CURRICULUM VITAE

Kostenyukova Elena

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: e.kostenyukova@gmail.com

Education (*degrees, dates, universities)*

2014 – M. S.	National Technical University «Kharkiv Polytechnic Institute» (Physical Materials Science)	Kharkiv, Ukraine
2021 – Ph. D	Institute for Single Crystals NASU, (Materials Science)	Kharkiv, Ukraine

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

2014-2017	Postgraduate	Institute for Single Crystals NASU, Kharkiv, Ukraine
2014-2017	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2017-date	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Crystal growth from solutions; Physical properties of nonlinear-optical materials; Development and investigation of composite materials for laser and optoelectronic technique, Mechanical properties of composite systems

Honors, Awards, Fellowships, Membership of Professional Societies

Fellowships of the president of Ukraine (2016), Prize of the President of Ukraine for young students (2020).

Publications and patents

14 original articles, 1 patent;
Scopus ***h***-index: **4**
https://www.scopus.com/authid/detail.uri?authorId=56112674100.

Selected recent publications:

(1) M.Shopa, Y.Shopa, M.Shribak, **E.Kostenyukova** *et. al*, *Polarimetric studies of L-arginine-doped potassium dihydrogen phosphate single crystals,* Crystallography, 2020, Vol. 53, Part 5, P.1257-1265, DOI:10.1107/S1600576720010870, ***Q1***.

(2) O.N.Bezkrovnaya, G.N.Babenko, I.M.Pritula**, E.I. Kostenyukova** *et. al*, *Composite materials based on SiO_2-matrices saturated with DAST,* Journal of Non-Crystalline Solids, 2020, Vol. 535, 1 May 119957, DOI:10.1016/j.jnoncrysol.2020.119957, ***Q1.***

(3) M.Shopa, Y.Shopa, **E.Kostenyukova**, O.Bezkrovnaya, I.Pritula, *Optical activity and electro-optic effect of L -arginine doped KDP single crystals,* Optics and Laser Technology, 2019, Vol. 119, p.105655, DOI:10.1016/j.optlastec.2019.105655, ***Q1***.

(4) **E.I.Kostenyukova**, I.M.Pritula, O.N.Bezkrovnaya, N.O.Kovalenko *et. al*, *Effect of L-arginine phosphate doping on structural, optical and strength properties of KDP single crystal,* Journal Optics, 2019. V. 22, N 1. P. 60-66, DOI:10.15407/spqeo22.01.60.

(5) E.F.Dolzhenkova, **E.I.Kostenyukova**, O.N.Bezkrovnaya, I.M.Pritula, *Effect of doping of KDP crystal with amino acid L -arginine on the strength properties and character of laser damage,* Journal of Crystal Growth, 2017, Vol. 478, P. 111–116, DOI:10.1016/j.jcrysgro.2017.08.010, ***Q2***.
(6) **E.I.Kostenyukova,** O.N.Bezkrovnaya, E.F.Dolzhenkova, I.M.Pritula, *Optical, thermal, strength properties and SHG efficiency of KDP single crystals doped with N,N'-dimethyl urea,* Journal Functional Materials*, 2017,* Vol. 25, N 1. 34–42, DOI:10.15407/fm25.01.034.
(7) I.M.Pritula, E.I.Kostenyukova, O.N.Bezkrovnaya, M.I.Kolybaeva, D.S.Sofronov, E.F.Dolzhenkova, A.Kanaev, V. Tsurikov, *KDP crystal doped with L-arginine amino acid: growth, structure perfection, optical and strength characteristics,* Optical Materials, 57 (2016) 217-224, DOI:10.1016/j.optmat.2016.04.044, ***Q1***.
(8) A.S.Popov, A.V.Uklein, V.V.Multian, **E.I.Kostenyukova** *et. al*, *Nonlinear optical response of nanocomposites based on KDP single crystal with incorporated* $Al_2O_3 *nH_2O$ *nanofibriles under CW and pulsed laser irradiation at 532 nm,* Optics Communications*, 2016,* Vol. *379,* P. *45–53.*
DOI:10.1016/j.optcom.2016.05.060, ***Q1***.