

## Contents

Foreword. . . . .	557
Mechanical Activation Methods in Inorganic Materials Science E. G. AVVAKUMOV . . . . .	559
Mechanochemistry of Hydroxyapatite and Its Substituted Forms N. V. BULINA, M. V. CHAIKINA . . . . .	565
Synthesis of Indium Lead Tantalate $Pb_2InTaO_6$ and the System $(1 - x)Pb_2YbNbO_6 + xPb_2FeNbO_6$ ( $x = 0.1$ ) Using Mechanochemical Activation and Radiation-Thermal Sintering A. A. GUSEV, M. A. MIKHAILENKO. . . . .	581
Stages of Development and Introduction of Mechanochemical and Autoclave Technologies in Industry YU. D. KAMINSKIY, N. Z. LYAKHOV . . . . .	588
Cation-Disordered and High-Entropy Oxides/Oxyfluorides as Electrode Materials for Lithium-Ion Batteries N. V. KOSOVA . . . . .	599
Comparative Study of Dodecanethiol Self-Assembly on the Oxide-Free Surface of Ni and Co Electrodes under Electrochemical Control S. N. OVCHINNIKOVA, T. P. ALEKSANDROVA . . . . .	611
Intensification of Starch Grain Destruction, Gelatinisation and Hydrolysis in Water-Starch Suspension during Mechanical Processing A. A. POLITOV, S. A. MYZ, V. V. AKSENOV . . . . .	619
Physicochemical Properties of the Supramolecular Complex of Artesunate with Sodium Glycyrrhizinate and Its Opisthorchicidal Activity <i>in vitro</i> against the Trematode <i>Opisthorchis felineus</i> D. V. PONOMAREV, M. N. LVOVA, D. F. AVGUSTINOVICH, E. S. METELEVA, V. I. EVSEENKO, O. YU. SELYUTINA, N. E. POLYAKOV, A. V. DUSHKIN. . . . .	627
New Medium-Temperature Nanocomposite Electrolytes Based on Cesium Dihydrogen Phosphate: Comparison of Proton Conductivity and Structural, Morphological, Mechanical Characteristics V. G. PONOMAREVA, I. N. BAGRYANTSEVA, E. S. SHUTOVA . . . . .	636
High-Temperature Oxygen Release from $YBaCo_2O_{6-\delta}$ Double Perovskite in the Quasi-Equilibrium Regime M. P. POPOV, M. I. GONGOLA, R. D. GUSKOV, I. V. KOVALEV, A. P. NEMUDRY . . . . .	646
The Use of Carboxylates as Precursors in the Polyol Synthesis of Silver Nanopowders A. I. TITKOV, O. A. LOGUTENKO, T. A. BORISENKO, A. M. VOROBYEV, YU. M. YUKHIN, N. Z. LYAKHOV . . . . .	653
Behaviour of $C_f/ZrB_2-SiC$ Composite Prepared by Ceramic Prepreg Method in High Enthalpy Gas Flow A. V. UTKIN, D. A. BANNYKH, M. A. GOLOSOV, A. T. TITOV, N. I. BAKLANOVA. . . . .	662
Rare Earth Elements in Brown Coals from the Azeysk Deposit of the Irkutsk Coal Basin S. S. SHATSKAYA, I. A. DEREVYAGINA, N. F. GLAZYRINA, A. V. GAPON'KO. . . . .	671
Cocrystals of Betulin with Dicarboxylic Acids: Solid State Synthesis and Properties T. P. SHAKHTSHNEIDER, S. A. MYZ, M. A. MIKHAILENKO, S. A. KUZNETSOVA. . . . .	678
Obtaining Bismuth and Its High-Purity Compounds YU. M. YUKHIN, E. S. KOLEDOVA, A. S. DAMINOV, E. V. TIMAKOVA, V. A. KUZNETSOV, O. D. SHEINA . . . . .	687
Mechanochemically Synthesised Supramolecular Drug Delivery Systems Q. ZHANG, W. XU, V. I. EVSEENKO, E. S. METELEVA, T. G. TOLSTIKOVA, M. V. KHVOSTOV, N. E. POLYAKOV, O. YU. SELYUTINA, A. V. DUSHKIN, N. Z. LYAKHOV, W. SU . . . . .	697