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LGP2 - Publications scientifiques dans des revues à comité de lecture avec Impact Factor (IF) - 2010

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- 1- ADUSUMALLI R.B., MOOK W.M., PASSAS R., SCHWALLER P., MICHLER J.
Nanoindentation of single pulp fibre cell walls. Journal of Materials Science, 2010, 45 (10), pp. 2558-2563
- 2- ALLIX J., BENEVENTI D., ZENO E., NORTIER P.
Flotation de-inking of 50 % ONP/50 % OMG recovered papers mixtures using non-ionic surfactant, soap, and surfactant/soap blends. Bioresources, 2010, 5 (4), pp. 2702-2719
- 3- ALLOIN F., D'APREA A., EL KISSI N., DUFRESNE A., BOSSARD F.
Nanocomposite polymer electrolyte based on whisker or microfibrils polyoxyethylene. Electrochimica Acta, 2010, 55 (18), pp. 5186-5194
- 4- ALMEIDA F., MARLIN N., BENEVENTI D., AUROUSSEAU M.

Recovered papers deinking and COD removal by ozone flotation. Journal of Pulp and Paper Science, 2010, 36 (1-2), p. 42-48

5- BENDAHOU A., KADDAMI H., DUFRESNE A.

Investigation on the effect of cellulosic nanoparticles' morphology on the properties of natural rubber based nanocomposites. European Polymer Journal, 2010, 46 (4), pp.609-620

6- BENEVENTI D., ZENO E., CARRE B., ALLIX J., NORTIER P., ANGELIER M.C.

Understanding the role of surface active substances in flotation deinking mills by coupling surfactant and ink balance with process simulation. TAPPI Journal, 2010, 9, pp. 31-39

7- BESSADOK A., BELGACEM M.N., DUFRESNE A., BRAS J.

Beneficial effect of compatibilization on the aging of cellulose reinforced biopolymers blends. Macromolecular Materials and Engineering, 2010, 295 (8), pp. 774-781

8- BOSSARD F., EL KISSI N., D'APREA A., ALLOIN F., SANCHEZ J.Y., DUFRESNE A.

Influence of dispersion procedure on rheological properties of aqueous solutions of high molecular weight PEO. Rheologica Acta, 2010, 49 (5), pp. 529-540

9- BRAS J., HASSAN M.L., BRUZZESE C., HASSAN E.A., EL-WAKIL N.A., DUFRESNE A.

Mechanical, barrier and biodegradability properties of bagasse cellulose whiskers reinforced natural rubber nanocomposites. Industrial Crops and Products, 2010, 32 (3), pp. 627-633

10- BRAS J., MENDEZ J.A., KROUIT M., LOPEZ J.P., PELACH M.A., BELGACEM N.

Process and recyclability analyses of innovative bio-composite for tray. Packaging Technology and Science, 2010, 23 (4), pp. 177-188

11- BROCHIER-SALON M.C., BELGACEM M.N.

Competition between hydrolysis and condensation reactions of trialkoxysilanes, as a function of the amount of water and the nature of the organic group. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 366, pp. 147-154

12- CHALENCON F., ORGEAS L., DUMONT P.J.J., FORAY G., CAVAILLE J.Y., MAIRE E., ROLLAND DU ROSCOAT S.

Lubricated compression and X-ray microtomography to analyse the rheology of a fibre-reinforced mortar. Rheologica Acta, 2010, 49 (3), pp. 221-235

13- CHIRAT C., LACHENAL D., DUFRESNE A.

Biorefineries in a kraft pulp mill: from bioethanol to cellulose nanocrystals. Cellulose Chemistry and Technology, 2010, 44 (1-3), pp. 59-64

14- CLEMENT S., GOUILLER A., OTTENIO P., NIVELON S., HUBER P., NORTIER P.

Speciation and supersaturation model in papermaking streams. Process Safety and Environmental Protection, 2010, 88 (1), pp. 67-73

15- CONSIDINE J.M., VAHEY D.W., GLEISNER R., RUDIE A., ROLLAND DU ROSCOAT S., BLOCH J.F.

Z-direction fiber orientation in paperboard. TAPPI Journal, 2010, 9 (10), pp. 28-32

16- CUNHA A.G., FREIRE C., SILVESTRE A., PASCOAL NETO C., GANDINI A., BELGACEM M.N., CHAUSSY D., BENEVENTI D.

Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. Journal of Colloid and Interface Science, 2010, 344 (2), pp. 588-595

17- DUFRESNE A., BELGACEM M.N.

Cellulose-reinforced composites: from micro- to nanoscale. Polimeros: Ciência e Tecnologia, 2010, 20 (1), pp. 1-10

18- DUFRESNE A.

Processing of polymer nanocomposites reinforced with polysaccharide nanocrystals. Molecules, 2010, 15, pp. 4111-4128

19- EICHHORN S.J., DUFRESNE A., ARANGUREN M. [et al.]

Review: current international research into cellulose nanofibres and nanocomposites. Journal of Materials Science, 2010, 45 (1), pp. 1-33

20- EL-WAKIL N.A., FAHMY R.E., ABOU-ZEID A., DUFRESNE A., EL-SHERBINY S.

Liquid crystalline behaviour of hydroxypropyl cellulose esterified with 4-alkoxybenzoic acid. Bioresources, 2010, 5 (3), pp. 1834-1845

21- HAMZEH Y., MORTHA G.

Simulation of lignin degradation during chlorine dioxide delignification stage. Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, 2010, 47 (1), pp. 39-44

22- IBRAHIM M.M., DUFRESNE A., EL-ZAWAWY W.K., AGBLEVOR F.A.

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Chemical composition and pulping of date palm rachis and Posidonia oceanica. A comparison with other wood and non-wood fibre sources. Bioresource Technology, 2010, 101 (2), pp. 775-780

25- KOVILY, CEINDREALL, DECAIN, M., MATTILA, K., BLOCH, E., KATAIA, M.

- 25- KOIVO V., GEINDREAU C., DECAIN M., MATHILA K., BLOCH J.F., KATAJA M.
Transport properties of heterogeneous materials combining computerized X-ray microtomography and direct numerical simulations. International Journal of Computational Fluid Dynamics, 2010, 23 (10), pp. 713-721
- 26- KROUIT M., BELGACEM M.N., BRAS J.
Chemical versus solvent extraction treatment: comparison and influence on polyester based bio-composite mechanical properties. Composites part A: Applied Science and Manufacturing, 2010, 41 (6), pp. 703-708
- 27- LE CORRE D., BRAS J., DUFRESNE A.
Starch nanoparticles: a review. Biomacromolecules 2010, 11 (5), pp. 1139-1153
- 28- LETERRIER Y., PINYOL A., ROUGIER L., WALLER J.H., MANSON J.A.E., DUMONT P., ANDERSONS J., MODNIKS J., CAMPO M., SAUER P., SCHWENZEL J.
Influences of roll-to-roll process and polymer substrate anisotropies on the tensile failure of thin oxide films. Thin Solid Films, 2010, 518 (23), pp. 6984-6992
- 29- LETERRIER Y., MOTTET A., BOUQUET N., GILLIERON D., DUMONT P., PINYOL A., LALANDE L., WALLER J.H., MANSON J.A.E.
Mechanical integrity of thin inorganic coatings on polymer substrates under quasi-static, thermal and fatigue loadings. Thin Solid Films, 2010, 519 (5), pp. 1729-1737
- 30- LY E.H.B., BELGACEM M.N., BRAS J., BROCHIER-SALON M.C.
Grafting of cellulose by fluorine-bearing silane coupling agents. Materials Science and Engineering C: Materials for Biological Applications, 2010, 30 (3), pp. 343-347
- 31- LY E.H.B., BRAS J., SADOCCO P., BELGACEM M.N., DUFRESNE A., THIELEMANS W.
Surface functionalization of cellulose by grafting oligoether chains. Materials Chemistry and Physics, 2010, 120 (2-3), pp. 438-445
- 32- MARTINEZ P., RUEFF M., GUERIN D., MORIN V.
Experimental and theoretical study of the manifold flow in a curtain coater. TAPPI Journal, 2010, 9 (11), pp. 15-21
- 33- PAQUET O., KROUIT M., BRAS J., THIELEMANS W., BELGACEM M.N.
Surface modification of cellulose by PCL grafts. Acta Materialia, 2010, 58 (3), pp. 792-801
- 34- PASQUINI D., TEIXEIRA E.M., CURVELO A.A.S., BELGACEM M.N., DUFRESNE A.
Extraction of cellulose whiskers from cassava bagasse and their applications as reinforcing agent in natural rubber. Industrial Crops and Products, 2010, 32 (3), pp. 486-490
- 35- PRAS O., CHAUSSY D., STEPHAN O., RHARBI Y., PIETTE P., BENEVENTI D.
Photoluminescence of 2,7-poly(9,9-dialkylfluorene-co-fluorenone) nanoparticles: effect of particle size and inert polymer addition. Langmuir, 2010, 26 (18), pp. 14437-14442

36- SAIDI A., MARTIN C., MAGNIN A.

Influence of yield stress on the fluid droplet impact control. Journal of Non-Newtonian Fluid Mechanics, 2010, 165 (11-12), pp. 596-606

37- SASSO C., ZENO E., PETIT-CONIL M., CHAUSSY D., BELGACEM M.N., TAPIN-LINGUA S., BENEVENTI D.

Highly conducting polypyrrole/cellulose nanocomposite films with enhanced mechanical properties. Macromolecular Material and Engineering, 2010, 295 (10), pp. 934-941

38- SASSO C., BENEVENTI D., ZENO E., CHAUSSY D., PETIT-CONIL M., NORTIER P., BELGACEM M.N.

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39- SILVA M.C., TAKAHASHI J.A., CHAUSSY D., BELGACEM M.N., SILVA G.G.

Composite of polyurethane rigid foam and cellulose fiber residue. Journal of Applied Polymer Science, 2010, 117 (6), pp. 3665-3672

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Cellulosic bionanocomposites: a review of preparation, properties and applications. Polymers, 2010, 2 (4), pp.728-765

42- SIQUEIRA G., BRAS J., DUFRESNE A.

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43- SIQUEIRA G., BRAS J., DUFRESNE A.

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Morphological investigation of nanoparticles obtained from enzymatic and acid hydrolysis of sisal fibers. Cellulose, 2010, 17 (6), pp. 1147-1158

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Effect of calendaring on paper surface properties. Applied Surface Science, 2010, 256 (12), pp. 6923-6927

46- VIGUIE J., DUMONT P., DESLOGES I., MAURET E.

Some experimental aspects of the compression behaviour of boxes made up of g-flute corrugated boards. Packaging Technology and Science, 2010, 23, pp. 69-89

47- VINCENT R., RUEFF M., VOILLOT C.

Prediction of handsheet tensile strength by computational simulation of structure. TAPPI Journal, 2010, 9 (1), pp. 15-19

48- ZENO E., HUBER P., ROUSSET X., FABRY B., BENEVENTI D.

Enhancement of the flotation deinking selectivity by natural polymeric dispersants. Industrial & Engineering Chemistry Research, 2010, 49 (19), pp. 9322-9329

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