

# **CELLULOSE CHEMISTRY AND TECHNOLOGY**

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

54♦2020

5 - 6 ♦ MAY -  
JUNE

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

FERNANDA L. MIGLIORINI, KELCILENE B. R. TEODORO and DANIEL S. CORREA, Green-synthesized gold nanoparticles supported on cellulose nanowhiskers for easy-to-interpret colorimetric detection of cadmium (II) .....	407-413
AKIO KUMAGAI and TAKASHI ENDO, Tannic acid-immobilized cellulose nanofiber prepared by esterification using polycarboxylic acid .....	415-419
ERIC WEI CHIANG CHAN, CAROLINE MAY YING HUANG, PEI XIN CHIA, CARINE SHU SHIEN LIM, ZHI JUIN LOONG, MARINA TALIB, CHEN WAI WONG and VANIA SEPTA ANGGRAENI, Swelling behaviour and methylene blue absorption of carboxymethyl cellulose hydrogels prepared from Malaysian agricultural wastes by electron beam irradiation.....	421-428
SHAMO ZOKHRAB TAPDIQOV, A drug-loaded gel based on graft radical copolymerization of n-vinylpyrrolidone and 4-vinylpyridine with chitosan .....	429-438
SERGEY G. KOSTRYUKOV, PAVEL S. PETROV, VALENTIN A. KALYAZIN, WAJAHAT ULLAH, VERONICA S. TEZIKOVA, ARTYOM A. ODNOPOLOV, YULIYA YU. MASTEROVA and DHURGHAM HANI KADHIM ALALWAN, Hydrolysis of hydroxyethyl methylcellulose with perchloric acid and determination of chemical structure via <sup>13</sup> C NMR spectroscopy .....	439-450
ZAHRA AZZOUZ, AZZEDDINE BETTACHE, NAWEL BOUCHERBA, ZAHIR AMGHAR and SAID BENALLAOUA, Optimization of xylanase production by newly isolated strain <i>Trichoderma afroharzianum</i> isolate AZ 12 in solid state fermentation using response surface methodology .....	451-462
SHRIKANTA SUTRADHAR, KAZI M. YASIN ARAFAT, JANNATUN NAYEEM and M. SARWAR JAHAN, Organic acid lignin from rice straw in phenol-formaldehyde resin preparation for plywood .....	463-471
VALENTINA RADIĆ SELEŠ, IRENA BATES, IVANA PLAZONIĆ and IGOR MAJNARIĆ, Analysis of optical properties of laboratory papers made from straw pulp and	

coated with titanium dioxide white ink .....	473-483
EMİNE ARMAN KANDIRMAZ, SEMİHA YENİDOĞAN, CEM AYDEMİR and ARİF KARADEMİR, Effect of using calcium carbonate ( $\text{CaCO}_3$ ) in surface coating on liquid absorption of paper and some printability parameters .....	485-493
CEM AYDEMİR, AHMET AKGÜL and DOĞAN TUTAK, Effects of oven drying and polydimethylsiloxane (PDMS) emulsion coating on heat-set printing quality .....	495-503
CHAOWEI WU, JIN LI, LITAO ZHANG, WENLING WANG, CHONG LUO, XIAOHUI TIAN, YANGYUAN TIAN, XIAOLONG ZHANG, CHEN WANG, RUNAN WANG, JIANKAI LI, XIAODONG YANG and YANGBING WEN, Preparation of cationic softwood kraft pulp fibres as retention additive to produce reconstituted tobacco sheet <i>via</i> paper-making.....	505-513
LISA HOFFELLNER and ERICH LEITNER, Sorption behavior of organic molecules on porous paper material .....	515-522
IGOR KARLOVITS, URŠKA KAVČIČ, GREGOR LAVRič, ANDREJ ŠINKOVEC and VLADIMÍR ZORIĆ, Digital printability of papers made from invasive plants and agro-industrial residues .....	523-529
VIGNESH PRAGASAM and DEGALAHAL MALLIKARJUNA REDDY, Investigation on tensile strength of cellulose microfibril reinforced polymer composites .....	531-544
IMENE BOULHAIA, NADJI MOULAI-MOSTEFA, ABDELKADER HADJSADOK and ALI AOUABED, Elaboration and characterization of a natural composite material based on colloidal particles of microcrystalline cellulose coated with modified starch .....	545-552
NUREDIN MUHAMMED and NALANKILLI GOVINDAN, Cotton cellulose modified with urea and its dyeability with reactive dyes .....	553-570
İSMAIL TIYEK and MUSTAFA OĞUZ GÖK, Influence of fiber dyeing process on inner structure of some cotton fibers produced in Turkey .....	571-577
IULIA NICĂ, CARMEN ZAHARIA, RALUCA IOANA BARON, SERGIU COSERI and DANIELA SUTEU, Adsorptive materials based on cellulose: preparation, characterization and application for copper ions retention .....	579-590
KHALID A. ALAMRY, SHER KHAN, ELHAM BIFARI and ABDULLAH ASIRI, Cellulose acetate/copper (II) oxide nanocomposite for selective detection and extraction of lead (II) ions .....	591-600
MOHAMED EL-SAKHAWY, AHMED SALAMA, AHMED K. EL-ZIATY and HAZEM HASSAN, Preparation and adsorption properties of chitosan/silica/ $\text{Fe}_3\text{O}_4$ nanocomposite.....	601-608