

Accepted Manuscript

Title: Glasses in the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3-\text{ErF}_3$ system

Authors: L. Ignatieva, N. Savchenko, Yu.V. Marchenko

PII: S0022-1139(18)30226-4

DOI: <https://doi.org/10.1016/j.jfluchem.2018.07.001>

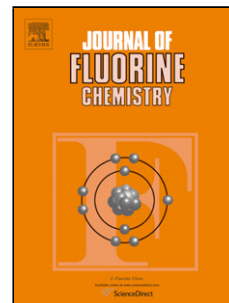
Reference: FLUOR 9190

To appear in: *FLUOR*

Received date: 8-6-2018

Revised date: 6-7-2018

Accepted date: 6-7-2018



Please cite this article as: Ignatieva L, Savchenko N, Marchenko YV, Glasses in the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3-\text{ErF}_3$ system, *Journal of Fluorine Chemistry* (2018), <https://doi.org/10.1016/j.jfluchem.2018.07.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Glasses in the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3-\text{ErF}_3$ system

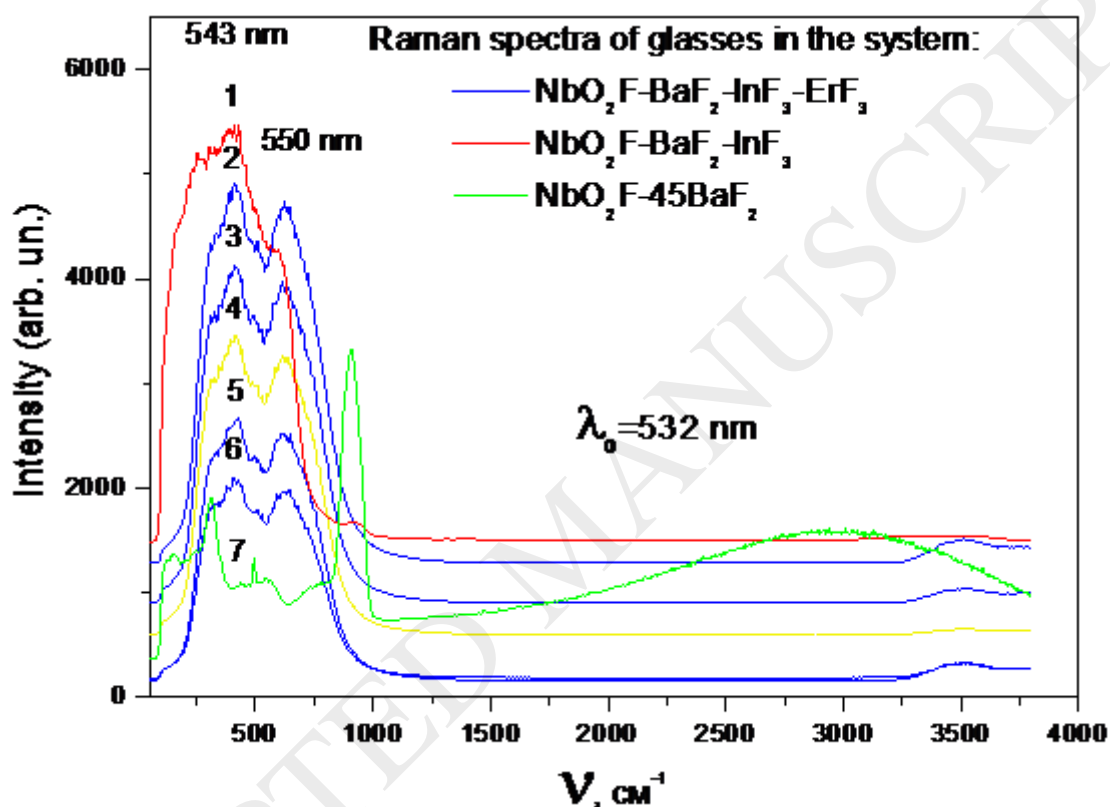
L. Ignatieva^a, N. Savchenko^a, Yu.V. Marchenko^{a,b}

^aInstitute of Chemistry, Far-Eastern Branch, Russian Academy of Sciences

^bFar Eastern Federal University (FEFU)

ignatieva@ich.dvo.ru

GRAPHICAL ABSTRACT



Keywords:

Glasses;
crystallization;
luminescence;
Raman spectra;
Rare-Earth ions

HIGHLIGHTS

1. For the first time, the glasses in the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3$, $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3-\text{ErF}_3$ systems were prepared.
2. The glasses of the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3$ system are characterized by multistage crystallization.
3. The networks of glasses are formed by the NbO_nF_n polyhedra connected with the oxygen bridges.
4. The contribution of erbium photoluminescence of the $\text{NbO}_2\text{F}-\text{BaF}_2-\text{InF}_3-\text{ErF}_3$ system was revealed.

Download English Version:

<https://daneshyari.com/en/article/7752243>

Download Persian Version:

<https://daneshyari.com/article/7752243>

[Daneshyari.com](https://daneshyari.com)