CURRICULUM VITAE

Kravchenko Liudmyla

Affiliation and official address:
Research Scientist, PhD, Department of Condenced Matter Theory,
Institute for Single Crystals NAS of Ukraine
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Education (degrees, dates, universities)

2006 – M. S. V. N. Karazin Kharkiv National University, Ukraine (Physics)
2011 – Ph. D Institute for Single Crystals NASU, Kharkiv, Ukraine (Theoretical Physics)

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

2006-2011	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2006-2009	PhD Student	Institute for Single Crystals NASU, Kharkiv, Ukraine
2014-2019	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine
2020-date	Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

First-principles calculations, Point defects in crystals, Ti: Sapphire, 2D crustals; two-component Bose-Einstein condensate, critical velocities of superfluid motion, superconducting quantum Hall system, electron-hole pairs, critical currents.

Honors, Awards, Fellowships, Membership of Professional Societies

First place in conference-competition of young scientists of Institute for Single Crystals (2009 and 2017); Grant of NASU of Ukraine for young scientists (2017)

Publications:

30 publications, 9 original articles among them;
Scopus *h*-index:**6** (Web of Science Researcher ID AAJ-6797-2021);
https://publons.com/researcher/4342553/lyudmila-kravchenko/publications/;
https://www.scopus.com/authid/detail.uri?authorId=22985308500;
https://orcid.org/0000-0002-9033-2169.

Selected recent publications:

(1) **L. Yu Kravchenko**, D. V. Fil, *Control of charge state of dopants in insulating crystals: Case study of Ti-doped sapphire,* Physical Review Research, **2**, 023135, 2020, DOI: 10.1103/PHYSREVRESEARCH.2.023135
(2) **L. Yu Kravchenko**, D. V. Fil, *Defect complexes in Ti-doped sapphire: A first principles study*, Journal of Applied Physics **123**, 023104, 2018, DOI: 10.1063/1.5002532
(3) D. V. Fil, **L. Yu Kravchenko**, *Superconductivity of electron-hole pairs in a bilayer graphene system in a quantizing magnetic field,* Low Temperature Physics **35**, P. 712-723, 2009, DOI: 10.1063/1.3224730.