

CELLULOSE CHEMISTRY AND TECHNOLOGY

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

55♦2021

5 - 6 ♦ - MAY
JUNE

C O N T E N T S

AKASH M. SARKAR, MAISHA FARZANA, M. MOSTAFIZUR RAHMAN, YANGCAN JIN and M. SARWAR JAHAN, Future cellulose based industries in Bangladesh – a mini review443-459

SERGEY G. KOSTRYUKOV, PAVEL S. PETROV, VERONICA S. TEZIKOVA, YULIYA YU. MASTEROVA, TULFIKAR J. IDRIS and NIKITA S. KOSTRYUKOV, Determination of wood composition using solid-state ¹³C NMR spectroscopy461-468

ANNE D. FERNANDOPULLE, LALEEN KARUNANAYAKE, DON A. S. AMARASINGHE, ADIKARI M. P. B. SAMARASEKARA and DINESH ATTYGALLE, Humidity sensing potential of a microcrystalline cellulose sheet469-475

FARHANA YASMIN, MOHAMMED R. AMIN, MOHAMMED A. HOSEN, MOHAMMED Z. H. BULBUL, SUJAN DEY and SARKAR M. A. KAWSAR, Monosaccharide derivatives: synthesis, antimicrobial, pass, antiviral and molecular docking studies against SARS-COV-2 M^{PRO} inhibitors477-499

ZHIJUN HU, XINYU CAO, DALIANG GUO, YINCHAO XU, PING WU, PETER CHRISTIE and JING LI, A comparative study of cellulose nanowhiskers (CNWs) and cellulose nanofibers (CNFs)501-510

FATIMA EZAHRA TABAGHT, ABDERRAHMANE EL IDRISI, MOHAMED AQIL, ALI ELBACHIRI, ABDESLAM TAHANI and ABDELKARIM MAAROUFI, Grafting method of fluorinated compounds to cellulose and cellulose acetate: characterization and biodegradation study511-528

DANIELLY DE OLIVEIRA BEGALI, ANA CAROLINA SALGADO DE OLIVEIRA, LAURA FONSECA FERREIRA, CASSIANO RODRIGUES DE OLIVEIRA, LUIS ROBERTO BATISTA, ODÍLIO BENEDITO GARRIDO DE ASSIS, MARIA IRENE YOSHIDA and SORAIA VILELA BORGES, Properties of lignin microparticles prepared by mechanical treatment529-537

ALEX ZHEN KAI LO, SITI KHADIJAH LUKMAN, CHIAN-HUI LAI, NORHIDAYU MUHAMAD ZAIN and SYAFIQAH SAIDIN, Stingless bee honey incorporated cellulose

hydrogel/poly(lactic- <i>co</i> -glycolic acid) patch as an alternative treatment for aphthous stomatitis.....	539-603
YAKUBU ABDULHADI and VYAS ASHISH, Production, optimization and deinking capacity of alkaline cellulase produced from <i>Mucor circinelloides</i> WSSDBS2F1	605- 618
HÜLYA KUDUĞ CEYLAN, YAKUP ULUSU, SEMA BILGIN and İSA GÖKÇE, Expression of cellulose-degrading endoglucanase from <i>Bacillus subtilis</i> using PTOLT expression system in <i>Escherichia coli</i>	619-627
AMINA ALLOUACHE, AZIZA MAJDA, AHMED ZAID TOUDERT, ABDEL TIF AMRANE and MERCEDES BALLESTEROS, Cellulosic bioethanol production from <i>Ulva lactuca</i> macroalgae	629-635
ANNA GAŁĄZKA and JAN SZADKOWSKI, Enzymatic hydrolysis of fast-growing poplar wood after pretreatment by steam explosion	637-647
SALAH A. A. MOHAMED, AHMED SALAMA, MOHAMED EL-SAKHAWY and ABDELMAGEED M. OTHMAN, Sustainable cellulose nanocrystal reinforced chitosan/HPMC bio-nanocomposite films containing menthol oil as packaging materials.....	649-658
NEVIN ÇANKAYA, Synthesis and structural properties of chitin/clay bio-nanocomposites.....	659-665
MOHAMED EL-SAKHAWY, AMAL H. ABD EL-KADER, TAMER Y. A. FAHMY, ESSAM S. ABD EL-SAYED and NESRINE F. KASSEM, Optimization of dithionite bleaching of high yield bagasse pulp	667-673
YINZHI YANG, MENGTING ZHU, FANGWEI FAN, KAIYANG FANG, JINPENG XIE, ZHONGMIN DENG and XINWANG CAO, Extraction of bamboo shoot shell fibers by the ultrasound-assisted alkali-oxygen bath method	675-680
GENNE PATT O. SAMAR, ALVIN KARLO G. TAPIA, CHRYSLINE MARGUS N. PIÑOL, NACITA B. LANTICAN, MA. LOURDES F. DEL MUNDO, RONNIEL D. MANALO and MARVIN U. HERRERA, Preparation of antimicrobial paper by microwave-assisted two-pot <i>in-situ</i> deposition of zinc oxide on filter paper	681-688
UFUK YILMAZ, AHMET TUTUŞ and SİNAN SÖNMEZ, Fiber classification, physical and optical properties of recycled paper	689-696
HANANE ABURIDEH, ZAHIA TIGRINE, DJAMILA ZIOUI, SARAH HOUT, DJILALI TASSALIT and MOHAMED ABBAS, Wastewater treatment using a modified cellulose acetate membrane	697-704
JEYAGOWRI BALAKRISHNAN and YAMUNA RANGAIYA THIAGARAJAN, Characterization and potential suitability of <i>Simarouba glauca</i> seed shell lignocellulosic biomass as adsorbent of basic dyes from aqueous solutions	705-722
Book reviews.....	723-724