

# Boris Furtula

mathematical chemist

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## Sci networks

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## Citizenship

Serbian

## Sex

Male

## Date of Birth

June 16, 1978

## Personal situation

Married, one children

## languages

serbian

english

## programming

♥ Python

Fortran

R

## interests

chemical graph theory, chemoinformatics, chemometrics, mathematical chemistry

## education

- 2005–2007 **Ph.D. in mathematical chemistry** Faculty of Science, University of Kragujevac  
*Comparative investigation of methods for calculating  $\pi$ -electron contents of rings in polycyclic aromatic compounds*
- 2002–2005 **M.Sc. in mathematical chemistry** Faculty of Science, University of Kragujevac  
*Variable Wiener index and its applications in physical chemistry*
- 1997–2002 **Undergraduate studies** Faculty of Science, University of Kragujevac  
Majoring in Chemistry

## experience

- 2015– **PMF Kragujevac** Associate Professor  
*Holds various courses in the field of theoretical and computer chemistry*
- 2013– **MATCH Communications in Mathematical and in Computer Chemistry**  
Deputy Editor  
*Publishing a scientific journal*
- 2010–2014 **Educons University** Assistant Professor  
*Taught the course of Physical Chemistry*
- 2009–2015 **PMF Kragujevac** Assistant Professor  
*Held various courses in the field of theoretical and computer chemistry*
- 2004–2013 **MATCH Communications in Mathematical and in Computer Chemistry**  
Secretary and Technical Editor  
*Publishing a scientific journal*

## scientific overview

- >130 **scientific papers**  
More than 100 articles are published in journals that are indexed by the Web of Science
- 8 **edited books**  
Edited (together with other editors) 8 books within the Mathematical Chemistry Series published at Faculty of Science, University of Kragujevac

## awards

- 2010 **The best scientific monograph in Serbia** Serbian Ministry of Science  
Awarded together with Professor Ivan Gutman for the best scientific monograph published in 2010.

## memberships

- 2019– **Karbala International Journal of Modern Science** Elsevier  
Editorial Board
- 2019– **Iranian Journal of Mathematical Chemistry** University of Kashan  
Editorial Board
- 2018– **Combinatorial Chemistry & High Throughput Screening** Bentham Science  
Editorial Board
- 2018– **Journal of Mathematical Nanoscience** Shahid Rajaei Teacher Training University  
Editorial Board
- 2017– **Journal of Applied Mathematics and Computing** Springer  
Associate Editor
- 2015– **Open Chemistry** De Gruyter  
Advisory Editorial Board
- 2013– **MATCH Communications in Mathematical and in Computer Chemistry**  
Faculty of Science, Univ. Kragujevac  
Deputy Editor
- 2013– **International Journal of Graph Theory and Its Applications** Mili Publ.  
Editorial Board
- 2012– **International Journal of Chemical Modeling** Nova Sci. Publ.  
Advisory Editorial Board

## publications

- [133] A. Gligorijević, S. Marković, I. Redžepović, B. Furtula, Application of spectral graph theory on the enthalpy of formation of acyclic saturated ketones, *Journal of the Serbian Chemical Society* **83** (2018) 1339–1349.  
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- [132] K. C. Das, I. Gutman, I. Milovanović, E. Milovanović, B. Furtula, Degree-based energies of graphs, *Linear Algebra and Its Applications* **554** (2018) 185–204.  
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- [131] B. Furtula, K. C. Das, I. Gutman, Comparative analysis of symmetric division deg index as potentially useful molecular descriptor, *International Journal of Quantum Chemistry* **118** (2018) #e25659.  
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- [130] Y. Ma, S. Cao, Y. Shi, I. Gutman, M. Dehmer, B. Furtula, From the connectivity index to various Randić-type descriptors, *MATCH Communications in Mathematical and in Computer Chemistry* **80** (2018) 85–106.  
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- [129] I. Gutman, B. Furtula, V. Katanić, Randić index and information, *AKCE International Journal of Graphs and Combinatorics* **15** (2018) 307–312.  
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- [128] B. Borovićanin, K. C. Das, B. Furtula, I. Gutman, Zagreb indices: bounds and extremal graphs, in: I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović (Eds.), *Bounds in Chemical Graph Theory – Basics*, University of Kragujevac, Kragujevac, 2017, pp. 67–153.  
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- [127] I. Gutman, B. Furtula, The total  $\pi$ -electron energy saga, *Croatica Chemica Acta* **90** (2017) 359–368.  
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- [126] B. Furtula, I. Gutman, Borderenergetic graphs of order 12, *Iranian Journal of Mathematical Chemistry* **8** (2017) 339–343.  
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- [125] I. Gutman, K. C. Das, B. Furtula, E. Milovanović, I. Milovanović, Generalizations of Szőkefalvi Nagy and Chebyshev inequalities with applications in spectral graph theory, *Applied Mathematics and Computation* **313** (2017) 235–244.  
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- [124] M. Antić, B. Furtula, S. Radenković, Aromaticity of non-planar fully benzenoid hydrocarbons, *The Journal of Physical Chemistry A* **121** (2017) 3616–3626.  
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- [123] I. Z. Milovanović, E. I. Milovanović, I. Gutman, B. Furtula, Some inequalities for the forgotten topological index, *International Journal of Applied Graph Theory* **1** (2017) 1–15.  
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- [122] I. Gutman, B. Furtula, K. C. Das, Extended energy and its dependence on molecular structure, *Canadian Journal of Chemistry* **95** (2017) 526–529.  
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- [121] B. Borovićanin, K. C. Das, B. Furtula, I. Gutman, Bounds for Zagreb indices, *MATCH Communications in Mathematical and in Computer Chemistry* **78** (2017) 17–100.  
**link**
- [120] K. C. Das, I. Gutman, B. Furtula, On spectral radius and energy of extended adjacency matrix of graphs, *Applied Mathematics and Computation* **296** (2017) 116–123.  
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- [118] M. Ivanović, B. Stojanović, V. Simić, A. Kaplarević Mališić, V. Ranković, B. Furtula, S. Mijailovich, High performance computing in multi-scale modeling, graph science and meta-heuristic optimization, *Journal of the Serbian Society for Computational Mechanics* **10** (2016) 50–70.  
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**DOI:** 10.1016/j.amc.2016.04.040
- [115] B. Borovićanin, B. Furtula, On extremal Zagreb indices of trees with given domination number, *Applied Mathematics and Computation* **279** (2016) 208–218.  
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- [74] I. Gutman, B. Furtula, Estimating the second and third geometric-arithmetic indices, *Hacettepe Journal of Mathematics and Statistics* **40** (2011) 69–76.  
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- [71] K. C. Das, I. Gutman, B. Furtula, On second geometric–arithmetic index of graphs, *Iranian Journal of Mathematical Chemistry* **1** (2010) 17–28.  
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