

## Publications of Dr. Wiebe M. de Vos

1. **De Vos, W.M.**; de Keizer A.; Kleijn J.M., T. Cosgrove and Cohen Stuart M.A. *Kirk-Othmer encyclopedia of chemical technology*, recently accepted.  
“Polymer Brushes” (invited review).
2. **De Vos, W.M.**; de Keizer A.; Cohen Stuart M.A. and Kleijn J.M. *Soft Matter* **2010**, *6*, 2499-2507.  
“Charge-driven and reversible assembly of ultra-dense polymer brushes: Formation and anti-fouling properties of a Zipper Brush.”
3. **De Vos, W.M.**; de Keizer A.; Cohen Stuart M.A. and Kleijn J.M. *Colloids and Surfaces A*, **2010**, *358*, 6-12.  
“Thin polymer films as sacrificial layers for easier cleaning.”
4. **De Vos, W.M.**; Leermakers F.A.M.; de Keizer A.; Cohen Stuart M.A. and Kleijn J.M. *Langmuir*, **2010**, *26*, 249-259.  
“Field theoretical analysis of driving forces for the uptake of proteins by like charged polyelectrolyte brushes: effects of charge regulation and patchiness.”
5. **De Vos, W.M.**; Biesheuvel, P.M.; de Keizer A.; Kleijn J.M. and Cohen Stuart M. A. *Langmuir* **2009**, *25*, 9252.  
“Adsorption of anionic surfactants in a non-ionic polymer brush: Experiments, comparison with mean-field theory and implications for brush-particle interaction.”
6. **De Vos, W.M.**; Leermakers F.A.M.; de Keizer A.; Kleijn J.M. and Cohen Stuart M. A. *Macromolecules* **2009**, *42*, 5881.  
“Interaction of Particles with a Polydisperse Brush: A Self-Consistent Field Analysis.”
7. **De Vos, W.M.**; Kleijn J.M.; de Keizer A.; and Cohen Stuart M. A. *Angew. Chem. Int. Ed.* **2009**, *48*, 5369–5371.  
“Ultra dense polymer brushes by adsorption.”
8. **De Vos, W.M.**; de Keizer A.; Kleijn J.M. and Cohen Stuart M. A. *Langmuir* **2009**, *25*, 4490-4497.  
“The production of PEO polymer brushes via Langmuir-Blodgett and Langmuir-Schaeffer methods: incomplete transfer and its consequences.”
9. **De Vos, W. M.** and Leermakers F.A.M. *Polymer*, **2009**, *50*, 305.  
Modeling the structure of a polydisperse brush.
10. Biesheuvel, P.M.; **de Vos, W.M.**; Amoskov, V.M.; *Macromolecules* **2008**, *41*, 6254.  
“Semianalytical continuum model for nondilute neutral and charged brushes including finite stretching.”
11. Voets, I.K.; **de Vos, W.M.**; Hofs, B, de Keizer A.; Cohen Stuart M.A.; Steitz R.; Lott D. *J. Phys. Chem. B.* **2008**, *112*, **6937**.  
“Internal structure of a thin film of mixed polymeric micelles on a solid/liquid interface.”
12. **De Vos, W.M.**; Biesheuvel, P.M.; de Keizer, A.; Kleijn, J.M.; Cohen Stuart, M.A.; *Langmuir* **2008**, *24*, 6575-6584.  
“Adsorption of the protein bovine serum albumin in a planar poly(acrylic acid) brush layer as measured by optical reflectometry.”
13. Cohen Stuart, M.A.; **de Vos, W.M.**; Leermakers, F.A.M. *Langmuir* **2006**, *22*, 1722.  
“Why surfaces modified by flexible polymers often have a finite contact angle for good solvents.”
14. Yildirim Z.; Mendes E.; Picken S.J.; Paraschiv I.; Zuilhof H.; **de Vos W.M.**; Sudholter E.J.R.; Marcelis A.T.M. *Molecular crystals and liquid crystals* **2005**, *438*, **2103**.  
“Binary phase diagram of triphenylene derivatives: The role of hydrogen bonds.”
15. Vermonden, T.; **de Vos, W.M.**; Marcelis, A.T.M.; Sudhölter E.J.R. *European Journal of Inorganic Chemistry* **2004**, *14*, **2847**.  
“3-d water-soluble reversible neodymium(III) and lanthanum(III) coordination polymers.”