

CONTENTS

Biotechnology and industrial ecology

<i>A.V. Nazarov</i> Bioremediation of soil contaminated with synthetic compounds	7
<i>L.N. Anan'ina, E.A. Shestakova</i> Halotolerant bacteria of a <i>Actinobacteria</i> class – producers of the osmoprotective compounds (ektoine and hydroxyektoine)	18
<i>A.A. Pyankova, E.G. Plotnikova</i> Bacteria-destructors of benzoic acid of the genus <i>Halomonas</i> isolated from the salt-mining region	27
<i>V.S. Popov, Yu.A. Smyatskaya</i> A modified titrimetric method for the quantitative determination of vitamin C in colored plant extracts	43
<i>A.A. Vasileva, T.S. Kutpanova, T.M. Panova</i> Studying the influence of biologically active substances of ginger roots on yeast metabolism <i>Saccharomyces Cerevisiae</i>	54
<i>A.N. Tsukanova, E.A. Farberova, N.B. Khodyashev, N.V. Limonov</i> Influence of various factors on characteristics of chemical ammonia and hydrogen sulfur absorber	65

Chemical technology of organic compounds

<i>A.A. Boteva, I.V. Fefilova, O.P. Krasnykh, A.V. Shmyrov</i> Studying of the methyl 3-benzoyl-6-methyl-4-oxo-1,4-dihydro- 2-quinolinecarboxylates reaction with ethanolamine in a flask and in a flow reactor	78
<i>G.A. Triandafilova, A.A. Boteva, O.P. Krasnykh</i> Synthesis and study of radicaltrapping activity of methyl 6-methyl- 3-cinnamoyl-4-oxo-1,4-dihydro-2-quinolinecarboxylate and its analogues	95
<i>V.A. Lyadov, E.S. Denislamova</i> A new method of synthesis of methyl 4-aryl-2-((1,5-dimethyl-3-oxo- 2-phenyl-2,3-dihydro-1H-pyrazol-4-yl)amino)-4-oxo-2-butenates	109

Chemical technology of inorganic compounds and new materials

<i>P.P. Bushkov, A.R. Kobeleva, E.O. Kuzina</i> Methods of improving manganese-containing catalysts.....	121
<i>V.E. Burov, A.N. Gallyamov, O.A. Fedotova, V.Z. Poilov</i> Effect of ultrasonic processing on the amine hydrochetic solution a foaming ability.....	133
<i>A.A. Khazeev, M.V. Cherepanova</i> Study of commodity characteristics of cyclone dust and granular potassium chloride obtained by pelletizing under various conditions.....	148

Automation and control of chemical technology processes

<i>E.A. Muravyova, M.D. Kviring</i> Development of an adaptive fuzzy control system for plate heat exchangers and its modeling in MATLAB Simulink.....	163
<i>T.N. Karanevskaya, A.G. Shumikhin</i> Optimization in the design and management of the technological process of field oil treatment.....	185
<i>S.N. Kondrashov, E.I. Beresnev</i> Development of an algorithm for controlling the thickness of a polyethylene film during its production by extrusion.....	200