

CONTENTS

REVIEWS

**Latypova E.R., Talipov R.F., Ishmuratov G.Yu.**

Ozonolytic transformations of (R)-4-menthene-3-one and its derivatives in direction to low molecular weight bioregulators ..... 3

CHEMISTRY

(inorganic, organic, analytical, physical, colloid  
and high-molecular compounds)

**Guseynova M.T., Aliyeva M.N., Fatullayeva P.A., Ismailova S.Z., Ismailova Sh.I.**

Cu(II), Ni(II) Co(II) complexes of (2-hydroxybenzylidene)-N,N-dicyclohexylglycinehydrazide..... 18

**Matyushkina Yu.I., Shabarin A.A., Lasareva O.P.**

Ionomerical determination of iron (III) in vegetables and fruits ..... 22

**Ol'khovich M.V., Sharapova A.V., Blokhina S.V.**

Effect of 2-hydroxypropyl- $\beta$ -cyclodextrin on solubility of novel cytotoxic compounds ..... 26

**Efremov A.M., Shabadarov S.S.**

Kinetic characteristic of electron impact processes for  $BCl_3$  ..... 31

**Savelyev D.S., Islyaikin M.K., Girichev G.V.**

Vibration spectrum and molecular structure of 3-aminophthalimide by IR spectroscopy and quantum-chemical calculation ..... 35

CHEMICAL TECHNOLOGY

(inorganic and organic substances.  
Theoretical fundamentals)

**Lapshin M.A., Rumyantsev R.N., Nikitin G.S., Kochetkov S.P., Kleshchev M.V.**

Influence of calcium and copper ferrites on activity and selectivity of medium-temperature CO conversion catalysts ..... 43

**Taran Yu.A., Ivanov R.N., Taran A.L., Taran A.V.**

Main nitrogen containing fertilizers and technical solutions for improving their quality ..... 49

**Filimonov D.A., Yudina T.F., Bratkov I.V., Leontiev N.A., Ershova T.V.**

Electrochemical properties of thermally expanded graphites and oxidized graphites modified with transition metal salts ..... 55

**Guseynov R.M., Makhmudov H.M., Radzhabov R.A., Bakhnudkadiyeva Z.N., Zaiynutdinova Z.A.**

Behavior of blocking (inert) electrode / solid electrolyte interface in galvanogammonic charging mode. Case of decelerated diffusion and adsorption-desorption of two different kinds of particles ..... 60

**Bazarov Yu.M., Khromova T.L., Sadivskiy S.Ya., Koifman O.I.**

Composition and properties of caprolactam oligomers obtained from extraction water directed to regeneration ..... 65

<b>Doluda V.Yu., Sulman M.G., Kosivtsov Yu.Yu., Lakina N.V., Sulman E.M.</b> Vapor gasification of low quality solid fuel of tver region .....	69
<b>Mironovich L.M., Afanas'yev P.V., Podol'nikova A.Yu.</b> Synthesis of 3- <i>tert</i> -butyl-9-r-pyrimido[4',5':3,4]pyrazolo[5,1- <i>c</i> ][1,2,4]triazine-4(6 <i>H</i> ),11(10 <i>H</i> )- diones at conditions of microwave radiation .....	74
<b>Zeyinalov M.Z., Magomedbekov U.G., Gadzhibalaeva Z.M.</b> Possibility analysis of application of gross-equations, pathways and stationary rates for chemical systems in quasi-equilibrium and quasi-stationary approach.....	78
<b>Vlasov A.P., Solon B.Ya., Marchuk N.A.</b> Approach to information energy saving management on enterprises of chemical complex .....	81
<b>Usacheva T.R., Kuzmina K.I., Cheshinsky M.A., Kuzmina I.A., Sharnin V.A.</b> Database on thermodynamic parameters of reactions of complexation and solvation in mixed solvents.....	87
<b>Marutyan S.V., Navasardyan L.H., Badalyan G.G., Shaginyan M.A.</b> Influence of X-radiation on structure of DNA of yeasts <i>C. guilliermondii</i> NP-4.....	90

#### SHORT COMMUNICATIONS

<b>Gridchin S.N., Shekhanov R.F., Bychkova S.A.</b> Stability constants of cobalt (II) complexes of taurine and $\beta$ -alanine .....	95
<b>Shamitov A.A., Garkushin I.K., Kolyado A.V.</b> Study of phase equilibria in system hexadecane - docosane – cyclododecane.....	97