

CONTENTS

Original articles

<i>Buz'ko V. Yu., Ivanin S. N., Shutkin I. Yu., Goryachko A. I., Udodov S. A., Ozolin A. V.</i> Atomic composition, microstructure, and electromagnetic properties of schungite micropowder		
<i>Buchinskaya I. I., Ivchenko A. V.</i> Solubility of calcium and strontium fluorides in a sodium nitrate melt and choosing a crucible material for working with their solution melts		
<i>Vasilkova E. I., Pirogov E. V., Sobolev M. S., Ubiyovk E. V., Mizerov A. M., Seredin P. V.</i> Molecular beam epitaxy of metamorphic buffer for InGaAs/InP photodetectors with high photosensitivity in the range of 2.2–2.6 μm	20	
<i>Danilaev M. P., Dorogov N. V., Drobushchev S. V., Karandashov S. A., Klabukov M. A., Kuklin V. A.</i> Dispersed copper (I) oxide particles encapsulated by polylactide	27	
<i>Ivashenko D. V., Urbanovich D. A., Polyn I. Y., Bushinsky M. V., Trukhanov A. V., Pankov V. V.</i> Synthesising dispersed powders of CoZn ferrites for microwave absorption	37	
<i>Ismayilova E. N., Mashadiyeva L. F., Bakhtiyarly I. B., Babanly M. B.</i> Phase equilibria in the $\text{Cu}_2\text{SnSe}_3\text{--Sb}_2\text{Se}_3\text{--Se}$ system	47	
<i>Krysanova T. A., Kotova D. L., Davydova E. G., Krysanov V. A.</i> Thermochemical characteristics of the formation of aqueous solutions of imino acids	55	
<i>Lisunova E. I., Perov N. S., Mittova V. O., Bui Xuan Vuong, Nguyen Anh Tien, Sladkopevtsev B. V., Alekhina Yu. A., Kostryukov V. F., Mittova I. Ya.</i> Formation during glycine-nitrate combustion and magnetic properties of $\text{YFe}_{1-x}\text{Ni}_x\text{O}_3$ nanoparticles	61	
<i>Mauer D. K., Belenov S. V., Nikulin A. Yu., Toporkov N. V.</i> Activity and stability of PtCo/C electrocatalysts for alcohol oxidation	72	
<i>Morozova N. B., Dontsov A. I., Fedoseeva A. I., Vvedenskii A. V.</i> Hydrogen permeability of the Pd–Pb system foil of various composition		85
<i>Polkovnikova Yu. A.</i> Simulation of the molecular dynamics of the passage of liposome with cinnarizine through the blood-brain barrier	3	95
<i>Seredin P. V., Kurilo N. A., Ali O. Radam, Builov N. S., Goloshchapov D. L., Ivkov S. A., Lenshin A. S., Arsentiev I. N., Nashchekin A. V., Sharofidinov Sh. Sh., Mizerov A. M., Sobolev M. S., Pirogov E. V., Semeykin I. V.</i> Study of semi-polar gallium nitride grown on m-sapphire by chloride vapor-phase epitaxy	14	103
<i>Slavcheva G. S., Artamonova O. V., Babenko D. S., Shvedova M. A.</i> Studying the effect of modifying additives on the hydration and hardening of cement composites for 3D printing	27	112
<i>Sokurov A. A.</i> The equilibrium shape of rolled out meniscus	37	125
<i>Titova S. S., Osminkina L. A., Kakuliia I. S., Chuvenkova O. A., Parinova E. V., Ryabtsev S. V., Chumakov R. G., Lebedev A. M., Kudryavtsev A. A., Turishchev S. Yu.</i> X-ray photoelectron spectroscopy of hybrid 3T3 NIH cell structures with internalized porous silicon nanoparticles on substrates of various materials	47	132
<i>Trofimova T. S., Ostanina T. N., Rusoi V. M., Mazurina E. A.</i> The effect of current density on the structure of nickel electrolytic foams and their catalytic properties during hydrogen production	55	139
Short communication		
Department of General and Inorganic Chemistry of Voronezh State University celebrates its 90th anniversary	61	149
Professor Evgeny Goncharov celebrates his 90th anniversary	72	150
We remember Professor Valentin Z. Anokhin (1937–1991)		152
Guide for Authors – 2023		153