

CONTENTS

<i>R.A. Muminov, S.A. Radzhapov, A.K. Saymbetov, R.K. Manatbayev, Yo.K. Toshmurodov, N.M. Japashov, N.B. Kuttybay, A.G. Georgiev</i> , Optimization technology of large-size Si(Li) p-i-n structures for X-ray detectors.....	5
<i>Y.S. Demircioğlu, H.C. Sakarya, Y. Süzen</i> , Synthesis, X-ray crystal structure and spectroscopic studies of benzothiazole Schiff base.....	9
<i>S. Ceker, O. Capik, M. Sengül, R. Jaberi, G. Agar</i> , The antioxidant and antimutagenic properties of different extracts of <i>Crataegus monogyna subsp. monogyna</i> collected from the Eastern Anatolia region of Turkey.....	14
<i>N.N. Gohil, D.I. Brahmhbhatt</i> , Synthesis, characterization and biological evaluation of some new pyrazolyl bipyridyl substituted dicoumarins.....	18
<i>A. Mushtaq, A. Israr, M. Fahad, J. Ahmed</i> , Mechanical analysis of additively manufactured polylactic acid in fused deposition modelling.....	29
<i>K. Sivakumar, V. Chandrasekaran</i> , Synthesis, characterization, deoxyribonucleic acid interaction and antimicrobial studies of Schiff base binuclear transition metal complexes	47
<i>R. Song, Y. Wang, J.J. Liu</i> , Manufacturing of artificial core based on transparent soil technology: A preliminary experimental study on various grains and pore fluids,.....	56
<i>N. Botoucharov, M. Stefanova, St. Marinov</i> , Geochemical appraisal of Stefanets Member (Etropole Formation) from the eastern part of the West Forebalkan, Bulgaria.....	62
<i>S.H. Abbas, H.H. Abbas, H.K. Musa</i> , Synthesis, characterization, kinetic and thermodynamic evaluation from TG-DTA analysis of new nickel(II) mixed ligands complexes of a bidentate salicylaldimine Schiff bases and 1,10-phenanthroline.....	68
<i>R. Tomova, S. Asenova, B. Atanasova, K. Tzoneva, M. Slavova</i> , Flame atomic absorption determination of serum copper and zinc in disordered bone metabolism.....	76
<i>M. Tajbakhsh, M. Fakhimi Abarghouei, H. Alinezhad, Kh. Niknam</i> , CO ₂ capture on diethanolamine-grafted NaY zeolite	81
<i>G. Borisov, T. Dimitrov, D. Paskalev, E. Slavcheva</i> , Low-cost AEM water electrolysis with flat stainless steel electrodes.....	86
<i>R.M. Khan, A. Mushtaq, Z.U. Ali, S. Abbasi, R.N. Lodhi, S.M. ul Haq, S.A. Shakeel</i> , Development and characterization of walnut shell and date seeds powder in low-density polyethylene.....	90
<i>M.A.P. Rocha, N.P. Merlo, M.R. Franco Júnior, N.R.A.F. Rocha, W.A. Pereira</i> , Removal of caprylic acid impregnated on resins using organic solvents and water.....	98
<i>S. R. Hassan, I. Dahlan</i> , Investigation and optimization of a novel MAHB reactor for COD and lignin removal and methane production using response surface methodology (RSM) and artificial neural network (ANN).....	102
<i>E. Valipour</i> , Determination of an effective immunogenic peptide against <i>Acinetobacter baumannii</i>	114
<i>I. E. Ismailov, I. K. Ivanov, V. Ch. Christov</i> , Trifunctionalized allenes. Part V. Competitive electrophilic cyclization and cycloisomerization of 4-phosphorylated 5-hydroxy-5-methylhexa-2,3-dienoates.....	121
<i>V. Mitova, N. Koseva, Z. Todorova, P. Tuleshkov, K. Troev</i> , Synthesis of poly-(alkyleneterephthalate-co-alkylenephosphate)s and their blends with a linear polyurethane	29
<i>R.P. Nikolov, K.N. Koleva, M.H. Hristov, K.S. Yakimova</i> , Hyperthermia in experimental models of the serotonin syndrome: influence of vigabatrin.....	138
<i>S. Mamilov, S. Yesman, V. Mantareva, E. Borisova, A. Gisbrecht</i> , Optical method for reduction of carbon monoxide intoxication.....	142
<i>J. K. Singh, G.S. Seth, Naveen Joshi, C.T. Srinivasa</i> , Mixed convection flow of a viscoelastic fluid through a vertical porous channel influenced by a moving magnetic field with Hall and ion-slip currents, rotation, heat radiation and chemical reaction.....	147
INSTRUCTIONS TO THE AUTHORS	159