

# LISTA REZULTATELOR ȘTIINȚIFICE

CS II Dr. Maria-Cristina Popescu

## TEZA DE DOCTORAT

1. Contributii la caracterizarea optica a unor sisteme polimere multicomponente, conducator CSI Dr. C. Vasile (2001-2009)

## CARTI CA AUTOR

1. **M.-C. Popescu**, C. Vasile, Elemente de optică și spectroscopie utilizate în caracterizarea sistemelor polimere multicomponente; *Editura Tehnopress, Iasi, ISBN 978-973-702-710-8, 284 pagini, 2009;*

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2. C.-M. Popescu, **M.-C. Popescu**, Book of Abstracts of International Conference Advances in cellulose processing and applications-research goes to industry. Join Working Groups & Management Committee meeting, *Ed. Tehnopress, Iasi, ISBN 978-606-687-186-0, 80 pagini, 2015;*

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1. **M.-C. Popescu**, C. Vasile, Gh. Singurel, 2D IR correlation spectroscopy in polymer studies, in *New Trends in Natural and Synthetic Polymer Science*, Ed. G.E. Zaikov, *Nova Science Publishers, ISBN:978-1-60021-547-6, 71-111, 2007;*
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natural fibres, in *Advanced High Strength Natural Fibre Composites in Construction*, Eds: Mizi Fan Feng Fu, *Elsevier, ISBN: 9780081004302,23-58, 2017*;

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## PROIECTE INTERNAZIONALE

1. Proiect COFUND-M-ERA.NET II-COMPIO nr. 73 din 01/07/2017 - Compozite pe baza de nano-argila, nanoceluloza și MIP pentru formulări microbiene prietenoase mediului - Responsabil: **M.-C. Popescu**, colectiv: L. Marin, D. Timpu, C.-M. Popescu, B. I. Dogaru, S. Vlad

## PROIECTE NAȚIONALE

1. *Studiul spectrofotometric al unor substanțe anizotrope și optic active*, tema nr. 40, (Beneficiar CNCSIS)

director prof. Dr. M. Delibaş, colectiv: **M. C. Popescu**, S. Gurlui, M. Strat 2000

2. *Polimeri în stare solidă și în soluție. Compatibilitate*, program prioritar al Academiei Române – 2001; (membru)
3. Contract *CEEX 10/2005* - Arhitecturi inovative degradabile, biocompatibile și bioactive pe bază de polimeri naturali și sintetici, Etapa I, Noi biomateriale pe bază de celuloză, lignină, algiți, xantan și chitosan. Studiu bibliografic, responsabil proiect: C. Vasile; colectiv: G. Cazacu, I. E. Raschip, **M.-C. Popescu**, C. N. Duncianu
4. *RELANSIN C2108/2004-2006 BIOFIL* - Noi filme biodegradabile pe bază de resurse regenerabile, cu aplicații în agricultură, ambalaje și alte produse cu durată determinată de viață, director proiect C. Vasile, colectiv: I. Spiridon, D. Ciolacu, **M. C. Popescu**,
5. *RELANSIN 1993/2004-2006* – Compounduri polimerice cu proprietăți de utilizare performante pentru aplicații special, responsabil: C. Vasile, colectiv: A. Stoleriu, **M. C. Popescu**, H. Darie
6. *CALIST*- Realizarea de biopolimeri matriceali naturali multifuncționali pentru biocompatibilizarea polimerilor sintetici destinați utilizării medicale, responsabil proiect: C. Vasile, colectiv: D. Macocinschi, D. Ciolacu, I. E. Raschip, F. Crivoi, **M. C. Popescu**, R. Dumitriu, Gh. Smera
7. Contract *PC (NOSITEC) 10/2007* – Noi sisteme terapeutice donoare de oxid de azot cu eliberare controlată, C. Vasile, I.E. Raschip, A. M. Oprea, R.P. Dumitriu, C. Duncianu, **M. C. Popescu**.
8. Proiect CNCSIS-UEFISCSU, PN II-RU PD 460/2010-2012 Studiul comportării la îmbătrânire a unor noi materiale lemnoase obținute prin metode prietenoase mediului, Director Proiect **M. C. Popescu**
9. Proiect PN-II-RU-TE-2014-4-1828 – UEFISCDI/2015-2017, Bio nanomateriale antimicrobiene inovatoare prietenoase mediului pentru ambalaje în industria alimentară și medicină, Director proiect: **M.-C. Popescu**, colectiv: L. Marin, D. Timpu, C.-M. Popescu, B. I. Dogaru, S. Vlad

## **PROIECTE COST DE COOPERARE ȘTIINȚIFICĂ ȘI TEHNOLOGICĂ ȘI DE COORDONARE A ACTIVITĂȚII DE CERCETARE**

1. *E41* - Analytical Tools With Applications For Wood and Pulping Chemistry, C. Vasile membru în comitetul de management, C.-M. Popescu, **M.-C. Popescu**, G. Cazacu, Gh. Singurel, membrii în rețeaua națională, 2004–2007
2. *P12* - Structuring of Polymers, C. Vasile membru în comitetul de management, **M.-C. Popescu**, M. C. Pascu, L. E. Niță, membrii în rețeaua națională, 2004–2007
3. *E54* - Characterization of the Structure and Properties of Papermaking Fibres Using New Technologies C. Vasile membru în comitetul de management, C.-M. Popescu, **M.-C. Popescu**, G. Cazacu, D. Ciolacu, membrii în rețeaua națională, 2007–2010
4. *FP0602* - Biotechnology for lignocelluloses biorefineries, comitet management: C. Vasile, V. Popa, **M.**

**C. Popescu 2008-2011**

5. *FP0901* - Analytical techniques for Biorefineries, comitet management: C. Vasile, V. Popa, **M. C. Popescu**, 2010-2013
6. *TD0802* - Dendrimers in Biomedical Applications, comitet management: R. Piticescu, G. Negroiu, **M. C. Popescu**, 2009-2012
7. *FP0904* - Thermo-Hydro-Mechanical Wood Behaviour and Processing, comitet management: C. Vasile, P. Nechita, **M. C. Popescu**, 2010-2013
8. *FP0802* - Experimental and Computational Micro-Characterization Techniques in Wood Mechanics, comitet management: **M.-C. Popescu**, G. Lisa, C.-M. Popescu, 2009-2012
9. *FP1006* - Bringing new functions to wood through surface modification, comitet management: **M.-C. Popescu**, G. Lisa, C.-M. Popescu 2011-2015
10. *FP1105* - Understanding wood cell wall structure, biopolymer interaction and composition: implications for current products and new material innovation, WG member 2012-2016
11. *FP1205* - Innovative applications of regenerated wood cellulose fibres, comitet management: C.-M. Popescu, G. Tantar, **M.-C. Popescu** 2013-2017
12. *FP 1302* - Wood musick, comitet management: C.-M. Popescu, F. Iordan, **M.-C. Popescu** 2013-2017
13. *FP1303* - Performance of bio-based building materials, comitet management: C.-M. Popescu, G. Lisa, **M.-C. Popescu** 2013-2017
14. *FP1404* - Fire Safe Use of Bio-Based Building Products, comitet management: C.-M. Popescu, M. Pruna, **M.-C. Popescu**, 2014-2018
15. *FP1407* - Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife), comitet management: C.-M. Popescu, M. Pruna, **M.-C. Popescu**, 2014-2018
16. *CM1402* - From molecules to crystals - how do organic molecules form crystals? (Crystallize), comitet management: **M.-C. Popescu**, M. Goanta, C.-M. Popescu, 2014-2018

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