

CONTENTS
2020 no.1(18)

IN-SITU RAMAN SPECTROSCOPY STUDIES OF OXYGEN SPILLOVER AT SOLID OXIDE FUEL CELL ANODES <i>G.M. Eliseeva, I.N. Burmistrov, D.A. Agarkov, A.A. Gamova, I.V. Ionov, M.N. Levin, A.A. Solovyev, I.I. Tartakovskii, V.V. Kharton, S.I. Bredikhin</i>	9
PECULIARITIES OF CYCLOHEXANE OXIDATION MECHANISM BY MEANS OF “GREEN OXIDIZER” HYDROGEN PEROXIDE ON per-FTPhPFe³⁺OH/Al₂O₃ <i>S.A. Aghamammadova</i>	20
EFFECT OF COMPLEX MODIFIERS ON PROPERTIES OF CEMENT SYSTEMS <i>A.A. Guvalov, S.I. Abbasova</i>	26
EFFECT OF ALUMINUM HYDROXIDE CONCENTRATION ON PROPERTIES AND CRYSTALLIZATION REGULARITIES OF COMPOSITE MATERIALS BASED ON HIGH AND LOW DENSITY POLYETHYLENE MIXTURES <i>F.A. Mustafayeva</i>	33
SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW 9P-TYPE LAYERED van der WAALS COMPOUND SnBi₄Te₄ <i>E.N. Orujlu, A.E. Seidzade, Z.S. Aliev, I.R. Amiraslanov, M.B. Babanly</i>	40
ALKYLATION OF TOLUENE WITH ISOPROPANOL ON ZSM-5 TYPE ZEOLITE MODIFIED BY RARE-EARTH METALS <i>N.M. Abdullayeva</i>	49
SYNTHESIS AND PHYSICAL-CHEMICAL STUDY OF ORGANOBENTONITE-BASED NANOCOMPOSITES <i>S.A. Mammadova, U.A. Mammadova, D.B. Tagiyev, N.A. Zeynalov, A.I. Yagubov</i>	55
n-BUTANOL BASED EMULSIFIED DIESEL FUEL PRODUCTION <i>A.R. Abbasov</i>	61
MODELING THE PROCESS OF GRANULATION OF DUSTY-TYPE CLAY WITH DIPPER METHOD ON A PELLETIZING GRANULATOR <i>I.A. Talybly, G.M. Samedzade, L.F. Masyeva, A.N. Mammadov, A.M. Gasimova, G.B. Shadlinskaya</i>	68
COPOLYMERIZATION OF CYCLOPROPYL STYRENE AND ITS MONO- AND GEMDICHLORODERIVATIVES WITH METHACRYLIC ACID <i>S.B. Mamedli</i>	78
FEATURES OF EPOXIDATION OF VEGETABLE OILS IN THE PRESENCE OF FORMIC ACID AND HYDROGEN PEROXIDE <i>L.I. Nasibova</i>	83

THE SELF-CONDENSATION REACTION OF METHYL-4-CHLOROACETIL-ACETATE IN THE PRESENCE OF POTASSIUM CARBONATE*G.G. Ibrahimova*

92

CONVERSION OF METHANOL INTO FORMALDEHYDE AND DIMETHOXYMETHANE ON BIFUNCTIONAL CATALYSTS*L.G. Maharramova*

97

HALOALKOXYLATION OF 3-ORGANYLOXY-1-PROPENES IN DIMETHYLACETYLENECARBINOL MEDIUM*A.R. Ezizbeyli, G.M. Talybov, E.H. Mammadbayli*

102

STUDY OF $3\text{Bi}_2\text{O}_3 \cdot 5\text{B}_2\text{O}_3 \cdot \text{Nd}_2\text{O}_3 \cdot 3\text{B}_2\text{O}_3$ SYSTEM AND DEPENDENCE OF ELECTROPHYSICAL AND HEAT PROPERTIES OF OBTAINED ALLOYS ON THE COMPOSITION*S.I. Bananyarli, Sh.S. Ismayilov, R.N. Gasimova, L.A. Khalilova*

106

PHASE EQUILIBRIA IN Mn-Bi₂Se₃ SYSTEM*D.S. Ajdarova, T.F. Maksudova, Sh.H. Mammadov, V.M. Rahimova,**E.S. Huseynova, Sh.A. Hamidova*

113

PREPARATION OF EPOXIDE ED-20-BASED COMPOSITION MATERIALS*A.A. Ragimova, E.D. Mamedov*

118