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## LGP2 - Publications scientifiques dans des revues à comité de lecture avec Impact Factor (IF) - 2013

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1- BARDET R., BELGACEM M.N., BRAS J.

*Different strategies for obtaining high opacity films of MFC with TiO2 pigments.* Cellulose, 2013, 20 (6), pp. 3025-3037

2- BEN FADHEL B., JOLY J.P., MAURET E., CHAPLEUR Y.

*Effect of new cationic-polymer/CMC bilayer-treatment on paper wettability.* Nordic Pulp and Paper Research Science, 2013, 28 (1), pp. 15-21

3- BITINIS N., VERDEJO R., BRAS J., FORTUNATI E., KENNY J.M., TORRE L., LOPEZ-MANCHADA M.A.

*Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology.* Carbohydrate Polymers, 2013, 96 (2), pp. 611-620

- 4- BITINIS N., VERDEJO R., BRAS J., FORTUNATI E., KENNY J.M., TORRE L., LOPEZ-MANCHADA M.A.  
*Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part II. Properties evaluation.* Carbohydrate Polymers, 2013, 96 (2), pp. 621-627
- 5- CHAN C.H., CHIA C.H., ZAKARIA S., AHMAD I., DUFRESNE A.  
*Production and characterization of cellulose and nanocrystalline cellulose from kenaf core wood.* BioResources, 2013, 8 (1), pp.785-794
- 6- CHIRAT C.  
*Les bioraffineries lignocellulosiques : une opportunité pour l'industrie chimique.* L'Actualité Chimique, 2013, (378-379), pp. 235-236
- 7- CHIRAT C., BOIRON L., LACHENAL D.  
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- 8- CORROYER E., BROCHIER-SALON M.C., CHAUSSY D., WERY S., BELGACEM N.  
*Characterization of commercial polyvinylbutyrals.* International Journal of Polymer Analysis and Characterization, 2013, 18, pp.1-12
- 9- COSTA A.P., BELGACEM N., SANTOS SILVA M.J., THIELEMANS W., GAIOLAS C.  
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- 10- CUSOLA O., TABARY N., BELGACEM N., BRAS J.  
*Cyclodextrin functionalization of several cellulosic substrates for prolonged release of antibacterial agents.* Journal of Applied Polymer Science, 2013, 129, pp. 604-613
- 11- DAS S., LACHENAL D., MARLIN N.  
*Production of pure cellulose from kraft pulp by a totally chlorine-free process using catalyzed hydrogen peroxide.* Industrial Crops and Products, 2013, 49, pp. 844-850
- 12- DE CAMPOS A., CORREA A.C., CANELLA D., TEIXEIRA E.M., MARCONCINI J.M., DUFRESNE A., MATTOSO L.H.C., CASSLAND P., SANADI A.R.  
*Obtaining nanofibers from curauà and sugarcane bagasse fibers using enzymatic hydrolysis followed by sonication.* Cellulose, 2013, 20 (3), pp.1491-1500
- 13- DENG T., NORTIER P., EK M., DU S.  
*Limestone dissolution in converter slag at 1873K.* Metallurgical and Materials Transactions. B, Process Metallurgy and Materials Processing Science, 2013, 44 (1), pp. 98-105
- 14- DUFOUR B., BAUER W., BLOCH J.F.  
*Evaluation of cut quality of woodfree coated papers.* TAPPI Journal, 2013, 12 (9), pp. 9-15

15- DUFRESNE A.

*Nanocellulose - A new ageless bionanomaterial*. Materials Today, 2013, 16 (6), pp. 220-227

16- DUFRESNE A., BELGACEM N.

*Cellulose-reinforced composites: from micro- to nanoscale*. Polimeros: Ciencia e Tecnologia, 2013, 23 (3), pp. 277-286

17- DUVAL A., MOLINA-BOISSEAU S., CHIRAT C.

*Comparison of kraft lignin and liginosulfonates addition to wheat gluten-based materials: mechanical and thermal properties*. Industrial Crops and Products, 2013, 49, pp. 66-74

18- ESPINO-PEREZ E., BRAS J., DUCRUET V., GUINAULT A., DUFRESNE A., DOMENEK S.

*Influence of chemical surface modification of cellulose nanowhiskers on thermal, mechanical, and barrier properties of poly(lactide) based bionanocomposites*. European Polymer Journal, 2013, 49 (10), pp.3144-3154

19- FADDOUL R., REVERDY-BRUAS N., BLAYO A.

*Printing force effect on conductive silver tracks: geometrical, surface and electrical properties*. Journal of Materials Engineering and Performance, 2013, 22 (2), pp.640-649

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*Inkjet printing of silver nano-suspensions on ceramic substrates. Sintering temperature effect on electrical properties*. Microelectronic Engineering, 2013, 105, pp. 31-39

21- FERREIRA P.J.T., GAMELAS J.A.F., CARVALHO M.G.V.S., DUARTE G.V., CANHOTO J.M.P.L., PASSAS R.

*Evaluation of the papermaking potential of Ailanthus altissima*. Industrial Crops and Products, 2013, 42, pp. 538-542

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*Water transport properties of bio-nanocomposites reinforced by Luffa cylindrica cellulose nanocrystals*. Journal of Membrane Science, 2013, 427 (1), pp.218-229

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24- GUIRAUD O., DUMONT P., ORGEAS L.

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25- HUBER P., NIVELON S., OTTENIO P., NORTIER P.

*Coupling a chemical reaction engine with a mass flow balance process simulation for scaling management in papermaking process waters*. Industrial & Engineering Chemistry Research, 2013, 52, pp. 421-429

26- JABBOUR L., DESTRO M., CHAUSSY D., GERBALDI C., PENAZZI N., BODOARDO S., BENEVENTI D.

*Flexible cellulose/LiFePO<sub>4</sub> cathodes: towards eco-friendly all-paper Li-ion batteries.* Cellulose, 2013, 20 (1), pp.571-582

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*Cellulose-based Li-ion batteries: a review.* Cellulose, 2013, 20 (4), pp. 1523-1545

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*Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries.* Composites Science and Technology, 2013, 87, pp. 232-239

29- LE CORRE D., HOHENTHAL C., DUFRESNE A., BRAS J.

*Comparative sustainability assessment of starch nanocrystals.* Journal of Polymers and the Environment, 2013, 21 (1), pp.71-80

30- LIN N., DUFRESNE A.

*Supramolecular hydrogels from in situ host-guest inclusion between chemically modified cellulose nanocrystals and cyclodextrin.* Biomacromolecules, 2013, 14 (3), pp.871-880

31- LIN N., DUFRESNE A.

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2- LINSTROM D., NORTIER P., GLASER B., DU S.

*Study of the possibility of using ZnO for hot metal desulphurization.* Steel Research International, 2013, 84 (5), pp. 419-425

33- MARLIN N., ALMEIDA F., AUROUSSEAU M., HERISSON A., BENEVENTI D.

*Innovative ozone/oxygen reactive flotation for paper deinking.* Ozone: Science & Engineering, 2013, 35 (5), pp. 381-389

34- MISHRA S.P., LACHENAL D., CHIRAT C.

*The effect of introducing ozone in elemental chlorine free bleaching of eucalyptus kraft pulp.* TAPPI Journal, 2013, 12 (11), pp. 39-45

35- MISSOUM K., BELGACEM N., BRAS J.

*Nanofibrillated cellulose surface modification: a review.* Materials, 2013, 6, pp. 1745-1766 (2013)

36- MISSOUM K., MARTOIA F., BELGACEM N., BRAS J.

*Effect of chemically modified nanofibrillated cellulose addition on the properties of fiber-*

*based material*. Industrial Crops and Products, 2013, 48, pp. 98-105

37- PICOT J.B., RUEFF M., MORTHA G.

*Insights into the black liquor falling film evaporation. A predictive model of heat and mass transfer*. Drying Technology, 2013, 31 (12), pp. 1415-1429

38- POUYET F., LACHENAL D., DAS S., CHIRAT C.

*Minimizing viscosity loss during totally chlorine free bleaching of hardwood kraft pulps*. Bioresources, 2013, 8 (1), pp. 238-249

39- POUYET F., LACHENAL D., CHIRAT C.

*On the origin of cellulose depolymerisation during ozone treatment of hardwood kraft pulp*. BioResources, 2013, 8 (4), pp. 5289-5298

40- PRAS O., BENEVENTI D., CHAUSSY D., PIETTE P., TAPIN-LINGUA S.

*Use of microfibrillated cellulose and dendritic copper for the elaboration of conductive films from water-and-ethanol-based dispersions*. Journal of Materials Science, 2013, 48 (20), pp. 6911-6920

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*Biorefinery in a pulp mill: simultaneous production of cellulosic fibres from Eucalyptus globulus by soda/anthraquinone cooking and surface-active agents*. Holzforschung, 2013, 67 (5), pp. 481-488

42- SETTE D., POULAIN C., BLAYO A., MERCIER D.

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45- SIQUEIRA E., NAOUI W., MARLIN N., SCHOTT S., MAURET E.

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49- ZAINUDDIN S.Y.Z., AHMAD I., KARGARZADEH H., ABDULLAH I., DUFRESNE A.

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# Recherche

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