

CELLULOSE CHEMISTRY AND TECHNOLOGY

**ADVANCES IN THE CHEMISTRY, PHYSICS AND TECHNOLOGY OF
POLYSACCHARIDES AND LIGNIN**

57♦2023

3 - 4 ♦ MARCH -
APRIL

C O N T E N T S

MAUREN ABARCA-ALVARADO, RÓGER MOYA, ORLANDO CHINCHILLA-MORA and CARLOS ÁVILA-ARIAS, Control of wood properties, drying and workability of wood from nine 8-year-old clones of <i>Swietenia macrophylla</i> King grown in Costa Rica	213-226
ALINE P. DRESCH, MATHEUS CAVALI, DAVID F. DOS SANTOS, ODINEI FOGOLARI, VÂNIA Z. PINTO, GUILHERME M. MIBIELLI and JOÃO P. BENDER, Different treatments of pearl millet biomass for cellulose recovery: effects on lignocellulosic composition	227-236
JANANI MUTHUKUMAR and RAMALINGAM CHIDAMBARAM, Isolation and quantification of cellulose from various food-grade macroalgal species	237-244
NURZAT SAYKIYEVA, NURAN ÇELİKÇİ, KUBAT KEMELOV, MİRLAN MOLDOBAYEV, JANIL ISKAKOVA and MUSTAFA DOLAZ, Synthesis, characterization and coating properties of carboxymethyl cellulose from sock production wastes	245-262
MARSHAHIDA MAT YASHIM, MASITA MOHAMMAD, NUR AFRIZA BAKI, NILOFAR ASIM and AHMAD FUDHOLI, Impact of carboxymethylation pretreatment on the morphological and thermal characteristics of cellulose microfibrils from oil palm frond toward solar thermal benefits	263-279
LAURA LU CUTURICU, CEZAR-DORU RADU, ANDREEA RALUCA RUSU, CODRIN LACATUSU, ANGELA DANILA, CRISTINA MIHAELA RIMBU, CORNELIU MUNTEANU, BOGDAN ISTRATE, VIOREL SCRIPCARIU, GEANINA FLORENTINA LUPASCU and STEFANA LUCA, Studies on release of Rifampicin from chitosan-based hydrogel.....	281-294
JASWINDER KAUR, RAMANDEEP KAUR MANKOO and GAGANDEEP KAUR CHAHAL, Phytotoxicity evaluation of rice straw biopolymer-based hydrogels	295-304
NAVDEEP KAUR, AJIT KAUR and URMILA GUPTA PHUTELA, Enhanced production of lignocellulolytic enzymes by bacterial culture of <i>Delftia</i> sp. through submerged state fermentation of biodigested slurry and utilization for biogas augmentation using paddy straw	305-323

GABRIELA BRASIL ROMÃO VELOSO, REBECCA S. ANDRADE, BRUNA VARELA ZANONI, REGINA MARIA BARRETTO CICARELLI, MIGUEL IGLESIAS and BRUNA GALDORFINI CHIARI-ANDRÉO, An <i>in vitro</i> alternative assay to predict the human eye irritation potential of protic ionic liquids used as textile dyeing medium	325-343
NASHEEN RUBAB, MISBAH GHAZANFAR, SAMREEN ADNAN, IRFAN AHMAD, HAFIZ ABDULLAH SHAKIR, MUHAMMAD KHAN, MARCELO FRANCO and MUHAMMAD IRFAN, Microwave-assisted alkali pretreatment of <i>Haplophragma adenophyllum</i> leaves for bioethanol production	345-358
NAVJOT SINGH, MONICA SACHDEVA TAGGAR, JASPREET KAUR, ANU KALIA and TOSH GARG, Optimization of bioethanol production from corn cobs by simultaneous saccharification and fermentation using response surface methodology	359-368
ELVRI MELLATY SITINJAK, INDRA MASMUR, YENNY SITANGGANG, RYCCE SYLVIANA PRATIKHA, FERNANDO NAI NGGOLAN, FAUZATU ARABICA YATASYA, TRISNO AFANDI, KRIS SANDARTA TARIGAN, POLTAK EVENCUS HUTAJULU, NEW VITA MEY DESTTY and GOLFRID GULTOM, A study on cellulose from oil palm biomass as a source of bioethanol production	369-375
NAYAB ZAHARA, MUHAMMAD IRFAN JALEES and MUHAMMAD UMAR FAROOQ, Enzymatic hydrolysis optimization of pretreated municipal solid waste using a mixture of enzymes produced by <i>Aspergillus niger</i>	377-388
JEVGENIJS JAUNSLAVIETIS, GALIA SHULGA, MARTINS KALNINS, JURIS OZOLINS, BRIGITA NEIBERTE, ANRIJS VEROVKINS, LAIMA VEVERE and TALRITS BETKERS, Eco-friendly composite fabricated from recycled waste paper and recycled polypropylene..	389-397
ERUSAGOUNDER SAKTHIVELMURUGAN, GANESAN SENTHILKUMAR, SHETTAHALLI MANTAIAH VINU KUMAR and HARWINDER SINGH, Cellulosic fiber extracted from <i>Alstonia macrophylla</i> seed pods as a potential reinforcement for polymer composites	399-408
MOHAMMAD ABUL HASAN SHIBLY, PALASH KUMAR SAHA, MD. ABDUL GAFUR and BASIT ABDUL, Regenerated cellulose-based composite strengthened with post-consumer polyester garments	409-417
YINZHI YANG, DUOQING FU, YUYANG WU, YUHANG YANG, YANG ZHANG, XINWANG CAO and GUANGMING CAI, Comparative study of bamboo shoot shell fibers degummed by improved sodium percarbonate and alkaline-oxygen methods	419-426
JAIR NUNES, CATIA ROSANA LANGE DE AGUIAR and ANDREA CRISTIANE KRAUSE BIERHALZ, Functionalization of cotton fabric with β -cyclodextrin and nano-ZnO.....	427-435
LAMINE AOUDJIT, EL AMINE NEBBAT and DJAMILA ZIOUI, Chitosan/ZnO nanocomposite membranes for removal of paracetamol from water	437-444

NOUF F. AL-HARBY, MAWAHEB S. ALMARSHED and NADIA A. MOHAMED, Effect of single-walled carbon nanotubes on the adsorption of Basic Red 12 dye by trimellitic anhydride isothiocyanate-cross linked chitosan hydrogel 445-458

