PERSONAL INFORMATION

Name and surname	Nenad Janković
Date and place of birth	31.10.1985. Kragujevac
Scientific title	PhD
E-mail	nenad.jankovic@kg.ac.rs
Educational-scientific / educational-artistic field	Organic chemistry
University, Faculty, Organizational unit	University of Kragujevac/ Institute for Informational Technolgies/Department of Science
Research field and areas	Organic chemistry

EDUCATION

BACHELOR

Year	2011
Place	Kragujevac
Institution	Faculty of Science

MASTER STUDIES

Year	2012
Place	Kragujevac
Institution	Faculty of Science

DOCTORAL DISSERTATION

Year	2015
Place	Kragujevac
Institution	Faculty of Science
Title of doctoral dissertation	Experimental and theoretical investigation of the mechanism of formation of phenylselenyl ethers from some terpene alcohols
Scientific title	PhD

Research area	Organic chemistry

PROFESSIONAL BIOGRAPHY – ELECTION IN RESEARCH OR SCIENTIFIC TITLE

Date	Institution	Scientific title
01.07.2013.	Faculty of Science	Junior researcher
14.10.2015.	Faculty of Science	Researcher assistant
06.07.2016.	Faculty of Science	Research associate
24.02.2020.	Faculty of Science	Senior research associate

PROFESSIONAL BIOGRAPHY - TRAINING

Year	Institution	Duration
2017-2018	Faculty of Chemistry, University of Vigo, Spain	10 months

ENGAGEMENT IN THE FORMATION OF SCIENTIFIC PERSONNEL

2015-2020 (defended)- Jelena Petronijević, University of Kragujevac, Faculty of Science, Serbia
2019 to date- Emilija Milović, University of Kragujevac, Faculty of Science,
2020 to date- Teona Teodora Borović, University of Novi Sad, Faculty of Science

PARTICIPATION IN NATIONAL PROJECTS FINANCED BY MINISTRY OF EDUCATION/MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT/SCIENCE FUND OF THE REPUBLIC OF SERBIA:

1. Grant No. 172011, Ministry of Education, Science and Technological Development of Republic of Serbia, Investigation of the mechanism of the reaction of the complex transition metal ions with biologically significant molecules, 2011-2020,

2. Agreement on realization and financing of scientific research work of the Institute for Information Technologies Kragujevac (451-03-68/2022-14/200378), 2020-2022

PARTICIPATION IN INTERNATIONAL PROJECTS

1. Grant No. CTQ-2016-75023-C2-2-P by the Spanish Ministerio de Economía y Competitividad: In silico catalysis for the development of new synthetic methodologies, 2017-2020.
2. COST Action CA18202, NECTAR − Network for Equilibria and Chemical Thermodynamics Advanced Research, supported by COST (European Cooperation in Science and Technology), 2022-.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

1. Member of Serbian Chemical Society, 2008-
2. Member of S3 research group, UVigo, Spain, 2017-
3. Member of the Research Network on Selenium Sulfur and redox Catalysis (SeSRedCat), 2017-

ORGANIZATION OF NATIONAL/INTERNATIONAL SCIENTIFIC MEETINGS (CONFERENCES, CONGRESSES...)

1. 1st International Conference on Chemo and BioInformatics
Kragujevac, October 26-27, 2021 Serbia
2. Scientific and Organizing Committee member for International Conference on Solution Chemistry 38ICSC, Belgrade, 2023

LIST OF SCIENTIFIC PAPERS:

Monographs, Monographic studies, Thematic anthologies	**Sum 1**
N. Janković, Experimental and theoretical investigation of cycloetherification of linalool. Foundation Andrejević Belgrade, Serbia, 2013	

Papers published in scientific journals of international scientific importance (representative)	**Sum 46**

1. J. Petronijević, Z. Bugarčić, G.A. Bogdanović, S. Stefanović, N. Janković, An enolate ion as a synthon in biocatalytic synthesis of 3,4-dihydro-2(1H)-quinoxalinones and 3,4-dihydro-1,4-benzoxazin-2-ones: lemon juice as an alternative to hazardous solvents and catalysts, Green Chemistry, 2017, 19, 707-715.
2. N. Janković, S. Stefanović, J. Petronijević, N. Joksimović, S.B. Novaković, G.A. Bogdanović, J. Muškinja, M. Vraneš, Z. Ratković, Z. Bugarčić, Water-tuned tautomer-selective tandem synthesis of the 5,6-Dihydropyrimidin-4(3H)-ones, driven under the umbrella of sustainable chemistry, ACS Sustainable Chemistry Engineering, 2018, 6 (10), 13358–13366.
3. M. Vranes, J. Panić, A. Tot, S. Ostojic, D. Četojević-Simin, N. Janković, S. Gadzuric, Synthesis and thermophysical characterization of new biologically friendly agmatine-based ionic liquids and salts by experimental and computational approach, ACS Sustainable Chemistry Engineering, 2019, 7(12), 10773-10783.
4. E. Milović, N. Janković, J. Petronijević, N. Joksimović, M. Kosanić, T. Stanojković, I. Matić, N. Grozdanić, O. Klisurić, S. Stefanović, Synthesis, characterization, and biological evaluation of tetrahydropyrimidines: Dual-activity and mechanism of action. Pharmaceutics, 2022, 14(10), 2254.
5. M. Vraneš, T.T. Borović, P. Drid, T. Trivić, R. Tomaš, N. Janković, Influence of sodium salicylate on self-aggregation and caffeine solubility in water - a new hypothesis from experimental and computational data. Pharmaceutics, 2022, 14(11), 2304.

Proceedings of international scientific conferences (representative)	**Sum 20**

1. J. Pronijević, N. Joksimović, N. Janković, V. Divac, Synthesis of 3,4-dihydro-2(1H)-quinoxalinones-based potential pharmacophores in lemone juice, 24th Young Research Fellow Meeting, 8-10 February 2017, Paris, France, PC 083.
2. V. Stanojlović, N. Joksimović, N. Janković, Z. Bugarčić, Synthesis, characterization and cytotoxic activity of 2-hydroxy-4-aryl-4-oxo-2-butenoate, 24th Young Research Fellow Meeting, 8-10 February 2017, Paris, France, PC 085.

3. N. Janković, E. Milović, M. Vraneš, F. Bugarčić, Phenylseleno-induced Synthesis of Fused Bicyclic Thiazino- and Thiazolo-Pyrimidine, 14th International Conference on the Chemistry of Selenium and Tellurium, Book of Abstracts, PP14, Santa Margherita di Pula (CA), Italy, Flamingo Resort Hotel, June 3–7, 2019.

Proceedings of national scientific conferences (representative)	**Sum 15**
1. N. Janković, V. Stanojlović, J. Petronijević, N. Joksimović, Z. Bugarčić, Functionalization of 2-thioxo-1,2,3,4-tetrahydropyrimidine and synthesis of novel chalcones under solvent-free conditions, 52nd Meeting of the Serbian Chemical Society, Novi Sad, Republic of Serbia, May 29-30, 2015, Book of Abstracts, OH P07, p. 121. 2. N. Joksimović, N. Janković, V. Stanojlović, J. Petronijević, Synthesis and charactherization of novel pyrimidine tricyclic derivatives, Treća konferencija mladih hemičara Srbije, 2015, Beograd, 24. oktobar, Srpsko hemijsko drustvo, Book of Abstracts, HS P08, p. 35. 3. J. Petronijević, N. Joksimović, V. Stanojlović, N. Janković, Meldrum's acid as a C2-sinton, Treća konferencija mladih hemičara Srbije, 2015, Beograd, 24. oktobar, Srpsko hemijsko drustvo, Book of Abstracts, HS P11, p. 38.	

Monographs of national importance	**Sum**
/	

Scientific papers in national journals	**Sum 1**
1. N. Janković, et al. Double catalytic effect of $(PhNH_3)_2CuCl_4$ in a novel, highly efficient synthesis of 2-oxo and thioxo-1,2,3,4-tetrahydropyrimidines. Journal of Serbian Chemical Society, 2015, 80(5), 595–604.	

Technical solutions	**Sum**
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Patents	**Sum**

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CITATION OF SCIENTIFIC PAPERS

Over 400 citation (source Scopus)

BRIEF DESCRIPTION OF RESEARCH IN THE PREVIOUS PERIOD

Dr. Nenad Janković dealt with phenylseleno-induced heterocyclizations (experimentally and theoretically), that was the subject of his doctoral dissertation. Then, he developed green and sustainable methods of organic synthesis, primarily for the synthesis of Biginelli, as well as quinoxalinone, benzoxazinone and benzylidene derivatives. All the listed derivatives were subjected to pharmacological and biological studies. As a result of these studies, the most active compounds against lung and breast tumors were differentiated. These molecules are currently in the next phase of preclinical trials. The second part of the achieved results is related to the synthesis and application of pharmacologically active ionic liquids.

BRIEF DESCRIPTION OF PLANNED RESEARCH IN THE NEXT PERIOD

In forthcoming projects main goal will be to synthesized library of the tetrahydropyirimidnes as inhibitors of the specific biological targets.