

CURRICULUM VITAE



Siryk Yurii

Affiliation and official address:

PhD Student, Junior Researcher, Department of Optical and Laser Crystals,
Institute for Single Crystals NAS of Ukraine
61072 Ukraine, Kharkiv, Nauky Ave. 60.
E-mail: lab15.oxydal@gmail.com

Education (*degrees, dates, universities*)

1999 – M. S. Kharkiv State University, Ukraine (Materials Science of Reactor Building)

Career/Employment (*employers, positions and dates*)

1999-2003	Process Engineer	LLC firm “Oxydal”, Kharkiv, Ukraine
2003-2014	Process Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2014-2018	Leading Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2018-2020	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine
2020- date	PhD Student	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Crystal growth from melt, Development and investigation of crystal and composite materials for laser, optoelectronic technique and lighting.

Publications and patents

4 original articles; Scopus *h*-index - 2

<https://www.scopus.com/authid/detail.uri?authorId=6503861396>

<https://orcid.org/0000-0003-4744-5608>

Selected recent publications:

(1) Sidel'nikova, N.S., Rom, M.A., Dan'ko, A.Ya., Nizhankovskyi, S.V., **Siryk, Yu.V.**, Kryvonogov, S.I. [Formation of a phase with a spinel \(AlAl₂O₄\) structure on the surface of sapphire. - Functional Materials. - 2004. - V.11, №1.](#)

(2) Dan'ko, A.Ya., Sidel'nikova, N.S., Adonkin, G.T., Mel'nichuk, O.V., **Siryk, Yu.V.** [Increase of optical homogeneity of large sapphire elements by annealing in a reducing atmosphere - Surface. - X-ray, synchrotron and neutron research. - 2004. - No. 9.](#)

(3) Dan'ko, A.Ya., Rom, M.A., Sidel'nikova, N.S., **Siryk, Yu.V.**, Krivonogov, S.I. [Transformation of the surface layer of sapphire as a result of high-temperature annealing in a reducing environment. - Surface. X-ray, synchrotron and neutron research. - 2005. - No. 11.](#)

(4) Nizhankovskyi, S.V., Kozlovskyi, A.A., Kovalenko, N.O., Kryvonogov, S.I., **Siryk, Y.V.** Spectral properties of Er-doped yttrium aluminum garnet crystals grown by modified horizontal directional crystallization method. - Funct. Mater. 2018; 25 (4): 646-651. <https://doi.org/10.15407/fm25.04.646>