

CURRICULUM VITAE



Sidelnikova Nataiya

Affiliation and official address:

Senior Research Scientist, Institute for Single Crystals NAS of Ukraine

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Education (degrees, dates, universities)

1975 – M. S. Kharkov State University, USSR, (Physics)

1988 – Ph. D Institute for Single Crystals, Kharkov, USSR (Solid State Physics)

2000 – Diploma of Senior Research Scientist (Solid State Physics), Institute for Single Crystals NASU, Kharkiv

Career/Employment (employers, positions and dates)

1975 Engineer Institute for Single Crystals, Kharkov, USSR

1975-1990 Junior Research Institute for Single Crystals, Kharkov, USSR
Scientist

1990-date Senior Research Institute for Single Crystals NASU, Kharkiv,
Scientist Ukraine

Main field of activity and current research interest

Crystal growth, nonstoichiometry, defects in crystals.

Publications and patents

1- Books, 1- Chapters in books, more than 50 original articles, 7 patents.

Scopus *h*-index: 4

<https://www.scopus.com/authid/detail.uri?authorId=25655521300>

Selected recent publications:

(1) S.V. Nizhankovskii, **N.S. Sidel'nikova**, V.V. Baranov. Influence of growth conditions and carbothermic treatment on the charge state of the activator in Ti: sapphire. Functional Materials. -2018, Vol.25, № 2. pp. 208-217. DOI: 10.15407/fm25.02.208. Q3

(2) S.V. Nizhankovskii, **N.S. Sidel'nikova**, V.V. Baranov. Optical absorption and color centers in large Ti:Sapphire crystals grown by horizontally directed crystallization under reducing conditions. Physics of the Solid State, 2015, Vol.57, Issue 4, pp. 781-786. <https://doi.org/10.1134/S1063783415040216>. Q3

(3) S.V. Nizhankovskiy, A. A. Krukhmalev, H. Sh.ogly Kaltaev, **N.S. Sidel'nikova**, et al. Thermochemical Nitridation of Sapphire Substrates of Different Crystallographic Orientations. Physics of the Solid State, 2012, Vol. 54, No. 9, pp. 1896–1902. <https://doi.org/10.1134/S1063783412090211>. Q3

(4) K.So. Kaltaev, **N.S. Sidel'nikova**, S.V. Nizgankovsky, A.Ja. Dan'ko, et al. Influence of nitrogen-containing reducing media on the optical and luminescence characteristics of sapphire. Crystallography Reports, 2012, Vol. 57, Issue 7, p. 912-919.

<https://doi.org/10.1134/S1063774512070097>. Q3