

PUBLICATIONS CARMEN M. TIBIRNA

Chapitres de livre

1. Popescu, C.M., Totolin, M.I., **Tibirna, C.M.**, Popescu, M.C., Ander, P. and Vasile, C., Structural and Morphological Characterization of Unmodified and Grafted Unbleached and Bleached Softwood Kraft Pulp Fibres, in *Fine Structure of Papermaking Fibres, COST Action E 54 "Characterisation of the fine structure and properties of papermaking fibres using new technologies"*, Eds: Ander P., Bauer W., Heinemann S., Kallio P., Passas R. and Treimanis A., Swedish University of Agricultural Sciences, Uppsala, Sweden, **2011**, Chapter 3, pp.253-266.
2. Vasile, C., Totolin, M. and **Tibirna, C.M.**, Grafting of Some Bio-fibres With Carboxylic Acids Under Cold Plasma Conditions, in *Advanced Biologically Active Polyfunctional Compounds and Composites: Health, Cultural Heritage and Environmental Protection*, Ed. N.Lekishvili, G.E.Zaikov and B.Howell, Nova Science Publishers, New York, **2010**, Chapter 18, pp.209-242.
3. Vasile, C., Totolin, M. and **Tibirna, C.M.**, Grafting of Some Bio-fibres With Carboxylic Acids Under Cold Plasma Conditions, in *Chemistry and Biochemistry: From Pure to Applied Science, New Horizons - Volume 3*, Ed. E.M. Pearce and G.E.Zaikov, Nova Science Publishers, New York, **2009**, pp.9-41.

Revues avec comité de lecture

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1. Diouf, P.N., **Tibirna, C.M.**, Garcia-Pérez M-E., Dubé, P., Royer, M. and Stevanovic T., Structural Elucidation of Condensed Tannin Isolated From *Picea mariana* Bark, *Eur.Polym.J.*, **2012**, soumis.

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2. Vasile, C., Baican, M.C., **Tibirna, C.M.**, Tuchilus, C., Debarnot, D., Pâslaru, E. and Poncin-Epaillard, F., Microwave Plasma Activation of Polyvinylidene Fluoride Surface for Protein Immobilization, *J.of Physics D: Applied Physics*, **2011**, in press.
3. Popescu, C.M., **Tibirna, C.M.**, Manoliu, A., Gradinariu, P. and Vasile, C., Microscopic Study of Lime Wood Decayed by *Chaetomium Globosum*, *Cellulose Chem. Technol.*, **2011**, 45 (9-10), 565-569 .
4. Popescu, C.M., **Tibirna, C.M.** and Vasile, C., Thermogravimetric Analysis of Photodegraded Acrylic Coated Lime Wood, *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 87(4), 779-785.
5. Popescu, C.M., Totolin,M., **Tibirna, C.M.**, Sdrobis, A., Stevanovic, T. and Vasile, C., Grafting of Softwood Kraft Pulps Fibers with Fatty Acids Under Cold Plasma Conditions, *International Journal of Biological Macromolecules*, **2011**, 48(2), 326-335.
6. Popescu, C.M., Spiridon, I., **Tibirna, C.M.** and Vasile, C., A thermogravimetric study of structural changes of limewood (*Tilia cordata* Mill.) induced by exposure to simulated accelerated UV/Vis-light, *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 217(1), 207-212.

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7. Popescu, C.M., Larsson, T., **Tibirna, C.M.** and Vasile, C., Characterization of Fungal Degraded Lime Wood by XRD and CP/MAS ¹³C-NMR Spectroscopy, *Applied Spectroscopy*, **2010**, 64(9), 1054-1060.

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8. Popescu, C. M., **Tibirna, C.M.**, and Vasile C., XPS Characterization of Natural Aged Wood, *Applied Surface Science*, **2009**, 256, 1355-1360.

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9. Popescu, C. M., **Tibirna, C.M.**, Raschip, I.E., Popescu, M.C., Ander, P. and Vasile C., Bulk and Surface Characterization of Unbleached and Bleached Softwood Kraft Pulp Fibers, *Cellulose Chemistry and Technology*, **2008**, 42(9-10), 525-547.
10. Totolin, M., Vasile, C., **Tibirna, C.M.** and Popescu, M. C., Grafting of *Spanish Broom (Spartium Junceum)* Fibres with Fatty Acids Under Cold Plasma Conditions, *Cellulose Chemistry and Technology*, **2008**, 42(7-8), 317-333.
11. Vasile, C., Totolin, M. and **Tibirna, C.M.**, Grafting of Some Bio-Fibres With Acids Under Cold Plasma Conditions, *J. of Balkan Tribological Association*, **2008**, 14(1), 107-137.
12. **Tibirna, C.M.** and Diouf, P., Mixtures of Tertiary Amine Functionalized Azo-Containing Mesogens with Acid-Functionalized Polymers, *Polymer*, **2008**, 49(1), 241-253.

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13. Manet, S., **Tibirna, C.M.**, Boivin, J., Delabroye, C. and Brisson, J., Single Crystals of Chain-Folded Copolythephtalamides, *Macromolecules*, **2006**, 39(3), 1093-1101.

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14. **Tibirna, C.M.** and Bazuin, C.G., Liquid Crystalline Complexes of an Azo-Containing Surfactomesogen with Oppositely Charged Polyelectrolytes, *Journal of Polymer Science, Part B: Polymer Physics*, 43 (The American Physical Society Division for Polymer Physics Special Issue), **2005**, 3421-3431.

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15. Zhang, Y., Bazuin, C.G., **Tibirna, C.M.** and Lu, Q., A Simple Method for the Incorporation of Low Molecular Weight Dyes in Ultrathin Films, *Chinese Journal of Polymer Science*, **2003**, 21, 631-637.

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16. Chiriac, C.I., Onciu, M., **Tibirna, C.M.**, Tanase, F., Truscan, I and Ropot, R., Synthesis of Aromatic Amides by a Direct Condensation Reaction Using Phosphorus Acid-Iodine as Reagent, *Revue Roumaine de Chimie*, **1998**, 43(1), 31-33.

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Communications scientifiques à des congrès et conférences

1. Vasile, C., **Tibirna, C.M.**, Baican, M., Poncin-Eppaillard, F., Debarnot, D., XPS and AFM Studies on the Proteins Immobilization on the PVDF Surface, *9th Global Workshop of the Cost Action E54: Understanding polymer (bio)functionalisation at the nanoscale*, Analipsi, Greece, **2010**, 2 – 3 septembre
2. Popescu, C.M., **Tibirna, C.M.**, Stevanovic, T., Ander, P., Arndt, T. and Vasile, C., Bulk Characterization of Refined and Unrefined Softwood Kraft Pulp Fibres, *9th Global Workshop of the Cost Action E54: Characterizations of the fine structure and Properties of Papermaking Fibres using New Technologies*, Coimbra, Portugal, **2010**, 10 – 12 mai
3. Popescu, C.M., **Tibirna, C.M.** and Vasile, C., Morphology and Properties of Lime Wood Biodegraded by Soft Rot Fungi, *Lignobiotech One Symposium -1st Symposium on biotechnology Applied to Lignocellulose*, Reims, France, **2010**, 28 mars - 1 avril
4. Vasile, C., Baican, M., Debarnot, D., Poncin-Epaillard, F., **Tibirna, C.M.** and Profire, L., Elaboration of Polymer Surfaces Responsive to the External Stimuli I. CO₂ Microwaves plasma treatment of the Polyvinylidene Fluoride Surface, *5th European Symposium on Biopolymers. Design, Production & Applications of Biopolymers in Tissue Engineering, Regenerative Medicine, Drug Delivery, Biotechnology and Nanomedicine*, Madeira, Portugal, **2009**, 18-20 novembre
5. Totolin, M., Sdrobis, A.M., Popescu, M.C., **Tibirna, C.M.**, Stevanovic, T. and Vasile, C., Cold Plasma Grafting of the Refined and Unrefined Softwood Kraft Pulp Fibres. II. Surface Characterization, *6th International Conference on Textile and Polymer Biotechnology, Future developments and trends, New technologies – New developments*, Ghent, Belgique, **2009**, 23-25 septembre

6. Sdrobis, A.M., Totolin, M., Popescu, M.C., **Tibirna, C.M.**, Stevanovic, T. and Vasile, C., Cold Plasma Grafting of the Refined and Unrefined Softwood Kraft Pulp Fibres. I. Bulk Characterization, *6th International Conference on Textile and Polymer Biotechnology, Future developments and trends, New technologies – New developments*, Ghent, Belgique, **2009**, 23-25 septembre
7. Totolin, M., Sdrobis, A.M., **Tibirna, C.M.**, Popescu, C.M and Vasile, C., Dependence of Physical Activation/Modification of Unbleached and Bleached Kraft Pulp Fibers on Their Morphology, *European Cooperation in the Field of Scientific and Technical Research – New methods on Paper Fibre Characterization*, 7th E54 Meeting, Tampere, Finland, **2009**, 4-6 mai
8. Popescu, C.M., **Tibirna, C.M.**, Popescu, M.C., Ander, P. and Vasile, C., Surface Characterization of Unbleached and Bleached Pulps From Mixed Wood, *5th Symposium of the Faculty of Chemical Engineering - Inovative Materials and Process*, Iasi, Roumanie, **2008**, 19-21 novembre
9. Popescu, C.M., Vasile, C. and **Tibirna, C.M.**, Characterization of Natural Aged Wood from Painting Supports by Spectroscopical Methods in the View of Diagnosis and Conservation, *9th International Conference on ART 2008 – Non-destructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage*, Jérusalem, Israël, **2008**, 25-30 mai
10. Totolin M., Vasile C., **Tibirna C.M.** and Cazacu G., ATR-FTIR, XRD and SEM investigations on grafted *Spanich broom (Spartium junceum)* fibres with fatty acids under cold plasma conditions, *Final Seminar of COST Action E41 – Towards Understanding Wood, Fibre and Paper-deeper knowledge through modern analytical tools*, Turku/Abo, Finland, **2008**, 19-21 mai
11. Raschip, E.I., Popescu, M.C., **Tibirna, C.M.** and Vasile, C., Surface and Bulk Characterization of E54 Pulp Fibres Samples, *European Cooperation in the Field of*

Scientific and Technical Research E54 Meeting – Characterization of the fine structure and properties of papermaking fibres using new technologies, Graz, Autriche, **2008**, 10 avril

12. **Tibirna, C.M.**, Popescu, C.M., Cazacu, G. and Vasile, C., Surface and Bulk Characterization of COST E54 Samples by ATR, FTIR and XRD, *European Cooperation in the Field of Scientific and Technical Research E54 Meeting*, Bruxelles, Belgique, **2007**, 23-25 octobre
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14. Desbiens, J., Ritcey, A.M., and **Tibirna, C.M.**, Synthesis and Characterization of Core-Shell Nanoparticles doped with Luminescent Europium and Erbium Complexes, *33rd Canadian High Polymer Forum*, Gananoque, Ontario, Canada, **2007**, 29 août
15. Brisson, J., Manet, S. and **Tibirna, C.M.**, Solution Crystallization of Hinged Copolymers Based on Polyterephthalamides, *World Polymer Congress - Macro 2006, 41th International Symposium on Macromolecules*, Rio de Janeiro, Brésil, **2006**, 18 juillet
16. Ritcey, A.M., **Tibirna, C.M.** and Lemyre, J.L., Luminescent Nanoparticles for Dispersion in Organic Media, *89th Canadian Chemistry Conference*, Halifax, Canada, **2006**, 29 mai
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18. Bazuin, C.G., **Tibirna, C.M.** and Zhang, Q., Mesophase Behavior of Polyion-Complexed Azobenzene Chromophores in the Bulk, *American Physical Society March Meeting*, Los Angeles, U.S.A., **2005**, 22 mars
19. Brisson, J., Manet, S., Boivin, J., **Tibirna, C.M.** and Delabroye, C., Single Crystals of Chain-Folded Copolyterphtalamides, *40th IUPAC International Symposium on Macromolecules*, Paris, France, **2004**, 6 juillet
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21. **Tibirna, C.M.** and Bazuin, C.G., Thermotropic Liquid Crystalline Complexes of Azo-Containing Mesogenic Surfactants and Polyelectrolytes, *Gordon Research Conference on Liquid Crystals*, Colby-Sawyer College, New London, NH, U.S.A., **2003**, 15-20 juin
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26. **Tibirna, C.M.**, Bazuin, C.G. and Ritcey, A.M., Polymères cristallins liquides supramoléculaires d'intérêt pour l'optique non linéaire, *ACFAS*, Montréal, Canada, **2000**, 18 mai

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