



Published by

CSIR-National Institute of Science Communication And Information Resources

New Delhi, INDIA

in association with

Indian National Science Academy, New Delhi, INDIA

Indian Journal of Chemical Technology

www.niscair.res.in; http:// nopr.niscair.res.in

VOLUME 28 CODEN: ICHTEU **NUMBER 1**

January 2021

ISSN: 0971-457X(Print); 0975-0991 (Online)

CONTENTS

Papers	
Conversion of ethanol to higher alcohols on Ni/M _x O _y -Al ₂ O ₃ (M=La, Ce, Zr, Mg &Ti) catalysts: Influence of support characteristics Vinayagamoorthi Rathinasamy, Thirunavukkarasu Kandasamy, Krishnamurthy Konda Ramaswamy, Viswanathan Balasubramanian & Shanthi Kannan*	9
Enhanced adsorption of fluoride by common potters' clay surface modified by zirconium oxide particles Paran Jyoti Kalita, Jitu Saikia, Susmita Sarmah & Rajib Lochan Goswamee*	23
A green tactic for inhibition of corrosion on mild steel in bore well water by aqueous extract of <i>Bauhinia Blakeana</i> leaves K Geetha & R Udhayakumar*	36
Simultaneous quantification of Daclatasvir and Sofosbuvir in human plasma and pharmacokinetic study by LCMS/MS Amarnath Jaiswal*, Anupam Kumar Srivastava, Suresh C Ameta & Rakshit Ameta	47
Optimization studies and characterization of advanced geopolymer coatings for the fabrication of mild steel substrate by spin coating technique Pooja Bhardwaj*, Rainy Gupta, Kumud Deshmukh & Deepti Mishra	59
Heterogeneous solar photo-Fenton treatment of industrial wastewater via δ-FeOOH K E Barrera-Salgado, C A Pineda-Arellano, A Álvarez-Gallegos, J Hernández-Pérez & S Silva-Martínez*	68
Kinetic study of synergistic effect of multi-site phase transfer catalysis and ultrasound irradiation for the synthesis of 1, 3-bis (4-nitrophenoxy) benzene Manickam Sathiyaraj, Perumal Venkatesh* & Venugopal Rajendran	77
Kinetics and isotherm studies for adsorptive removal of methylene blue from aqueous solutions using organoclay Pooja Patanjali, Indu Chopra, Abhishek Mandal & Rajeev Singh*	86

Application of walnut tree sawdust modified with KMnO ₄ for removal of methylene blue from aqueous solution in batch system: Isotherm, kinetic and thermodynamic studies Fariba Ostovar & Saeed Pourkarim*	94
Studies on synthesis, characterisation and effect of calcination on Mg-Al hydrotalcite for the removal of anionic species	102
Nishan Ahammed V & LityAlen Varghese*	
Mathematical approach towards non-stepwise performance assessment in HUASB reactor for wastewater treatment from pulp and paper mills D Hemalatha*, RM Narayanan & G Vinoth Kanna	110
Determination and correlation of solubilityand solution thermodynamics of 1,1 2-Diphenylethane in different puresolvents	117
Yabing Qi	
Synthesis of copper oxide nanoparticles using leaf extract of <i>Simaroubaglauca</i> and its antibacterial study P Deepthi, P Naresh Kumar & P Prema*	123

Authors for correspondence are indicated by (*).