

CURRICULUM VITAE



Babenko Galina

Affiliation and official address:

Junior Research Scientist, Department of Nonlinear Crystals, Institute for Single Crystals NAS of Ukraine,
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Education (*degrees, dates, universities*)

1985 – M. S. Kharkov Polytechnic Institute, Ukraine (Electrochemistry)

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

1993-1996	Postgraduate	A. Pidhornyi Institute of Mechanical Engineering Problems, Kharkov, Ukraine
2004-2005	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2005 – date	Junior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Synthesis of raw materials; Crystal growth from solutions; Physical properties of nonlinear-optical materials

Publications and patents

Scopus *h*-index: **4** (*Web of Science Researcher ID* AAI-7913-2021);

<https://publons.com/researcher/4322810/gn-babenko/>;

<https://www.scopus.com/authid/detail.uri?authorId=24512346400>;

<https://orcid.org/0000-0002-1128-2547>.

Selected recent publications:

- O.N. Bezkravnyaya, **G.N. Babenko**, A.D. Roshal, I.M. Pritula *et. al*, *Composite materials based on SiO₂-matrices saturated with DAST*, Journal of Non-Crystalline Solids, 2020, Vol. 535, P. 119957, DOI:10.1016/j.jnoncrysol.2020.119957, **Q1**
- G.N. Babenko, A.P. Voronov, E.F. Dolzhenkova, V.S. Zadorozhny, I.M. Pritula, R. Galbadrakh, L. Enkhtor, *Solution growth and characterization of high-quality organic 4-N,N'-dimethylamino-N-methyl-4-stilbazolium tosylate crystals*, Functional Materials, 2020, Vol. 27, P. 681-686, DOI:10.15407/fm27.04.681.
- A.N. Iurchenko, A.P. Voronov, A.D. Roshal, S.I. Kryvonogov, **G.N. Babenko**, I.M. Pritula, *Growth peculiarities of doped lithium dihydrogen phosphate single crystals from nonstoichiometric solution*, Functional Materials, 2017, Vol. 24 (2), P. 226-236, DOI:10.15407/fm24.02.226.
- A.P. Voronov, **G.N. Babenko**, V.M. Puzikov, A.D. Roshal, A.N. Iurchenko, *Influence of thallium and salicylic acid impurities as well as of the solution stoichiometry on the growth kinetics of prismatic ADP crystal faces*, Journal of Crystal Growth, 2015, Vol. 415, P. 100-105, DOI:10.1016/j.jcrysgro.2014.12.035, **Q2**.
- A.N. Iurchenko, K.N. Kulik, A.P. Voronov, **G.N. Babenko**, *Vortex flows in acid solutions of lithium dihydrogen phosphate in a crystal growth unit*, Functional Materials, 2015, Vol. 22 (1), P. 100-104, DOI:10.15407/fm22.01.100.
- A.N. Iurchenko, A.P. Voronov, **G.N. Babenko**, M.A. Stumbra, V.M. Puzikov, *Study on lithium dihydrogen phosphate crystal growth conditions in nonstoichiometric solutions*, Functional Materials, 2014, Vol. 21 (3), P. 324-328, DOI:10.15407/fm21.03.324.
- A.P. Voronov, **G.N. Babenko**, V.M. Puzikov, A.N. Iurchenko, *Growth of LiH₂PO₄ single crystals from phosphate solutions*, Journal of Crystal Growth, 2013, Vol. 374, P. 49-52, DOI:10.1016/j.jcrysgro.2013.04.009, **Q2**.

- A.I. Ananenko, A.P. Voronov, **G.N. Babenko**, U.T. Vyday, V.I. Salo, *Hybrid scintillators on the basis of ammonium salicylate and ammonium dihydrogen phosphate for neutrons detection*, Functional Materials, 2012, Vol. 19 (1), P. 66-69.
- V.I. Salo, A.P. Voronov, V.F. Tkachenko, **G.N. Babenko**, A.V. Makoveev, *Growth of KDP single crystal blocks in defined crystallographic direction*, Journal of Crystal Growth, 2011, Vol. 337 (1), P. 13-19, DOI:10.1016/j.jcrysgro.2011.10.001, **Q2**.
- A.P. Voronov, V.I. Salo, V.M. Puzikov, **G.N. Babenko**, A.D. Roshal, V F. Tkachenko, *Hybrid organic–inorganic crystals based on ammonium dihydrogen phosphate and ammonium salicylate*, Journal of Crystal Growth, 2011, Vol. 335 (1), P. 84-89, DOI:10.1016/j.jcrysgro.2011.08.018, **Q2**.