

Micro-/nano-structured silicone materials and organic-inorganic hybrids

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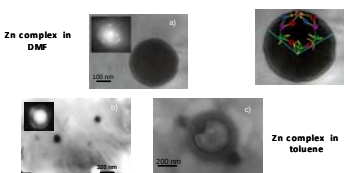
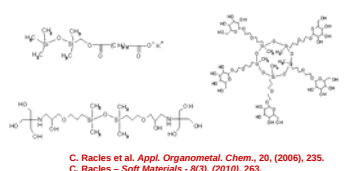
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www.imt.ro/NANOPROSPECT

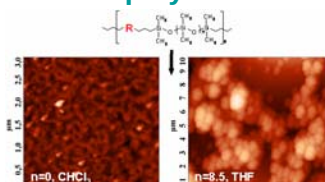
The main group's research activities are focused on the development of new siloxane-based materials of interest for nanoscience (amphiphile compounds, self-assembling copolymers, networks, composites and metallosiloxanes).

Amphiphile compounds

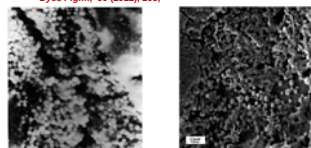


C. Racles, M. Cazacu, A. Ioanid, A. Vlad, *Macromol. Rapid Commun.* 29 (2008), 1527.

Self-assembling copolymers

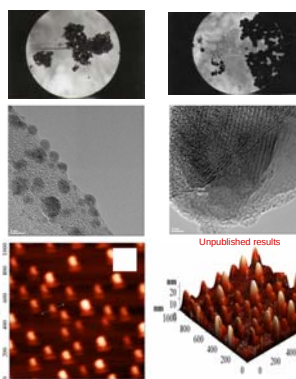


M. Cazacu, A. Vlad, A. Airinei, A. Nicolescu, I. Stoica, *Dyes Pigm.*, 90 (2011), 106.



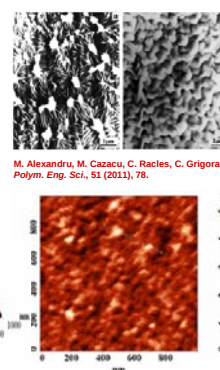
M. Cazacu, C. Racles, M. Alexandru, A. Ioanid, A. Vlad, *Polym. Intern.* 58(6), 2009, 697

Nanoparticles



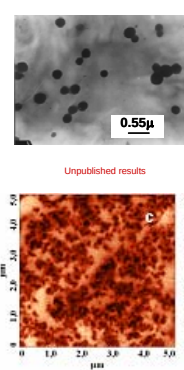
C. Racles, A. Airinei, I. Stoica, A. Ioanid, *J Nanopart Res* (2010) 12:2163

Composites



M. Cazacu, C. Racles, A. Airinei, A. Vlad, I. Stoica, *Polym. Adv. Technol.*, 22(5), 2011.

Metallosiloxanes



Unpublished results

Polymeric nanostructured composite materials useful in environmental monitoring, NANOPOL, Contract CEE - MATNANTECH 5618/2005

Multifunctional nanostructured silicone materials, NANOSIMAT Contract CEE - MATNANTECH 52/2006

Siloxane-based compounds as precursors for nanomaterials Project PNCDI II - IDEAS ID_233, Contract no. 5/2007

30 articles published
Period: 2006-2017
Domain:
micro-/nano-materials
Impact index: 0.2-4.0 (1.54/article)
2 Romanian patents



Tensiometer



Dynamic Vapor Sorption Analyser



UNIUNEA EUROPEANĂ



GUVERNUL ROMÂNIEI



Instrumente Structurale
2007 - 2013



PETRU PONII



Sectorial Operational Programme "Increase of Economic Competitiveness"
cofinanced by European Regional Development Fund
"Investing for your future"

Project: "Synthesis and study of the polymeric metallosiloxanes - new materials for catalysis and nanosciences" POLISILMET

PRIORITY AXIS 2 - Research, Technological Development and Innovation for Competitiveness
Operation 2.1.2: "Complex research project fostering the participation of high-level international experts" (Prof. Constantin Turta, Chisinau, Moldova)
POSCCE-A2-O2.1.2-2009-2

ID 570, SMIS - CSNR 12473, Contract number 129/2.06.2010



X-Ray Single Crystal Diffractometer