

AND TECHNOLOGY

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

52♦2018

7-8 ♦ JULY -
AUGUST

C O N T E N T S

| | |
|--|---------|
| Celebrating the 70 th anniversary of Professor Bogdan C. Simionescu..... | 501-503 |
| DANA MIHAELA TURLIUC, ANDREI IONUT CUCU, ALEXANDRU CĂRĂULEANU and CLAUDIA FLORIDA COSTEA, Efficiency and safety of microporous polysaccharide hemispheres from potato starch in brain surgery..... | 505-513 |
| MARINA VUKOJE and MIRELA ROŽIĆ, Various valorisation routes of paper intended for recycling – a review..... | 515-541 |
| IULIANA SPIRIDON, Biological and pharmaceutical applications of lignin and its derivatives: a mini-review..... | 543-550 |
| ALISA MOŞNEAGA, PETRU LOZOVANU and VALENTIN NEDEFF, Investigation of biostimulation effects on germination and seedling growth of some crop plant species | 551-558 |
| YUBEXI CORREA MARCANO and MARCOS A. SABINO G., Chemical modification of alginate with L-cysteine to extend its use in drug delivery systems..... | 559-567 |
| SIMONA MORARIU, MARIA BERCEA and CRISTINA-ELIZA BRUNCHI, Phase separation in xanthan solutions | 569-576 |
| MARKO KRSTIC, ZORAN MAKSIMOVIC, SVETLANA IBRIC, TAMARA BAKIC, JOVANA PRODANOVIC and SLAVICA RAZIC, Lignocellulosic biomass as a source of microcrystalline cellulose – chemical and technological characterization and future perspectives | 577-588 |
| MONTSERRAT JUÁREZ, RAFAEL SÁNCHEZ, EDUARDO ESPINOSA, JUAN DOMÍNGUEZ-ROBLES, ISABEL BASCÓN-VILLEGRAS and ALEJANDRO RODRÍGUEZ, Environmentally friendly lignocellulose nanofibres from barley straw | 589-595 |
| LE VAN HAI, YUNG BUM SEO and SRIKANTH NARAYANAN, Hardwood cellulose nanocrystals: multi-layered self-assembly with evidence of circular and distinct nematic pitch | 597-601 |

| | |
|---|---------|
| MARIA BERCEA and PATRICK NAVARD, Viscosity of hydroxypropyl cellulose solutions in non-entangled and entangled states | 603-608 |
| GABRIELA BILIUTA, DANIELA SUTEU, TEODOR MALUTAN, ANDREEA-IRINA CHIRCULESCU, IULIA NICĂ and SERGIU COSERI, Valorization of TEMPO-oxidized cellulosic fractions for efficient dye removal from wastewaters | 609-618 |
| MIRELA-FERNANDA ZALTARIOV, DANIELA FILIP, CRISTIAN-DRAGOS VARGANICI and DOINA MACOCINSCHI, ATR-FTIR and thermal behavior studies of new hydrogel formulations based on hydroxypropyl methylcellulose/poly(acrylic acid) polymeric blends..... | 619-631 |
| PAUNKA S. VASSILEVA, ALBENA K. DETCHEVA, TEMENUZHKA HR. RADOYKOVA, IVALINA A. AVRAMOVA, KATERINA I. ALEKSIEVA, SANCHI K. NENKOVA, IVO V. VALCHEV and DIMITAR R. MEHANDJIEV, Studies on Ag ⁺ adsorption using two new lignocellulosic materials based on <i>Populus alba</i> L. and <i>Robinia pseudoacacia</i> L. | 633-643 |
| ANA-MARIA CHEȘCĂ, RALUCA NICU, BOGDAN MARIAN TOFANICA, ADRIAN CATALIN PUITEL, ROXANA VLASE and DAN GAVRILESCU, Pulping of corn stalks – assessment for bio-based packaging materials | 645-653 |
| MOHAMED EL-SAKHAWY, HASSAN M. AWAD, HASSAN M.F. MADKOUR, AHMED K. EL-ZIATY, MONA ABDELKADER NASSAR and SALAH A. A. MOHAMED, Preparation and application of organophosphorus dimers as antimicrobial agents for bagasse packaging paper | 655-662 |
| CLAUDIU-AUGUSTIN GHIORGITA, FLORIN BUCATARIU and ECATERINA STELA DRAGAN, Novel silica/polyelectrolyte multilayer core-shell composite microparticles with selectivity for anionic dyes | 663-672 |
| VALERII BARBASH, IRINA TREMBUS and NINA SOKOLOVSKA, Performic pulp from wheat straw..... | 673-680 |
| MUHAMMAD TAHIR HASEEB, MUHAMMAD AJAZ HUSSAIN, SOON HONG YUK, MUHAMMAD AMIN, SAJID BASHIR and ZAKIR HUSSAIN, Acetylation of linseed hydrogel: synthesis, characterization, isoconversional thermal analysis and degradation kinetics | 681-688 |
| CHAT PHOLNAK, NUSROFAH LATTE, CHITNARONG SIRISATHITKUL, MONTTHON LERTWORAPREECHA and SUMETHA SUWANBOON, Antifungal mulberry papers modified with microclusters of pyramidal zinc oxide | 689-694 |
| MARIO M. AGUIAR, VIVIAN C. PIETROBON, MARILIA MOURA DE SALLES PUPO, NÁDIA HORTENSE TORRES, JULIANA H. P. AMÉRICO, GIANCARLO RICHARD SALAZAR-BANDA, DANIEL P. SILVA, REGINA TERESA ROSIM MONTEIRO and LUIZ F. ROMANHOLO FERREIRA, Evaluation of commercial cellulolytic enzymes for sugarcane bagasse hydrolysis | 695-699 |