

CELLULOSE CHEMISTRY AND TECHNOLOGY

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

59 ♦ 2025

3 - 4 ♦ MARCH -
APRIL

C O N T E N T S

RAMAZAN BERKER DEMİRAL, ORÇUN ÇAĞLAR KURTULUŞ and SEDAT ONDARAL,
Characterization of hydroxyethylcellulose-gelatin based composites237-248

OMAR AROUS, WALID MANSOUR, KENZA LAMRI and OUARDA MERDOUD, Low-cost
treatment of real effluent wastewater containing lead ions using carboxymethyl cellulose and
polymethyl methacrylate based membranes249-257

ASHOKKUMAR SUSHANTH, YOGESH MANIVANNAN and RAJAN KRISHNA PRASAD,
Delignification kinetics and characterization of kraft pulp containing varying lignin content with
sodium perborate and sodium meta periodate259-269

E. K. VYDHEHI, AJMAL THAYYULLATHIL, SUBAIR NADUPARAMBATH and T. M.
ANJANA, Valorization of kapok (*Ceiba pentandra* (L.) Gaertn.) pods for microcrystalline
cellulose: extraction and characterization271-282

KARIMA LARKAT, DEGHEFEL NADIR, AZZEDINE BENYAHIA, AZZEDINE MELOUKI,
CHOUKI FARSI, MAHMOUD LEBID and NOURI LAIB, Effect of chemical treatment on the
properties of *Cynodon dactylon* root fiber283-290

INDAH HARTATI, DEVI YUNI SUSANTI, IGA TRISNAWATI, DWI JOKO PRASETYO
and ANGGITA SARI PRAHARASTI, Optimization of microwave-assisted hydrotropic
fractionation of ramie (*Boehmeria nivea* L.) using response surface methodology291-301

SANA SHABBIR, DALIA SUKMAWATI, IRFAN AHMAD, HAFIZ ABDULLAH SHAKIR,
MUHAMMAD KHAN, MARCELO FRANCO and MUHAMMAD IRFAN, Seed pods of
Heterophragma adenophyllum as a potential feedstock for bioethanol production303-312

ABEER M. ADEL, NIVIN M. AHMED, AMAL H. ABDEL KADER, MONA T. AL-SHEMY
and MONA A. EL-SABOUR, Biodegradable PLA coatings with improved properties using
scalable TiO₂/SiO₂ core-shell pigments for sugarcane bagasse packaging paper313-330

NISHI K. BHARDWAJ, Upgrading of paper from mixed office waste paper pulp by blending with virgin softwood kraft pulp for tropical conditions	331-339
JAFAR EBRAHIMPOUR KASMANI, AHMAD SAMARIHA and MOHAMMADREZA AMIRI MARGAVIC, Investigation of the properties of cold storage brown cardboard coated with nanopolyurethane and nanoclay	341-351
BOJANA NARIĆ, MLADEN STANČIĆ, IGOR MAJNARIĆ and BORISLAV MALINOVIĆ, Lightfastness of water-based yellow inkjet imprints	353-363
SEFA DURMAZ, EMRE AKSOY, OZLEM OZGENC KELES and UGUR ARAS, Mechanical, weathering, thermal, and fire performance of tree bark reinforced wood plastic composites.....	365-374
OLUWATOSIN A. BALOGUN, ABAYOMI A. AKINWANDE, ADEOLU A. ADEDIRAN, MALINEE SRIARIYANUN and KONG FAH TEE, Tensile, durability and thermal conductivity assessment of jute/ <i>Tetracarpidium conophorum</i> reinforced polypropylene composites ...	375-385
KANEEZ FIZA ABRESHAM, MUHAMMAD IMRAN KHAN, ZULCAIF AHMAD, AHSAN ALI and MUHAMMAD FURQAN AKHTAR, Polymeric nanoparticles enhance the aqueous solubility and therapeutic delivery of docetaxel	387- 398
ZAKIA ZEFFOUNI, BENAMAR CHEKNANE, FAIZA ZERMANE, FATIMA M'ZYENE and MOHAMED EL HATTAB, Efficient removal of methyl orange on chitosan-dialdehyde pectin film elaborated via Schiff base reaction	399-408
MUHAMMAD AMER KHAN, NAWSHAD MUHAMMAD, SAAD LIAQAT, ADNAN KHAN, HUMAIRA JABEEN, HASHAM KHAN and SUMBAL ANWAR, Effect of lignocellulosic filler on mechanical and rheological properties of alginate-based dental impression materials	409-418
KOVILJKA ASANOVIĆ, TATJANA MIHAILOVIĆ, NADIJA BUKHONKA, ISIDORA CVIJETIĆ, MIRJANA RELJIĆ, MATEA KORICA and MIRJANA KOSTIĆ, Flax plain weft-knitted fabrics: impact of pilling on structure and electrical resistivity.....	419-432
HARSHAL HOLKAR, SHASHWAT NARAYAN, JAVED SHEIKH and NAGENDER SINGH, Simultaneous dyeing and finishing of cotton fabrics using Red Ocher earth pigment.....	433-440
HARUN KAYA, A green approach for dye decontamination: activated carbon from hemp waste.....	441-450

ELENA UNGUREANU, BOGDAN-MARIAN TOFĂNICĂ, OVIDIU C. UNGUREANU, MARIA E. FORTUNĂ, RĂZVAN ROTARU, CARMEN O. BREZULEANU, GABRIELA FRUNZĂ and VALENTIN I. POPA, Biowaste-derived lignin and its use for adsorbing Fe(II) ions from aqueous environments	451-462
---	---------