

No. 1

Roberta Del Sole, Alvaro Maggio, Lucia Mergola, Green grape marc biosorbents preparation for mercury removal in aqueous media	1
Nafees Ahmed, Md. Yasin Hossain, Joyanta Kumar Saha, Mohammad Al Mamun, A. K. M. Lutfor Rahman, Jamal Uddin, Abdul Awal, Md. Shahajahan, Adsorptive removal of crystal violet dye from aqueous solution onto coconut coir11	
Atheer M. Al-Yaqoobi, Muna N. Al-Rikabey, Electrochemical harvesting of Chlorella Sp.: Electrolyte Concentration and Interelectrode Distance	23
Ana Paula R. Paiva, Rafael O. Santos, Mônica P. Maia, Diego M. Prata, Improvement of the monochlorobenzene separation process through heat integration: A sustainability-based assessment	31
Julieta L. Cerioni, Maria E. Vallejos, Fernando E. Felissia, María C. Area, Nora N. Nichio, Gerardo F. Santori, Obtaining xylitol by hydrolysis-hydrogenation of liquors derived from sugarcane bagasse	43
Lv Chao, Yin Hongxin, Sun Minghe, Zhu Hangyu, Simulation study of citric acid effects on pyrolysis of hydrochloric acid pickling waste liquor	53
Sahra Hamdollahi, Luo Jun, A review on modeling of proton exchange membrane fuel cell	61
Teku Kalyani, Lankapalli Sathya Vara Prasad, Aditya Kolakoti, Preparation and physicochemical properties of naturally grown green Spirogyra algae biodiesel	75

No. 2

Rajasekar Subramanyam, Meyyappan Narayanan, Artificial neural network modeling for drying kinetics of paddy using a cabinet tray dryer	87
Vojo Jovanov, Snežana Vučetić, Siniša Markov, Biljana Anđusheva, Emilija Fidancevska, Jonjaua Ranogajec, Resistance to frost action and microbiological corrosion of novel ceramic composites	99
Mohamed Sadek, Rehab M. El-Maghraby, Mohamed Fathy, Evaluation of variable speed drives to improve energy efficiency and reduce gas emissions: case study	111

Walaa Mahmoud Shehata, Mohamed Galal Helal, Fatma Khalifa Gad, Energy saving in oilfields by using waste heat in the disposed water	119
Felipe Zauli da Silva, Izabella Carneiro Bastos, Study on heat exchangers and industrial absorption column for drying polyethylene terephthalate	129
Nikoleta Lugonja, Vesna Marinković, Biljana Miličić, Jelena Avdalović, Miroslav Vrvić, Snežana Spasić, Effect of storage process on nutritive properties of preterm human milk	141
Maja Milijaš, Dragoljub Cvetković, Aleksandar Savić, Ana Velemir, Ljiljana Topalić-Trivunović, Saša Papuga, Effects of adding different quantities of yeast and chokeberry juice on fermentation of mead	149
Pongayi Ponnusamy Selvi, Rajoo Baskar, CO₂ mitigation studies in packed absorption column using iron oxide nanofluid	161

No. 3

Pavel Shcherban, Alexander Gapchich, Aleksey Zhdanov, Olga Letunovskaya, Optimization of excess brines disposal methods at potash mining and processing plants	169
Nataša Milićević, Marijana Sakač, Bojana Šarić, Dubravka Škrbot, Bojana Filipčev, Olivera Šimurina, Pavle Jovanov, Mladenka Pestorić, Aleksandar Marić, Soybean bran as the fat replacer in gluten-free cookie formulation: physicochemical properties and sensory profiles	179
Amarilis Severino E Souza, Thiago César De Souza Pinto, Alfredo Moisés Sarkis, Thiago Faggion De Pádua, Rodrigo Béttega, Energy analysis of the convective drying of iron ore fines	189
Venugopal Palaniswamy, Kaliappan Seeniappan, Thanigaivelan Rajasekaran, Natrayan Lakshmaiya, Enhancing MRR and accuracy with magnetized graphite tool in electrochemical micromachining of copper	201
Lucas Oliveira Cardoso, Bruno Santos Conceição, Márcio Luis Lyra Paredes, Silvana Mattedi, Thermodynamic modeling of gas solubility in ionic liquids using equations of state	209
Periasamy Manikandan Srinivasan, Nesakumar Dharmakkan, Maha Devaa Sri Vishnu, Hari Prasath, Ramaraj Gokul, Ganeshan Thiagarajan, Govindasamy Sivasubramani, Balachandran Mouldharan, Heat transfer studies in a plate heat exchanger using Fe₂O₃-water-engine oil nanofluid .	225

Selma Kayacan-Cakmakoglu, İlker Atik, Perihan Kubra Akman,
İbrahim Doymaz, Osman Sagdic, Salih Karasu, **Effect of the
different infrared levels on some properties of sage leaves** 235

Alanna Silveira De Moraes, Gabriela Oliveira Castro Poncinelli,
Aron Seixas Terra Rodrigues, Laise Fazol Do Couto, Silvia
Luciana Fávaro, Rita De Cássia Colman, **Study of catalytic
oxidation of toluene using Cu-Mn, Co-Mn, and Ni-Mn mixed
oxides catalysts** 243

No. 4

Ana Luiza Mendes, Daimon Jefferson Jung de Oliveira,
Thamayne Valadares de Oliveira, Fernando Augusto
Pederson Voll, Rafael Bruno Vieira, Andre Bellini Mariano,
**Effects of microalgal concentration and pH with flocculant
on microfiltration** 253

Vanderlei Rodrigues Costa, Luana Marcele Chiarello,
Vanderleia Botton, Edésio Luiz Simionatto, Vinicyus
Rodolfo Wiggers, Henry França Meier, Laércio Ender,
**Green chemical production based on thermal cracking of
inedible vegetable oil** 263

Lv Chao, Yin Hongxin, Liu Yanlong, Chen Xuxin, Sun Minghe,
Zhao Hongliang, **Process study of CeO₂ preparation by jet-
flow pyrolysis via microwave heating** 273

Sevgi Can Göl, Elif Akbay, **The effect of metal-titania interaction
on photodegradation in SBA-15-supported metal-titania
photocatalysts** 281

Irena Z. Rakić, Žarko S. Kevrešan, Renata Kovač, Snežana Ž.
Kravić, Zorica Svirčev, Ana D. Đurović, Zorica S. Stojanović,
**Bioaccumulation and biosorption study of heavy metals
removal by *Cyanobacteria nostoc* sp.** 291

Mehmet Kalender, Aykut Topdemir, **Investigation of the thin
layer drying of micropaginated *Ocimum basilicum* L.:
Modeling by derived equations, quality characteristics, and
energy efficiency** 299

Srinivasan Appadurai, Saravanan Kanthasamy Ganesan,
Viswanathan Rangasamy, Karthikeyan Saravanan
Kanakasabapathi, **Optimization and effect of dielectric fluid
with Zr and Ni on electrical discharge machining of die steel
material** 311

Dayse Maria Sá da Silva, Jorge Vinícius Fernandes Lima
Cavalcanti, Adalberto do Nascimento Freire Júnior, Sérgio
Peres, Marileide Moraes Alves, Mohand Benachour, **Biogas
production and greenhouse gas mitigation using fish waste
from Bragança/Brazil** 319

Contents: Vol. 29, Issues 1–4, 2023 333

Author Index, Vol. 29, 2023 335