

CURRICULUM VITAE



Alexey N. Shekhovtsov

Affiliation and official address:

Senior research scientist, Department of optical and laser crystals,
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Education (*degrees, dates, universities*)

1995 – M. S. Kharkov State University, Ukraine (Radiophysics&Electronics)
2004 – Ph. D. Institute for Single Crystals NASU (Solid State Physics), Ukraine
2019 – Dr. Sc. Lviv Polytechnic National University (Technology, Equipment and
Production of Electron Facilities), Lviv, Ukraine

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

2008 - date Senior Research Scientist Institute for Single Crystals NASU, Kharkov, Ukraine

Main field of activity and current research interest

Crystal growth of new and promising multicomponent single crystals for lasers and non-linear optics, characterization of crystals.

Publications and patents:

4 - Chapters in books, more than 70 original articles, 5 patents;

Scopus *h*-index:11

<https://www.scopus.com/authid/detail.uri?authorId=6701778578>

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Selected recent publications:

1. M.B. Kosmyna, P.V. Mateychenko, B.P. Nazarenko, **A.N. Shekhovtsov**, S.M. Aksenov, D.A. Spassky, A.V. Mosunov, S.Yu. Stefanovich. Novel laser crystals in $\text{Ca}_9\text{Y}(\text{VO}_4)_{7-x}(\text{PO}_4)_x$ mixed system // J. Alloys and Compounds. – 2017. – V.708. - P.P.285-293. (DOI:10.1016/j.jallcom.2017.02.219), **Q1**.
2. A.Sulich, J.Z. Domagala, J.Härtwig, **A.N. Shekhovtsov**, M.B.Kosmyna, L.V. Gudzenko, W.Paszkwicz. Nature and spatial distribution of extended defects in Czochralski-grown $\text{Ca}_3\text{RE}_2(\text{BO}_3)_4$ (RE = Y, Gd) orthoborate single crystals // J.Physics D: Applied Physics. – 2019. – V.52. – 055102. – 13 p. (DOI:10.1088/1361-6463/aaec5a), **Q1**.
3. D.V. Deyneko, D.A. Petrova, S.M. Aksenov, S.Yu. Stefanovich, O.V. Baryshnikova, S.S. Fedotov, P.C. Burns, M.B. Kosmyna, **A.N. Shekhovtsov**, B.I. Lazoryak Ferroelectricity, ionic conductivity and structural paths for large cations migration in $\text{Ca}_{10.5-x}\text{Pb}_x(\text{VO}_4)_7$ single crystals, $x = 1.9, 3.5, 4.9$ // CrystEngComm. – 2019. – V.21 – P.P.1309-1319. (DOI:10.1039/C8CE01843J), **Q1**.