

## CURRICULUM VITAE

Dr. Oleksandr I. Zbruyev

### PERSONAL:

**Born:** March 23, 1977; Poltava region, Ukraine  
**Citizenship** Ukraine  
**Affiliation (primary):** State Scientific Institution "Institute for Single Crystals" of National Academy of Sciences of Ukraine (Nauky Ave. 60, Kharkiv, Ukraine, 61072)  
**Position:** Senior Researcher of Department of Organic and Bioorganic Chemistry  
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### EDUCATION AND ACADEMIC STATUSES:

**Specialist (M.Sc.) with honor** Chemistry, July 1998, Kharkiv State University  
**Candidate of Science (PhD)** Organic Chemistry, April 2008, Karazin Kharkiv National University  
**Senior Researcher** July 2024, SSI "Institute for Single Crystals" NASU

### PROFESSIONAL CAREER:

August 1993 – July 1998 **Student**, Kharkiv State University (Since 1999 – Karazin Kharkiv National University)  
June 1996 - October 1999 **Laboratory assistant**, Ukrainian Institute of Pharmacotherapy of Endocrine Diseases  
December 1999 – October 2000 **Junior Researcher**, Laboratory of Organic Chemistry at Department of Structural Chemistry, SSI "Institute for Single Crystals" NASU, Kharkiv  
October 1999 - June 2000 **Technician chemist**, Yuliivka Gas Processing Department  
October 2001 – June 2002 **Guest Researcher**, Karl-Franzens University of Graz, Austria (Prof. C.O. Kappe)  
February 2003 – February 2015 **Junior Researcher**, SSI "Institute for Single Crystals" NASU  
March 2008 **Guest Researcher**, Universität Konstanz, Germany (Prof. U. Groth)  
March 2015 – January 2017 **Senior engineer**, SSI "Institute for Single Crystals" NASU  
February 2017 – June 2019 **Junior researcher**, SSI "Institute for Single Crystals" NASU  
July 2019 – December 2022 **Researcher**, SSI "Institute for Single Crystals" NASU

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**Dr. Oleksandr I. Zbruyev**

January 2023 – present      **Senior researcher**, SSI "Institute for Single Crystals" NASU  
time

### **RESEARCH INTERESTS:**

Synthesis of heterocyclic compounds. The use of non-classical methods of activation of organic reactions, in particular, microwave radiation, ultrasonic activation, photochemistry, electrochemistry, the search for new activation methods. Research in the field of supramolecular chemistry and host-guest complexes. Optimization and scaling up of organic synthesis for kilogram quantities, the applied use of the results in agrochemistry and veterinary medicine. Development of new preparations and technological support for the synthesis of existing preparations.

### **TEACHING EXPERIENCE:**

- practical course in organic chemistry, Chemical Faculty of Karazin Kharkiv National University;
- Supervision of Master of Sciences and Bachelor diploma theses.

**Publications:** 38, including 1 chapter of monograph, 16 articles (16 Scopus), 3 patents.

h = 7 (Scopus).

### **Examples of publications in Q1 and Q2 journals (Scimago):**

#### **Journals Q1**

1. Zbruyev A.I., Shishkin O.V., Doroshenko A.O., Desenko S.M., Chebanov V.A. Stepwise photoinduced transformation of fused aziridines via stable biradicals and azomethine ylides // *Journal of Photochemistry and Photobiology A: Chemistry*, 2018, 353, 469-476
2. Zbruyev O., Belikov K., Khimchenko S., Blank T., Chebanov V. Modified Greener Procedure for the Synthesis of Cucurbit[6]uril // *Organic Process Research & Development*, 2023, 27, 129–135.

#### **Journals Q2**

1. Zhikol O., Miasnikova D., Vashchenko O., Pinchukova N., Zbruyev O., Shishkina S., Kyrychenko A., Chebanov V. Host-guest complexation of (pyridinyltriazolylthio) acetic acid with cucurbit[n]urils (n=6,7,8): Molecular calculations and thermogravimetric analysis. *Journal of Molecular Structure*, 2023, Vol. 1294, 136532.