

No. 1

Andrei Goldbach, Henry França Meier, Vinicyus Rodolfo Wiggers, Luana M. Chiarello, Antônio André Chivanga Barros, **Combustion performance of bio-gasoline produced by waste fish oil pyrolysis**..... 1

Vladimir S. Filipović, Ivana B. Filipović, Siniša L. Markov, Vladimir M. Tomović, Branislav V. Šojić, Jelena S. Filipović, Lato L. Pezo, **Storage time effect on inoculated, osmodehydrated chicken meat - microbiological and chemical characteristics**..... 9

Gunay Baydar-Atak, Mert Akin Insel, Muhammed Enes Oruc, Hasan Sadikoglu, **Optimization of megakaryocyte trapping for platelet formation in microchannels**..... 19

Xuan He, Run Huang, **Effect of different carbon sources on vacuum carbothermal reduction of low-grade phosphorus ore**..... 29

M. Sundarraj, M. Meikandan, **Liquefied fuel from plastic wastes using nitro cracking method with refinery distillation bubble cap plate column**..... 39

Nahide Gulsah Deniz, Cigdem Sayil, Erhan Oner, Onur Atak, Maryna Stasevych, Viktor Zvarych, Halyna Shyyan, Volodymyr Novikov, **Dyeing of polyester r fibers with sulfur and nitrogen -containing anthraquinone derivatives**..... 47

Vesna M. Vučurović, Vesna B. Radovanović, Jelena S. Filipović, Vladimir S. Filipović, Milenko B. Košutić, Nebojša Đ. Novković, Vuk V. Radojević, **Influence of yeast extract enrichment on fermentative activity of *Saccharomyces cerevisiae* and technological properties of spelt bread**.... 57

J. Bensam Raj, M. Muthuraj, **Influence of graphene nano-platelet dispersion on the thermo-physical properties of sunflower oil**..... 67

Simona Vajnhandl, Lidija Škodič, Marjana Simonič, Aleksandra Lobnik, Julija Volmajer-Valh, **Enhanced photocatalytic oxidation of reactive dye using manganese catalyst complex**..... 73

Raiedhah Abdullah Alsaari, **Oxidation of cycloalkene using supported ruthenium catalysts under solvent-free conditions**..... 85

No. 2

Srinivasan Periasamy Manikandan, Nesakumar Dharmakkan, Nagamani Sumana, **Heat transfer studies of Al₂O₃/water-ethylene glycol nanofluid using factorial design analysis**. 95

Murugesan Manikkampatti Palanisamy, Kannan Kandasamy, Venkata Ratnam Myneni, **Two phase leaching for metal recovery from waste printed circuit boards: statistical optimization**..... 103

Florin Enachea, Dan Danulescu, Ion Bolocan, Diana Cursaru, **The reduction of FCCU afterburning through process optimization and regenerator revamping** 115

Sreepriya Sreekumar, Aparna Kallingal, Vinila Mundakkal Lakshmanan, **pH control in sodium chlorate cell for energy efficiency using PSO-FOPID controller**..... 127

Naveen Prasad B.S., Selvaraju Sivamani, Azucena Cuento, Senthilkumar Pachiyappan, **Chemical route for synthesis of citric acid from orange and grape juices** 135

A. Abdallah El Hadj, M. Laidi, S. Hanini, **New method based on neuro-fuzzy system and pso algorithm for estimating phase equilibria properties** 141

Begüm Tepe, Tolga Kağan Tepe, Ayten Ekinci, **Impact of air temperature on drying characteristics and some bioactive properties of kiwi fruit slices**..... 151

Petar D. Janjatović, Olivera A. Erić Cekić, Dragan M. Rajnović, Sebastian S. Baloš, Vencislav K. Grabulov, Leposava P. Šidjanin, **Microstructure and fracture mode of unalloyed dual phase austempered ductile iron**..... 161

No. 3

R. Barathiraja, P. Thirumal, G. Saraswathy, I. Rahamathullah, **Effects of pretreatments on drying of Turkey berry (*Solanum torvum*) in fluidized bed dryer** 169

Alex Leandro Andrade de Lucena, Rayany Magali da Rocha Santana, Marcos André Soares de Oliveira, Luciano Costa Almeida, Marta Maria Menezes Bezerra Duarte, Daniella Carla Napoleão, **Evaluation of combined radiation for the treatment of lamivudine and zidovudine via AOP** 179

Bruna Pratto, Martha Suzana Rodrigues dos Santos-Rocha, Gustavo Batista, Inti Doraci Cavalcanti-Montaño, Carlos Alberto Galeano Suarez, Antonio José Gonçalves Cruz, Ruy de Sousa Júnior, **Rational feeding strategies of substrate and enzymes to enzymatic hydrolysis bioreactors** 191

Abulhassan Ali, Khuram Maqsood, Aymn Abdulrahman, Ahmad.S. Alsaadi, Abdullah Bin Mahfouz, **Optimal dissolution and viscoelastic behavior of polyamide-66 in formic acid for membrane fabrication** 203

Mia Radonjić, Jelena Petrović, Milena Milivojević, Milena Stevanović, Stojkowska Jasmina, Bojana Obradović, **Chemical engineering methods in analyses of 3D cancer cell cultures: Hydrodynamic and mass transport considerations** 211

Predrag Kojić, Jovana Kojić, Milada Pezo, Jelena Krulj, Lato Pezo, Nikola Mirkov, **Numerical study of the hydrodynamics and mass transfer in the external loop airlift reactor**..... 225

Marija B. Tasić, Miona S. Stanković, Milan D. Kostić, Olivera S. Stamenković, Vlada B. Veljković, **Circular economy in apple processing industry: Biodiesel production from waste apple seeds** 237

Thayammal Ganesan Arul, Varatharaju Perumal, Rajasekaran Thanigaivelan, **Performance study of electrochemical micromachining using square composite electrode for copper** 247

No. 4

Velizar Stanković, Milan Gorgievski, Dragana Božić, Grozdanka D. Bogdanović, **Mine waters purification by biosorption coupled with green energy production from wood and straw biomass** 255

Ana Bárbara Moulin Cansian, Paulo Waldir Tardioli, Felipe Fernando Furlan, Ruy de Sousa Júnior, **Modeling and simulation of the biosurfactant production by enzymatic route using xylose and oleic acid as reagents** 265

Dragoljub Cvetković, Olja Šovljanski, Aleksandra Ranitović, Ana Tomić, Siniša Markov, Dragiša Savić, Bojana Danilović, Lato Pezo, **An artificial neural network as a tool for kombucha fermentation improvement** 277

Ida Balczár, Adrienn Boros, András Kovács, Tamás Korim, **Foamed geopolymer with customized pore structure** 287

Begüm Tepe, Tolga Kağan Tepe , Ayten Ekinci, **Drying kinetics and energy efficiency of microwave-dried lemon slices**... 297

H. Batuhan Oztemel, Inci Salt, Yavuz Salt, **Carbon dioxide utilization: process simulation of synthetic fuel production from flue gases** 305

Shuai Zou, Kangchun Li, Mingyuan Dou, Jing Yang, Qing Feng, Fuchuan Huang, Lin Chen, **Exergy analysis of the biogas multistage compression process based on Aspen plus simulation** 319

Jeevarathnam Ravi Kumar Vinod Kumaar, Rajasekaran Thanigaivelan, Madesh Soundarrajan, **Effect of different electrolytes on electrochemical micro-machining of SS 316L** 329

Contents: Vol. 28, Issues 1–4, 2022 339

Author Index, Vol. 28, 2022 341