

# **CELLULOSE CHEMISTRY AND TECHNOLOGY**

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

57◆2023

5 - 6 ◆ MAY -  
JUNE

## **C O N T E N T S**

SONG JIANG, YUE LIU and YUAN GU, Short peptide-based polysaccharide hydrogels for tissue engineering: A mini review .....	459-466
DUOQING FU, ZHENG LIU, YINZHI YANG, YUYANG WU, XINWANG CAO, WEI KE and SHENGYU LI, Extraction and characterization of natural cellulose fibers from reed straw: Morphological, microstructural and thermal properties .....	467-473
VINAYA B. GHODAKE, RUPESH A. KHARE and SHASHANK T. MHASKE, A simple approach towards tuning morphology of microcrystalline cellulose .....	475-485
IRINA STEPINA, YULIA ZHEGLOVA and VYACHESLAV SEMENOV, Silylation of phosphorylated cellulose .....	487-500
HONGBO TANG, PEILONG JIANG, YANPING LI and XIAOJUN LIU, Effect of carboxymethylation and hydroxypropylation on properties and structure of different starches.....	501-513
MOHAMMADMAHDI ALIGHANBARI, FIROOZEH DANAFAR, FERESHTEH BAKHTIARI and MAZIAR JAJARMI, Preparation and characterization of bacterial cellulose produced in modified Hesterin-Schramm medium by <i>Gluconacetobacter xylinus</i> .....	515-525
BHUPESH DIGAMBAR PATIL, SOPANNAMDEV NANGARE and LAXMIKANT RAMVALLABH ZAWAR, Preparation of crystallinity tailored silk fibroin-sodium alginate based floating microbeads for nevirapine delivery .....	527-539
HUMAIRA JABEEN, NAWSHAD MUHAMMAD, USAMA SIDDIQUI, MUHAMMAD SABIR, NAVEED AHMAD and SAAD LIAQAT, Effect of TiO <sub>2</sub> decorated cellulosic materials addition on physical and biological properties of dental adhesive composite.....	541-549
SINAN SONMEZ, CORNELLIUS MARCELLO and ABDUS SALAM, Chemical modification resistance the photo-oxidative degradation and improved bleaching and color fastness properties of hemp fiber .....	551-556

MD. N. A. LIKHON, MD. MOSTAFIZUR RAHMAN, JANNATUN NAYEEM, RAZIA SULTANA POPY, ABUL K. M. GOLAM SARWAR AND MD. SARWAR JAHAN, Pulping and papermaking properties of Zara plant .....	557-564
CEM AYDEMIR, SEMIHA YENİDOĞAN and DOĞAN TUTAK, Sustainability in the print and packaging industry .....	565-577
SEYED SAMAN VAKILI and FADHIL S. KAMOUNAH, Investigating the effect of microwave irradiation time, polyethylene glycol concentration and pH on the properties of Mg-based bacterial cellulose nanobiocomposite .....	579-585
MELİH ŞAHİNÖZ, HÜSEYİN YILMAZ ARUNTAŞ and METİN GÜRÜ, Production of composite particleboard from waste plum pits ( <i>Prunus domestica</i> ) and improvement of its requirements .....	587-598
ALEXANDER GAITÁN and WILLIAM GACITÚA, Fabrication and characterization of electrospun polylactic acid films reinforced with Chilean bamboo cellulose nanofibers.....	599-605
MELOUKI AZZEDINE, BENYAHIA AZZEDINE, DEGHFEL NADIR, FARSI CHOUK, LAIB NOURI, LEBID MAHMOUD and ADDOUR YAKOUT, Effect of alkaline treatment on the mechanical properties of <i>Alfa</i> /unsaturated polyester composite .....	607-615
KARIMA AGOUDJIL, NABILA HADDADINE, NAIMA BOUSLAH, OMAR AROUS, FAOUZI SAIB, MOHAMED TRARI, Water purification by photo-electrodialysis using PMMA- <i>L</i> -cysteine nanoparticle membranes combined with semiconductors .....	617-623
EKREM DURMAZ and SAIM ATES, Effect of the nanocellulose type and matrix material on the nanocomposite film production .....	625-635
VIJAYAKUMAR VADIVELVIVEK, NANJAPPAN NATARAJAN, KULANDAIVEL NIJANDHAN and CHINNAKANNAN BOOPATHI, Investigation of mechanical performance of <i>Borassus flabellifer</i> sprout fiber reinforced polymer composites .....	637-644
QURATULAIN MOHTASHIM, FAREHA ASIM and FARHANA NAEEM, Investigation into an eco-friendly reactive dyeing process of cotton fabrics using an ethanol-water mixture through design of experiment .....	645- 655
WAFA SAADI, SOUAD SOUSSI-NAJA, MARIEM OTHMAN and ABDELMOTTALEB OUEDERNI, Copper adsorption onto pomegranate peel activated carbon as a new adsorbent.....	657- 669