

CHEMISTRY & CHEMICAL TECHNOLOGY

CONTENTS

Chemistry

<i>Tetiana Bilous, Alena Tulskeya, Igor Ryshchenko, Issam Chahine, Volodymyr Bairachnyi</i> Electrochemical Synthesis of Peroxyacetic Acid on Pt/PtO and PbO ₂ Anodes	135
<i>Oleksandr Tymoshuk, Lesia Oleksiv, Petro Rydchuk, Taras Chaban, Svitlana Tymoshuk, Vasyl Matiychuk</i> Spectrophotometric Study of the Interaction of Platinum(IV) with New Derivatives of Azolidones	139
<i>Elhafnaoui Lanez, Lazhar Bechki, Touhami Lanez</i> Ferrocenylmethyl nucleobases: Synthesis, DFT Calculations, Electrochemical and Spectroscopic Characterization	146
<i>Zineb Aouf, Sara Boughaba, Salah Lakrouf, Ouahiba Bechiri, Nour-Eddine Aouf</i> A Methodology Study of Hydrophosphonylation of Aldehydes Derivatives with H ₆ P ₂ W ₁₈ O ₆₂ ·14H ₂ O as a Catalyst	154
<i>Stalin Coronel, Christian Sandoval Pauker, Paul Vargus Jentzsch, Ernesto de la Torre, Diana Endara, Florinella Muñoz-Bisesti</i> Titanium Dioxide/Copper/Carbon Composites for the Photocatalytic Degradation of Phenol	161
<i>Santosh Shriram Katkar, Amol Haridas Kategaonkar, Kaluram N. Vidhate</i> MgO Supported Al ₂ O ₃ Oxide: A New, Efficient, and Reusable Catalyst for Synthesis of Chalcones	169
<i>Mariya Konyk, Lyubov Romaka, Pavlo Demchenko, Vitaliy Romaka, Volodymyr Krayovskyy, Mariya Rokomanyuk</i> Experimental Study of the Y-Cu-Ge System at 870 K	177
<i>Suellem B. Cordeiro, Maria de Fátima V. Marques</i> Evaluation of Bis(imino)pyridine Iron Catalyst on Heterogeneous Ethylene Polymerization	185
<i>Ceylan Hepokur, H. Nursevin Öztop, Dursun Saraydin</i> Preparation and Characterization of Molecular Imprinted Polymer for the Selective Recognition of Serotonin	195
<i>Maria Tokareva, Stanislav Tokarev, Volodymyr Vostres, Viktor Tokarev</i> Effect of Silica Surface on Thermal Decomposition of the Immobilized Peroxide Oligomers	205
<i>Lina Perekhoda, Victoria Georgiyants, Hanna Yeromina, Iryna Drapak, Vira Lubenets, Zinaida Ieromina, Irina Sych, Hanna Severina, Anatoly Demchenko</i> The Synthesis and <i>In Silico</i> Antihypertensive Activity Prognosis of New Mannich Bases Containing the 1,2,4-Triazole Moiety	214

Chemical Technology

<i>Alexei Pilipenko, Antonina Maizelis, Hanna Pancheva, Yulia Zhelavska</i> Electrochemical Oxidation of VT6 Titanium Alloy in Oxalic Acid Solutions	221
<i>Asif Mammadov, Gunel Pashazade, Afarida Gasymova, Ulviya Sharifova</i> Production of Iron, Titanium Dioxide Modofocations and Titanium	227
<i>Lyubov Patrylak, Mariya Krylova, Oleksandra Pertko, Yuliya Voloshyna, Angela Yakovenko</i> n-Hexane Isomerization Over Nickel-Containing Mordenite Zeolite	234
<i>Kancharla Ravichand, Vadeghar Ramesh Kumar, Ginuga Prabhaker Reddy, Sundergopal Sridhar</i> Synthesis and Characterization of Indigenous Hydrophilized Polyvinylidene Fluoride Membrane for Drinking Water Purification: Experimental Study and Modeling Aspects	239
<i>Yuriy Demchuk, Volodymyr Gunka, Serhiy Pyshyev, Iurii Sidun, Yurii Hrynchuk, Justyna Kucinska-Lipka, Michael Bratychak</i> Slurry Surfacing Mixes on the Basis of Bitumen Modified with Phenol-Cresol-Formaldehyde Resin	251
<i>Andriy Slyuzar, Zenoviy Znak, Yaroslav Kalymon, Andriy Helesh</i> Study of Oxygen Chemisorption During Regeneration of Quinhydrone Absorbing Solution in the Apparatus with a Continuous Bubbling Layer	257
<i>Iryna Koval, Volodymyr Starchevskyy</i> Gas Nature Effect on the Destruction of Various Microorganisms Under Cavitation Action	264
<i>Stepan Melnyk, Yuriy Melnyk, Bohdan Dzinyak, Zorian Pikh</i> Study on the Effective Application of Bacterial α -Amylase for Batch Liquefaction	271