

CURRICULUM VITAE



Kulyk Kostyantyn (Kulik Konstantin)

Affiliation and official address:

Scientific Secretary, Institute for Single Crystals NAS of Ukraine
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Education (*degrees, dates, universities*)

2005 – M. S. V.N. Karazin Kharkiv National University, Kharkiv, Ukraine (Experimental Nuclear Physics and Plasma Physics)
2011 – Ph. D Institute for Single Crystals NASU, Kharkiv, Ukraine (Theoretical Physics)

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

2005-2005	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2005-2008	PhD Student	Institute for Single Crystals NASU, Kharkiv, Ukraine
2011-2012	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine
2014- date	Scientific Secretary, Senior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Nonlinear physics, turbulence theory, plasma physics.

Honors, Awards, Fellowships, Membership of Professional Societies

Award of the President of Ukraine for Young Scientists (2013);
Award of the Verkhovna Rada of Ukraine to the most talented young scientists in the field of basic and applied research and scientific and technical developments (2015).

Publications and patents

26 original articles; h-index: 3 (*Scopus*);
<https://www.scopus.com/authid/detail.uri?authorId=26633974300>.

Selected recent publications (*Scopus*):

1. Kopp, M.I., Tur, A.V., Kulik, K.N., Yanovsky, V.V. Nonlinear dynamo in obliquely rotating stratified electroconductive fluid in a uniformly magnetic field. East European Journal of Physics, 2020, 2020(1), pp. 5–36 <https://doi.org/10.26565/2312-4334-2020-1-01>
2. Yurchenko, A.N., Kulik, K.N., Voronov, A.P., Babenko, G.N. Vortex flows in acid solutions of lithium dihydrogen phosphate in a crystal growth unit. Functional Materials, 2015, 22(1), pp. 100–104 <http://dx.doi.org/10.15407/fm22.01.100>
3. Tur, A., Yanovsky, V., Kulik, K. Vortex structures with complex points singularities in two-dimensional Euler equations. New exact solutions Physica D: Nonlinear Phenomena, 2011, 240(13), pp. 1069–1079 <https://doi.org/10.1016/j.physd.2011.03.008>
4. Kulik, K.N., Tur, A.V., Yanovsky, V.V. Interaction of point and dipole vortices in an incompressible liquid. Theoretical and Mathematical Physics, 2010, 162(3), pp. 383–400 <https://doi.org/10.1007/s11232-010-0030-6>

5. Tur, A.V., Kulik, K.N., Yanovsky, V.V. New vortex structures in the two-dimensional hydrodynamic. *Functional Materials*, 2010, 17(4), pp. 477–482
6. Yanovsky, V.V., Tur, A.V., Kulik, K.N. Singularities motion equations in 2-dimensional ideal hydrodynamics of incompressible fluid. *Physics Letters, Section A: General, Atomic and Solid State Physics*, 2009, 373(29), pp. 2484–2487 <https://doi.org/10.1016/j.physleta.2009.02.023>