

DR. ALEXANDER V. KNYAZEV

UNIVERSITY	National Research Lobachevsky State University of Nizhny Novgorod
PROFICIENCY IN ENGLISH	Intermediate
MAJOR OF PH.D. PROGRAMME	Chemical Science
CODE OF PH.D. PROGRAMME	04.06.01
RESEARCH PROJECTS OF PROSPECTIVE SCIENTIFIC SUPERVISOR	RESEARCH PROJECT TEAM PARTICIPANT: Grants of RFFR, RSF in organic chemistry, 2018-2020
TOPICS FOR PROSPECTIVE PH.D. RESEARCH	<ul style="list-style-type: none"> Physical and chemical research of hormones and proteins
<div style="text-align: center;">  <p>Research supervisor: DR. ALEXANDER V. KNYAZEV, Dean, Faculty of Chemistry Professor, Dr. of Science, Chemical Science</p> </div>	RESEARCH AREA: <ul style="list-style-type: none"> Chemical thermodynamics inorganic and organic compounds
	SUPERVISOR'S RESEARCH INTERESTS: <ul style="list-style-type: none"> Crystal chemistry, Chemical thermodynamics, Biologically active substances
	RESEARCH HIGHLIGHTS: <ul style="list-style-type: none"> Highly-equipped labs & research environment. Grant project involvement.
	SUPERVISOR'S SPECIFIC REQUIREMENTS: <ul style="list-style-type: none"> Good skills in Physical research methods (X-ray, Vibrational spectroscopy, Differential scanning calorimetry).
	SUPERVISOR'S PUBLICATIONS: <ol style="list-style-type: none"> Zolotukhin A., Bubnov M., Arapova A., Fukin G., Rumyantsev R., Bogomyakov A., Knyazev A.V., Cherkasov V. The valence tautomeric interconversion in bis-dioxolene cobalt complex with iminopyridine functionalized by TEMPO moiety. Phase transition coupled with monocrystals destruction. <i>Inorganic Chemistry</i>. 2017. V.56. P.14751-14754. Knyazev A.V., Somov N.V., Shipilova A.S., Gusarova E.V., Knyazeva S.S., Stepanova O.V., Chuprunov E.V. Structural study of polymorphism in methylprednisolone aceponate. <i>Journal of Molecular Structure</i>. 2017. V.1141. P.164-169. A.V. Knyazev, V.N. Emel'yanenko, A.S. Shipilova, M.I. Lelet, E.V. Gusarova, S.S. Knyazeva, S.P. Verevkin, Thermodynamic properties of vitamin B₉, <i>The Journal of Chemical Thermodynamics</i> 2016. V.100. 185-190. A.V. Knyazev, S. Ishmayana, U.M.S. Soedjanaatmadja, M.I. Lelet, A.S. Shipilova, S.S. Knyazeva, A.A. Amosov, A.N. Shushunov, Comprehensive thermodynamic and structural study of hevein. <i>Journal of Chemical Thermodynamics</i>, 2019, 131, 168. Sukhanov M.V., Velmuzhov A.P., Knyazev A.V., Kotereva T.V., Churbanov M.F., Dmitrienko A.S. Unit cell parameters of ³²S₈ - ³⁴S₈ solid mixtures and their extremal behavior. <i>Journal of Physics and Chemistry of Solids</i>. 2020. V.139. 109316
RESULTS OF INTELLECTUAL ACTIVITY	Patent Certificates: 1. Bulanov E.N., Knyazev A.V. ., Korokin V.G., Blokhina A.G. Method for producing nanohydroxyapatite. Patent №2614772.

	2. Knyazev A.V. , Somov N.V., Shipilova A.S., Gusarova E.V., Knyazeva S.S. Monocrystalline ethanol cortisone acetate solvate and method for its preparation. Patent №2637504.
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