

CURRICULUM VITAE



Kapustnik Oleksii

Affiliation and official address:

Junior Research Scientist, Department of Nonlinear Crystals, Institute for Single Crystals NAS of Ukraine,
61072, Ukraine, Kharkiv, Nauky Ave. 60.

E-mail: mrlex.nauka@gmail.com

Education (*degrees, dates, universities*)

2011 – M. S. V. N. Karazin Kharkiv National University, Ukraine (Physics)

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

2011-2019	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2011-2014	Postgraduate	Institute for Single Crystals NASU, Kharkiv, Ukraine
2019-2020	Senior Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2020- date	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Crystal growth from melts; Physical properties of nonlinear-optical materials; $A^{II}B^{VI}:TM^{2+}$ single crystals.

Publications and patents

8 original articles, 3 patents;

Scopus *h*-index: 2

<https://www.scopus.com/authid/detail.uri?authorId=55654148300>.

Selected recent publications:

- (1) D. Sofronov, M. Rucki, O. Demidov, A. Doroshenko, E. Sofronova, A. Shaposhnyk, **O. Kapustnik**, P. Mateychenko, W. Kucharczyk, *Formation of TiO_2 particles during thermal decomposition of $Ti(NO_3)_4$, $TiOF_2$ and $TiOSO_4$* , Journal of Materials Research and Technology, 2020, Vol. 9(6), P. 12201–12212, DOI:10.1016/j.jmrt.2020.08.115, **Q1**.
- (2) **A.K. Kapustnik**, N.O. Kovalenko, I.S. Terzin, D.S. Sofronov, V.S. Zadorozhnii, *Mechanical properties of $GaSe:Cr^{2+}$ crystals*, Functional Materials, 2020, Vol. 27 (3), P. 454-457, DOI:10.15407/fm27.03.454.
- (3) D.S. Sofronov, P.V. Mormilo, N.O. Kovalenko, E.M. Sofronova, P.V. Mateychenko, E.Yu. Bryleva, **A.K. Kapustnik**, I.S. Terzin, *CdSe charge obtaining for single crystals growth in alkaline solutions*, Functional Materials, 2018, V. 25 (2), P. 353-357, DOI:10.15407/fm25.02.353.
- (4) N.O. Kovalenko, I.S. Terzin, S.V. Sulima, O.O. Poluboiarov, **A.K. Kapustnik**, D.S. Sofronov, P.F. Mateychenko, N.G. Dubina, S.L. Abashin, A.G. Fedorov, *High-pressure Bridgman growth and characterization of $Cd_{1-x}Mn_xTe:Fe$ crystals*, Crystal Research and Technology, 2017, Vol. 52 (8), P. 1600378, DOI:10.1002/crat.201600378, **Q2**.
- (5) **A.K. Kapustnik**, Yu.A. Zagoruiko, N.O. Kovalenko, *Molar heat capacity and thermal conductivity of single crystals of $ZnMgSe$ substitution solid solution*, Functional Materials, 2012, Vol. 19 (4), P. 438-440.