

Dr Svetlana Marković, vanredni profesor  
*Curriculum Vitae*

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<i>Datum rođenja</i>	18.04.1959
<i>Mesto rođenja:</i>	Kruševac, Srbija
<i>Adresa:</i>	Univerzitet u Kragujevcu
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#### OBRAZOVANJE

<i>Osnovna škola:</i>	Kruševac , Srbija, 1966 – 1974.
<i>Gimnazija:</i>	Kruševac, Srbija, 1974 – 1978.
<i>Studije hemije:</i>	Prirodno-matematički fakultet, Grupa za hemiju
	Univerzitet u Kragujevcu
	Kragujevac, 1978 – 1983.
<i>Poslediplomske studije:</i>	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu
	Kragujevac, 1988.
<i>Doktorske studije:</i>	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu,
	Kragujevac, 1992.
<i>Strani jezici:</i>	Engleski

#### PROFESIONALNA KARIJERA

<i>Docent:</i>	Institut za hemiju
	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu
	Kragujevac, 1993 – 2003
<i>Vanredni profesor:</i>	Institut za hemiju
	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu
	Kragujevac, 2003
<i>Predmeti koje predaje:</i>	Računari u hemiji
<i>Naučna oblast istraživanja:</i>	Računarska i matematička hemija

#### UČEŠĆE NA PROJEKTIMA

<i>Domaći:</i>	Broj projekta	Naziv projekta
	142025	Fizička hemija dinamičkih stanja i struktura neravnotežnih sistema – od monotone do oscilatorne evolucije i haosa

## NAUČNI RADOVI (ISI lista)

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I. Gutman, Z. Marković, S. Marković: <i>A simple method for the approximate calculation of Hosoya's index</i> , Chem. Phys. Letters <b>134(2)</b> (1987) 139-142.
I. Gutman, S. Marković, M. Marinković: <i>Investigation of the Cioslowski formula</i> , Commun. Math. Chem. (Match) <b>22</b> (1987) 277-284.
I. Gutman, S. Marković: <i>Topological properties of benzenoid systems. XLVIIIa. An empirical study of two contradictory formulas for total <math>n</math>-electron energy</i> , Commun. Math. Chem. (Match) <b>25</b> (1990) 141-149.
S. Marković: <i>The evaluation of the eighth moment for benzenoid graphs</i> , Theor. Chim. Acta <b>81</b> (1992) 237-244.
I. Gutman, S. Marković: <i>Almost-isospectral benzenoid systems</i> , Chem. Phys. Letters <b>185(5-6)</b> (1991) 473-477.
D. Babić, I. Gutman, S. Marković, M. Stanković: <i>On the almost-isospectrality concept for benzenoid systems</i> , Commun. Math. Chem. (Match) <b>28</b> (1992) 3-12.
I. Gutman, S. Marković: <i>Benzenoid graphs with equal maximum eigenvalues</i> , J. Math. Chem. <b>13</b> (1993) 213-215.
I. Gutman, S. Marković, G. G. Hall: <i>Revisiting a simple regularity for benzenoid hydrocarbons. Total <math>n</math>-electron energy versus the number of Kekulé structures</i> , Chem. Phys. Letters <b>234</b> (1995) 21-24.
S. Marković, A. Stajković: <i>The evaluation of spectral moments for molecular graphs of phenylenes</i> , Theor. Chem. Acc. <b>96</b> (1997) 256-260.
S. Marković, I. Gutman: <i>Spectral moments of the edge adjacency matrix in molecular graphs. Benzenoid hydrocarbons</i> , J. Chem. Inf. Comput. Sci. <b>39(2)</b> (1999) 289-293.
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S. Marković, Z. Marković, R.I. McCrindle: <i>Spectral moments of phenylenes</i> , J. Chem. Inf. Comput. Sci. <b>41(1)</b> (2001) 112-119.
S. Marković, Z. Marković, J.P. Engelbrecht, R.I. McCrindle: <i>Spectral moments of polycyclic aromatic hydrocarbons. Solution of a kinetic problem</i> , J. Chem. Inf. Comput. Sci. <b>42(1)</b> (2002) 82-86.
Z. Marković, S. Marković, N. Begović: <i>Influence of Alkali Metal Cations upon the Kolbe-Schmitt Reaction Mechanism</i> , J. Chem. Inf. Model. <b>46</b> (2006) 1957-1964.
N. Pejić, S. Blagojević, S. Anić, V. Vukojević, M. Mijatović, J. Ćirić, Z. Marković, S. Marković, Lj. Kolar-Anić: <i>Kinetic Determination of Morphine by means of Bray-Liebhaufsky Oscillatory Reaction System Using Analyte Pulse Perturbation Technique</i> , Anal. Chim. Acta <b>582</b> (2007) 367-374.
Z. Marković, S. Marković, N. Manojlović, J. Predojević-Simović: <i>Mechanism of the Kolbe-Schmitt Reaction. Structure of the Intermediate Potassium Phenoxide - CO<sub>2</sub> Complex</i> , J. Chem. Inf. Model. <b>47(4)</b> (2007) 1520-1525.
Z. Marković, S. Marković: <i>Last Step of the Para Route of the Kolbe-Schmitt Reaction</i> , J. Chem. Inf. Model. <b>48</b> (2008) 143-147.
V. M. Leovac, S. Marković, V. Divjaković, K. M. Szécsényi, M. D. Joksović, I. Leban: <i>Structural and DFT studies on molecular structure of Ni(II) chloride complex with pyridoxal semicarbazone (PLSC). Unusual coordination mode of PLSC</i> , Acta Chim. Slov. <b>55</b> (2008) 850-860.
S. Marković, S. Stanković, S. Radenković, I. Gutman: <i>Electronic Structure Study of Thermal</i>

*Intraconversions of Some Dicyclopenta-Fused Polycyclic Aromatic Compounds*, J. Chem. Inf. Model. **48** (2008) 1984-1989.

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## NAUČNA SAOPŠTENJA

S. Marković, V. Ivanov-Petrović, I. Gutman (poster): *Primena teorije grafova u hemiji fenilena*, Jubilarni naučni skup "Sto godina Srpskog hemijskog društva", Beograd, 1997.

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Z. Marković, J.P. Engelbrecht, S. Marković: *Theoretical investigation of the Kolbe-Schmitt reaction mechanism*, 35<sup>th</sup> Convention of the South African Chemical Institute, Potchefstroom, RSA, 2000.

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S. Marković (predavanje po pozivu): *Extraction of coal-tar pitch with supercritical carbon dioxide*, 6<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, 2002.

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## UDŽBENICI

S. Marković, Z. Marković: *Računari i hemija*, ISBN 86-81829-51-3, Kragujevac, 2003.

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