Vol. 16, No. 2, pp. 169-344

CHEMISTRY & CHEMICAL TECHNOLOGY

CONTENTS

Chemistry	
Aprilina Purbasari, Dessy Ariyanti, Siswo Sumardiono, Khansa Khairunnisa, Tyaga Sidharta	
Adsorption Kinetics and Isotherms of Cu(II) and Fe(II) Ions	
from Aqueous Solutions by Fly Ash-Based Geopolymer	169
Roseane Silva Oliveira, Ana Cristina Trindade Cursino, Fabiana Roberta Gonçalves e Silva Hussei	
Synthesis, Characterization and Photophysical Study	
of 4,4'-Diamino-2,2'-stilbenedisulfonate with Lanthanide lons Complexes	177
Boulanouar Messaoudi, Tarik Attar, Naceur Benhadria	
DFT Study of Some Copper Complexes and Their Detection Limit	185
Hassina Chekroud, Fayçal Djazi, Bouhadiba Abdelaziz, Karima Horchani-Naifer,	
Zeghdoudi Rachida, Remache Malika	
Modeling and Optimisation of Comlexity by the β -Cyclodextrin	
of an Organic Pollutant Model: m-Methyl Red	195
Mehdi Hosseinzadeh, Mortaza Mirzaei	
Synthesized Copolymer Derivative of Poly(Styrene-alt-Maleic Anhydride)	
as a New Chelating Resin to Remove Heavy Metal lons from Aqueous Solution	203
Volodymyr Levytskyi, Diana Katruk, Andrij Masyuk, Mykhailo Bratychak Jr., Nataliia Chopyk	
Poly(Vinyl Chloride)-Polystyrene Materials with Polymer-Silicate Fillers	212
Iryna Dron, Nataliia Nosovα, Nataliia Fihurka, Natalya Bukartyk,	
Zoriana Nadashkevych, Serhii Varvarenko, Volodymyr Samaryk	
Investigation of Hydrogel Sheets Based on Highly Esterified Pectin	220
Olena Makido, Galyna Khovanets', Viktoria Kochubei, Iryna Yevchuk	
Nanostructured Magnetically Sensitive Catalysts	
for the Fenton System: Obtaining, Research, Application	227
Chemical Technology	
Shima Sheybani, Behrooz Mahmoodzadeh Vaziri	
Three-Phase Distillation of Ethyl Acetate/Water/Ethanol:	

· · · · · · · · · · · · · · · · · · ·	
Separation Feasibility and Conceptual Design	237
Salam Bash Al-Maliki, Zainab Qahtan Al-Khayat, Ibtihaj Abdulwahhab Abdulrazzak, Amani AlAni	
The Effectiveness of Zeolite for the Removal of Heavy Metals from an Oil Industry Wastewater	255
Antonina Redkina, Nadezhda Konovalova, Nikolay Kravchenko, Volodymyr Strelko	
Influence of the Porous Structure of V ₂ O ₅ -ZrO ₂ -SiO ₂ Catalyst	
on Reaction of Propane Dehydrogenation	259
Jaroslaw Gumnitsky, Vira Sabadash, Oksana Matsuska, Oksana Lyuta, Anna Hyvlud, Lubov Venger	
Dynamics of Adsorption of Copper Ions in Fixed-Bed Column	
and Mathematical Interpretation of the First Stage of the Process	267
Kokkiligadda Venkata Ramana, Kurmarayuni Chandra Mohan, Kunta Ravindhranath, Bollikolla Hari Babu	

2022

Bio-Sorbent Derived from Annona Squamosa for the Removal	
of Methyl Red Dye in Polluted Waters: A Study on Adsorption Potential	274
Yuriy Prysiazhnyi, Guri Isaiah Borbeyiyong, Serhiy Pyshyev	
Preparation and Application of Coumarone-Indene-Carbazole Resin	
as a Modifier of Road Petroleum Bitumen. 1. Influence of Carbazole:Raw Materials Ratio	284
Volodymyr Gunka, Yuriy Prysiazhnyi, YuriyDemchuk, Yurii Hrynchuk,	
lurii Sidun, Volodymyr Reutskyy, Michael Bratychak	
Production of Bitumen Modified with Low-Molecular Organic Compounds	
from Petroleum Residues. 5. Use of Maleic Anhydride for Foaming Bitumens	295
Nima Norouzi, Saeed Talebi	
A Computational Model for the Prediction of Net Power	
in Proton Exchange Membrane Fuel Cells	303
Shiva Soury, Abdulrahman Bahrami, Saber Alizadeh, Farshid Ghorbani Shahna, Davood Nematollahi	
Development of a Needle Trap Device Packed with HKUST-1 Sorbent	
for Sampling and Analysis of BTEX in Air	314
Leonid Bannikov, Denis Miroshnichenko, Oleksii Pylypenko, Serhiy Pyshyev,	
Oleh Fedevych, Valeriy Meshchanin	
Coke Quenching Plenum Equipment Corrosion and Its Dependents	
on the Quality of the Biochemically Treated Water of the Coke-Chemical Production	328
Oksana Savvova, Hennadii Voronov, Oleksii Fesenko, Sviatoslav Riabinin, Vadym Tymofieiev	
High-Strength Glass-Ceramic Material with Low Temperature Formation	337

Events

Tamara Tatrishvili, Marc Jean M. Abadie In Memory of Professor Omar V. Mukbaniani

I