIANA LEDETI, OANA SUCIU, VALENTINA BUDA, MARIUS MURĂRIU
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2019-30657
 18. Decreased sEng plasma levels in hypertensive patients with endothelial dysfunction under chronic treatment with Perindopril
VALENTINA BUDA, MINODORA ANDOR, DANA EMILIA BAIBATA, RAMONA COZLAC, GABRIELA RADU, DORINA CORICOVAC, CORINA DANCUI, **IONUT LEDETI**, ADELINA CHEVERESAN, CRISTIAN NICA, PAUL TUDUCE, MIRELA CLEOPATRA TOMESCU
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2019-37360
 19. Evaluation of thermal stability and kinetic of degradation for levodopa in non-isothermal conditions
ADRIANA LEDETI, TUDOR OLARIU, ANGELICA CAUNII, ANGELICA CAUNII, GABRIELA VLASE, DENISA CIRCIOBAN, BIANCA BAUL, **IONUT LEDETI**, TITUS VLASE, MARIUS MURĂRIU
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2018- 26319
 20. Kinetic study for solid-state degradation of mental disorder therapeutic agents: amitriptyline, desipramine and imipramine
ADRIANA LEDETI, GABRIELA VLASE, TITUS VLASE, DENISA CIRCIOBAN, CRISTINA DEHELEAN, **IONUT LEDETI**
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2018- 26330
 21. Binary adduct formation of desipramine with dicarboxylic acids An instrumental study
ADRIANA LEDETI, GABRIELA VLASE, TITUS VLASE, DENISA CIRCIOBAN, CRISTINA DEHELEAN, **IONUT LEDETI**, LENUȚA-MARIA ȘUTA
Premiată UEFISCDI PN-III-P1-1.1-PRECISI-2018-26334

22. Preformulation studies for nortriptyline. Solid-state compatibility with pharmaceutical excipients
IONUT LEDETI, MIHAELA BUDIUL, PETRU MATUSZ, GABRIELA VLASE, DENISA CIRCIOBAN, CRISTINA DEHELEAN, LENUTA-MARIA SUTA, ANGELICA CAUNII, ADRIANA LEDETI, TITUS VLASE, MARIUS MURARIU, SORIN BOLINTINEANU
 Premiata UEFISCDI PN-III-P1-1.1-PRECISI-2018-26544
23. Investigation of thermal-induced decomposition of iodoform
IONUT LEDETI, MARIUS MURARIU, GABRIELA VLASE, TITUS VLASE, NICOLAE DOCA, ADRIANA LEDETI*, LENUTA-MARIA SUTA, TUDOR OLARIU
 Premiata UEFISCDI PN-III-P1-1.1-PRECISI-2017-19358
24. Compatibility study between antiparkinsonian drug Levodopa and excipients by FTIR spectroscopy, X-ray diffraction and thermal analysis
IONUT LEDETI, SORIN BOLINTINEANU, GABRIELA VLASE, DENISA CIRCIOBAN, ADRIANA LEDETI, TITUS VLASE, LENUTA-MARIA SUTA, ANGELICA CAUNII, MARIUS MURARIU
 Premiata UEFISCDI PN-III-P1-1.1-PRECISI-2017-19360
25. Evaluation of solid-state thermal stability of donepezil in binary mixtures with excipients using instrumental technique
IONUT LEDETI, SORIN BOLINTINEANU, GABRIELA VLASE, DENISA CIRCIOBAN, CRISTINA DEHELEAN, LENUTA-MARIA SUTA, ANGELICA CAUNII, ADRIANA LEDETI, TITUS VLASE, MARIUS MURARIU
 Premiata UEFISCDI PN-III-P1-1.1-PRECISI-2017-19875
26. Comparative Solid-State Stability of Perindopril Active Substance vs. Pharmaceutical Formulation
 VALENTINA BUDA, MINODORA ANDOR, ADRIANA LEDETI, **IONUT LEDETI***, GABRIELA VLASE, TITUS VLASE, CARMEN CRISTESCU, MIRELA VOICU, LIANA SUCIU, MIRELA TOMESCU
 Premiata UEFISCDI PN-III-P1-1.1- PRECISI-2017-19877
27. Thermal stability of synthetic thyroid hormone L-thyroxine and L-thyroxine sodium salt hydrate both pure and in pharmaceutical formulations
IONUT LEDETI, ADRIANA LEDETI*, GABRIELA VLASE, TITUS VLASE, PETRU MATUSZ, VASILE BERCEAN, LENUTA MARIA SUTA, DOINA PICIU
 Premiata UEFISCDI PN-III-P1-1.1-PRECISI-2016-11865
28. Ketoprofen–cysteine equimolar salt. Synthesis, thermal analysis, PXRD and FTIR spectroscopy investigation
 ADRIANA FULIAS, GABRIELA VLASE, **IONUȚ LEDEȚI**, LENUȚA-MARIA ȘUTA
 Premiata UEFISCDI PN-II-RU-PRECISI- 2015-9-8634
29. Kinetic of solid state degradation of transitional coordinative compounds containing functionalized 1,2,4 -triazolic ligand
LEDETI IONUT, VLASE GABRIELA, VLASE TITUS, BERCEAN VASILE, FULIAS ADRIANA
 Premiata UEFISCDI PN-II-RU-PRECISI-2015-9-8666
30. Screening and characterization of cocrystal formation between carbamazepine and succinic acid
 ADRIANA FULIAS, GABRIELA VLASE, TITUS VLASE, LENUȚA-MARIA ȘUTA, CODRUȚA ȘOICA, **IONUȚ LEDEȚI**
 Premiata UEFISCDI PN-II-RU-PRECISI-2015-9-8701
31. Selection of solid-state excipients for simvastatin dosage forms through thermal and nonthermal techniques,
IONUȚ LEDEȚI, GABRIELA VLASE, TITUS VLASE, LENUȚA-MARIA ȘUTA, ANAMARIA TODEA, ADRIANA FULIAS
 Premiata UEFISCDI PN-II-RU-PRECISI- 2015-9-8860
32. Kinetic analysis of solid-state degradation of pure pravastatin versus pharmaceutical formulation
LEDETI IONUT, VLASE GABRIELA, VLASE TITUS, FULIAS ADRIANA
 Premiata UEFISCDI PN-II-RU-PRECISI-2015-9-8887
33. Fosinopril sodium–hydroxypropyl-β-cyclodextrin inclusion complex. Thermal decomposition kinetics and compatibility studies
 SBARCEA LAURA, **LEDETI IONUT**, DRAGAN LIANA, KURUNCZI LUDOVIC, FULIAS ADRIANA, UDRESCU LUCRETIA
 Premiata UEFISCDI PN-II-RU-PRECISI-2015-9-9059
34. Synthesis and Degradation of Schiff Bases Containing Heterocyclic Pharmacophore
IONUȚ LEDEȚI, ANDA ALEXA, VASILE BERCEAN, GABRIELA VLASE, TITUS VLASE, LENUȚA-MARIA ȘUTA, ADRIANA FULIAS
 Premiata UEFISCDI PN-II-RU-PRECISI- 2015-9-8284
35. New methods to obtain carboxylic acids by oxidation reactions of 1,2-ethanediol with metallic nitrates
 NICULESCU MIRCEA, **LEDETI IONUT**, BIRZESCU MIHAIL
 Premiata UEFISCDI PN-II-RU-PRECISI-2014-8-7095
36. Synthesis and thermal behavior of new ambazone complexes with some transitional cations
 SOICA CODRUTA, FULIAS ADRIANA, VLASE GABRIELA, DEHELEAN CRISTINA, VLASE TITUS, **LEDETI IONUT**
 Premiata UEFISCDI PN-II-RU-PRECISI-2014-8-7272
37. Physico-chemical solid-state characterization of pharmaceutical pyrazolones: An unexpected thermal behavior
 FULIAS ADRIANA VIOLETA, **LEDETI IONUT VALENTIN**, VLASE GABRIELA, VLASE TITUS
 Premiata UEFISCDI PN-II-RUPRECISI-2013-7-3693
38. Study of the betulin enriched birch bark extracts effects on human carcinoma cells and ear inflammation
 DEHELEAN CRISTINA, SOICA CODRUTA, **LEDETI IONUT**, ALUAS MIHAELA, GALUSCAN ATENA, PINZARU SIMONA, MUNTEANU MELANIA
 Premiata UEFISCDI PN-II-RUPRECISI-2013-7-3924
39. Comparative kinetic analysis on thermal degradation of some cephalosporins using TG and DSC data
 FULIAS ADRIANA VIOLETA, VLASE GABRIELA, VLASE TITUS, SOICA CODRUTA, HEGHES ALINA, CRAINA MARIUS, **LEDETI IONUT**
 Premiata UEFISCDI PN-II-RUPRECISI-2013-7-3970

G. RESEARCH PROJECTS AND RESULTING PUBLICATIONS

- 1) **Project director**, Programul II-C2-TC-2014, Universitatea de Medicină și Farmacie „Victor Babeș” din Timișoara, SYNT Project, 5000 euro, 2014, 5 papers:
 1. Kinetic of solid-state degradation of transitional coordinative compounds containing functionalized 1,2,4-triazolic ligand
 By: Ledeti, Ionuț; Vlase, Gabriela; Vlase, Titus; et al.

- JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 121 Issue: 3 Pages: 1049-1057 Published: SEP 2015
2. Preparation and Antibacterial Properties of Substituted 1,2,4-Triazoles
By: Ledeti, Ionut; Bercean, Vasile; Alexa, Anda; et al.
JOURNAL OF CHEMISTRY Article Number: 879343 Published: 2015
 3. Investigations on the Thermal-Induced Degradation of Transitional Coordination Complexes Containing (3H-2-thioxo-1,3,4-thiadiazol-5-yl)thioacetate Moiety
By: Ilici, Maria; Bercean, Vasile; Venter, Monica; et al.
REVISTA DE CHIMIE Volume: 65 Issue: 10 Pages: 1142-1145 Published: OCT 2014
 4. Synthesis and Solid - state Characterization of a Cobalt(II) Triazolic Complex
By: Ledeti, Ionut; Vlase, Titus; Vlase, Gabriela; et al.
REVISTA DE CHIMIE Volume: 65 Issue: 8 Pages: 897-902 Published: AUG 2014
 5. Alternative Synthesis of Paracetamol and Aspirin under Non-conventional Conditions
Record contains structures
By: Olariu, Tudor; Suta, Lenuta-Maria; Popoiu, Calin; et al.
REVISTA DE CHIMIE Volume: 65 Issue: 6 Pages: 633-635 Published: JUN 2014
- 2) **Project responsible (Partener P1)**, Universitatea de Medicină și Farmacie „Victor Babeș” din Timișoara, Programul Parteneriate în cercetarea fundamentală inovativă UMFT, III-C1-PCFI-2014/2015, Proiect SYNTANTITUM, „Sinteza unor compuși cu potențială activitate antitumorală prin reacții de derivatizare și caracterizarea acestora prin tehnici hifenate. Evaluarea activității antiangiogenice, antineoplazice și antiinflamatoare”, Proiect director: Assoc. prof. FULIAȘ ADIANA-VIOLETA, PhD., 30.000 euro, 2014-2015: 6 papers
1. Solid-State Characterization and Biological Activity of Betulonic Acid Derivatives
By: Ledeti, Ionut; Avram, Stefana; Bercean, Vasile; et al.
MOLECULES Volume: 20 Issue: 12 Pages: 22691-22702 Published: DEC 2015
 2. Synthesis and Degradation of Schiff Bases Containing Heterocyclic Pharmacophore
By: Ledeti, Ionut; Alexa, Anda; Bercean, Vasile; et al.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 16 Issue: 1 Pages: 1711-1727 Published: JAN 2015
 3. Study on Obtaining 3-oxolup-20(29)-en-28-oic Acid (Betulonic Acid) from (3 beta)-lup-20(29)-en-3,28-diol (betulin)
By: Ledeti, Ionut; Bosca, Claudiu Silviu; Cosma, Cristian; et al.
REVISTA DE CHIMIE Volume: 65 Issue: 11 Pages: 1289-1293 Published: NOV 2014
 4. Thermal behaviour of a modified encapsulation agent Heptakis-6-iodo-6-deoxy-beta-cyclodextrin
By: Fulias, Adriana; Vlase, Gabriela; Soica, Codruta; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 118 Issue: 2 Pages: 961-966 Published: NOV 2014
 5. Thermal degradation of B-group vitamins: B-1, B-2 and B-6
By: Fulias, Adriana; Vlase, Gabriela; Vlase, Titus; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 118 Issue: 2 Pages: 1033-1038 Published: NOV 2014
 6. Thermal decomposition, kinetic study and evolved gas analysis of 1,3,5-triazine-2,4,6-triamine
By: Ledeti, Ionut; Vlase, Gabriela; Vlase, Titus; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 118 Issue: 2 Pages: 1057-1063 Published: NOV 2014
- 3) **Postdoctoral researcher, member of the target group** - Lecturer Ionuț-Valentin Ledeti, PhD, proiect POSDRU/159/1.5/S/137750, Universitatea de Vest din Timișoara, „Studiul interacțiunilor induse termic la compuși bioactivi prin tehnici hifenate și complementare”, 2014-2015, 5 papers
1. Solid-state preformulation studies of amiodarone hydrochloride
By: Ledeti, Adriana; Vlase, Gabriela; Vlase, Titus; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 126 Issue: 1 Pages: 181-187 Published: OCT 2016
 2. Selection of solid-state excipients for simvastatin dosage forms through thermal and nonthermal techniques
By: Ledeti, Ionut; Vlase, Gabriela; Vlase, Titus; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 121 Issue: 3 Pages: 1093-1102 Published: SEP 2015
 3. Kinetic analysis of solid-state degradation of pure pravastatin versus pharmaceutical formulation
By: Ledeti, Ionut; Vlase, Gabriela; Vlase, Titus; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 121 Issue: 3 Pages: 1103-1110 Published: SEP 2015
 4. Instrumental Analysis of Potential Lovastatin - excipient Interactions in Preformulation Studies
By: Ledeti, Ionut; Vlase, Gabriela; Vlase, Titus; et al.
REVISTA DE CHIMIE Volume: 66 Issue: 6 Pages: 879-882 Published: JUN 2015
 5. Analysis of Solid Binary Systems Containing Simvastatin
By: Ledeti, Ionut; Vlase, Gabriela; Ciucanu, Ionel; et al.
REVISTA DE CHIMIE Volume: 66 Issue: 2 Pages: 240-243 Published: FEB 2015
- 4) **Project director** COMPETIȚIA INTERNĂ A UMF “VICTOR BABEȘ” DIN TIMIȘOARA, Programul Parteneriate în cercetarea fundamentală inovativă UMFT, PIII-C3-PCFI-2016/2017-02, „Cercetări fundamentale interdisciplinare privind monitorizarea, evaluarea și corelarea proceselor litogenice cu aspectele etiopatogenice prin screening instrumental inovativ (STONES)”, buget 135.000 RON, 8 publications:
1. Optimization of Hollow Aliphatic Polyurethane Particles Used as a Drug Delivery System
By: Trandafirescu, Cristina; Ledeti, Ionut; Coricovac, Dorina E.; et al.
MATERIALE PLASTICE Volume: 53 Issue: 2 Pages: 205-210 Published: JUN 2016
 2. Preformulation Studies for Albendazole A DSC and FTIR analysis of binary mixtures with excipients

- By: Trandafirescu, Cristina; Soica, Codruta; Ledeti, Adriana; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 3 Pages: 463-467 Published: MAR 2016
3. Non-isothermal Isoconversional Kinetic Study Regarding the Degradation of Albendazole
 By: Ledeti, Ionut; Vlase, Gabriela; Vlase, Titus; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 3 Pages: 549-552 Published: MAR 2016
 4. Correlations Between Morphology and Instrumental Analysis of Human Gallstones - Preliminary Study
 By: Murariu, Marius Sorin; Olariu, Sorin; Ivan, Codrut; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 3 Pages: 575-579 Published: MAR 2016
 5. Embedding of Biliary Calculi in Plastic Materials A viable solution for increasing their mechanical resistance during sampling
 By: Suta, Lenuta-Maria; Matusz, Petru; Ledeti, Adriana; et al.
 MATERIALE PLASTICE Volume: 53 Issue: 1 Pages: 19-22 Published: MAR 2016
 6. Solid-State Thermal Behaviour of Cholic Acid
 By: Suta, Lenuta Maria; Vlase, Gabriela; Ledeti, Adriana; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 2 Pages: 329-331 Published: FEB 2016
 7. Thermal Characterization of Cholesterol in Air vs. Nitrogen Atmosphere
 By: Suta, Lenuta-Maria; Vlase, Gabriela; Vlase, Titus; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 1 Pages: 84-86 Published: JAN 2016
 8. Solid State Stability of Cholesterol Preliminary kinetic analysis
 By: Suta, Lenuta-Maria; Vlase, Gabriela; Vlase, Titus; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 1 Pages: 113-115 Published: JAN 2016
- 5) **Postdoctoral researcher**, in the national project Tinere Echipe- PNII-RU-TE-2014-4-0515 "Neurodegenerarea și bolile cerebrale: O nouă abordare instrumentală de analiză și dezvoltare a unor forme farmaceutice", director ADRIANA-VIOLETA LEDEȚI (FULIAȘ), Budget : 495.000 lei, 9 papers
1. Evaluation of thermal stability and kinetic of degradation for levodopa in non-isothermal conditions
 By: Ledeti, Adriana; Olariu, Tudor; Caunii, Angelica; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 2 Pages: 1881-1888 Published: FEB 2018
 2. Kinetic study for solid-state degradation of mental disorder therapeutic agents Amitriptyline, desipramine and imipramine
 By: Ledeti, Adriana; Vlase, Gabriela; Vlase, Titus; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 1 Pages: 155-165 Published: JAN 2018
 3. Binary adduct formation of desipramine with dicarboxylic acids An instrumental study
 By: Ledeti, Adriana; Vlase, Gabriela; Vlase, Titus; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 1 Pages: 167-173 Published: JAN 2018
 4. Preformulation studies for nortriptyline Solid-state compatibility with pharmaceutical excipients
 By: Ledeti, Ionut; Budiul, Mihaela; Matusz, Petru; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 1 Pages: 191-199 Published: JAN 2018
 5. Evaluation of solid-state thermal stability of donepezil in binary mixtures with excipients using instrumental techniques
 By: Ledeti, Ionut; Bolinteanu, Sorin; Vlase, Gabriela; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 130 Issue: 1 Pages: 425-431 Published: OCT 2017
 6. Compatibility study between antiparkinsonian drug Levodopa and excipients by FTIR spectroscopy, X-ray diffraction and thermal analysis
 By: Ledeti, Ionut; Bolinteanu, Sorin; Vlase, Gabriela; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 130 Issue: 1 Pages: 433-441 Published: OCT 2017
 7. Comparative Stability of Levodopa Under Thermal Stress in both Oxidative and Inert Media
 By: Ledeti, Adriana; Vlase, Gabriela; Circioban, Denisa; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 12 Pages: 2648-2650 Published: DEC 2016
 8. Thermal stability of synthetic thyroid hormone L-thyroxine and L-thyroxine sodium salt hydrate both pure and in pharmaceutical formulations
 By: Ledeti, Ionut; Ledeti, Adriana; Vlase, Gabriela; et al.
 JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS Volume: 125 Pages: 33-40 Published: JUN 5 2016
 9. Thermal Stability of Desipramine and Imipramine
 By: Ledeti, Adriana; Vlase, Gabriela; Ledeti, Ionut; et al.
 REVISTA DE CHIMIE Volume: 67 Issue: 2 Pages: 336-338 Published: FEB 2016
- 6) **Project director** Tinere Echipe - Programul PN-III-P1-1.1-TE-2016-1165, Contract nr. TE125/10.10.2018 „Tehnici instrumentale hifenate și complementare de analiză, control și recuperare a compușilor bioactivi utilizați în terapii hormonale”, 2018-2020 (24 months), Budget: 450.000 RON; 2 publications
1. Stability and Compatibility Studies of Levothyroxine Sodium in Solid Binary Systems-Instrumental Screening
 By: Ledeti, Ionut; Romanescu, Mirabela; Circioban, Denisa; et al.
 PHARMACEUTICS Volume: 12 Issue: 1 Article Number: 58 Published: JAN 2020
 2. Solid-state stability and kinetic study of three glucocorticoid hormones: prednisolone, prednisone and cortisone
 By: Ledeti, Ionut; Bengescu, Cosmina; Circioban, Denisa; et al.
 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

Early Access: MAR 2020

- 7) **Postdoctoral researcher**, in national project Tinere Echipe - Programul PN-III-P1-1.1-TE-2019-1573, contract nr. TE101 „Sinteza enzimatică a unor oligoesteri biodegradabili prin-un procedeu verde de tip cascadă”, 2020-2022, Budget: 431.900 RON;

H. LIST OF THE 10 REPRESENTATIVE WORKS FOR OWN PROFESSIONAL ACHIEVEMENTS

1. **Ionuț Ledeti**, Mirabela Romanescu, Denisa Cercioban, Adriana Ledeti*, Gabriela Vlase, Titus Vlase, Oana Suci*, Marius Murariu*, Sorin Olariu, Pentru Matusz, Valentina Buda, Doina Piciu
Stability and Compatibility Studies of Levothyroxine Sodium in Solid Binary Systems-Instrumental Screening
Pharmaceutics, 2020, 12(1); art.58; ISSN 1999-4923 DOI: 10.3390/pharmaceutics12010058
<https://www.mdpi.com/1999-4923/12/1/58> IF(2020)=6.321
2. **Ionuț Ledeti**, Mihaela Budiul, Petru Matusz, Gabriela Vlase, Denisa Cercioban, Cristina Dehelean, Lenuta-Maria Suta, Angelica Caunii, Adriana Ledeti, Titus Vlase, Marius Murariu, Sorin Bolintineanu
Preformulation studies for nortriptyline. Solid-state compatibility with pharmaceutical excipients
Journal of Thermal Analysis and Calorimetry, 2018, 131(1); 191-199, ISSN: 1388-6150, DOI 10.1007/s10973-017-6269-5
<https://link.springer.com/article/10.1007/s10973-017-6269-5> IF(2018)= 2.471
3. **Ionuț Ledeti**, Agneta Pusztai, Cezara Mureșan, Denisa Cercioban, Gabriela Vlase, Carmen Axente, Lenuța-Maria Șuta, Titus Vlase, Petru Matusz, Adriana Ledeti*, Oana Suci, Valentina Buda, Marius Murariu
Study of kinetic characteristics of 6-ethyl chenodeoxycholic acid and deoxycholic acid decomposition in non-isothermal conditions
Journal of Thermal Analysis and Calorimetry, 2018, 134(1); 757-764; ISSN: 1388-6150, DOI: 10.1007/s10973-018-7660-6
<https://link.springer.com/article/10.1007/s10973-018-7660-6> IF(2018)= 2.471
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