



Zdravko Džambaski

Naučni saradnik

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Obrazovanje: 1998 Diplomirani hemičar, Hemijski fakultet, Univerzitet u Beogradu

2006 Magistar hemijskih nauka, Hemijski fakultet, Univerzitet u Beogradu

2015 Doktor hemijskih nauka, Hemijski fakultet, Univerzitet u Beogradu

Zvanja: 1999 Istraživač pripravnik

2007 Istraživač saradnik

2015 Naučni saradnik

Članstva u društvima: Srpsko hemijsko društvo

Profesionalno iskustvo: 01/2000 – 01/2008 Asistent–honorarni (Poljoprivredni fakultet, Univerzitet u Beogradu)

03/2009 – 06/2009 Moskovski državni univerzitet Lomonosov, studentski boravak

10/2010 – 01/2011 Asistent–honorarni (Hemijski fakultet, Univerzitet u Beogradu)

10/2011 – 11/2011 Univerzitet u Potsdamu, studentski boravak

10/2012 – 06/2013 Asistent–honorarni (Hemijski fakultet, Univerzitet u Beogradu)

1999 – i sada IHTM – Centar za hemiju

Oblasti interesovanja: Organska hemija, organska sinteza, hemija heterocikličnih jedinjenja

Znanje jezika: Engleski

Najznačajniji projekti: Međunarodni:

2010– 2011 - Experimental and Theoretical Study on Chemoselective Reactions of Stereodefined 2-Alkylidene-4-oxothiazolidines - projekat Nemačke službe za akademsku razmenu (DAAD – Project ID 504252270)

Osnovna istraživanja:

2002 – 2005 - Heterociklični push-pull alkeni: sinteza, reaktivnost, biološka aktivnost i primena za dobijanje organskih provodnih poliena (1709)

2006 – 2010 - Tiazolidini i sintetički analozi: reaktivnost, primena i biološka aktivnost (142007)

2002 – 2005 - Eksperimentalna i teorijska proučavanja reaktivnosti i biološka aktivnost stereodefinisanih tiazolidina i sintetičkih analoga (172020)

Izabrane publikacije: Publikovani radovi:

1. R. Marković, **Z. Džambaski**, M. Baranac, "Stereo- and regiocontrol of electrophile-initiated rearrangement of push-pull 5-substituted 4-oxothiazolidine derivatives", *Tetrahedron* (2001), 57(27), 5833-5841.
2. R. Marković, A. Shirazi, **Z. Džambaski**, M. Baranac, D. Minić, "Hydrogen bonding in push-pull 5-substituted-2-alkylidene-4-oxothiazolidines: ^1H -NMR spectroscopic study", *Journal of the Serbian Chemical Society* (2003), 68(1), 1-7.
3. R. Marković, **Z. Džambaski**, M. Stojanović, P. Steel, M. Baranac, "Regiospecificity in the heterocyclization of β -oxonitriles to 5-substituted 4-oxothiazolidine derivatives", *Journal of the Serbian Chemical Society* (2003), 68(4-5), 383-390.
4. R. Marković, M. Baranac, **Z. Džambaski**, M. Stojanović, P. J. Steel, "High regioselectivity in the heterocyclization of β -oxonitriles to 4-oxothiazolidines: X-ray structure proof", *Tetrahedron* (2003), 59(39), 7803-7810.
5. R. Marković, A. Shirazi, **Z. Džambaski**, M. Baranac, D. Minić, "Configurational isomerization of push-pull thiazolidinone derivatives controlled by intermolecular and intramolecular RAHB: ^1H NMR dynamic investigation of concentration and temperature effects", *Journal of Physical Organic Chemistry* (2004), 17(2), 118-123.
6. R. Marković, M. Baranac, **Z. Džambaski**, "Sequential bromination-rearrangement of push-pull thiazolidines induced by pyridinium hydrobromide perbromide under homogeneous reaction conditions", *Heterocycles* (2004), 63(4), 851-860.
7. R. Marković, M. Baranac, **Z. Džambaski**, "Facile rearrangement of push-pull 5-substituted 4-oxothiazolidines induced by pyridinium hydrobromide perbromide under homogeneous reaction conditions", *Journal of the Serbian Chemical Society* (2004), 69(4), 239-245.
8. R. Marković, M. Baranac, V. Jovanović, **Z. Džambaski**, "Regioselective synthesis of a stereodefined heterocyclic push-pull alkene. ^1H NMR studies and two-dimensional TLC illustrating *Z/E* isomerization", *Journal of Chemical Education* (2004), 81(7), 1026-1029.
9. D. Dabić, M. Natić, **Z. Džambaski**, R. Marković, D. Milojković-Opsenica, Ž. Tešić, "Quantitative structure-retention relationship of new *N*-substituted 2-alkylidene-4-oxothiazolidines", *Journal of Separation Science* (2011), 34(18), 2397-2404.
10. D. Minić, M. Djordjević, **Z. Džambaski**, M. Šumar-Ristović, R. Marković, "Kinetics and mechanism of structural transformations of (5-etoxy carbonylmethyl-4-oxothiazolidin-2-ylidene)-*N*-(2-phenylethyl)-ethanamide during heating", *Russian Journal of Physical Chemistry A* (2011), 85(13), 2288-2294.
11. D. Dabić, M. Natić, **Z. Džambaski**, M. Stojanović, R. Marković, D. Milojković-Opsenica, Ž. Tešić, "Estimation of lipophilicity of *N*-substituted 2-alkylidene-4-oxothiazolidines by means of reversed-phase thin-layer chromatography", *Journal of Liquid Chromatography & Related Technologies* (2011), 34(10/11), 791-804.
12. **Z. Džambaski**, M. Stojanović, M. Baranac-Stojanović, D. M. Minić, R. Marković, "Thermal solid-state *Z/E* isomerization of 2-alkylidene-4-oxothiazolidines: effects of non-covalent interactions", *Journal of the Serbian Chemical Society* (2011), 76(3), 317-328.

13. P. K. Sazonov, **Z. Džambaski**, M. M. Shtern, R. Marković, I. P. Beletskaya, "Reactions of transition metal carbonyl anions with 2-(1-bromoalkylidene)thiazolidin-4-ones: halogenophilic attack or deprotonation", *Tetrahedron Letters* (2011), 52(1), 29-33.
 14. B. P. Bondžić, **Z. Džambaski**, A. M. Bondžić, R. Marković, " π -Annulation reactions of 4-thiazolidinone enamines in the synthesis of fused bi- and tri-cyclic compounds", *Tetrahedron* (2012), 68(47), 9556-9565.
 15. **Z. Džambaski**, R. Marković, E. Kleinpeter, M. Baranac-Stojanović, "2-Alkylidene-4-oxothiazolidine S-oxides: synthesis and stereochemistry", *Tetrahedron* (2013), 69(31), 6436-6447.
 16. **Z. Džambaski**, Đ. Toljić, B. Bondžić, R. Marković, M. Baranac-Stojanović, "Unusual mode of reactivity of 2-alkylidene-4-oxothiazolidine S-oxides under the Pummerer conditions", *Tetrahedron* (2013), 69(46), 9819-9825.
 17. M. Stojanović, **Z. Džambaski**, B. Bondžić, J. Aleksić, M. Baranac-Stojanović, "4-Oxothiazolidines with Exocyclic C=C Double Bond(s): Synthesis, Structure, Reactions and Biological Activity", *Current Organic Chemistry* (2014), 18(9), 1108-1148.
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