

## Table of Contents

Volume 5 Number 2

April 2014

### An Overview of the Synthesis and Gene Transfer Properties of Triblock Copolymers Poly(2-Methyl-2-Oxazoline-b-Tetrahydrofuran-b-2-Methyl-2-Oxazoline)

- B. Rasolonjatovo, B. Pitard, P. Guégan, H. Cheradame.....53

### Mutual competitive Absorption of Water and Essential Oils Molecules by Porose Ligno-Cellulosic Materials

- B. Češek, M. Milichovský, J. Gojný.....66

### Microbial Biofilms Formed in a Laboratory-Scale Anammox Bioreactor with Flexible Brush Carrier

- E. A. Botchkova, Y. V. Litti, B. B. Kuznetsov, A. N. Nozhevnikova.....76

### A Biomimetic Gellan-Based Hydrogel as a Physicochemical Biofilm Model

- J. Hellriegel, S. Günther, I. Kampen, A. B. Albero, A. Kwade, M. Böl, R. Krull.....83

### Controlling Osteogenic Differentiation through Nanoporous Alumina

- S. Pujari-Palmer, T. Lind, W. Xia, L. P. Tang, M. K. Ott.....98

### The Lipid Bilayer of Biological Vesicles: a Liquid-Crystalline Material as Nanovehicles of Information

- A. Alfsen, I. Tatischeff.....105

### Influence of Alternating and Static Magnetic Fields on Drug Release from Hybrid Hydrogels Containing Magnetic Nanoparticles

- M. Uva, D. Pasqui, L. Mencuccini, S. Fedi, R. Barbucci.....116

### Properties and Structure of Microcrystalline Chitosan and Hydroxyapatite Composites

- L. Pighinelli, M. Kucharska.....128