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LGP2 - Publications scientifiques dans des revues à comité de lecture avec Impact Factor (IF) - 2014

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1- ADJIMI S., SERGENT N., ROUX J.C., DELPECH F., PERA-TITUS M., CHHOR K., KANAEV A., THIVEL P.X.

Photocatalytic paper based on sol-gel titania nanoparticles immobilized on porous silica for VOC abatement. Applied Catalysis B: Environmental, 2014, 154-155, pp. 123-133

2- ADJIMI S., ROUX J.C., SERGENT N., DELPECH F., THIVEL P.X., PERA-TITUS M.

Photocatalytic oxidation of ethanol using paper-based nano-TiO₂ immobilized on porous silica: a modelling study. Chemical Engineering Journal, 2014, 251, pp. 381-391

3- AMMAR M., KHIARI R., BERRIMA B., BELGACEM N., ELALOUI E.

Isolation and characterization of lignin from Stipa tenacissima L. and Phoenix dactylifera. Cellulose Chemistry and Technology, 2014, 48(3-4), pp. 255-263

- 4- BARHOUM A., RAHIER H., ABOUZEID R., REHAN M., DUFOR T., HILL G., DUFRESNE A. *Effect of cationic and anionic surfactants on the application of calcium carbonate nanoparticles in paper coating*. ACS Applied Materials & Interfaces, 2014, 6 (4), pp. 2719-2728
- 5- BEN MABROUK A., BROCHIER-SALON M.C., MAGNIN A., BELGACEM M.N., BOUFI S. *Cellulose-based nanocomposites prepared via mini-emulsion polymerization: understanding the chemistry of the nanocellulose / matrix interface*. Colloids and surfaces A-Physicochemical and engineering aspects, 2014, 448, pp. 1-8
- 6- BENEVENTI D., CHAUSSY D., CURTIL D., ZOLIN L., GERBALDI C., PENAZZI N. *Highly porous paperloading with microfibrillated cellulose by spray coating on wet substrates*. Industrial & Engineering Chemistry Research, Materials and Interfaces, 2014, 53(27), pp. 10982-10989
- 7- BENEVENTI D., CHAUSSY D., CURTIL D., ZOLIN L., BRUNO E., BONGIOVANNI R., DESTRO M., GERBALDI C., PENAZZI N., TAPIN-LINGUA S. *Pilot-scale elaboration of graphite/microfibrillated cellulose anodes for Li-ion batteries by spray deposition on a forming paper sheet*. Chemical Engineering Journal, 2014, 243, pp. 372-379
- 8- BENHAMOU K., DUFRESNE A., MAGNIN A., MORTHA G., KADDAMI H. *Control of size and viscoelastic properties of nanofibrillated cellulose from palm tree by varying the TEMPO-mediated oxidation time*. Carbohydrate Polymers, 2014, 99, pp. 74-83
- 9- BERGLUND L., BISMARCK A., DUFRESNE A., ISOGAI A. *Renewable nanomaterial, polymers and composites*. Reactive & Functional Polymers, 2014, 85, p. 77
- 10- BOIS C., DUMONT P.J.J., BLAYO A., VINCENT R., NAYOZE C., CHAUSSY D. *Evaluating the effectiveness of using flexography printing for manufacturing catalyst-coated membranes for fuel cells*. Fuel Cells, 2014, 14 (4), pp. 614-625
- 11- BOUFI S., KADDAMI H., DUFRESNE A. *Mechanical performance and transparency of nanocellulose reinforced polymer nanocomposites*. Macromolecular Materials and Engineering, 2014, 299(5), pp. 560-568
- 12- BOUROUROU M., ELOUARZAKI K., HOLZINGER M., AGNES C., LE GOFF A., REVERDY-BRUAS N., CHAUSSY D., PARTY M., MAAREF A., COSNIER S. *Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer*. Chemical Science, 2014, 5(7), pp. 2885-2888
- 13- CATETO C.A., BARREIRO M. F., OTTATID C., LOPRETTI M., RODRIGUES A. E., BELGACEM M.N. *Minimizing residual monomers from the synthesis of cellulose nanofibrils*. Journal of Colloid and Interface Science, 2014, 418, pp. 100-108

Lignin-based rigid polyurethane foams with improved biodegradation. Journal of Cellular Plastics, 2014, 50, pp. 81-95

14- DUFRESNE A.

Crystalline starch based nanoparticles. Current Opinion in Colloid & Interface Science, 2014, 19(5), pp. 397-408

15- EL GENDY A., KHIARI R., BETTAIEB F., MARLIN N., DUFRESNE A.

Preparation and application of chemically modified kaolin as fillers in Egyptian kraft bagasse pulp. Applied Clay Science, 2014, 101, pp. 626-631

16- EL ICHI S., ZEBDA A., LAAROUSSI A., REVERDY-BRUAS N., CHAUSSY D., BELGACEM N., CINQUIN P., MARTIN D.K.

Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. Chemical Communications, 2014, 50(93), pp. 14535-14538

17- ESPINO-PEREZ E., DOMENEK S., BELGACEM N., SILLARD C., BRAS J.

Green process for chemical functionalization of nanocellulose with carboxylic acids. Biomacromolecules, 2014, 15(12), pp. 4551-4560

18- ESPINO-PEREZ E., CAKIR M., DOMENEK S., ROMAN-GUTIERREZ A.D., BELGACEM N., BRAS J.

Isolation and characterization of cellulose nanocrystals from industrial by-products of Agave tequilana and barley. Industrial Crops and Products, 2014, 62, pp. 552-559

19- GAVORY C., ABDERRAHMEN R., BORDES C., CHAUSSY D., BELGACEM M.N., FESSI H., BRIANCON S.

Encapsulation of a pressure sensitive adhesive by spray-cooling: Optimum formulation and processing conditions. Advanced Powder Technology, 2014, 25 (1), pp. 292-300

20- GOPALAKRISHNAN P., NARAYAN-SARATHY S., GHOSH T., MAHAJAN K., BELGACEM M.N.

Synthesis and characterization of bio-based furanic polyesters. Journal of Polymer Research, 2014, 21 (1), pp. 1-9

21- GUENEAU B., MARLIN N., DERONZIER A., LACHENAL D.

Pulp delignification with oxygen and copper(II)-polyimine complexes. Holzforschung, 2014, 68 (4), pp. 377-384

22- HASSAN M. L., BRAS J., HASSAN E. A., SILLARD C., MAURET E.

Enzyme-assisted isolation of microfibrillated cellulose from date palm fruit stalks. Industrial Crops and Products, 2014, 55, pp. 102-108

23- ISAKSSON P., DUMONT P.J.J.

Approximation of mode I crack-tip displacement fields by a gradient enhanced elasticity theory. Engineering Fracture Mechanics, 2014, 117, pp. 1-11

24- KADIMI A., BENHAMOU K., OUNAIES Z., MAGNIN A., DUFRESNE A., KADDAMI H., RAIHANE M.

Electric field alignment of nanofibrillated cellulose (NFC) in silicone oil: impact on electrical properties. ACS Applied materials & Interfaces, 2014, 6(12), pp. 9365-9375

25- KARIMI S., TAHIR P., KARIMI A., DUFRESNE A., ABDULKHANI A.

Kenaf bast cellulosic fibers hierarchy: a comprehensive approach from micro to nano. Carbohydrate Polymers, 2014, 101, pp. 878-885

26- KARIMI S., DUFRESNE A., KARIMI A.N., TAHIR, P. Md, ABDULKHANI A.

Biodegradable starch based composites: effect of micro- and nano- reinforcements on composite properties. Journal of Materials Science, 2014, 49 (13), pp. 4513-4521

27- KARIMI S., TAHIR P., DUFRESNE A., KARIMI A.N., ABDULKHANI A.

A comparative study on characteristics of nanocellulose reinforced thermoplastic starch biofilms prepared with different techniques. Nordic Pulp and Paper Research Journal, 2014, 29 (1), pp. 41-45

28- KOEHLI R., WANDERLEY M.M., VAN DE VEN T., CURTIL D.

In-house development of paper force sensors for musical applications. Computer Music Journal, 2014, 38 (2), pp. 22-35

29- KORDOGHLI, B., KHIARI R., DHAOUADI H., BELGACEM M.N., MHENNI M., SAKLI F.

UV irradiation-assisted grafting of poly(ethylene terephthalate) fabrics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, pp. 606-613

30- LAVOINE N., DESLOGES I., KHELIFI B., BRAS J.

Impact of different coating processes of microfibrillated cellulose on the mechanical and barrier properties of paper. Journal of Materials Science, 2014, 49 (7), pp. 2879-2893

31- LAVOINE N., DESLOGES I., BRAS J.

Mechanical and barrier properties of cardboard and 3D packaging coated with microfibrillated cellulose. Journal of Applied Polymer Science, 2014, 131, pp. 40106/1-40106/11

32- LAVOINE N., DESLOGES I., BRAS J.

Microfibrillated cellulose coatings as new release systems for active packaging. Carbohydrate Polymers, 2014, 103, pp. 528-537

33- LAVOINE N., GIVORD C., TABARY N., DESLOGES I., BARTEL B., BRAS J.

Elaboration of a new antibacterial bio-nano-material for food-packaging by synergistic action of cyclodextrin and microfibrillated cellulose. Innovative Food Science & Emerging Technologies, 2014, 26, pp. 330-340

- 34- LAVOINE N., TABARY N., DESLOGES I., BARTEL B., BRAS J.
Controlled release of chlorhexidine digluconate using beta-cyclodextrin and microfibrillated cellulose. Colloids and Surfaces B: Biointerfaces, 2014, 121, pp. 196-205
- 35- LAVOINE N., DESLOGES I., SILLARD C., BRAS J.
Controlled release and long-term antibacterial activity of chlorhexidine digluconate through the nanoporous network of microfibrillated cellulose. Cellulose, 2014, 21(6), pp. 4429-4442
- 36- LECORRE D., DUFRESNE A., RUEFF M., KHELIFI B., BRAS J.
All starch nanocomposite coating for barrier material. Journal of Applied Polymer Science, 2014, 131 (3), pp. 39826/1-39826/7
- 37- LIN N., DUFRESNE A.
Surface chemistry, morphological analysis and properties of cellulose nanocrystals with gradient sulfation degrees. Nanoscale, 2014, 6 (10), pp. 5384-5393
- 38- LIN N., WEI S., XIA T., HU F., HUANG J., DUFRESNE A.
Green Bionanocomposites from high-elasticity "soft" polyurethane and high-crystallinity "rigid" chitin nanocrystals with controlled surface acetylation. RSC Advances, 2014, 4(90), pp. 49098-49107
- 39- LIN N., DUFRESNE A.
Nanocellulose in biomedicine: current status and future prospect. European Polymer Journal, 2014, 59, pp.302-325
- 40- MARIANO M., EL KISSI N., DUFRESNE A.
Cellulose nanocrystals and related nanocomposites : review of some properties and challenges. Journal of Polymer Science: Part B Polymer Physics, 2014, 52 (12), pp. 791-806
- 41- MISSOUM K., BELGACEM N., BRAS J., SADOCCO P., CAUSIO J.
Antibacterial activity and biodegradability assessment of chemically grafted nanofibrillated cellulose. Materials Science & Engineering C: Materials for Biological Applications, 2014, 45, pp. 477-483
- 42- NECHYPORCHUK O., BELGACEM N., PIGNON F.
Rheological properties of micro-/nanofibrillated cellulose suspensions: Wall-slip and shear banding phenomena. Carbohydrate Polymers, 2014, 112, pp. 432-439
- 43- PEREDA M., DUFRESNE A., ARANGUREN M., MARCOVICH N.
Polyelectrolyte films based on chitosan/olive oil and reinforced with cellulose nanocrystals. Carbohydrate Polymers, 2014, 101, pp. 1018-1026
- 44- PEREDA M., EL KISSI N., DUFRESNE A.
Extrusion of polysaccharide nanocrystal reinforced polymer nanocomposites through

compatibilization with poly(ethylene oxide). ACS Applied materials & Interfaces, 2014, 6 (12), pp. 9365-75.

45- PERRIN J., POUYET F., CHIRAT C., LACHENAL D.

Formation of carbonyl and carboxyl groups on cellulosic pulps : Effect on alkali resistance. BioResources, 2014, 9(4), pp. 7299-7310

46- POUYET F., CHIRAT C., POTTHAST A., LACHENAL D.

Formation of carbonyl groups on cellulose during ozone treatment of pulp: consequences for pulp bleaching. Carbohydrates Polymers, 2014, 109, pp. 85-91

47- QUESNE B., REVERDY-BRUAS N., BENEVENTI D., CHAUSSY D., BELGACEM M.N.

Surface characterization of industrial flexible polyvinyl(chloride) films. Applied Surface Science, 2014, 296, pp. 147-153

48- THUO M., MARTINEZ R.V., LAN W.J., LIU X., BARBER J., ATKINSON M.B.J., BANDARAGE D., BLOCH J.F., WHITESIDES G.M.

Fabrication of low-cost paper-based microfluidic devices by embossing or cut-and-stack methods. Chemistry of Materials, 2014, 26(14), pp. 4230-4237

49- THIBERT S., JOURDAN J., BECHEVET B., CHAUSSY D., REVERDY-BRUAS N., BENEVENTI D.

Influence of silver paste rheology and screen parameters on the front side metallization of silicon solar cell. Materials Science in Semiconductor Processing, 2014, 27, pp. 790-799

50- TRICOT F., VOCANSON F., CHAUSSY D., BENEVENTI D., REYNAUD S., DESTOUCHES N.

Photochromic Ag:TiO₂ thin film on PET substrate. RSC Advances, 2014, 4, pp. 61305-61312

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