



George Bezarashvili

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Physical and Analytical Chemistry

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Education

- University Diploma in Chemistry (Chemical Kinetics), Tbilisi State University
- Doctor of Sciences, in Chemistry, Ivane Javakhishvili Tbilisi State University

Teaching Courses

- Physical Chemistry - 1
- Physical Chemistry – 2
- Selected Chapters of Chemical Kinetics
- Mathematical modelling in Chemical Kinetics
- Kinetic methods of Chemical Analysis

Research Interests

- Heterogeneous inhibition of combustion processes
- Kinetics of chemical reactions
- Study of micellar systems

Running Projects:

- Novel fire-extinguishing powders and foam-suspensions based on domestic mineral raw materials (SRNSF)

Selected Publications

1. Kurtanidze M., Butkhuzi T., Rukhadze M., Kokiashvili N., **Bezarashvili G.**, Marcus J., Kunz W., Sigua K. Study of structural changes of water confined in Brij-30 reverse micelles: Revealing influence of ionic additives.- *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2017, vol. 519, p. 98-105.
2. **Bezarashvili G.**, Sulaberidze K., Petviashvili D., Gurchumelia L., Kekenadze M. To the question of heterogeneous inhibition of flame.- *Proceedings of the Georgian National Academy of Sciences: Chemical Series*, 2016, vol. 42, No. 4, p. 41-46.
3. **Bezarashvili G.**, Sulaberidze K. The kinetics of tri-Isobutylarsenite transesterification in presence of Decane.- *Bulletin of the Georgian National Academy of Sciences*, 2015, vol. 9, No. 1, p. 93-96.
4. Butkhuzi T., Kurtanidze M., Gvaramia M., Rukhadze M., **Bezarashvili G.**, Sigua K., Pradhan P. Investigation of influence of nonionic additives on structural changes of water droplets encapsulated in AOT reverse micelles by instrumental methods.- *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2014, vol. 460, p. 123-129.
5. Tsotniashvili M., Dzotsenidze Z., **Bezarashvili G.**, Katsitadze M., Kekenadze M. Kinetics of slow oxidation of Methane on the surfaces of different inorganic salts.- *Oxidation Communications*, 2014, vol. 37, No. 3, p. 649-656.
6. Butkhuzi T., Chaladze R., Lominadze N., Rukhadze M., Gvaramia M., Kurtanidze M., **Bezarashvili G.** Sigua K. Study of influence of ionic additives to AOT reverse microemulsions by liquid chromatography, IR and UV-Visible spectroscopy.- *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2014, vol. 442, p. 98-104.
7. Sulaberidze K., **Bezarashvili G.**, Tsanova R. The kinetics of partial transesterification of tri-Isobutylarsenite .- *Proceedings of the Georgian National Academy of Sciences : Chemical Series*, 2013, vol. 39, No. 1-2, p. 45-49.
8. Chaladze R., Gvaramia M., Kurtanidze M., **Bezarashvili G.**, Rukhadze M. Study of influence of salt additives on mixed reverse micelles *via* microemulsions chromatography and UV-Visible spectroscopy.- *Chemistry Letters*, 2012, vol. 41, No. 10, p. 1035-1037.
9. Gurchumelia L., **Bezarashvili G.**, Chikhradze M., Chudakova O. Investigation of novel composite fire-extinguishing powders based on mineral raw materials.- In: *Materials Characterization IV : Computational Methods and Experiments*.- Southampton, UK, WIT-press, 2009, p. 337-346.
10. Rukhadze M., **Bezarashvili G.**, Alexishvili M., Fisher N., Sebiskveradze M., Okujava N., Kirvalidze L. Mathematical description of dose-dependent pharmacokinetics of Phenobarbital.- *Online Journal of Veterinary Research*, 2007, vol. 11, No. 1, p. 75-88.