Curriculum Vitae

Svetlana Krylova

Birthday: 16 February, 1975
Citizenship: Russian Federation

Position: Researcher
Affiliation: Kirensky Institute of Physics Federal Research Center KSC SB RAS
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Education

Sep 1992 – Jul 1997 (Advisor: A.G. Sizyh)
Krasnoyarsk State University, specialist, Physics
Krasnoyarsk, Russia

Sep 2003 – Feb 2005
Kirensky Institute of Physics Federal Research Center KSC SB RAS, Krasnoyarsk, Russia

February 2005
PhD Thesis
Raman spectroscopy and phase transitions in Rb2KScF6 and RbMnCl3 perovskite-like crystals
Advisor: Alexander Vtyurin

Research Experience

Dec 1997 – present: Kirensky Institute of Physics FRC KSC SB RAS, Krasnoyarsk, Russia
Mar 2006 – present: Researcher

Other Experience

Journal referee: Dalton Transactions, CrystEngComm

2013 Member of local organizing committee Russian conference “Raman spectroscopy – 85 years of investigations” and 4 th Siberian seminar «Raman spectroscopy» Krasnoyarsk, 26–29 August 2013

2014 Member of steering organizing committee International conference on perspectives in Vibrational Spectroscopy, Trivandrum, India

2017 Member of local organizing committee 6 th Siberian seminar «Raman spectroscopy» Krasnoyarsk, 21–23 August 2017.

Current Research Interests:

1. Raman Spectroscopy investigations of structural phase transitions in crystals with temperature and/or pressure changing.
2. Lattice dynamics, symmetry analysis of crystalline structures.
3. Ferroelectrics and multiferroic properties of the new materials.

Publications

2013 – present

1. A. S. Krylov, A.N. Vtyurin, V. N. Voronov and **S.N. Krylova**: Manifestations of Structural Phase Transitions in a Rb2KLuF6 Crystal in Its Raman Spectra. Optics and Spectroscopy, 2019, Vol. 126, No. 4, pp. 341–345.
2. A. Krylov, **S. Krylova**, S. Kopyl, A. Kholkin: Non-Hydrostatic Pressure-Induced Phase Transitions in Self-Assembled Diphenylalanine Microtubes. Technical Physics 09/2018; 63(9):1311-1315., DOI:10.1134/S1063784218090098
3. A. S. Krylov, S. N. Sofronova, I. A. Gudim, **S. N. Krylova**, Rajesh Kumar, A. N. Vtyurin: Manifestation of magnetoelastic interactions in Raman spectra of Ho x Nd 1- x Fe 3 (BO 3) 4 crystals. Journal of Advanced Dielectrics 04/2018; 8(2):1850011., DOI:10.1142/S2010135X1850011X
4. Alexander Vtyurin, Alexander Krylov, Vladimir Voronov, **Svetlana Krylova**: Raman scattering and phase transitions in fluorides with elpasolite structure. Ferroelectrics 05/2017; 512(1):58-64., DOI:10.1080/00150193.2017.1349863
5. A. S. Krylov, I. A. Gudim, I. Nemtsev, **S. N. Krylova**, A. V. Shabanov, A A Krylov: Raman study of HoFe3(BO3)4 at simultaneously high pressure and high temperature: p–T phase diagram. Journal of Raman Spectroscopy 02/2017., DOI:10.1002/jrs.5078
6. Alexander S. Krylov, M. S. Molokeev, Sergey V Misyul, **Svetlana Krylova**, Oreshonkov Aleksandr, Alexnder Ivanenko, Valerya Zykova, Yurii Ivanov, Andrei Sukhovsky, V. N. Voronov, Ivan Safonov, Alexander Vtyurin: Crystal structure and phase transitions of layered perovskite-like CsScF 4 crystal. CrystEngComm 11/2016; 18(43):8472 - 8486., DOI:10.1039/C6CE01144F
7. Alexander Krylov, Natalia Laptash, Alexander Vtyurin, **Svetlana Krylova**: Phase transitions in (NH4)2MoO2F4 crystal. Journal of Molecular Structure 11/2016; 1124:125-130., DOI:10.1016/j.molstruc.2016.03.009
8. Alexander S Krylov, E.M. Kolesnikova, Ludmila I. Isaenko, **Svetlana N. Krylova**, Alexander N. Vtyurin: Measurement of Raman-Scattering Spectra of Rb2KMoO3F3 Crystal: Evidence for Controllable Disorder in the Lattice Structure. Crystal Growth & Design 03/2014; 14(3):923–927., DOI:10.1021/cg4008894
9. Alexander S. Krylov, Sergey V. Goryainov, Natalia M. Laptash, Alexander N. Vtyurin, Svetlana V. Melnikova, **Svetlana N. Krylova**: Influence of the Molecular Groups Ordering on Structural Phase Transitions in (NH4)2WO2F4 Crystal. Crystal Growth & Design 01/2014; 14(1):374–380., DOI:10.1021/cg400899m
10. A. S. Krylov, A. N. Vtyurin, A. S. Oreshonkov, V. N. Voronov, **S. N. Krylova**: Structural transformations in a single-crystal Rb2NaYF6: Raman scattering study. Journal of Raman Spectroscopy 05/2013; 44(5):763–769., DOI:10.1002/jrs.4263