

## CV: PER CLAESSION

Per Martin Claesson Ph. D. (Tekn. Dr.), Professor  
Born: April 27, 1957 Marital status: Married, 3 children  
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### *Degrees*

1989 Docent (associate professor), Physical Chemistry, KTH, Stockholm  
1986 Ph. D. (Tekn. Dr.), Physical Chemistry, KTH, Stockholm "Forces between Surfaces Immersed in Aqueous Solutions", supervisor Jan Christer Eriksson, opponent Jacob Israelachvili)  
1984 Licentiate (Tekn. Lic.), Physical Chemistry, KTH, Stockholm "Direct Measurements of Forces between Surfaces at Molecular Distances"  
1981 Master of Science, Chemical Engineering (civilingenjör), KTH, Stockholm  
1976 High-school exam (studentexamen), Nya Elementars Gymnasium

### Employments

1998- - Professor in Surface Chemistry, KTH, Stockholm (80% research, 20% administration)  
2007 Visiting professor at Dept. Chemistry, Aarhus University, Denmark (Jan-Aug 2007)  
1998-1995 Associate professor in physical chemistry of surfaces, colloids and polymers (forskartjänst, NFR), KTH, Stockholm  
1995-1987 Research fellow (financed by grants from NFR), KTH, Stockholm  
1987-1986 Research fellow, The Australian National University, Canberra, Australia

### Supervision of research students

25 PhD-students and six Licentiate-students have been graduated under my supervision or co-supervision since 1995. Currently 10 PhD-students are supervised or co-supervised. The name and year of examination for the PhD-students are:

Mats Dahlgren, 1995; Åsa Waltermo, 1996; Tomas Eriksson, 1996; Johan Fröberg, 1998; Thomas Ederth, 1999; Monika Österberg, 2000; Britta Folmer, 2000; Peter Hansen, 2000; Evgeni Poptoshev, 2001; Johan Stålgren, 2002; Katrin Boschkova, 2002; Mikael Kjellin, 2002; Therese Sennerfors, 2002; Christian Kugge, 2003; Atte Kumpulainen, 2004; Brita Rippner, 2005; Luis Bastrado, 2005; Tobias Halthur, 2005; Joakim Voltair, 2006; Isabel Mira, 2006; Lubica Macakova 2007, Sarah Lundgren, 2008; Torbjörn Pettersson, 2008; Joseph Iruthayaraj, 2008; Ali Naderi, 2008

### **Post-docs**

During 2007-2008 I have had five Post-docs working in my group. Dr Imre Varga (Hungary, 2 Years), Dr. Biswaranjan Mohanty (India, 1 year), Dr. Arindam Adhikari (India, 2 years). Dr. Esben Thormann (Denmark, 1-2 year), Dr. Timo Kallio (Finland, 6 months).

### Research

My current research interests are:

- i) Experimental studies of surface interactions, including friction, with focus on forces generated by polymers, polyelectrolytes and surfactants. Main methods: SFA, AFM, TFPB
- ii) Self-assembly in bulk and at interfaces, with focus on polyelectrolyte-surfactant and polyelectrolyte-polyelectrolyte complexes. Main methods: QCM-D, ellipsometry, reflectometry, DPI, XPS, SANS, SAXS, DLS, SLS
- iii) Directed assembly at interfaces with focus on layer-by-layer techniques. Main methods: As above and LB and dipping robot
- iv) Hydration of polar groups. Main method: VSFS

### Administrative experiences 2000-

- Director of the VINNOVA competence centre “Surfactants based on natural products, SNAP), 1999-2006
- Member of fakultetskollegiet, KTH, 2001-2003
- Vice head, Department of Chemistry, KTH, 2001-2004
- Head, Department of Chemistry, KTH, 2004-
- Member of the Scientific Council of YKI, 2004-
- Member of the Board of YPK, Forskarskolan Ytkemi för plast- och kemiindustrin 2005-
- Member of the Board of “Industrial NMR Centre”, 2006-
- Member of the Board of “Center for Molecular Devices”, 2006-

### **Reviewing and Evaluation**

Since 1995 I have been a member of committees for the appointment of professors in Sweden and the US, and for associate professors, in Sweden, Finland, and the US. I have evaluated 32 PhD-theses (18 as opponent/examiner and 14 as a member of the evaluation committee), and 15 licentiate theses. The theses have been presented in nine different countries (Sweden, Norway, Finland, Denmark, Belgium, Germany, The Netherlands, France and Australia). I review more than 20 scientific papers annually.

### Publications

About 200 publications in leading international journals devoted to physical and surface chemistry (e.g. Langmuir, J. Colloid Interface Science, Colloids and Surfaces. J. Phys. Chem.), and 19 book contributions. My work was cited more than 4500 times according to Web of Science in August 2005, with the most cited article being “Cavitation and the interaction between hydrophobic surfaces”, Science 239, 390-392, 1988).

### Awards

2008 The Arrhenius medal (Arrhenius-plaketten) awarded by The Swedish Chemical Society  
1998-1995 Associate professor in physical chemistry of surfaces, colloids and polymers (forskartjänst, NFR)

1987 The Berol Nobel Price for the best PhD thesis in the Nordic countries within the area of surface chemistry.

### Miscellaneous

Consultant for YKI, Institute for surface chemistry, Stockholm

Member of the advisory board for JCIS (1990-1992), CHEMTRACTS, Analytical, Physical and Inorganic Chemistry (1990), Colloids and Surfaces (2005-), J. Dispersion Sci. Techn. (2005-)

**Publication list, Per Claesson, 2000-2007, including articles accepted in 2007**

2000

113. Ederth, T., and Claesson, P.M.  
"Forces between Carboxylic Acid Surfaces in Divalent Electrolyte Solutions"  
J. Colloid Interface Sci. 229, 123-128 (2000)
114. Österberg, M., and Claesson, P.M.  
"Interactions between Cellulose Surfaces: Effect of Solution pH"  
J. Adh. Sci. Techn.,14, 603-618 (2000)
115. Dedinaite, A., and Claesson, P.M.  
"Interfacial Properties of Aggregates Formed by Cationic Polyelectrolyte and Anionic Surfactant"  
Langmuir, 16, 1951-1959 (2000)
116. Poptoshev, E., Rutland, M.W., and Claesson, P.M.  
"Surface Forces in Aqueous Polyvinylamine Solutions. 2. Interactions between Glass and Cellulose"  
Langmuir, 16, 1987-1992 (2000)
117. Dedinaite, A., Claesson, P.M., Nygren, J., and Iliopoulos, I.  
"Interactions between Surfaces Coated with Cationic Hydrophobically Modified Polyelectrolyte in Presence and Absence of Oppositely Charged Surfactant"  
Prog. Colloid Polymer Sci., 116 84-94 (2000)
118. Dedinaite, A., Claesson, P.M., and Bergström, M.  
"Polyelectrolyte-Surfactant Layers: Adsorption of Preformed Aggregates versus Adsorption of Surfactant to Preadsorbed Polyelectrolyte"  
Langmuir, 16, 5257-5266 (2000)
119. Rundlöf, M., Karlsson, M., Wågberg, L., Poptoshev, E., Rutland, M. and Claesson, P.  
"Application of the JKR Method to the Measurement of Adhesion to Langmuir-Blodgett Cellulose Surfaces"  
J. Colloid Interface Sci., 230, 441-447 (2000)
120. Claesson, P.M., Bergström, M., Dedinaite, A., Kjellin, M., Legrand, J.-F., and Grillo, I.  
"Mixtures of Cationic Polyelectrolyte and Anionic Surfactant Studied with Small-Angle Neutron Scattering"  
J. Phys. Chem. B, 104, 11689-11694 (2000)
121. Persson, C.M., Claesson, P.M., and Johansson, I.  
"Interfacial Behaviour of n-octyl- $\beta$ -D-glucopyranoside compared to that of a technical mixture consisting of octyl glucosides"  
Langmuir, 16, 10227-10235 (2000)
122. Rojas, O.J., Ernstsson, M., Neuman, R.D., and Claesson, P.M.  
"X-ray Photoelectron Spectroscopy in the Study of Polyelectrolyte Adsorption on Mica and Cellulose"  
J. Phys. Chem B, 104, 10032-10042 (2000)

123. Poptoshev, E., Carambassis, A., Österberg, M., Claesson, P. M. and Rutland, M. W.  
"Comparison of Model Surfaces for Cellulose Interactions; elevated pH."  
Prog. Colloid Polymer Sci., 116 79-83 (2000)

#### 2001

124. Christenson, H.K., and Claesson, P.M.  
"Direct Measurements of the Force between Hydrophobic Surfaces in Water"  
Adv. Colloid Interface Sci., 91, 391-436 (2001)

125. Stålgren, J., Claesson, P.M., and Wärnheim, T.  
"Adsorption of Liposomes and Emulsions Studied with a Quartz Crystal Microbalance"  
Adv. Colloid Interface Sci., 89-90, 383-394 (2001)

126. Rojas, O.J., Claesson, P.M., and Neuman, R.D.  
"Desorption of Low-Charge-Density Polyelectrolyte Adlayers in Aqueous Sodium n-Dodecyl Sulfate Solution"  
J. Colloid Interface Sci., 237, 104-111 (2001)

127. Kjellin, U.R.M., Claesson, P.M., and Vulfson, E.N.  
"Studies of N-dodecyl lactobionamide, Maltose 6'-O-dodecanoate and Octyl- $\beta$ -glucoside with Surface tension, Surface Force and Wetting Techniques"  
Langmuir, 17, 1941-1949 (2001)

128. Ederth, T., Tamada, K., Claesson, P.M., Valiokas, R., Colorado Jr., R., Graupe, M., Shmakova, O.E., and Lee, T.R.  
"Force measurements between semifluorinated thiolate self-assembled monolayers: Long-range hydrophobic interactions and surface charge"  
J. Colloid Interface Sci., 235, 391-397 (2001)

129. Österberg, M., Laine, J., Stenius, P., Kumpulainen, A., and Claesson, P.M.  
"Forces between Xylan-coated Surfaces: Effect of Polymer Charge Density and Background Electrolyte"  
J. Colloid Interface Sci. 242, 59-66 (2001)

130. Abraham, T., Kumpulainen, A., Xu, Z., Rutland, M., Claesson, P.M., and Masliyah, J.  
"Polyelectrolyte-Mediated Interaction between Similarly Charged Surfaces: Role of Divalent Counter Ions in Tuning Surface Forces"  
Langmuir 17, 8321-8327 (2001)

#### 2002

131. Bergeron, V., and Claesson, P.M.  
"Structural Forces Reflecting Polyelectrolyte Organization from Bulk Solutions and within Surface Complexes"  
Adv. Colloid Interface Sci., 96, 1-20 (2002)

132. Ekholm, P., Blomberg, E., Claesson, P.M., Auflem, I.H., Sjöblom, J., and Kornfeldt, A.  
"A Quartz Crystal Microbalance Study of the Adsorption of Asphaltenes and Resins onto a Hydrophilic Surface"  
J. Colloid Interface Sci., 247, 342-350 (2002)

133. Rojas, O.J., Ernstsson, M., Neuman, R.D., and Claesson, P.M.  
“Effect of Polyelectrolyte Charge Density on the Adsorption and Desorption Behaviour on Mica”  
Langmuir, 18, 1604-1612 (2002)
134. Poptoshev, E., and Claesson, P.M.  
“Forces between Glass Surfaces in Aqueous Polyethyleneimine Solutions”  
Langmuir, 18, 2590-2594 (2002)
135. Poptoshev, E., Claesson, P.M.  
“Weakly Charged Polyelectrolyte Adsorption to Glass and Cellulose Studied by Surface Force Technique”  
Langmuir 18, 1184-1189 (2002)
136. Plunkett, M.A., Claesson, P.M., and Rutland, M.W.  
“Adsorption of a cationic polyelectrolyte followed by surfactant-induced swelling, studied with a quartz crystal microbalance”  
Langmuir 18, 1274-1280 (2002)
137. Bastrado, L., Claesson, P.M., and Brown, W.  
“Interactions between mucin and alkyl sodium sulfates in solution. A light scattering study.”  
Langmuir, 18, 3848-3853 (2002)
138. Kjellin, U.R.M., Claesson, P.M., and Linse, P.  
“Surface Properties of Tetra(ethylene oxide)dodecyl amide compared with poly(ethylene oxide) surfactants. 1. Effect of the Headgroup on Adsorption”  
Langmuir, 18, 6745-6753 (2002)
139. Kjellin, U.R.M., and Claesson, P.M.  
“Surface Properties of Tetra(ethylene oxide)dodecyl amide compared with poly(ethylene oxide) surfactants. 2. Effect of the Headgroup on Surface Forces”  
Langmuir, 18, 6754-6763 (2002)
140. Persson, M.C., Claesson, P.M., and Lunkenheimer, K.  
“Interfacial Behaviour of n-decyl  $\beta$ -D Maltopyranoside on Hydrophobic Interfaces and the Effect of Small Amounts of Surface-Active Impurities”  
J. Colloid Interface Sci. 251 182-192 (2002)
141. Bergström, M., Kjellin, U.R.M., Claesson, P.M., Pedersen, J.S., and Nielsen, M.M.  
“A Small-Angle X-ray Scattering Study of Complexes Formed in Mixtures of a Cationic Polyelectrolyte and an Anionic Surfactant”  
J. Phys. Chem. B., 106, 11412-11419 (2002)
142. Rojas, O.J., Macakova, L., Blomberg, E., Emmer, Å., Claesson, P.M.  
“Fluorosurfactant Self-Assembly at Solid/Liquid Interfaces”  
Langmuir, 18, 8085-8095 (2002)

143. Rippner, B., Boschkova, K., Claesson, P.M., and Arnebrant, T.  
“Interfacial Films of Poly(ethylene oxide)-Poly(butylenes oxide) Block Copolymers Characterized by Disjoining Pressure Measurements, in Situ Ellipsometry, and Surface Tension Measurements”  
Langmuir 18, 5213-5221 (2002)

2003

144. Stålgren, J., Pamedylyte, V., Makuska, R., Claesson, P.M., Brown, W., and Jacobsson, U.  
“Synthesis and Characterization of cationic Polymeric Salts – Derivatives of 2-(dimethylamino)ethyl-2-methacrylate Containing Oligomeric Ethylene Oxide Side-Chains”  
Polym. Int., 52, 399-405 (2003)

145. Silvander, M., Hellström, A., Wärnheim, T., and Claesson, P.M.  
“Rheological properties of phospholipid-tabilized parental oil-in-water emulsions – effects of electrolyte concentration and presence of heparin”  
Int. J. Pharmaceutics, 252, 123-132 (2003)

146. Claesson, P.M., Dedinaite, A., and Rojas, O.J.  
“Polyelectrolytes as Adhesion Modifiers”  
Adv. Colloid Interface Sci. 104, 53-74 (2003)

147. Plunkett, M.A., Claesson, P.M., Ernstsson, M., and Rutland, M.W.  
“Comparison of the Adsorption of Different Charge Density Polyelectrolytes: A Quartz Crystal Microbalance and X-ray Photoelectron Spectroscopy Study”  
Langmuir 19, 4673-4681, 2003

2004

148. Bergström, L.M., Kjellin, U.R.M., Claesson, P.M.  
“Small-Angle Neutron Scattering Study of Mixtures of Cationic Polyelectrolyte and Anionic Surfactant: Effect of Polyelectrolyte Charge Density”  
J. Phys. Chem. B, 108, 1874-1881 (2004)

149. Matsson, M., Kronberg, B., Claesson, P.M.  
“Adsorption of Alkyl Polyglucosides on the Solid/Liquid Interface: Equilibrium Effects of Alkyl Chain Length and Head Group Polymerization”  
Langmuir, 20, 4051-4058 (2004)

150. Rojas, O.J., Claesson, P.M., Berglund, K.D., Tilton, R.D.  
“Coadsorption and surface forces for selective surfaces in contact with aqueous mixtures of oppositely charged surfactants and low charge density polyelectrolytes”  
Langmuir, 20, 3221-3230, 2004

151. Piispanen, P.S., Persson, M., Claesson, P.M., and Norin, T.  
”Surface Properties of Surfactants Derived from Natural Products. Part 1: Synthesis and Structure/Property Relationships – Solubility and Emulsification”  
J. Surfactant Detergents, 7, 147-152 (2004)

152. Piispanen, P.S., Persson, M., Claesson, P.M., and Norin, T.  
”Surface Properties of Surfactants Derived from Natural Products. Part 2: Structure/Property Relationships – Foaming, Dispersion and Wetting”  
J. Surfactant Detergents, 7, 153-159 (2004)

153. Stubenrauch, C., Rojas, O.J., Schlarmann, J., and Claesson, P.M.  
“Interactions between Non-Polar Surfaces Coated with the Non-Ionic Surfactant Hexaoxyethylene Dodecylether C<sub>12</sub>E<sub>6</sub> and the Origin of Surface Charges at the Air/Water Interface”  
Langmuir, 20, 4977-4988 (2004)
154. Blomberg, E., Poptoshev, E., Claesson, P.M., and Caruso, F.  
“Surface Interactions during Polyelectrolyte Multilayer Build-up. 1. Interactions and Layer Structure in Dilute Electrolyte Solution”  
Langmuir, 20, 5432-5438 (2004)
155. Dedinaite, A., Mészáros, R., and Claesson, P.M.  
“Effect of Sodium Dodecyl Sulfate on Adsorbed Layers of Branched Polyethylene Imine”  
J. Phys. Chem. B., 108, 11645-11653 (2004)
156. Halthur, T.J., Claesson, P.M., Elofsson, U.M.  
“Stability of Polypeptide Multilayers as Studied by in situ Ellipsometry: Effects of Drying and Post-Buildup Changes in Temperature and pH”  
J. Am. Chem. Soc., 126, 17009-17015 (2004)
157. Stubenrauch, C., Schlarmann, J., Rojas, O.J., and Claesson, P.M.  
“Comparison between Interaction Forces at Air/Liquid and Solid/Liquid Interfaces in the Presence of Non-Ionic Surfactants  
Tenside, Surfactants, Detergents 41, 174-179 (2004)
158. Rippner-Blomqvist, B., Ridout, M.J., Mackie, A.R., Wårnheim, T., Claesson, P.M., and Wilde, P.  
“Disruption of Viscoelastic b-lactoglobulin Surface Layers at the Air-Water Interface by Nonionic Polymeric Surfactants”  
Langmuir, 20, 10150-10158 (2004)
- 2005
159. Bastardo, L., Garamus, V.M., Bergström, M., and Claesson, P.M.  
“The Structure of Complexes between Polyethylene Imine and Sodium Dodecyl Sulfate in D<sub>2</sub>O. A Scattering Study”  
J. Phys. Chem. B 109, 167-174 (2005)
160. Naderi, A., Claesson, P.M., Bergström, M., and Dedinaite, A.  
“Trapped Non-Equilibrium States in Aqueous Solutions of Oppositely Charged Polyelectrolytes and Surfactants: Effects of Mixing Protocol and Salt Concentration”  
Colloids and Surfaces A, 253 83-93 (2005)
161. Matsson, M., Kronberg, B., and Claesson, P.M.  
“Enhanced Adsorption of Alkylglucoside on the Silica/Water Interface by Addition of Amine Oxides”  
Langmuir, 21 2766-2772 (2005)

162. Samoshina, Y., Nylander, T., Claesson, P.M., Schillén, K., Iliopoulos, I., and Lindman, B. "Adsorption and Aggregation of Cationic Amphiphilic Polyelectrolytes on Silica" *Langmuir*, 21, 2855-2864 (2005)
163. Vanegyte, P., Leyh, B., Rojas, O.J., Claesson, P.M., Heinrich, M., Auvray, L., Willet, N., and Jerome, R. "Adsorption of Poly(ethylene oxide)-b-Poly( $\epsilon$ -caprolactone) Copolymers at the Silica-Water Interface." *Langmuir*, 21, 2930-2940 (2005)
164. Naderi, A., and Claesson, P.M. "Association between Poly(vinylamine) and Sodium Dodecyl Sulfate: Effects of Mixing Protocol, Blending Procedure and Salt Concentration" *J. Disp. Sci. Techn.* 26, 329-340 (2005)
165. Claesson, P.M., Poptoshev, E., Blomberg, E., and Dedinaite, A. "Polyelectrolyte mediated interactions" *Advances Colloid Interface Sci.* 114-115, 173-185 (2005)
166. Joseph, I., Poptoshev, E., Vareikis, A., Makuska, R., van der Wal, A., and Claesson, P.M. "Adsorption of Low Charge Density Polyelectrolyte Containing Grafted Poly(Ethylene Oxide) Chains on Silica: Effects of Ionic Strength and pH." *Macromolecules*, 38, 6152-6158 (2005)
167. Rippner Blomqvist, B., Wärnheim, T., and Claesson, P.M. "Surface Rheology of PEO-PPO-PEO Triblock Copolymers at the Air-Water Interface: Comparison of Spread and Adsorbed Layers" *Langmuir*, 21, 6373-6384 (2005)
168. Bastardo, L.A., Meszaros, R., Varga, I., Gilanyi, T., and Claesson, P.M. "Deuterium Isotope Effects on the Interaction between Hyperbranched Polyethylene Imine and an Anionic Surfactant" *J. Phys. Chem. B* 109, 16196-16202 (2005)
169. Rojas, O.J., Stubenrauch, C., Schultze-Schlarman, J., and Claesson, P.M. "Interactions between Non-Polar Surfaces Coated with the Non-Ionic Surfactant n-Dodecyl- $\beta$ -D-maltoside  $\beta$ C<sub>12</sub>G<sub>2</sub>" *Langmuir*, 21, 11836-11843 (2005)
- \* 170. Tyrode, E., Johnson, M.C., Kumpulainen, A., Rutland, M.W., Claesson, P.M. "Hydration state of non-ionic surfactant monolayers at the liquid/vapor interface: Structure determination by vibrational sum frequency spectroscopy" *J. Am. Chem. Soc.*, 127, 16848-16859 (2005)
171. Rojas, O.J., Neumann, R., and Claesson, P.M. "Viscoelastic Properties of Isomeric Alkylglucoside Surfactants Studied by Surface Light Scattering" *J. Phys. Chem., B* 109, 22440-22448 (2005)

2006

172. Rippner Blomqvist, B., Wilde, P., Claesson, P.M.  
“Competitive Destabilization/Stabilization of  $\beta$ -lactoglobulin Foam by PEO-PPO-PEO Polymeric Surfactants”  
J. Disp. Sci. Techn., 27, 527-536 (2006)
173. Dedinaite, A., Joseph, I., Gorochoceva, N., Makuska, R., and Claesson, P.M.  
“Interfacial Properties of Chitosan-PEO Graft Oligomers: Surface Competition with Unmodified Chitosan Oligomers!”  
Progr. Colloid Polym. Sci., 132, 124-130 (2006)
174. Rippner Blomqvist, B., Folke, S., and Claesson, P.M.  
“The Stabilization of Aqueous PEO-PPO-PEO Triblock Copolymer Foam”  
J. Dispersion Sci. Techn., 27, 469-479 (2006)
175. Poptoshev, E., and Claesson, P.M.  
“Adsorption of Dimethyldodecylamine-N-Oxide at the Mica-Solution Interface Studied by Ellipsometry”  
Colloids Surfaces A, 291, 45-50 (2006)
176. Lundgren, S.M., Persson, K., Kronberg, B., and Claesson, P.M.  
“Adsorption of fatty acids from alkane solutions studied with quartz crystal microbalance”  
Tribology Lett., 22, 15-20 (2006)
177. Halthur, T.J., Claesson, P.M., and Elofsson, U.M.  
“Immobilization of Enamel Matrix Derivate Protein onto Polypeptide Multilayers. Comparative in Situ Measurements Using Ellipsometry, Quartz Crystal Microbalance with Dissipation, and Dual Polarization Interferometry”  
Langmuir, 22, 11065-11071 (2006)
178. Blomberg, E., Claesson, P.M., Konradsson, P., and Liedberg, B.  
“Globotriose and Oligo(Ethylene Glycol) Terminated Self-Assembled Monolayers: Surface Forces, Wetting and Surfactant Adsorption”  
Langmuir, 22, 10038-10046 (2006)
179. Wallqvist, V., Claesson, P.M., Swerin, A., Schoelkopf, J., and Gain, P.A.C.  
“Interaction Forces between Talc and Hydrophobic Particles Probed by AFM”  
Coll. Surf. A. 277, 183-190 (2006)
180. Claesson, P.M., Kjellin, M., Rojas, O.J., and Stubenrauch, C.  
“Short-Range Interactions between Non-Ionic Surfactant Layers”  
PCCP, 8, 5501-5514, 2006
181. Naderi, A., and Claesson, P.M.  
“Adsorption Properties of Polyelectrolyte-Surfactant Complexes on Hydrophobic Surfaces Studied by QCM-D”  
Langmuir, 22, 7639-7645 (2006)

2007

182. Zhou, Y., Gorochovceva, N., Makuska, R., Dedinaite, A., and Claesson, P.M.  
“Non-specific protein adsorption on surfaces coated with chitosan derivatized by poly(ethylene oxide) prepared by adsorption from solution and by  $\mu$ -contact printing”  
J. Colloid Interface Sci., 305, 62-71,(2007)
183. Wallqvist, V., Claesson, P.M., Swerin, A., Schoelkopf, J., and Gane, P.A.C.  
“Interaction Forces between Talc and Pitch Probed by Atomic Force Microscopy”  
Langmuir 23, 4248-4256 (2007)
184. Bastardo, L.A., Iruthayaraj, J., Lundin, M., Dedinaite, A., Vareikis, A., Makuska, R., van der Wal, A., Furo, I., Garamus, V.M., and Claesson, P.M.  
“Soluble Complexes in Aqueous Solutions of Low Charge Density Comb Polyelectrolytes and Oppositely Charged Surfactants Probed by Scattering and NMR”  
J. Colloid Interface Sci., 312, 21-33 (2007)
185. Kaufman, E.D., Belyea, J., Johnson, M.C., Nicholson, Z.M., Ricks, J.L., Bayless, M., Pettersson, T., Feldotö, Z., Blomberg, E., Claesson, P.M., and Franzen, S.  
“Probing Protein Adsorption on Mercaptoundecanoic Acid Stabilized Gold Nanoparticles and Surfaces by Quartz Crystal Microbalance and z-Potential Measurements”  
Langmuir, 23, 6053-6062 (2007)
186. Tyrode, E., Johnson, C.M., Rutland, M.W., and Claesson, P.M.  
“Structure and Hydration of Poly(ethylene oxide) Surfactants at the Air/Liquid Interface. A Vibrational Sum Frequency Study”  
J. Phys. Chem. C. 111, 11642-11652 (2007)
187. Lundgren, S.M., Persson, K., Mueller, G., Kronberg, B., Clarke, J., Chtaib, M., and Claesson, P.M.  
“Unsaturated Fatty Acids in Alkane Solutions: Adsorption to Steel Surfaces”  
Langmuir 23, 10598-10602 (2007)
188. Macakova, L., Blomberg, E., and Claesson, P.M.  
“The Effect of Adsorbed Layer Roughness on the QCM-D Response: Focus on Trapped Water”  
Langmuir, 23, 12436-12444 (2007)
189. Naderi, A., Iruthayaraj, J., Vareikis, A., Makuska, R., and Claesson, P.M.  
“Surface Properties of Bottle-Brush Polyelectrolytes on Mica: Effects of Side Chain- and Charge Density”  
Langmuir, 23, 12222-12232 (2007)
190. Stubenrauch, C., Langevin, D., Exerowa, D., Manev, E., Claesson, P.M., Boinovich, L.B., and v. Klitzing, R.  
“Comments on “Hydrophobic Forces in the Foam Films Stabilized by Sodium Dodecyl Sulfate: Effect of Electrolyte” and Subsequent Criticism  
Langmuir, 23, 12457-12460 (2007)
191. Mohanty, B., Verma, A.K., Claesson, P., Bohidar, H.B.  
“Physical and anti-microbial characteristics of carbon nanoparticles prepared from lamp soot”  
Nanotechnology, 18, 2007 (article 445102)

2008

192. Lundin, M., Macakova, L., Dedinaite, A., and Claesson, P.M.

“Interactions between Chitosan and SDS at a Low Charged Silica Substrate Compared to Interactions in the Bulk. The Effect of Ionic Strength”

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