

CURRICULUM VITAE



Voloshyn Oleksandr

Affiliation and official address:

Senior Research Scientist, Department of Optical and Laser Crystals,
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Education (*degrees, dates, universities*)

1996 – M. S. Kharkiv State University, Ukraine (Materials Science)

2006– Ph. D Institute for Single Crystals NASU, Kharkiv, Ukraine (Materials Science)

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

1996 - 2002 Engineer Institute for Single Crystals NASU, Kharkiv, Ukraine

2002 - 2005 PhD Student Institute for Single Crystals NASU, Kharkiv, Ukraine

2005 - 2007 Junior research Scientist Institute for Single Crystals NASU, Kharkiv, Ukraine

2007 - 2015 Research Scientist Institute for Single Crystals NASU, Kharkiv, Ukraine

2015 - 2019 Head of the Laboratory Institute for Single Crystals NASU, Kharkiv, Ukraine

2019 - date Senior Research Scientist Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Crystal growth from melts, Defects in crystals, Mechanical properties of crystals; Treatment of crystal materials; Development and investigation of composite materials for laser and optoelectronic technique.

Honors, Awards, Fellowships, Membership of Professional Societies:

The President's of Ukraine Prize for Young Scientists (2007); Prize of the Kharkiv Regional State Administration for Young Scientists (2008).

Publications and patents:

16 original articles, 8 patents;

Scopus *h*-index:2

<http://www.scopus.com/authid/detail.uri?authorId=55615516700>

Selected recent publications:

(1) E.F. Dolzhenkova, **A.V. Voloshin**, L.A. Lytvynov, R.I. Safronov. Mechanical characteristics of sapphire ribbons grown simultaneously by EFG method, Crystal Research and Technology, 2018, V.53, No.2, P.1-5 <https://onlinelibrary.wiley.com/doi/abs/10.1002/crat.201700258> **Q2**.

(2) R.Ye.Brodskii, P.V.Konevskiy, R.I.Safronov, **A.V.Voloshin**. Sapphire subdivision at different heat treating types // Functional Materials,2017, V 24 №3, P. 376-382.

<http://functmaterials.org.ua/contents/24-3/376> **Q3**.

- (3) S. V. Nizhankovskyi, A. V. Tan'ko, Yu. N. Savvin, S. I. Krivonogov, A. T. Budniko, **A. V. Voloshin**. Single crystalline YAG:Ce phosphor for powerful solid-state sources of white light. The influence of production conditions on luminescence properties and lighting // Optika i Spektroskopiya, 2016, Vol. 120, No. 6, pp. 978–984. <https://link.springer.com/article/10.1134/S0030400X16050210> **Q3**.
- (4) Safronov R.I., Litvinov L.A., **Voloshin A.V.**, Bochkov V.F. Manufacture of sapphire ribbons with low dislocation density// Functional Materials, 2016, V.23,№1,P. 88-91. <http://functmaterials.org.ua/contents/23-1/088> **Q3**.
- (5) **Voloshin A.V.**, Dolzhenkova E.F., Litvinov L.A. Anisotropy of deformation and fracture processes in sapphire surface// Journal of Superhard Materials, 2015, Vol. 37, No. 5, pp. 341–345. <https://link.springer.com/article/10.3103/S106345761505007X> **Q2**.