

## Bibliography

### Monograph :

R. N. Saičić: *Synthetic Free-Radical Reactions: Formation of Carbon-Carbon Bonds*, University of Belgrade, Faculty of Chemistry eand I. C. T. M.- Center for Chemistry, Belgrade, 1995 (in serbian).

### Publications :

1. Ž. Čeković, R. N. Saičić: Acyclic analogue of syntetic pyrethroids, *J. Serb. Chem. Soc.* **1985**, 50, 211-216.
2. Ž. Čeković, R. N. Saičić: Cleavage of an electron defient olefinic double bond by a hydroxide anion. The retro-aldol reaction, *J. Serb. Chem. Soc.* **1986**, 51, 9-13.
3. Ž. Čeković, R. N. Saičić: Free radical carbocyclic ring reconstruction, *Tetrahedron Lett.* **1986**, 27, 5981-5984.
4. Ž. Čeković and R. N. Saičić: Free radical annulation of cyclopentane ring, *Tetrahedron Lett.* **1986**, 27, 5893-5896.
5. Ž. Čeković, R. N. Saičić, M. Lj. Mihailović: The lead-tetraacetate oxidation of  $\Delta^6$ -unsaturated tertiary alcohols. Eight member cyclic ether formation, *Research on Chemical Intermediates* **1989**, 11, 257-270.
6. R. N. Saičić, Ž. Čeković: Cyclopentane Ring formation in the cycloaddition reaction of 3-alkenyl radicals to radicophilic olefins, *Tetrahedron* **1990**, 46, 3627-3640.
7. R. N. Saičić, Ž. Čeković: Radical annulation methodology. 2-Vinylcyclopentane derivative formation by a 3+2 cycloaddition reaction, *Tetrahedron Lett.* **1990**, 31, 4203-4206.
8. Ž. Čeković, R. N. Saičić: Radical cyclization reactions. Cyclopropane ring formation by 3-*exo*-cyclization of 5-phenylthio-3-pentenyl radical, *Tetrahedron Lett.* **1990**, 31, 6085-6088.
9. R. Saičić, R. Matović, Ž. Čeković: Synthesis of 2-vinylcyclopropane derivatives, *Gazzeta Chimica Italiana* **1991**, 121, 325-328.
10. R. N. Saičić, Ž. Čeković: Sequential radical addition/cyclization/ $\beta$ -elimination reactions. 3-*exo*- and 5-*exo*-Cycloaddition reactions of 5-phenylthio-3-pentenyl and 5-phenylthio-3-pentynyl radicals, *Tetrahedron* **1992**, 41, 8975-8992.
11. R. N. Saičić, Ž. Čeković: Sequential free radical synthesis of a linear triquinane skeleton from an acyclic synthon, *Tetrahedron Lett.* **1994**, 35, 7845-7848.

12. R. N. Saičić, J. Bađić, Ž. Čeković: 1,3-Migration of phenylthio group in the rearrangement of tertiary cyclopropylmethanols possessing an  $\alpha$ -phenylthio group, *J. Serb. Chem. Soc.* **1996**, *61*, 841-848.
13. B. Quiclet-Sire, R. N. Saičić, S. Z. Zard: A convenient synthesis of trifluoromethyl aryl sulfides, *Tetrahedron Lett.* **1996**, *37*, 9057-9058.
14. R. N. Saičić, S. Z. Zard: Total synthesis of ( $\pm$ )-cinnamolide and ( $\pm$ )-methylenolactocin - an approach to butenolides using S-alkoxycarbonyl xanthates, *J. Chem. Soc., Chem. Commun.* **1996**, 1631-1632.
15. R. N. Saičić: Synthesis of bridged cyclooctanone derivatives *via* alkoxy radical fragmentation, *Tetrahedron Lett.* **1997**, *38*, 295-298.
16. A. Liard, B. Quiclet-Sire, R. N. Saičić, S. Z. Zard: A new synthesis of  $\alpha$ -tetalones, *Tetrahedron Lett.* **1997**, *38*, 1759-1762.
17. Z. Ferjančić, R. N. Saičić, Ž. Čeković: Free radical mediated synthesis of small ring compounds: the double annulation of bicyclo[3.1.0]hex-2-enes, *Tetrahedron Lett.*, **1997**, *38*, 4165-4168.
18. R. N. Saičić, Ž. Čeković: Cyclization/alkoxy radical fragmentation tandem: an efficient approach to the synthesis of bridged cyclooctane derivatives, *J. Serb. Chem. Soc.* **1997**, *62*, 727-735.
19. G. Petrović, R. N. Saičić, Ž. Čeković: Free radical phenylthio group transfer to nonactivated  $\delta$ -carbon atom in the photolysis reactions of alkyl benzenesulfenates, *Tetrahedron Lett.* **1997**, *38*, 7107-7110.
20. R. Matović, R. N. Saičić: An efficient semisynthesis of 7-deoxypaclitaxel from taxine, *J. Chem. Soc., Chem. Commun.* **1998**, 1745-1746.
21. V. Maslak, Ž. Čeković, R. N. Saičić: Sequential reactions with xanthates: cyclopentane ring annulation, *Synlett* **1998**, 1435-1437.
22. J. E. Forbes, R. N. Saičić, S. Z. Zard: New radical reactions of S-alkoxycarbonyl xanthates. Total synthesis of ( $\pm$ )-Cinnamolide and ( $\pm$ )-Methylenolactocin, *Tetrahedron* **1999**, *55*, 3791-3802.
23. G. Petrović, R. N. Saičić, Ž. Čeković: Synthesis of acetyl scopoline. Intramolecular reactions of *N*-carbethoxy nortropine-3 $\alpha$ -benzenesulfenate, *Synlett* **1999**, 635-637.

24. R. N. Saičić, R. Matović, Ž. Čeković: Semisynthesis of Taxol<sup>®</sup>: an improved procedure for the isolation of 10-deacetylbaicatin III, *J. Serb. Chem. Soc.* **1999**, *64*, 497-503; *Natural Products Updates* **2000**, 34343.
25. R. N. Saičić, R. Matović: An efficient semisynthesis of 7-deoxypaclitaxel from taxine, *J. Chem. Soc., Perkin Trans. I*, **2000**, 59-65.
26. G. Lalić, Ž. Petrovski, D. Galonić, R. Matović and R. N. Saičić: Alkylation of carbonyl compounds in the TiCl<sub>4</sub>-promoted reaction of trimethylsilyl enol ethers with ethylene oxide, *Tetrahedron Lett.* **2000**, *41*, 763-766; *Methods in Organic Synthesis* 43030.
27. Z. Ferjančić, Ž. Čeković, R. N. Saičić: Intermolecular free radical additions to strained cycloalkenes. Cyclopropene and cyclobutene as radical acceptors, *Tetrahedron Lett.* **2000**, *41*, 2979-2982.
28. G. Lalić, Ž. Petrovski, D. Galonić, R. Matović and R. N. Saičić: Alkylation of carbonyl compounds in the TiCl<sub>4</sub>-promoted reaction of trimethylsilyl enol ethers with epoxides, *Tetrahedron* **2001**, *57*, 583-591; *Methods in Organic Synthesis* 45851.
29. Z. Ferjančić, Ž. Čeković, R. N. Saičić: Free radical domino reactions in the synthesis of small ring compounds: multiple annulation of cyclopropane containing polycycles, *Comptes Rendus de l'Academie des sciences Serie IIc Chemistry* **2001**, *4*, 599-610.
30. A. Ivković, R. Matović, R. N. Saičić: Intramolecular Barbier reaction in water: cyclopentane and cyclohexane ring closure, *J. Serb. Chem. Soc.* **2002**, *67*, 141-148; *Methods in Organic Synthesis* 49065.
31. G. Lalić, D. Galonić, R. Matović, R. N. Saičić: A model study on the epothilone synthesis: an alternative synthetic approach to C1-C7 fragment, *J. Serb. Chem. Soc.* **2002**, *67*, 221-227.
32. V. Maslak, R. Matović, R. N. Saičić: Titanium tetrachloride promoted reaction of silyl ketene acetals with epoxides: a new method for the synthesis of  $\gamma$ -butanolides, *Tetrahedron Lett.* **2002**, *43*, 5411-5413; *Methods in Organic Synthesis* 49886.
33. G. Petrović, R. N. Saičić, Ž. Čeković: Regioselective free radical phenylsulfenation of nonactivated  $\delta$ -carbon atom by the photolysis of alkyl benzenesulfenates, *Tetrahedron* **2003**, *59*, 187-196; *Methods in Organic Synthesis* 51191.
34. G. Petrović, R. N. Saičić, Ž. Čeković: Synthesis of acetyl scopolamine and 6-dehydrohyoscymine. Intramolecular phenylsulfenylation of nonactivated methylene group of *N*-carbethoxy nortropine 3 $\alpha$ -benzenesulfenate, *Helv. Chim. Acta* **2003**, *86*, 3179-3186.

35. S. Milićević, R. Matović and R. N. Saičić: Stereoselective syntheses of (-)-cytoxazone and (+)-*epi*-cytoxazone, *Tetrahedron Lett.* **2004**, 45, 955-957.
36. A. Ivković, R. Matović and R. N. Saičić: Ring closing metathesis/fragmentation route to geometrically defined medium ring cycloalkenes: total synthesis of ( $\pm$ )-Periplanone C, *Org. Lett.* **2004**, 6, 1221-1224.
37. V. Maslak, R. Matović and R. N. Saičić: Reactions of silyl ketene acetals with epoxides: a new method for the synthesis of  $\gamma$ -butanolides, *Tetrahedron* **2004**, 60, 8957-8966.
38. G. Petrović, R. N. Saičić, Lj. Došen-Mićović, Ž. Čeković: Stereoselective free-radical phenylsulfonylation of a nonactivated  $\delta$ -carbon atom, *J. Serb. Chem. Soc.* **2004**, 69, 737-747.
39. G. Tasić, R. Matović and R. N. Saičić: Stereoselective synthesis of  $\alpha$ -hydroxy- $\beta$ -amino acids: the chiral pool approach, *J. Serb. Chem. Soc.* **2004**, 69, 981-990.
40. G. Petrović, R. N. Saičić and Ž. Čeković: Phenylsulfonylation of nonactivated  $\delta$ -carbon atom by photolysis of alkyl benzenesulfenates: Preparation of 2-phenylthio-5-heptanol, *Org. Synth. Vol. 81, (2004)*, 244-253
41. Z. Tokić-Vujošević, G. Petrović, B. Rakić, R. Matović and R. N. Saičić: Synthesis of (-)-Cytoxazone and ( $\pm$ )-*epi*-Cytoxazone: the chiral pool approach, *Synth. Commun.* **2005**, 35, 435-447.
42. R. N. Saičić: Potassium *O*-ethyl xanthate, in: *Electronic Encyclopedia of Reagents for Organic Synthesis*, Wiley InterScience (www3.interscience.wiley.com), **2005**, DOI: 10.1002/047084289X.rn00544.
43. Z. Ferjančić, R. Matović, Z. Čeković, J. P. Snyder and R. N. Saičić: Synthesis, biological evaluation and modeling of a C,D-seco-taxoid, *Tetrahedron Lett.* **2005**, 46, 5049-5052.
44. B. Božić, S. Tasić, R. Matović, R. N. Saičić and B. Dunjić: New Hyperbranched Urethane Acrylates, in: *New Polymeric Materials*, Eds.: L. S. Korugic-Karasz, W. J. MacKnight, E. Martuscelli, ACS Symposium Series 916, American Chemical Society, Washington, 2005., p. 201-214.
45. R. Saičić: An improved procedure for the preparation of *cis*-2,4-dimethylglutaranhidride, *Synth. Commun.* **2006**, 36, 2559-2562.
46. Z. Ferjančić, R. Matović, Ž. Čeković, Y. Jiang, J. P. Snyder, V. Trajković and R. N. Saičić: Synthesis, biology and modeling of C-4 carbonyl C,D-seco-taxoid, *Tetrahedron* **2006**, 62, 8503-8514.

47. Z. Ferjančić, R. Matović, Ž. Čeković and R. N. Saičić: Reactions of  $\alpha$ -4(20)-epoxy-5-O-mesyltriacetyltaxicine I induced by  $\text{BF}_3\bullet\text{Et}_2\text{O}/\text{Bu}_4\text{NBr}$ , *J. Serb. Chem. Soc.* **2006**, *71*, 705-711.
48. A. Ivković, M. Manojlović, R. Matović, Z. Tokić-Vujošević and R. N. Saičić: Ring closing metathesis/fragmentation route to (*Z*)-configured medium ring cycloalkenes. Total synthesis of ( $\pm$ )-Periplanone, *J. Org. Chem.* **2006**, *71*, 9411-9419.
49. F. Bihelović, R. Matović, B. Vulović and R. N. Saičić: Organo-Catalyzed Cyclizations of  $\pi$ -Allylpalladium Complexes: a New Method for the Construction of Five- and Six-Membered Rings, *Org. Lett.* **2007**, *9*, 5063-5066; Additions and corrections: **2007**, *9*, 5649; *Methods in Organic Synthesis* 63746.
50. A. M. Elheshi, V. Maslak, R. N. Saičić: Radical Reactions of Xanthates: Annulation of Cyclopentene Ring, *J. Serb. Chem. Soc.* **2007**, *72*, 1173-1179.
51. V. Maslak, Z. Tokić-Vujošević, R. N. Saičić: Palladium-catalyzed cross-couplings of allylic phosphates, *Tetrahedron Lett.* **2009**, *50*, 1858-1860.
52. V. Maslak, Z. Tokić-Vujošević, Z. Ferjančić, R. N. Saičić: A useful synthetic equivalent of an acetone enolate, *Tetrahedron Lett.* **2009**, *50*, 6709-6711.
53. B. Vulović, F. Bihelović, R. Matović and R. N. Saičić: Organocatalyzed Tsuji-Trost reaction: A new method for the closure of five- and six-membered rings, *Tetrahedron* **2009**, *65*, 10485-10494; Corrigendum: **2010**, *66*, 3275.
54. M. Bigović, V. Maslak, Z. Tokić-Vujošević, V. Divjaković and R. N. Saičić: A useful synthetic equivalent of a hydroxyacetone enolate, *Org. Lett.* **2011**, *13*, 4720-4723.
55. M. Trajković, Z. Ferjančić and R. N. Saičić: An aldol approach to the enantioselective synthesis of (-)-oseltamivir phosphate, *Org. Biomol. Chem.* **2011**, *9*, 6927-6929.
56. F. Bihelović, R. N. Saičić: Total synthesis of (-)-atrop-abyssomicin C, *Angew. Chem. Int. Ed.* **2012**, *51*, 5687-5691.
57. M. Trajković, Z. Ferjančić, R. N. Saičić: A convenient procedure for the preparation of Garner's aldehyde, *Tetrahedron: Asymmetry* **2012**, *23*, 602-604.
58. M. Trmčić, R. Matović, G. Tovilović, B. Ristić, V. Trajković, Z. Ferjančić and R. N. Saičić: A Novel C,D-Spirolactone Analogue of Paclitaxel: Autophagy Instead of Apoptosis as a Previously Unknown Mechanism of Cytotoxic Action for Taxoids, *Org. Biomol. Chem.* **2012**, *10*, 4933-4942.
59. Z. Ferjančić, R. Matović, R. N. Saičić: Synthetic studies towards D-modified paclitaxel analogues, *J. Serb. Chem. Soc.* **2012**, *77*, 1529-1539.
60. M. Trajković, Z. Ferjančić and R. N. Saičić: Formal synthesis of (-)-oseltamivir phosphate, *Synthesis* **2013**, *45*, 389-395.

61. F. Bihelović, I. Karadžić, R. Matović and R. N. Saičić: Total synthesis and biological evaluation of (-)-atrop-abyssomicin C, *Org. Biomol. Chem.* **2013**, *11*, 5413-5424.
62. J. Marjanovic, V. Divjakovic, R. Matovic, Z. Ferjancic and R. N. Saicic: Double asymmetric synthesis in organocatalyzed aldol reaction. Total synthesis of (+)-2-*epi*-hyacinthacine A<sub>2</sub> and (-)-3-*epi*-hyacinthacine A<sub>1</sub>, *Eur. J. Org. Chem.* **2013**, 5555-5560.

**Patents :**

1. Z. Batalović, B. Dunjić, S. Tasić, B. Božić, E. Dzunuzović, R. Saičić, and R. Matović: Photocurable urethane-acrylate-terminated hyperbranched polyesters. PCT Int. Appl. (2005), WO 2005014679 A1 20050217 C.

**Lectures :**

1. R. N. Saičić: Sequential free-radical reactions. Applications in organic synthesis. Section lecture; XXXV Conference of the Serbian Chemical Society, Belgrade, 18-20 january, 1993, Abstracts, OH-SP, p. 75.
2. R. N. Saičić: Chiral synthons in organic synthesis, A seminary for secondary school teachers, Belgrade, april 1993.
3. R. N. Saičić: Sequential free-radical reactions: annulations of five membered rings, a lecture given at the Jubilary Assembly of the Serbian Chemical Society, Belgrade, december 1996.
4. R. N. Saičić: Réactions radicalaires en cascade ; formation des noyaux cyclopentaniques, L’Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, Gif sur Yvette, France, 11. 09. 1996.
5. R. N. Saičić: Réactions radicalaires en cascade ; formation des noyaux cyclopentaniques, Ecole Polytechnique, Palaiseau, France, 25. 09. 1996.
6. R. N. Saičić: Réactions radicalaires en cascade : formation de liaisons carbone-carbone sur des carbones nonactivés (lointains), L’Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, Gif sur Yvette, France, 21. 09. 2000.
7. R. N. Saičić: Tactical combinations of organic reactions in organic synthesis: new possibilities of old reactions, 44 Conference of the Serbian Chemical Society, Belgrade, January 2005.
8. R. N. Saičić: Combinaisons tactiques des réactions dans la synthèse : comment élargir le champ d’application des réactions organiques, Galderma, l’Institut de recherche et de développement, Sophia-Antipolis, Nice, France, 7. 06. 2005.
9. R. N. Saičić: Combinaisons tactiques des réactions dans la synthèse : comment élargir le champ d’application des réactions organiques, Ecole Polytechnique, Palaiseau, France, 15. 06. 2005.
10. R. N. Saičić: Nobel Prizes for chemistry in the years 2001 and 2005: new arms in the arsenal of organic synthesis. Kolarčeva zadužbina, Belgrade, 8. 12. 2005.

11. R. N. Saičić: Tactical combinations of reactions in organic synthesis: extending the scope of organic reactions, International Symposium on Organic Chemistry, Sofia, Bulgaria, 9.-12. 12. 2006., Abstracts, p. 32.
12. R. N. Saičić: Tactical combinations of reactions in organic synthesis: extending the scope of organic reactions, Institute od Organic Chemistry, University of Bern, Bern, Switzerland, 13; 4, 2007.
13. R. N. Saičić: Combinaisons tactiques des réactions dans la synthèse : comment élargir le champ d'application des réactions organiques, Université Louis Pasteur, Strasbourg, France, 3. 10. 2008.
14. R. N. Saičić: Tactical combinations of organic reactions in organic synthesis: new possibilities of known reactions, Faculty of Science, University of Kragujevac, Serbia, 28. 04. 2009.
15. R. N. Saičić: Combinaisons tactiques des réactions dans la synthèse : comment élargir le champ d'application des réactions organiques, Université de Strasbourg, Faculté de Pharmacie, France, 3. 11. 2009.
16. R. N. Saičić: Combinaisons tactiques des réactions dans la synthèse : comment élargir le champ d'application des réactions organiques, Université de Nancy, Faculté de Chimie, Nancy, France, 5. 11. 2009.