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LGP2 - Publications scientifiques dans des revues à comité de lecture avec Impact Factor (IF) - 2016

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1. ADEL A.M., EL GENDY M.D., ABOUZEID R.E., EL-ZAWAWY W.K., DUFRESNE A. *Microfibrillated cellulose from agricultural residues. Part 1: Papermaking application*. Industrial Crops and Products, 93, 161-174 (2016)
2. BERTHIER J., GOSELIN D., PHAM A., DELAPIERRE G., BELGACEM N., CHAUSSY D. *Spontaneous capillary flows in piecewise varying cross section microchannels*. Sensors and Actuators B: Chemical, 223, 868-877 (2016)
3. BERTHIER J., GOSELIN D., PHAM A., DELAPIERRE G., BELGACEM N., CHAUSSY D. *Capillary flows resistors: Local and global resistors*. Langmuir, 32(3), 915-921 (2016)
4. BERTHIER J., BAKKE K., GOSELIN D., NAVARRO F., BELGACEM N., CHAUSSY D. *Spontaneous capillary flow in curved, open microchannels*. Microfluid Nanofluid, À

PARAÎTRE

5. CADET C., GUILLET A., AUROUSSEAU M.

Dynamic activated sludge modelling and validation: a comparative study on industrial effluent. Environmental Engineering and Management Journal, À PARAÎTRE

6. CADET C., GUILLET A., AUROUSSEAU M.

Dynamic modeling of an activated sludge process: a case study on paper mill effluents. Journal of Environmental Engineering, 142(8), (2016)

7. CHAPELAIN J.C.M., FAURE. S, BENEVENTI. D.

Clay Flotation: Effect of TTAB Cationic Surfactant on Foaming and Stability of Illite Clay Microaggregates Foams. Industrial & Engineering Chemistry Research, 55(7), 2191-2201 (2016)

8. CHIBANI N., DJIDJELLI H., DUFRESNE A., BOUKERROU A., NEDJMA S.

Study of effect of old corrugated carboard (OCC) in properties of PP composites : study of mechanical properties, thermal behavior and morphological properties. Journal of Vinyl and Additive Technology, 22(3), 231-238 (2016)

9. DUCHEMIN B., LECORRE D., LERAY N., DUFRESNE A., STAIGER M.

All-cellulose composites based on microfibrillated cellulose and filter paper via a NaOH-urea solvent system. Cellulose 23(1), 593-609 (2016)

10. DUFRESNE A., CASTANO J.

Polysaccharide nanomaterial reinforced starch nanocomposites: A review. Starch, À PARAÎTRE

11. EL BARADAI O., BENEVENTI. D., ALLOIN F., BONGIOVANNI R., REVERDY-BRUAS N. , BULTEL Y., CHAUSSY D.

Microfibrillated cellulose based ink for eco-sustainable screen printed flexible electrodes in lithium ion batteries. Journal of Materials Science and Technology 32(6), 566-572 (2016)

12. EL ICHI-RIBAULT S., ABDELKADER Z., LAAROUSSI A., REVERDY-BRUAS N. , CHAUSSY D., BELGACEM N., SUHERMAN A.L., CINQUIN P., MARTIN D.K.

Laccase-based biocathodes: comparison of chitosan and Nafion, 937, 43-52 (2016)

13. ESPINO PEREZ E., GILBERT R.G., DOMENEK S., BROCHIER-SALON M.C. , BELGACEM N., BRAS J.

Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. Carbohydrate Polymers, 135, 256-266 (2016)

14. FLAUZINO NETO W.P., PUTAUX J.L., MARIANO M., OGAWA Y., OTAGURO H., PASQUINI D., DUFRESNE A.

- Comprehensive morphological and structural investigation of cellulose I and II nanocrystals prepared by sulphuric acid hydrolysis*. RSC Advances, 6, 76017-76027 (2016)
15. FLAUZINO NETO W.P., MARIANO M., VIEIRA DA SILVA I.S., SILVERIO H.A., PUTAUX J.L., OTAGURO D., PASQUINI D., DUFRESNE A.
Mechanical properties of natural rubber nanocomposites reinforced with high aspect ratio cellulose nanocrystals isolated from soy hulls. Carbohydrate Polymers, 153, 143-152 (2016)
16. GOSSELIN D., HUET M., CUBIZOLLES M., RABAUD D., CHAUSSY D., BELGACEM N., BERTHIER J.
Viscoelastic capillary flow of whole blood. AIMS Biophysics 3(3), 340-357 (2016)
17. GUIZANI C., HADDAD K., JEGUIRIM M., COLIN B., LIMOUSY L.
Combustion characteristics and kinetics of torrefied olive pomace, Energy, 107, 453-463 (2016)
18. HURON M., HUDEBINE D., LOPES FERREIRA N., LACHENAL D.
Mechanistic modeling of enzymatic hydrolysis of cellulose integrating substrate morphology and cocktail composition. Biotechnology and Bioengineering, À PARAÎTRE
19. HURON M., HUDEBINE D., LOPES FERREIRA N., LACHENAL D.
Impact of delignification on the morphology and the reactivity of steam exploded wheat straw. Industrial Crops and Products, 79, 104-109 (2016)
20. KARIMI S., ABDULKHANI P.M.T., DUFRESNE A.
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21. KHIARI R., BROCHIER-SALON M.C., MHENNI M.F., MAURET E., BELGACEM N.
A new way to produce cellulose carbonates using green chemistry : cellobiose as a model compound. Green Chemistry A PARAITRE
22. KHIARI R., BROCHIER-SALON M.C., MHENNI M.F., MAURET E., BELGACEM N.
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23. LIN N., GEZE A., WOUESSIDJEW D., HUANG J., DUFRESNE A.
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24. MALLADI N., EL KISSI N., MORTHA G., DUFRESNE A.
Structural investigation of cellulose nanocrystals extracted from chili leftover and their reinforcement in cariflex-IR rubber latex. Carbohydrate Polymers, 136, 945-954 (2016)
25. MALLADI N., EL KISSI N., DUFRESNE A.
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26. MALLADI N., PIGNON F., EL KISSI N., DUFRESNE A.
Surface adsorption of triblock copolymer (PPO-PEO-PPO) on cellulose nanocrystals and their melt extrusion with polyethylene. RSC Advances, 6, 66224-66232 (2016)
27. MARIANO M., EL KISSI N., DUFRESNE A.
Cellulose nanocrystal reinforced oxidized natural rubber nanocomposites. Carbohydrate Polymers, 137, 174-183 (2016)
28. MARIANO M., EL KISSI N., DUFRESNE A.
Cellulose nanomaterials : Size and surface influence on the thermal and rheological behavior. Polimeros: Ciencia e Tecnologia, À PARAÎTRE
29. MARIANO M., EL KISSI N., DUFRESNE A.
Structural reorganization of CNC in injection-molded CNC/PBAT materials under thermal annealing. Langmuir, 32(39), 10093-10103 (2016)
30. MARIANO M., CHIRAT C., EL KISSI N., DUFRESNE A.
Impact of cellulose nanocrystal aspect ratio on crystallization and reinforcement of poly(butylene adipate-co-terephthalate). Journal of Polymer Science: Part B Polymer Physics, 54(22), 2284-2297 (2016)
31. MARTINI T., CHUBILLEAU C., PONCELET O., RICAUD A., BLAYO A., MARTIN C., TARASOV K.
Spray and inkjet fabrication of Cu₂ZnSnS₄ thin films using nanoparticles derived from a continuous-flow microwave-assisted synthesis. Solar Energy Materials & Solar Cells, 144, 657-663 (2016)
32. MORELLI, C. L., BELGACEM N., BRANCIFORTI M.C., BRETAS R.E.S., CRISCI A., BRAS J.
Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals. Composites Part A: Applied Science and Manufacturing, 83, 80-88 (2016)
33. MORELLI C., BELGACEM N., BRANCIFORTI M.C., BROCHIER-SALON M.C., BRAS J., SUMAN BRETAS R.E.
Extrusion and characterization of nanocomposites of PBAT and cellulose nanocrystals modified by in situ polymerization. Macromolecular Materials Engineering, À PARAÎTRE
34. MORELLI C., BELGACEM N., BRETAS R.E.S., BRAS J.

Melt extruded nanocomposites of PBAT with phenylbutyl isocyanate modified cellulose nanocrystals. Journal of Applied Polymer Science, 133(34) (2016)

35. MOUSTAFA H., GUIZANI C., DUFRESNE A.

Sustainable biodegradable coffee grounds filler and its effect on the hydrophobicity, mechanical and thermal properties of biodegradable PBAT composites. Journal of Applied Polymer Science, 134(8) (2016)

36. NABILI A., FATTOUM A., BROCHIER-SALON M.C., BRAS J., ELALOUI E.

Structure and thermal stability of cellulose triacetate-I synthesized from date seeds cellulose. Industrial Crops and Products, À PARAÎTRE

37. NECHYPORCHUK O., BELGACEM N., BRAS J.

Production of cellulose nanofibrils: A review of recent advances. Industrial Crops and Products, 93, 2-25 (2016)

38. NOVO PEREIRA L., BRAS J., GARCIA-NUNEZ A., BELGACEM N., CURVELO DA SILVA A.A.

A study of the production of cellulose nanocrystals through subcritical water hydrolysis. Industrial Crops and Products, 93, 88-95 (2016)

39. OLIVEIRA DE CASTRO D., BRAS J., GANDINI A., BELGACEM N.

Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. Carbohydrate Polymers, 137, 1-8 (2016)

40. PERIYASAMI, K., SANTHALEMBI L., MORTHA G., AUROUSSEAU M., SUBRAMANIAN S.

Carrier-free co-immobilization of xylanase, cellulase and beta-1, 3 glucanase as combined cross-linked enzyme aggregates (Combi-CLEAs) for one-pot saccharification of sugarcane bagasse. RSC Advances, 39 (2016)

41. SAINI S., BELGACEM N., BROCHIER-SALON M.C., BRAS J.

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42. SAINI S., SILLARD C., BELGACEM N., BRAS J.

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

Study of the high throughput flexographic process applied to silicon solar cell metallization. Progress in photovoltaics: Research and Applications 24(2), 240-252 (2016)

44. TRIFOL J., PLACKETT D., SILLARD C., HASSAGER O., EGEDE DAUGAARD A., BRAS J., SZABO P.A.

A comparison of partially acetylated nanocellulose, nanocrystalline cellulose and nanoclay as fillers for high-performance polylactide nanocomposites. Journal of Applied Polymer Science, 133(14) (2016)

45. YOUSSEF A.M., EL-SAYED S.M., EL-SAYED H.S., SALAMA H.H., DUFRESNE A.
Enhancement of Egyptian soft white cheese shelf life using a novel chitosan/carboxymethyl cellulose/zinc oxide bionanocomposite film. Carbohydrate Polymers, 151, 9-19 (2016)

46. ZOLIN L., NAIR J.R., BENEVENTI D., BELLA F., DESTRO M., JAGDALE P., CANNAVARO I., TAGLIAFERRO A., CHAUSSY D., GEOBALDO F., GERBALDI A.
A simple route toward next-gen green energy storage concept by nanofibers-based self-supporting electrodes and a solid polymeric design. Carbon, 107, 811-822 (2016)

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