

Department of Organic Synthesis and Nanotechnology



PROPOSALS FOR COOPERATION

Head of Chair

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Specialties

Department of Organic Synthesis and
Nanotechnology



Specialties of Department:

1. Chemical technology of organic substances
2. Chemical technology of food additives and cosmetics



Subjects of scientific developments

Department of Organic Synthesis and Nanotechnology



1. Development of growth-stimulating and protective agents for crops and agricultural seeds based on nanocomponents in different forms
2. Biologically Active Additives (BAA) preparation technology for the treatment and prevention of cancer
3. Technologies of obtaining luminophors and dyes
4. Technologies of obtaining cosmetic products with cosmeceutical properties for different age groups
5. Technologies of food fortification with BAAs having antioxidant properties
6. The application of modern methods of quality control for pharmaceuticals, cosmetics and foods
7. Joint development of methods for determining the safety of nanoproducts

Scientific publications

Department of Organic Synthesis and Nanotechnology



- **Investigation of natural antioxidants for inhibition of peroxidation processes.** L.V. Krichkovskaya, A.R. Grycyk, L.S. Myronenko, S.V. Zhirnova, T.P. Mandzii, A.S. Shumakova, K.Y. Fedorenko. The Pharma Innovation Journal, Vol.3 (2015), P.55-57.
- **7-Hydroxyflavone Revisited. II. Substitution Effect on Spectral and Acid-Base Properties in the Ground and Excited States.** Serdiuk I.E., Roshal A.D. Journal of Physical Chemistry A, 119 (2015), №51, P.12672-12685.
- **Synthesis and studies of 1,8-naphthalendicarboxylic acid derivatives as fluorescent probes in medical biological investigations.** Distanov V., Roshal A., Dyubko T., Falaleeva T. / in: Modern directions in chemistry, biology, pharmacy and biotechnology. (2015), Lviv: Lviv Polytechnic Publishing House.— P. 57-64.
- **Textures of BSA films with different concentrations of sodium halides and water state in solution.** Glibitskiy G.M., Glibitskiy D.M., Gorobchenko O., Nikolov O., Roshal A.D., Semenov M., Gasan A. Nanoscale Research Letters, 10 (2015), №1, id.155, P.1-10.
- **Technogenic nanoparticles from coal carbonization products.** Shmalko V., Zelensky O., Rudkevich M. Chemistry&Chemical technology, Vol. 7, No. 3, (2013). P.359-364.

Why us?



More than 130 years of history

The optimal balance of experience and youth. Our department - a team of 50% experienced and honored, and 50% of young and ambitious scientists.



Science & Technology

We offer cooperation in the field of chemistry, nanotechnology and products of food, cosmetics, pharmaceutical industry, agriculture, animal husbandry and organic synthesis.



We work from the Heart

You will get a reliable partner with new progressive ideas and projects. We wear oneself out at work. One of our priorities is technology for small and medium businesses!

Contact Us!



Let's start our fruitful cooperation!



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