

Itana Nuša BUBANJA

Date of birth:
January 13th, 1988.

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WORK EXPERIENCE

Teaching Assistant

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
Since December 2020.

Research Associate

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
Since December 2017.

Research Assistant

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
October 2013 – December 2017.

Research Trainee

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
July 2013 – October 2013.

EDUCATION

Ph.D. in Physical Chemistry

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
2012 – 2017.

Master Degree in Physical Chemistry

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia
2011 – 2012.

Bachelor Degree in Physical Chemistry

Faculty of Physical Chemistry, University of *Belgrade*, Belgrade, Serbia
2007 – 2011.

PARTICIPATION IN SCIENTIFIC PROJECTS

- Project "Dynamics of Nonlinear Physicochemical and Biochemical Systems with Modeling and Predicting their Behavior under Nonequilibrium Conditions", financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia, Project No. 172015 (Since 2013.)
- Cost Action CM1304 "Emergence and Evolution of Complex Chemical Systems" (December, 2013 – December, 2017.)

RESEARCH INTERESTS

- Investigations of the oscillating chemical reactions and enzyme-catalyzed systems in batch and flow reactors
- Influence of the external fields on biochemical processes

JOURNAL ARTICLES

1. **I. N. Bubanja**, A. Ivanović-Šašić, Ž. Čupić, S. Anić and Lj. Kolar-Anić, Intermittent Chaos in the CSTR Bray–Liebhafsky oscillator - Specific flow rate dependence, *Frontiers in Chemistry*, **8** (2020) 560274.
2. **I. N. Bubanja**, B. Lončarević, M. Lješević, V. Beškoski, G. Gojgić-Cvijović, Z. Velikić and D. Stanisavljev, The influence of low-frequency magnetic field regions on the *Saccharomyces cerevisiae* respiration and growth, *Chemical Engineering & Processing: Process Intensification*, **143** (2019) 107593.
3. K. Stevanović, **I. N. Bubanja** and D. Stanisavljev, Is Iodine Oxidation with Hydrogen Peroxide Coupled with Nucleation Processes? *Journal of Physical Chemistry C*, **123**(27) (2019) 16671-16680.
4. D. R. Stanisavljev, K. Z. Stevanović and **I. N. M. Bubanja**, Outsized stochasticity of iodine oxidation with hydrogen peroxide and its implications on the reaction mechanism, *Chemical Physics Letters*, **706** (2018) 120-126.
5. **I. N. Bubanja**, M. C. Pagnacco, J. P. Maksimović, K. Stevanović and D. Stanisavljev, Different influences of adrenaline on the Bray-Liebhafsky and Briggs-Rauscher iodate based oscillating reactions, *Reaction Kinetics, Mechanisms and Catalysis*, **123**(1), (2018) 47–59.
6. **I. N. Bubanja**, T. Bánsági Jr. and A. F. Taylor, Kinetics of the urea–urease clock reaction with urease immobilized in hydrogel beads, *Reaction Kinetics, Mechanisms and Catalysis*, **123**(1), (2018) 177-185.

7. **I. N. Bubanja**, A. Ivanović-Šašić, Ž. Čupić, S. Anić, and Lj. Kolar-Anić, Intermittent Chaos in the Bray-Liebhafsky Oscillator. Dependence of Dynamic States on the Iodate Concentration, *Russian Journal of Physical Chemistry A*, **91**(13), (2017) 2525–2529.
8. K. Stevanović, **I. N. Bubanja** and D. Stanisavljev, Domination of thermodynamically demanding oxidative processes in reaction of iodine with hydrogen peroxide, *Chemical Physics Letters*, **684** (2017) 257-261.
9. D. Stanisavljev, G. Gojgić-Cvijović and **I. N. Bubanja**, Scrutinizing microwave effects on glucose uptake in yeast cells, *European Journal with Biophysics Letters*, **46**(1) (2017) 25–31.
10. **I. N. Bubanja**, S. Maćešić, A. Ivanović-Šašić, Ž. Čupić, S. Anić and Lj. Kolar-Anić, Intermittent chaos in the Bray-Liebhafsky oscillator. Temperature dependence, *Physical Chemistry Chemical Physics*, **18** (2016) 9770-9778.
11. D. Stanisavljev, **I. N. Bubanja**, K. Stevanović, Determination of iodate ion in the presence of hydrogen peroxide with the stopped-flow technique, *Reaction Kinetics, Mechanisms and Catalysis*, **118**(1) (2016) 143-151.
12. Ž. Čupić, Lj. Kolar-Anić, S. Anić, S. Maćešić, J. Maksimović, M. Pavlović, M. Milenković, **I. N. Bubanja**, E. Greco, S. D. Furrow and R. Cervellati, Regularity of Intermittent Bursts in Briggs-Rauscher Oscillating System with Phenol, *Helvetica Chimica Acta*, **97** (2014) 321-333.