

CURRICULUM VITAE



Leonid A. Lytvynov

Affiliation and official address:

Leading Research Scientist of Department of Crystalline Materials of Complex Compounds, Institute for Single Crystals of NAS of Ukraine, Ukraine, 61072, Kharkiv, 60 Nauky Ave.

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Education:

- 1958 – M. Sc. National Technical University “Kharkiv Polytechnic Institute”, USSR.
- 1973 – Ph. D. Moscow Institute of Chemical Machinery, USSR.
- 1994 – Dr. Sc. Institute for Single Crystals NASU, Kharkiv, Ukraine (Solid-State Physics)
- 2001 – Prof. Institute for Single Crystals NASU, Kharkiv, Ukraine (Solid-State Physics)

Career/Employment:

1958-1963	Engineer	Factory of Chemical Machines, Chirchik, Uzbekistan.
1963-1970	Leading Engineer	Institute for Single Crystals, Kharkov, USSR
1970-1994	Head of Laboratory	Institute for Single Crystals NASU, Kharkov, Ukraine
1994-2014	Head of Department	Institute for Single Crystals NASU, Kharkiv, Ukraine
2014 - data	Leading Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest:

Scintillation Materials, Devices for Registration of the Ionizing Radiation, Crystals for Optic and Quantum Electronics, high-T Superconductors, Constructional Crystals, Crystal Implants for Medicine.

Honors, Awards, Fellowships, Membership of Professional Societies:

Premium of USSR's Council of Ministers (1982), State Premium of Ukraine (2003).
Inventor of the Year of the National Academy of Sciences of Ukraine (2006).

Publications and patents:

Over 200 scientific articles, 6 books, and 160 patents. Scopus *h*-index: 7.

<https://www.scopus.com/authid/detail.uri?authorId=55614645000>

Selected recent publications:

1. **Leonid Lytvynov**. Aluminum oxide // Single Crystals of Electronic Materials, Growth and Properties: Woodhead Publishing Series in Electronic and Optical Materials (2019) 447-485. <https://doi.org/10.1016/B978-0-08-102096-8.00013-6>.
2. E.F. Dolzhenkova, A.V. Voloshin, **L.A. Lytvynov**, R.I. Safronov. Mechanical Characteristics of Sapphire Ribbons Grown Simultaneously by EFG Method // Crystal Research and Technology 53 (2018) 1700258. **2019IF: 1.169**. <https://doi.org/10.1002/crat.201700258>. **Q2**.
3. I. Kryvonosov, **L. Lytvynov**. Chemical potential of gaseous medium for corundum single crystals growth // Functional Materials 25 (2018) 586–593. <https://doi.org/10.15407/fm25.03.586>.
4. S.V. Ugrimov, A.N. Shupikov, **L.A. Lytvynov**, V.G. Yareschenko. Non-stationary response of sapphire rod on longitudinal impact. Theory and experiment // International Journal of Impact Engineering 104 (2017) 55–63. **2019IF: 3.642**. <https://doi.org/10.1016/j.ijimpeng.2017.02.005>. **Q1**.
5. I. Kryvonosov, **L. Lytvynov**. Optimization of KY-crystallization process // Functional Materials 24 (2017) 138–142. <https://doi.org/10.15407/fm24.01.138>.
6. I. Kryvonosov, **L. Lytvynov**. Analysis of dynamic parameters of the KY-crystallization process // Functional Materials 23 (2016) 300–306. <https://dx.doi.org/10.15407/fm23.02.300>.
7. A.V. Voloshin, E.F. Dolzhenkova, **L.A. Litvinov**. Anisotropy of deformation and fracture processes in sapphire surface // Journal of Superhard Materials 37 (2015) 341–345. **2019IF: 0.514**. <https://doi.org/10.3103/S106345761505007X>. **Q2**.
8. P.V. Konevskii, R.E. Brodskii, **L.A. Litvinov**. Impact fragmentation of sapphire // Journal of Superhard Materials 37 (2015) 140–142. **2019IF: 0.514**. <https://doi.org/10.3103/S1063457615020094>. **Q2**.
9. A.V. Voloshin, E.F. Dolzhenkova, **L.A. Litvinov**, A.A. Petukhov, E.V. Slyunin. The influence of coolant pH on efficiency of machining sapphire // Journal of Superhard Materials 35 (2013) 126–130. **2019IF: 0.514**. <https://doi.org/10.3103/S1063457613020093>. **Q2**.