CURRICULUM VITAE

Baranov Viacheslav
Affiliation and official address:
Junior Research Scientist, Department of Optical and Laser Crystals, Institute for Single Crystals NAS of Ukraine 61072 Ukraine, Kharkiv, Nauky Ave. 60.
E-mail: baranov.isc@gmail.com

Education (*degrees, dates, universities)*

1990 – M. S. Kharkiv Polytechnic Institute, Ukraine (Physics of Metals),
2019 – Ph. D. Institute for Single Crystals NASU, Kharkiv, Ukraine (Materials Science)

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

2011-2015	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2015-2017	Senior 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 melts, Physical properties of optical and laser materials; Defects in crystals, Development and investigation of composite materials for laser and optoelectronic technique.

Publications and patents

15 original articles, 2 patents;
Scopus *h*-index: **4**
https://www.scopus.com/authid/detail.uri?authorId=57197262646
https://orcid.org/0000-0001-8649-1784

Selected recent publications:

(1) Optical absorption and color centers in large Ti: Sapphire crystals grown by horizontally directed crystallization under reducing conditions/ S.V. Nizhankovskii, N.S. Sidel'nikova, V.V. Baranov // Physics of the Solid State. –2015. Vol.–57, Issue 4. – P. 781–786.
10.1134/S1063783415040216
(2) Influence of melt convection on the dynamics and capture inclusions for growing oxide crystals by HDC / S.V. Naydenov, S.V. Nizhankovskiy, A.V. Tan'ko, L.A. Grin', V.V. Baranov // Functional Materials. –2015. –Vol.–22, № 3. – P. 380–386.
10.15407/fm22.03.380
(3) Charge state of the activator in Ti:sapphire crystals grown by HDC method / Functional Materials. – 2015. –Vol.–22, № 4. – P. 461–469.
(4) Morphological stability of sapphire crystallization front / V.V. Baranov, S.V. Nizhankovskyi. // Crystallography Reports. –2016. –Vol.–61, Issue 2. – P. 331–335.
10.1134/S1063774516020048
(5) Influence of crystal growth conditions and carbothermal treatment on activator charge state in Ti: Sapphire/ S.V. Nizhankovskii, N.S. Sidel'nikova, V.V. Baranov // Functional Materials. –2018. –Vol.–25, № 2. – P. 208–217.
10.15407/fm25.02.208