

# CURRICULUM VITAE

Jelena Đurđević



Adresa:

Prirodno-matematički fakultet  
Univerzitet u Kragujevcu  
Radoja Domanovića 12  
P. O. Box 60  
34000 Kragujevac

e-mail: [jddjurdjevic@gmail.com](mailto:jddjurdjevic@gmail.com); [jdjurdjevic@kg.ac.rs](mailto:jdjurdjevic@kg.ac.rs)

Datum i mesto rođenja : 17. Jun 1983.

Kragujevac, Srbija

## OBRAZOVANJE

1990 – 2002. Osnovna i srednja škola u Kragujevcu

2007. Diplomirani hemičar za istraživanje i razvoj, Prirodno-matematički fakultet, Univerzitet u Kragujevcu

2011. Doktor hemijskih nauka, Prirodno-matematički fakultet, Univerzitet u Kragujevcu

Doktorska disertacija: *Prilog poznavanju ciklične konjugacije u derivatima acenafitilena i fluorantena*

## RADNO ISKUSTVO

2007. Saradnik u nastavi na predmetima Metodika nastave hemije sa školskom praksom, Metodika nastave hemije 1, Metodika nastave hemije 2, Metodika nastave hemije 3, Školska praksa, Savremeni oblici nastave hemije, Racunari u hemiji 1, Molekulsko modeliranje 1, Molekulsko modeliranje 2, Prirodno-matematički fakultet, Univerzitet u Kragujevcu

2015. Docent, Prirodno-matematički fakultet, Univerzitet u Kragujevcu, predmet: Metodika nastave hemije 1 i Školska praksa

## USAVRŠAVANJE U INOSTRANSTVU

2012. (3 meseca) Post-doktorsko usavršavanje, Prof. N. Judas, Prirodoslovno-matematički fakultet, Univerzitet u Zagrebu, Hrvatska

2013. (9 meseci) Post-doktorsko istraživanje, Prof. V. Van Speybroeck, Centar za molekulsko modeliranje, Gent, Belgija

## POZNAVANJE JEZIKA

Engleski

## Bibliografija

1. I. Gutman, S. Stanković, J. Đurđević, B. Furtula, On the cycle-dependence of topological resonance energy, *Journal of Chemical Information and Modeling* **47** (2007) 776-781
2. S. Gojak, S. Radenković, R. Kovačević, S. Stanković, J. Đurđević, I. Gutman, A difference between the  $\pi$ -electron properties of catafusenes and perifusenes, *Polycyclic Aromatic Compounds* **26** (2006) 197-206
3. J. Đurđević, B. Furtula, I. Gutman, R. Kovačević, S. Stanković, N. Turković, Cyclic conjugation in annelated perylenes, in: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje Museum, Prijepolje, 2006, pp. 101-117
4. I. Gutman, S. Stanković, R. Kovačević, J. Đurđević, B. Furtula, Anomalous cyclic conjugation in benzenoid molecules with a small number of Kekule structures, *Indian Journal of Chemistry* **44A** (2005) 1751-1755
5. I. Gutman, B. Furtula, J. Đurđević, R. Kovačević, S. Stanković, Annelated perylenes: Benzenoid molecules violating the Kekule-structure-based cyclic conjugation models, *Journal of the Serbian Chemical Society* **70** (2005) 1023-1031
6. J. Đurđević, B. Furtula, I. Gutman, S. Radenković, Dependence of Hess-Schaad resonance energy on Kekule structures, *Kragujevac Journal of Science* **28** (2006) 57-64
7. S. Stanković, J. Đurđević, I. Gutman, R. Milentijević, Partitioning of  $\pi$ -electrons in rings of diaza-derivatives of acens, *Journal of the Serbian Chemical Society* **73** (2008), 547-554
8. I. Gutman, J. Đurđević, Fluoranthene and its congeners-A graph theoretical study, *MATCH Communications in Mathematical and Computer Chemistry* **60** (2008) 659-670
9. I. Gutman, J. Đurđević, B. Furtula, B. Milivojević, Cyclic conjugation in mono- and dicyclopenta-derivatives of anthracene and phenanthrene, *Indian Journal of Chemistry* **47A** (2008) 803-807
10. J. Đurđević, S. Radenković, I. Gutman, Hall rule in fluorene-type benzenoid hydrocarbons, *Journal of the Serbian Chemical Society* **73** (2008) 989-995

11. J. Đurđević, B. Furtula, I. Gutman, S. Radenković, S. Stanković, Comparative study of cyclic conjugation in tribenzoperylene isomers, in: A. Graovac, I. Gutman, D. Vukičević (Eds.), *Mathematical Methods and Modelling for Students of Chemistry and Biology*, Hum, Zagreb, 2009, pp. 29-39
12. I. Gutman, J. Đurđević, A. T. Balaban, A regularity for cyclic conjugation in acenaphthylene, fluoranthene, and their congeners, *Polycyclic Aromatic Compounds* **29** (2009) 3-11
13. I. Gutman, J. Đurđević, S. Radenković, A. Burmudžija, Energetic properties of fluoranthenes, *Indian Journal of Chemistry* **48A** (2009) 194-197
14. J. Đurđević, I. Gutman, R. Ponec, Verifying the PCP-rule by five-center bond indices, *Journal of the Serbian Chemical Society* **74** (2009) 549-554
15. J. Đurđević, I. Gutman, J. Terzić, A. T. Balaban, Cyclic conjugation in fluoranthene and its benzo-derivatives. Part 1, catacondensed systems, *Polycyclic Aromatic Compound* **29** (2009) 90-102
16. I. Gutman, J. Đurđević, On  $\pi$ -electron conjugation in the five-membered ring of fluoranthene-type benzenoid hydrocarbons, *Journal of the Serbian Chemical Society* **74** (2009) 765-771
17. A. T. Balaban, J. Đurđević, I. Gutman, Comments on  $\pi$ -electron conjugation in the five-membered ring of benzo-derivatives of corannulene, *Polycyclic Aromatic Compounds* **29** (2009) 185-208
18. S. Radenković, J. Đurđević, I. Gutman, Quantitative study of the PCP effect, *Chemical Physics Letters* **475** (2009) 289-292
19. J. Đurđević, S. Radenković, I. Gutman, S. Marković, Testing the PCP-rule, *Monatshefte für Chemie* **140** (2009) 1305-1309
20. D. Vukičević, J. Đurđević, I. Gutman, On the number of Kekulé structures of fluoranthene congeners, *Journal of the Serbian Chemical Society* **75** (2010) 1093-1098
21. A. T. Balaban, J. Đurđević, I. Gutman, S. Jeremić, S. Radenković, Correlations between local aromaticity indices of bipartite conjugated hydrocarbons, *Journal of Physical Chemistry A* **114** (2010) 5870-5877

22. S. Marković, J. Đurđević, S. Jeremić, I. Gutman, Triplet fluoranthenes: aromaticity versus unpaired electrons, *Journal of Molecular Modeling*, **17** (2011) 805-810
23. S. Marković, J. Đurđević, S. Jeremić, I. Gutman, Diradical character of some fluoranthenes, *Journal of the Serbian Chemical Society* **75** (2010) 1241-1249
24. I. Gutman, J. Đurđević, D. Bašić, D. Rašović, On  $\pi$ -electron configuration of cyclopenta-derivatives of benzenoid hydrocarbons, *Indian Journal of Chemistry* **49A** (2010) 853-860
25. I. Gutman, J. Đurđević, Cycles in dicyclopenta-derivatives of benzenoid hydrocarbons, *MATCH Communications in Mathematical and in Computer Chemistry* **65** (2011) 785-798
26. A. T. Balaban, I. Gutman, S. Jeremić, J. Đurđević, Effect of benzo-annulation on cyclic conjugation, *Monatshefte für Chemie* **142** (2011) 53-57
27. A. T. Balaban, I. Gutman, S. Marković, D. Simijonović, J. Đurđević, Local aromaticity in benzo- and benzocyclobutadieno-annelated phenanthrenes, *Polycyclic Aromatic Compounds*, **31** (2011) 339-349
28. D. Vukičević, J. Đurđević, Bond additive modeling 10. Upper and lower bounds of bond incident degree indices of catacondensed fluoranthenes, *Chemical Physics Letters*, **515** (2011) 186-189
29. D. Vukičević, J. Đurđević, I. Gutman, Limitations of Pauling Bond Order Concept, *Polycyclic Aromatic Compounds*, **32** (2012) 36-47
30. M. Marković, J. Đurđević, I. Gutman, Cyclic conjugation in benzo- and benzocyclobutadieno-annelated terylenes and higher rylenes, *Journal of the Serbian Chemical Society*, **77** (2012) 751-759
31. J. Đurđević, I. Gutman, Phenyl-cyclopentadienyl rule, *Macedonian Journal of Chemistry and Chemical Engineering*, **31** (2012) 1-15
32. I. Gutman, J. Djurdjević, Z. Matović, M. Marković, Verifying the modes of cyclic conjugation in tetrabenzo[bc,ef,op,rs]circumanthracene, *Journal of the Serbian Chemical Society*, **77** (2012) 1401-1408
33. I. Gutman, J. Đurđević, S. Radenković, Z. Matović, Anomalous cyclic conjugation in the perylene/bisanthrene homologous series, *Monatshefte für Chemie*, **143** (2012) 1649-1653

34. Slavko Radenković, Patrick Bultinck, Ivan Gutman, Jelena Đurđević, On induced current density in the perylene/bisanthrene homologous series, , *Chemical Physics Letters*, 151-155
35. Slavko Radenković , Jelena Đurđević and Patrick Bultinck, Local aromaticity of the five-membered rings in acenaphthylene derivatives, *Physical Chemistry Chemical Physics*, 2012,14, 14067-14078
36. I. Gutman, S. Radenković, M. Antić, J. Đurđević, A test of Clar aromatic sextet theory, *Journal of the Serbian Chemical Society*, **78** (2013) 1-12
37. S. Gojak-Salimović, I. Gutman, J. Đurđević, M. Janošević, Cyclic Conjugation in Benzo-annelated Ovalenes, *Bullllettiin off tthe Chemiistts and Technollogiistts off Bosniia and Herzegovina*, **40** (2013) 17-20
38. S. Marković, J. Đurđević, M. Vukosavljević, Z. Petrović, Mechanistic Insight into Alkylation of the Ethyl Acetoacetate Anion with Different Ethyl Halides, *Russian Journal of Physical Chemistry A*, **87** (2013) 2207-2213
39. Slavko Radenković, Marija Antić, Jelena Đurđević, Svetlana Jeremić, Electronic structure study of the biradical pleiadene-like molecules, *Monatshefte für Chemie*, **145** (2014) 281-290
40. S. Marković, Lj. Mitrović, J. Đurđević, J. Tošović, Z. Petrović, Alkylation of potassium ethyl acetoacetate: HSAB versus Marcus theory, *Computational and Theoretical Chemistry*, **1066** (2015) 14-19
41. Slavko Radenković, Jelena Tošović, and Jelena Đurđević Nikolić, Local Aromaticity in Naphtho-Annulated Fluoranthenes: Can the five-membered rings be more aromatic than the six-membered rings?, *Journal of physical chemistry A*, **119** (2015), 4972-4982
42. J. D. Nikolić, S. Wouters, J. Romanova, A. Shimizu, B. Champagne, T. Junkers, D. Van der Zande, D. Van Neck, M. Waroquier, V. Van Speybroeck, and S. Catak, PPV Polymerization through the Gilch Route: Diradical Character of Monomers, *Chemistry - A European Journal*, **21** (2015) 19176-19185

## Strucni radovi

1. L. Vasović, A.V. Teodorović, J. Đurđević, I. Gutman, Pojam hemijskog elementa u osnovnoj školi, *Hemijski Pregled* **49** (2008) 21-24  
  
-L. Vasović, A.V. Teodorović, J. Đurđević, I. Gutman, Concept of chemical element in elementary school, *Hemijski Pregled* [Chemical Reviews] **49** (2008) 21-2
2. I. Gutman, G. Đelić, A. Marković, J. Đurđević, Hemija paprike, *Hemijski Pregled*, **50** (2009) 120-123  
  
- I. Gutman, G. Đelić, A. Marković, J. Đurđević, Chemistry of paprika, *Hemijski Pregled*, **50** (2009) 120-123
3. I. Gutman, J. Đurđević, A. Minić, Problem mola u nastavi hemije, *Hemijski Pregled*, **52** (2011) 44-46  
  
- I. Gutman, J. Đurđević, A. Minić, Problem mola u nastavi hemije, *Hemijski Pregled* [Chemical Reviews], **52** (2011) 44-46
4. I. Gutman, J. Đurđević, D. Trivić, Efikasnost nastave hemije - Istine i laži, *Hemijski Pregled*, **53** (2012) 134-137

## Knjige

1. I. Gutman, J. Đurđević, S. Stojanović, A. V. Teodorović, Nastava hemije kroz druženje, igranje i maštanje PMF & Centar slobodarskih delatnosti, Kragujevac, 2011  
  
- I. Gutman, J. Đurđević, S. Stojanović, A. V. Teodorović, Teaching of Chemistry by Friendship, Playing and Imagination, Faculty of Science & Center for Freedom Activities, Kragujevac, 2011