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ŠKOLOVANJE

Osnovna škola: Kragujevac, Srbija, 1965–1973.

Srednja škola: Kragujevac, Srbija, 1973–1977.

Studije hemije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1977–1982.

Poslediplomske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1985–1990.

Doktorske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu,
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Posledoktorske studije: Department of Chemistry
University of Debrecen,
Debrecen, Hungary, 2000., 2001., 2002....

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University Luis Pasteur, Stipendija CNRS-a
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2000., 2001., 2002.
Department of Chemistry
University of Modena and Reggio Emilia,
Italia, 2001.

*Članstvo u domaćim i inostranim hemijskim
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Objavljeni naučni radovi:

38 naučnih radova

Strani jezici:

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PROFESIONALNA KARIJERA

Asistent:

Institut za hemiju
Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1986–2004.

Docent:

Institut za hemiju
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Univerzitet u Kragujevcu
Kragujevac, 2004.

Predmeti koje predaje:

Osnovne studije

Industrijska hemija II,
Školski ogledi u nastavi hemije
Organska hemija 3

Master studije

Organometalna hemija

Doktorske studije

Primena organometala u organskoj sintezi

NAUČNA OBLAST ISTRAŽIVANJA

Organska hemija: Sintaza, spektralna karakterizacija različitih klasa organskih jedinjenja.

Metalorganska hemija: Sintaza i spektralna karakterizacija metalorganskih jedinjenja Primena metalorganskih jedinjenja u sintezi. Ispitivanje aktivnosti dobijenih metalorganskih proizvoda.

A) NAUČNI RADOVI Dr ZORANA R. RATKOVIĆA

1. **Stefanović, D. Jeremić, S. Sukdolak, S. Solujić, Z. Ratković:** The Knoevenagel reaction with *trans*-10-methyl-perhydroisochroman-3,6-dione. The synthesis of butenolide lactones,
J. Serb. Chem. Soc., **1989**, 54 (2), 57-64
2. **S. Solujić, S. Sukdolak, Z. Ratković:** Stereospecific acetoxylation of 4-methyl-4-dichloromethyl-5-(methoxycarbonyl)methyl-2-cyclohexen-1-one with lead(IV) acetate,
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3. **S. Konstantinović, M. Đuran, V. Pavlović, J. Predojević, Z. Ratković, A. Rufinska, S. Simova:** Studies of ferrocene derivatives. The reaction of ferrocenyl carbonyl compounds with organomagnesium halides,
J. Serb. Chem. Soc., **1995**, 60 (8), 729-732
4. **S. Konstantinović, S. Simova, Z. Ratković, J. Predojević, A. Rufinska S. Milosavljević:** Studies of ferrocene derivatives. I. The synthesis and high resolution ¹H NMR spectra of some (1-hydroxyalkyl)- and (1-hydroxy-methylalkyl)-ferrocenes, *J. Serb. Chem. Soc.*, 61 (8), **1996**, 627-635
5. **S. Konstantinović, S. Simova, Z. Ratković, J. Predojević, A. Rufinska, S. Gojković:** Chirality, diastereotopism and structure of some 1- and 2-ferrocenyl-alkanols investigated by NMR spectroscopy,
Ind. J. Chem., 35B, **1996**, 960-964
6. **S. Konstantinović, S. Simova, A. Rufinska, Z. Ratković, J. Predojević, M. Đuran:** Stereochemistry of *erythro* and *threo* 1,1-bis(1-hydroxy-1-methyl alkyl)-ferrocenes investigated by NMR spectroscopy,
Ind. J. Chem., 35B, **1996**, 1248-1252
7. **S. Konstantinović, S. Simova, Z. Ratković, J. Predojević:** Studies of ferrocene derivatives IV. Synthesis and NMR spectra of some (1-hydroxy- ω -alkenyl)- and (1-hydroxy-1-methyl- ω -alkenyl)-ferrocenes,
J. Serb. Chem. Soc., 62 (7), **1997**, 1157-1165
8. **S. Konstantinović, Z. Bugarčić, R. Vukićević, W. Wisniewski, Z. Ratković, Z. Marković, M. Lj. Mihailović:** Stereochemistry and ¹³C-NMR spectra of some phenyl selenoethers obtained in phenylselenoetherification of olefinic alcohols,
Ind. J. Chem., 37B, **1998**, 48-55
9. **R. D. Vukićević, Z. R. Ratković, M. D. Vukićević, S. K. Konstantinović:** A Novel Method for Preparation of Acylferrocenes,
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10. **R. D. Vukićević, Z. R. Ratković, M. D. Vukićević, S. K. Konstantinović:** A One-Pot Synthesis of Alkyl Ferrocenyl Ketones,
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11. **R.D. Vukićević, D. Ilic, Z.R. Ratković, M.D. Vukićević:** Synthesis of some Sulfur-Containing Acylferrocenes
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12. **Z. Ratković, L. Somsák, K. Micskei, C. Zucchi, G. Pályi:** Synthesis of ferrocenylketyl radicals by chromium(II) complexes,
Journal of Organometallic Chemistry, 637-639, **2001**, 813-819
13. **S. Konstantinović, J. Predojević, S. Gojković, Z. Ratković, B. Dimitrijević, B. Mojsilović:** Synthesis of C-3-C-9-alkenyl 2,3-unsaturated glucosides from glucose and

- some alkenols,
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14. **S. Konstantinović, J. Predojević, S. Gojković, Z. Ratković, B. Mojsilović, B. Dimitrijević:** Synthesis of C-7-C-16-alkyl 2,3-dideoxy glucosides from glucose and fatty alcohols,
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 15. **C. Michon, J-P. Djukic, Z. Ratković, M. Pfeffer:** Synthesis of (+) 2,3 PinDione, a versatile chiral 1,2 diketone,
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 16. **C. Michon, J-P. Djukic, Z. Ratković, J-P Collin, M. Pfeffer, A. de Cian, J. Fischer:** Polynuclear Organometallic Helices by Means of Novel Coupling Reactions of Cyclomanganated Complexes with Aryl-Substituted Diazoalkanes: Syntheses of New Manganospyralenes and Appended (η^5 -fluoren-9-yl)M(CO)₃ Complexes (M=Mn, Re),
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 17. **R. D. Vukićević, Z. R. Ratković, M. D. Vukićević and S. K. Konstantinović:** Acylation of ferrocene: a new approach,
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 22. I. Damljanović, M. Vukićević, N. Radulović, R. Palić, E. Ellmerer, Z. Ratković a, M. Joksović, R. D. Vukićević: Synthesis and antimicrobial activity of some new pyrazole derivatives containing a ferrocene unit, *Bioorganic & Medicinal Chemistry Letters*, **2009**, 19, 1093–1096
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- derivatives, *Polyhedron* **2010**, 29, 2311–2317
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B) NAUČNA SAOPŠTENJA Dr ZORANA R. RATKOVIĆA

1. **S. Solujić, Z. Ratković, S. Sukdolak:**
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2. **M. Stefanović, D. Jeremić, S. Sukdolak, S. Solujić, Z. Ratković:**
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3. **Z. Ratković, S. Sukdolak, S. Solujić:**
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4. **S. Sukdolak, S. Solujić, Z. Ratković:**
The synthesis of polyfunctional α -methylene-lactones as potential biological agents,
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5. **M. Đuran, S. Konstantinović, V. Pavlović, J. Predojević, Z. Ratković, A. Rufinska, S. Simova:**
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organomagnezijumovim halogenidima
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6. **S. Konstantinović, J. Predojević, S. Gojković, Z. Ratković, B. Dimitrijević and G. Milošević**
Synthesis of alkyl glucosides from glucose and fatty alcohols,
1st International Conference of the Chemical Societies of the South-East European
Countries, Halkidiki, Greece, 1998, BA p. 213
7. **S. Konstantinović, J. Predojević, S. Gojković, Z. Ratković, and G. Milošević:**
Synthesis of alkyl 2,3-dideoxy glucosides from glucose and fatty alcohols,
1st International Conference of the Chemical Societies of the South-East European
Countries, Halkidiki, Greece, 1998, BA p. 215
8. **R. D. Vukićević, Z. R. Ratković, M. D. Vukićević and S. K. Konstantinović:**
A One-Pot Synthesis of Alkyl Ferrocenyl Ketones", 1st International Conference of the
Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998, BA
p. 278
9. **Vukicević M., Ratković Z, Ilić D, Vukićević DR:**
Synthesis of some ferrocene ketones containing sulfur", PO 278,
2nd International Conference of South European countries, 2000, Halkidiki, Greece
10. **Károly Micskei, Zoran Ratković**
XXXV Komplexkémiai Kollokvium
2001., Kecskemet, Hungary
11. **Z Ratković, L Somsak, K. Micskei, C. Zucchi and G. Palyi:**
Synthesis of ferrocenylketyl radicals by chromium(II) complexes,
GECOM-CONCOORD 2001, 2001, Albe-Alsace, France, BA FL-2
12. **Hajdu Csongor, Zoran Ratkovic, Nagy István, Micskei Károly**
Preparation and characterization of ferrocenylketyl radicals
XXXVII Komplexkémiai Kollokvium
2002., Matra Haza Hungary
13. **Micskei Károly Hajdu Csongor, Zoran Ratkovic, Nagy István**
Application of the IR spectroscopy for the structure determination of ferrocenylketyl
Radicals, XXXVIII Komplexkémiai Kollokvium

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14. **S. R. Trifunović, R. D. Vukićević, Z. R. Ratković i V. V. Glodjović,**
Palladium(II) complexes with S-substituted mercaptoacids
4nd International Conference of South European countries,
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 15. **I. Damljanović, M. Čolović, D. Manojlović, M. Vukićević, Z. Ratković, R. D. Vukićević**
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 16. **I. Damljanović, M. Čolović, M. Vukićević, Z. Ratković, R. D. Vukićević**
Synthesis of Some New Ferrocene Containing Pyrazoles, XVII EuCheMS Conference
XVII EuCheMS Conference on Organometallic Chemistry, 2007. Sofia, Bulgaria, Book
of Abstracts, p 169