

Lista de lucrări a candidatului Adrian Sorin Mureșan

Titlul tezei de doctorat: Solidification in supported phospholipid bilayers.  
Anul susținerii: 2003.  
Conducătorul științific: Ka Yee Lee.  
Instituția eliberatoare a titlului de doctor: The University of Chicago

**Articole publicate în reviste cotate ISI cu factor de impact:**

Influence of fines on the surface energy heterogeneity of lactose for pulmonary drug delivery, Raimundo Ho, Adrian S. Muresan, Gerald A. Hebbink, Jerry, Y.Y. Heng *International Journal of Pharmaceutics, Volume 388, Issues 1–2 30 March 2010, Pages 88–94* **37 citări, Impact factor 4,213**

Road to disorder in smectic elastomers, Evgeny P. Obraztsov, Adrian S. Muresan, Boris I. Ostrovskii, and Wim H. de Jeu *Physical Review E 77, 021706 2008* **12 citări, Impact factor 2,353**

Main-chain smectic liquid-crystalline polymers as randomly disordered systems, **A. Muresan**, B.Ostrovskii, A. Sánchez-Ferrer, H. Finkelmann and W.H. de Jeu *European Physical Journal E 19 (2006) 385-388* **5 citări, Impact factor 1,802**

Dynamic heterogeneity in hydrogen-bonded polymers, **Adrian S. Muresan**, Johan L.A. Dubbeldam, Holger Kautz, Michael Monkenbusch, Rint P. Sijbesma, Paul van der Schoot, Wim H. De Jeu *Physical Review E 74 (2006) 031804 1-7* **4 citări, Impact factor 2,353**

Evaluation of kinetics of Perfluorocarbon emulsions with different 'droplet' sizes in rodent mammary tumors, Xiaobing Fan, Jonathan N. River, Adrian S. Muresan, Carmen Popescu, Marta Zamora, Rita M. Culp and Gregory S. Karczmar *Physics in medicine & biology 2006, vol.51, nr. 2, pp.211-220* **29 citări, Impact factor 3,030**

Urea Modulation of beta-Amyloid Fibril Growth: Experimental Studies and Kinetic Models, Jin Ryoung Kim, Adrian Muresan, Ka Yee C. Lee and Regina M. Murphy, *Protein Science 13 (2004) 2888-2898.* **35 citări, Impact factor 2,735**

Interaction of Antimicrobial Peptide Protegrin with Biomembranes, David Gidalevitz, Yuji Ishitsuka, Adrian S. Muresan, Alan J. Waring, Robert I. Lehrer, and Ka Yee C. Lee, *Proceedings of the National Academy of Science, 100 (2003) 6302-6307* **211 citări, Impact factor 9,58**

Effect of Temperature and Composition on the Formation of Nanoscale Compartments in Phospholipid Membranes, **Adrian S. Muresan**, Haim Diamant, and Ka Yee C. Lee, *Journal of the American Chemical Society 123 (2001) 6951-6952 and Journal of the American Chemical Society 123 (2001) 8644-8644.* **36 citări, Impact factor 14,695**

Shape Evolution of Lipid Bilayer Patches Adsorbed on Mica: An Atomic Force Microscopy Study, **Adrian S. Muresan**, and Ka Yee C. Lee, *Journal of Physical Chemistry 105 4 (2001) 852-855.* **73 citări, Impact factor 2,923**

## Prezentări la conferințe

Adrian Muresan, Denitza Lambreva, Boris Ostrovskii, Wim de Jeu, Heino Finkelmann Disorder by random crosslinking in smectic elastomers Dutch Polymer Days, Lunteren February 19-21 2005.

Gidalevitz D, Ishitsuka Y, Konovalov O, et al. Comparative study of protegrin and protegrinderived mutant antimicrobial peptides interactions with artificial biological membranes BIOPHYS J 82 (1): 29 Part 2 JAN 2002

Muresan AS, Diamant H, Lee KYC Effect of the substrate interaction on the morphology of phase-separated domains in supported lipid bilayers BIOPHYS J 82 (1): 2669 Part 2 JAN 2002

Muresan AS, Lee KYC Formation of nanoscale compartments in phospholipid membranes. ABSTR PAP AM CHEM S 222: 21-BIOL Part 1 AUG 2001

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Lee KYC, Muresan A, Ege C Interactions of Alzheimer's amyloid-beta peptides with lipid membranes  
BIOPHYS J 80 (1): 96 Part 2 JAN 2001

Muresan AS, Lee KY Direct observation of lipid/protein interactions using atomic force microscopy on supported bilayers BIOPHYS J 80 (1): 2436 Part 2 JAN 2001

Muresan A, Xu S, Lee KYC Time evolution of lipid bilayer domains adsorbed on MICA studied using atomic force microscopy BIOPHYS J 78 (1): 1046Pos Part 2 JAN 2000 **o citare**

## Brevete

KONINKLIJKE PHILIPS ELECTRONICS N.V. , Verbitsky E, De Bokx PK, Denteneer, TJJ, Von Basum G, Otal B, Muresan AS, Goris A, Van Herk JJ (WO2008017981) METHOD AND DEVICE FOR MONITORING A PHYSIOLOGICAL PARAMETER

## Cărți

Detailed solutions to physics problems  
În proces de publicare la UMFST.