

Indian Journal of Chemical Technology

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

VOLUME 31
CODEN: ICHTEU

NUMBER 5

SEPTEMBER 2024
ISSN: 0971-457X (Print); 0975-0991 (Online)

CONTENTS

Papers

- Investigation of spectroscopic, water barrier and thermal characteristics of ameliorated chitosan membrane 673
Shivam Kumar, Devyanshu Sachdev, Renu Sharma & Navneet Kaur Bhullar*
- Development and evaluation of gelatin/polyacrylamide/carboxymethyl tamarind kernel gum hydrogel 681
for delivery of ampicillin sodium
Tanuja Kumari, Nitin, Priyanka Meena* & Sudhir G. Warkar
- Spectrophotometric quantification of biotin in drug formulations utilizing Pd(II) promoted 691
ligand substitution approach in micellar medium
Abhishek Srivastava*, Neetu Srivastava & Vinay Kumar Singh*
- Efficacy improvement technique of air-filtration unit affected by biofouling using 702
electroless Ni-Cu-P coating
Niloy Ghosh*, Jhumpa De & Amit Roy Chowdhury
- Amendment of chitosan biopolymer with graphite for augmented confiscation of reactive blue-19 and 710
reactive orange-16 textile dyes
P. M. Nandanwar*, P. Doondani, D. Sarvanan & R. M. Jugade
- Optimization of conditions for fabrication of a ceramic component through gel-casting technique 722
Rupashree Dash*, Sukalyan Dash* & Laxmidhar Besra
- Effects of PTFE-coated membrane on polyester needle-punched filter media for the control of industrial air 729
pollution
Swapnil, Satish Kumar & A K Choudhary*
- Sequestration of Ni(II) ions from water bodies by using gamma-sterilized biowaste 738
Apurva Bambal, Ravin Jugade*, D. Sarvanan & Yogesh Pakade
- Multilayer polymeric composite membrane for gas separation 749
N. Gobi*, S. Karthick Kumar, C. Karthikeyan, S. Nandhini & D. Hazel
- Visible light driven g-C₃N₄ photocatalytic pretreatment of rice straw for enhanced biogas production 762
R. Tamilselvan & A. Immanuel Selwynraj*
- Characterization and coagulation/flocculation treatment of coloured wastewater of institutional dyeing 770
laboratory
Anilkumar Yadav* & Sanjeev R. Shukla

Design of wastewater treatment plant for the removal of phenol using CHEMCAD® process simulator R W Gaikwad*, Hemant Sadafale, Vikas S Hakke, Shirish H Sonawane & A R Warade	783
Studies on Ni(II) removal from industrial wastewater by magnetic activated carbon nanocomposite Swaminathan Sribharathi, Gurusamy Kavitha*, Ramasamy Sudha & Ganeshan Dinesh Kumar	792
Synthesis of Ag-rGO nanocomposite for the catalytic reduction of p-nitrophenol Sweetlin Rajula Rubavathi D*, Jayanthi J & Preethi M. S	803
Comparison of yield for the extraction of <i>Solanum virginianum</i> bio-oil with different solvents V. Sabari, V. Apoorva Varshini, C. Jayakumar* & M. Dharmendra Kumar	810

Authors for correspondence are indicated by (*)
