

CURRICULUM VITAE



Surname: Bugarinović (born Jovanović)
First name: Jovana
E-mail: jovana.bugarinovic@pmf.kg.ac.rs
Date of birth: May 15, 1989.
Place of birth: Kragujevac
Country of birth: Serbia
Nationality: Serb
Citizenship: Serbian

➤ EDUCATION

Primary School: 1996 - 2004. „Stanislav Sremčević” primary school, Kragujevac, Serbia.

High School: 2004 - 2008. First Grammar School in Kragujevac, mathematics and science

Undergraduate Academic Studies: 2008 - 2013.
Faculty of science, University of Kragujevac,
Department of chemistry, development and research
B.Sc. Chemistry - development and research
Average mark: 9,39

Graduate Academic Studies: 2013 - 2014.
Faculty of science, University of Kragujevac,
M.Sc. Chemistry - development and research
Average mark: 10,00

2014-2015
ENSCBP (Ecole Nationale Supérieure de Chimie, de Biologie et de Physique) Polytechnic Institute of Bordeaux
M.Sc. Micro- and Nanotechnology

Doctoral studies: 2015-2021,
Faculty of science, University of Kragujevac,
Department of chemistry, module Organic chemistry
PhD in Chemistry
Average mark: 10,00
Supervisor: dr Ivan Damljanović

Bachelor Thesis: Synthesis of cyclopropane derivatives with ferrocene core

Master Thesis: Synthesis of 1-aryl-3-phenyl-4-ferrocenyltetrahydropyrimidin-2(1*H*)-ones

Doctoral Dissertation: *N,N'*-cyclic azomethine imines as precursors in the synthesis of novel derivatives of pyrazolopyrazolones

➤ EXPERIENCE

- Working experience :** 2016-present,
Faculty of science, University of Kragujevac, Department of chemistry.
Position: research associate
www.pmf.kg.ac.rs
field of research: synthesis of novel organic molecules, development of new methods for synthesis of bioactive molecules
- Teaching experience :** 2017/2018 Industrial chemistry 2
2017/2018, 2020/2021 Organic chemistry of the environment
2019/2020 Novel methods in teaching chemistry
2020/2021 Organic chemistry 3
- Internships:**
- NSysA (NanoSystèmes Analytiques)
Institute of Molecular Sciences (ISM) Bordeaux, France
16 Avenue Pey-Berland - Pessac Cedex 33607
September 2014 – December 2014
Working on bipolar electrochemistry on organic semiconductors
 - RESCOLL - Société de Recherche
8 Allée Geoffroy Saint Hilaire, CS 30021 - 33615 Pessac cedex
April 2015 – September 2015
Working on conductive polymers, inkjet printing and solar cell fabrication
- Projects:**
- National project:
„New Electrochemical and Chemical Methods in Synthesis of Molecules Interesting for Medicine and Materials Chemistry” (172034)
 - International project:
„SupraMedChem@Balkans.Net: Biomedical Dimension of Supramolecular Chemistry in the training and research in the Balkans area” (01/07/2015 – 30/06/2018)
 - Bilateral project with republic of Slovenia:
„Dual cooperative catalysis in [3+2] cycloadditions of azomethine imines”
- Memberships:** Member of Serbian chemical society
- Courses:**
- Microfabrication course in clean room (1 week in Toulouse, February 2015)
 - School of practical application of high-performance liquid chromatography 9.7.2018 Kragujevac
 - School of gas chromatography/mass spectrometry 2.7-3.7.2018 Kragujevac
 - School of mass spectrometry of primary and secondary metabolites 20.9.2018 Kragujevac

Laboratory skills:

- spectroscopy (IR, UV, ¹H NMR, GC-MS)
- chromatography (TLC, MPLC, CC, FCC)
- good background in usual techniques of manipulation in organic laboratory
- cyclic voltammetry
- inkjet printing
- bipolar electrochemistry
- capillary electrophoresis
- SEM – scanning electron microscopy
- Organic electronics fabrication
- Microfabrication course in clean room

➤ SCHOLARSHIPS AND REWARDS:

- Faculty award for the best student during 2nd and 3rd year of studies at department of chemistry
- Academician Dragoslav Srejšović's scholarship during 2nd and 3rd year of studies
- Scholarship of the Ministry of education, Republic of Serbia during 2nd and 3rd year
- **Joussot-Dubien award** for 2014 for one foreign student
- Scholarship of French government for foreign students for 2014/2015
- Scholarship of Fond for young talents "Dositeja" for school year 2014/2015
- Award for best poster at summer school: Supramolecular Chemistry Ideas, Design and Methods for Investigations, 19.04.2017 Plovdiv, Bulgaria
- IUPAC Poster Prize, Beograd 2017

➤ OTHER SKILLS**Languages:**

Native language: Serbian
Other languages: English – advanced level
German – basic level
French – basic level

Certificate:

- Preliminary English Test
University of Cambridge, ESOL Examinations
Awarded: Pass with Merit
- Alliance française de Bordeaux certificates of attending French classes
- Oxford academy certificate for French language level A1

Computer skills:

- Ms Office (Word, PowerPoint, Excel)
- Chem Office
- Internet

Other skills and personal characteristics:

Participated in many Festivals of science for promoting chemistry
Member of student parliament
Driver license: B category

Bibliography of Jovana (Jovanović) Bugarinović

1. List of scientific papers

1.1. Scientific papers published in top journals of international importance (M21)

- 1.1.1.** I. Damljanović, D. Stevanović, A. Pejović, D. Ilić, M. Živković, **J. Jovanović**, M. Vukićević, G. A. Bogdanović, N. S. Radulović, R. D. Vukićević
The palladium(II) complex of *N,N*-diethyl-1-ferrocenyl-3-thiabutamine: synthesis, solution and solid state structure and catalytic activity in Suzuki–Miyaura reaction
RSC Adv. **4** (2014) 43792-43799.
DOI: 10.1039/c4ra08140d
ISSN: 2046-2069
(IF = 3.840 for 2014. year; 33/157; field: Chemistry, Multidisciplinary)
- 1.1.2.** **J. P. Bugarinović**, M. Pešić, A. Minić, J. Katanić, D. Ilić-Komatina, A. Pejović, V. Mihailović, D. Stevanović, B. Nastasijević, I. Damljanović
Ferrocene-containing tetrahydropyrazolopyrazolones: Antioxidant and antimicrobial activity
J. Inorg. Biochem. **189** (2018) 134-142.
DOI: 10.1016/j.jinorgbio.2018.09.015
ISSN: 0162-0134
(IF = 3,348 for 2016. year; 10/46; field: Chemistry, Inorganic & Nuclear)
- 1.1.3.** M. Pešić, **J. Bugarinović**, A. Minić, S. B. Novaković, G. A. Bogdanović, A. Todosijević, D. Stevanović, I. Damljanović
Electrochemical characterization and estimation of DNA-binding capacity of a series of novel ferrocene derivatives
Bioelectrochemistry **132** (2020) 107412
DOI: 10.1016/j.bioelechem.2019.107412
ISSN: 1567-5394
(IF = 4,474 за 2018. годину; 6/26; **M21**; област: Electrochemistry)
- 1.1.4.** M. Pešić, **J. Bugarinović**, A. Minić, G. A. Bogdanović, A. Todosijević, D. Stevanović, I. Damljanović
Synthesis and Electrochemical Estimation of DNA-binding Capacity of Novel Ferrocene-containing Pyrrolidines
J. Electrochem. Soc. **167** (2020) 025502
DOI: 10.1149/1945-7111/ab68cc
ISSN: 0013-4651
(IF = 3,120 за 2018. годину; 4/20; **M21**; област: Materials Science, Coatings & Films)

1.2. Scientific papers published in prominent journals of international importance (M22)

- 1.2.1.** **J. P. Jovanović**, G. A. Bogdanović, I. Damljanović
Catalyzed [3+2] Cycloaddition of Enones with Azomethine Imines for Easy Access to Tetrahydropyrazolopyrazolones
Synlett, **28** (2017) 664.
DOI: 10.1055/s-0036-1588678
ISSN: 0936-5214
(IF = 2,369 for 2017. year; 24/57; **M22**; field: Chemistry, Organic)

- 1.2.2.** A. Pejović, I. Damljanović, D. Stevanović, A. Minić, **J. P. Jovanović**, V. Mihailović, J. Katanić, G. A. Bogdanović
Synthesis, characterization and antimicrobial activity of novel ferrocene containing quinolines: 2-ferrocenyl-4-methoxyquinolines, 1-benzyl-2-ferrocenyl-2,3-dihydroquinolin-4(1*H*)-ones and 1-benzyl-2-ferrocenylquinolin-4(1*H*)-ones
J. Organomet. Chem. **846** (2017) 6-17.
DOI: 10.1016/j.jorganchem.2017.05.051
ISSN: 0022-328X
(IF = 2.336 for 2015. year; 26/59; field: Chemistry, Organic)
- 1.2.3.** A. Minić, **J. P. Jovanović**, G. A. Bogdanović, A. Pejović, N. Radulović, I. Damljanović, D. Stevanović
Synthesis, structural and electrochemical characterization of novel 1,3-ketoureas bearing a ferrocenyl group
Polyhedron **141** (2018) 343-351.
DOI: 10.1016/j.poly.2017.12.018
ISSN: 0277-5387
(IF = 2.284 for 2018. year; 11/26; field: Crystallography)
- 1.2.4.** **J. P. Jovanović**, S. B. Novaković, G. A. Bogdanović, A. Minić, A. Pejović, J. Katanić, V. Mihailović, B. Nastasijević, D. Stevanović, I. Damljanović
Acryloylferrocene as a convenient precursor of tetrahydropyrazolopyrazolones: [3+2] cycloaddition with *N,N'*-Cyclic azomethine imines
J. Organomet. Chem. **860** (2018) 85-97.
DOI: 10.1016/j.jorganchem.2018.02.016
ISSN: 0022-328X
(IF = 2,184 for 2016. year; 27/59; **M22**; field: Chemistry, Organic)
- 1.2.5.** A. Pejović, A. Minić, **J. Jovanović**, M. Pešić, D. Ilić-Komatina, I. Damljanović, D. Stevanović, V. Mihailović, J. Katanić, G. A. Bogdanović
Synthesis, characterization, antioxidant and antimicrobial activity of novel 5-arylidene-2-ferrocenyl-1,3-thiazolidin-4-ones
J. Organomet. Chem. **869** (2018) 1-10.
DOI: 10.1016/j.jorganchem.2018.05.014
ISSN: 0022-328X
(IF = 2.184 for 2016. year; 27/59; field: Chemistry, Organic)
- 1.2.6.** A. Minić, **J. P. Bugarinović**, A. Pejović, D. Ilić Komatina, G. A. Bogdanović, I. Damljanović, D. Stevanović
Synthesis of novel ferrocene-containing 1,3-thiazinan-2-imines: One-pot reaction promoted by ultrasound irradiation
Tetrahedron Lett. **59** (2018) 3499-3502.
DOI: 10.1016/j.tetlet.2018.08.029
ISSN: 0040-4039
(IF = 2.259 for 2018. year; 28/57; field: Chemistry, Organic)

- 1.2.7.** A. Pejović, A. Minić, **J. Bugarinović**, M. Pešić, I. Damljanović, D. Stevanović, V. Mihailović, J. Katanić, G. A. Bogdanović
Synthesis, characterization and antimicrobial activity of novel 3-ferrocenyl-2-pyrazolyl-1,3-thiazolidin-4-ones
Polyhedron **155** (2018) 382-389.
DOI: 10.1016/j.poly.2018.08.071
ISSN: 0277-5387
(IF = 2.284 for 2018. year; 11/26; field: Crystallography)
- 1.2.8.** A. Minić, S. B. Novaković, G. A. Bogdanović, **J. P. Bugarinović**, M. S. Pešić, A. Todosijević, D. Ilić Komatina, I. Damljanović, D. Stevanović
Synthesis and structural characterizations of novel atropisomeric ferrocene-containing six-membered cyclic ureas
Polyhedron **177** (2020) 114316
DOI: 10.1016/j.poly.2019.114316
ISSN: 0277-5387
(IF = 2,284 за 2018. годину; 19/45; **M22**; област: Chemistry, Inorganic & Nuclear)

1.3. Scientific papers published in journals of international importance (M23)

- 1.3.1.** M. Pešić, **J. P. Bugarinović**, A. Minić, D. Ilić-Komatina A. Pejović, B. Šmit, D. Stevanović, I. Damljanović
Synthesis of novel multi-functionalized pyrrolidines by [3+2] dipolar cycloaddition of azomethine ylides and vinyl ketones
Monatsh. Chem. **150** (2019) 663-679.
DOI: 10.1007/s00706-018-2340-6
ISSN: 0026-9247
(IF = 1.501 for 2018. year; 112/172; field: Chemistry, Multydisciplinary)

1.4. Scientific paper published in a prominent journal of national importance (M52)

- 1.4.1.** A. Minić, **J. Bugarinović**, M. Pešić, D. Ilić Komatina
Novel 4-ferrocenyl-8-(phenylthio)-1,2,3,4-tetrahydroquinoline: design, synthesis and spectral characterization
UNIVERSITY THOUGHT – Publication in Natural Sciences, 9, 1, (2019), 38
DOI: 10.5937/univtho9-20839
ISSN: 1450-7226 (Print)
ISSN: 2560-3094 (Online)

2.5. List of lectures given by invitation at international conferences and published in extracts (M32)

- 2.5.1. J. Jovanović**
Vinyl enones – excellent precursors for synthesis of pyrazolopyrazolones
International meeting of medicinal and bio(in)organic chemistry, Vrnjačka Banja, Serbia, August 26–31, 2017, Book of Abstracts p.13

2.6. List of scientific presentations at international conferences and published in extracts (M34)

- 2.6.1** A. Minić, **J. Jovanović**, A. Pejović, D. Stevanović, R. Vukićević
Synthesis of novel 4-ferrocenyl – 1,2,3,4-tetrahydroquinolines and quinolines
Supramolecular Chemistry Ideas, Design and Methods for Investigations, Borovets, Bulgaria, June 16-18, 2016, Book of Abstracts 3.
- 2.6.2.** A. Pejović, I. Damljanović, D. Stevanović, A. Minić, **J. Jovanović**
Synthesis of novel 1-benzyl-2-ferrocenyl-2,3-dihydroquinolin-4(1H)-ones and 1-benzyl-2-ferrocenylquinolin-4(1H)-ones
59th Meeting of the Polish Chemical Society, Poznan, Poland, September 19-23, 2016, Book of Abstracts S01K08 p. 69.
- 2.6.3.** A. Pejović, D. Stevanović, I. Damljanović, A. Minić, **J. Jovanović**, S. Kazmierski, J. Drabowicz
Synthesis and antimicrobial/cytotoxic assessment of ferrocenyloxazinanes, oxazinan-2-ones, and tetrahydropyrimidin-2-ones
XIX International Symposium „Advances in the Chemistry of Heteroorganic Compounds”, Lodz, Poland November 25, 2016, Book of Abstracts IL-1.
- 2.6.4.** **J. Jovanović**, I. Damljanović, J. Katanić, T. Boroja
Synthesis, spectral characterisation and biological evaluation of 5-aryl-6-(ferrocenoyl)tetrahydro-1H(5H)-pyrazolo[1,2-a]pyrazol-1-one
24th Young Research Fellows' Meeting, Paris, France, 8-10 February 2017 Book of Abstracts PC-116 p.p. 206.
- 2.6.5.** **J. Jovanović**, A. Minić, A. Pejović, D. Stevanović, I. Damljanović
[3+2] Dipolar cycloaddition of N, N'-cyclic azomethine imines to enones – facile way to tetrahydro-pyrazolopyrazolones
Supramolecular Chemistry Ideas, Design and Methods for Investigations, Plovdiv, Bulgaria, April 19-21, 2017, Book of Abstracts P5.
- 2.6.6.** A. Minić, D. Stevanović, I. Damljanović, A. Pejović, **J. Jovanović**, G. A. Bogdanovic, N. Radulović
Synthesis and electrochemical properties of a series of ureas containing ferrocenyl group
International meeting of medicinal and bio(in)organic chemistry, Vrnjačka Banja, Serbia, August 26–31, 2017, Book of Abstracts p.26.
- 2.6.7.** A. Pejović, I. Damljanović, D. Stevanović, A. Minić, **J. Jovanović**
Synthesis, spectral and electrochemical characterisation of 2-ferrocenyl-4-methoxyquinolines, 1-allyl-2-ferrocenyl-2,3-dihydroquinolin-4(1H)-ones and 1-allyl-2-ferrocenylquinolin-4(1H)-ones
International meeting of medicinal and bio(in)organic chemistry, Vrnjačka Banja, Serbia, August 26–31, 2017, Book of Abstracts p.19.
- 2.6.8.** I. Damljanovic, M. S. Pesic, **J. P. Jovanovic**, A. Minic
[3+2] Cycloaddition of azomethine ylides to vinyl enones - easy access to 4-acyl-5-arylpyrrolidines
ORCHEM 2018, Gesellschaft Deutscher Chemiker - Liebig-Vereinigung für Organische Chemie, P027, p 9, Berlin, 10-12. Sep. 2018

2.6. List of scientific presentations at national conferences printed in extracts (M64)

- 2.6.1. **J. Jovanović**, D. Stevanović, A. Pejović, I. Damljanović, M. Vukićević, N. Radulović, R. D. Vukićević
Synthesis of 1-aryl-4-ferrocenyl-3-phenyltetrahydropyrimidin-2(1H)-ones
51th Meeting of the Serbian Chemical Society, Niš, Serbia June 5-7, 2014, Book of Abstracts OH O 01 p. 87.
- 2.6.2. **J. Jovanović**, D. Ilić-Komatina, I. Damljanović, R. D. Vukićević
Synthesis of 6-acyl-5-phenyltetrahydropyrazolo[1,2-a]pyrazol-1(5H)-ones
53rd meeting of the Serbian Chemical Society, Kragujevac, Serbia, June 10-11, 2016. Book of Abstracts OH 04 p.97
- 2.6.3. I. Damljanović, D. S. Ilić-Komatina, **J. Jovanović**, A. Pejović
Synthesis of novel derivatives of N-(1-ferrocenyl-2-(methylthio)ethyl)aniline
Fourth Conference of Young Chemists of Serbia, Belgrade, Serbia, November 5, 2016. Book of Abstracts 47.
- 2.6.4. A. Minić, I. Damljanović, A. Pejović, **J. Jovanović**, D. Stevanović, N. Radulović, G. A. Bogdanović
Atropoizomerizam kod 1-aril-4-ferocenil-3-feniltetrahidropirimidin-2(1H)-ona
54th Meeting of the Serbian Chemical Society, Belgrade, Serbia, Septembar 29-30, 2017. Book of Abstracts and Proceedings OH 04 p.84.
- 2.6.5. M. Pešić, **J. Bugarinović**, D. Ilić Komatina, I. Damljanović
Synthesis of new pyrrolidine derivatives by [3+2] cycloaddition of vinyl enones and azomethine ylides
55th Meeting of the Serbian Chemical Societ, Novi Sad, Serbia, June 8-9, 2018, Book of Abstracts OH P09 p.97
- 2.6.6. M. S. Pešić, **J. P. Bugarinović**, A. G. Minić, I. S. Damljanović
Electrochemical evaluation of the DNA-binding capacity of a series of new ferrocene-containing pyrrolidines
Book of Abstracts of the 7th Conference of the Young Chemists of Serbia, Belgrade (Serbia), 2 November 2019, CS PP 03, p81
- 2.6.7. A. G. Minić, **J. P. Bugarinović**, M. S. Pešić, D. Ilić Komatina
Design, synthesis and spectral characterization of novel 4-ferrocenyl-8-(phenylthio)-1,2,3,4-tetrahydroquinoline
Book of Abstracts of the 7th Conference of the Young Chemists of Serbia, Belgrade (Serbia), 2 November 2019, CS PP 01, p79
- 2.6.8. **J. P. Bugarinović**, M. S. Pešić, D. D. Stevanović, I. S. Damljanović
Ultrasound-assisted solvent free [3+2] cycloaddition of enones with azomethine imines for easy access to tetrahydropyrazolopyrazolones
Book of Abstracts of the 7th Conference of the Young Chemists of Serbia, Belgrade (Serbia), 2 November 2019, CS PP 04, p82