Esben Thormann - Research outputs - DTU Orbit (06/05/2019)

Effects of the N, O, and S heteroatoms on the adsorption and desorption of asphaltenes on silica surface: A molecular dynamics simulation. / Bai, Yun; Sui, Hong; Liu, Xiaoyan; He, Lin; Li, Xingang; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Structural Investigation of a Self-Cross-Linked Chitosan/Alginate Dialdehyde Multilayered Film with in Situ QCM-D and Spectroscopic Ellipsometry. / Huang, Junhao; Moghaddam, Saeed Zajforoushan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

An engineered cell-imprinted substrate directs osteogenic differentiation in stem cells. / Kamguyan, Khorshid; Katbab, Ali Asghar; Mahmoudi, Morteza; Thormann, Esben; Moghaddam, Saeed Zajforoushan; Moradi, Lida; Bonakdar, Shahin.
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Fuel-independent and membrane-less self-charging biosupercapacitor. / Pankratov, Dmitry; Shen, Fei; Ortiz, Roberto; Toscano, Miguel D.; Thormann, Esben; Zhang, Jingdong; Gorton, Lo; Chi, Qijin.
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Interactions between apolar, basic and acidic model oils and a calcite surface. / Liu, Xiaoyan; Feilberg, Karen Louise; Yan, Wei; Stenby, Erling Haldan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Salt-Induced Control of the Grafting Density in Poly(ethylene glycol) Brush Layers by a Grafting-to Approach. / Ortiz, Roberto; Olsen, Stefan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Surface forces between rough and topographically structured interfaces. / Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Hofmeister Effect on PNIPAM in Bulk and at an Interface: Surface Partitioning of Weakly Hydrated Anions. / Moghaddam, Saeed Zajforoushan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Surface forces between highly charged cationic polyelectrolytes adsorbed to silica: How control of pH and the adsorbed amount determines the net surface charge. / Huang, Junhao; Liu, Xiaoyan; Feilberg, Karen Louise; Yan, Wei; Stenby, Erling Haldan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Electrical Double-Layer and Ion Bridging Forces between Symmetric and Asymmetric Charged Surfaces in the Presence of Mono- and Divalent Ions. / Liu, Xiaoyan; Feilberg, Karen Louise; Yan, Wei; Stenby, Erling Haldan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Thermo-responsive diblock and triblock cationic copolymers at the silica/aqueous interface: A QCM-D and AFM study. / Moghaddam, Saeed Zajforoushan; Zhu, Kaizheng; Nyström, Bo; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review
Binding of human serum albumin to liposomes studied by fluorescence correlation spectroscopy. / Kristensen, Kasper; Urquhart, Andrew; Thormann, Esben; Andresen, Thomas Lars.
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

Binding of human serum albumin to PEGylated liposomes: insights into binding numbers and dynamics by fluorescence correlation spectroscopy. / Kristensen, Kasper; Urquhart, Andrew; Thormann, Esben; Andresen, Thomas Lars.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Effect of Aluminum Substrate Surface Modification on Wettability and Freezing Delay of Water Droplet at Subzero Temperatures. / Rahimi, Maral; Afshari, Alireza; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Hofmeister effect on thermo-responsive poly(propylene oxide) in H2O and D2O. / Moghaddam, Saeed Zajforoushan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Hofmeister effect on thermo-responsive poly(propylene oxide): Role of polymer molecular weight and concentration. / Moghaddam, Saeed Zajforoushan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Release of Crude Oil from Silica and Calcium Carbonate Surfaces: On the Alternation of Surface and Molecular Forces by High- and Low-Salinity Aqueous Salt Solutions. / Liu, Xiaoyan; Yan, Wei; Stenby, Erling Halfdan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Charge regulation and energy dissipation while compressing and sliding a cross-linked chitosan hydrogel layer. / Liu, Chao; Thormann, Esben; Tyrode, Eric; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Hofmeister effect of salt mixtures on thermo-responsive poly(propylene oxide). / Moghaddam, Saeed Zajforoushan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Multi-function anti-fouling bio-active surfaces. / Ortiz, Roberto; Thormann, Esben.
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Direct measurement of colloidal interactions between polyaniline surfaces in a uv-curable coating formulation: the effect of surface hydrophilicity/hydrophobicity and resin composition. / Jafarzadeh, Shadi; Claesson, Per M.; Pan, Jinshan; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Self-assembly of long chain fatty acids: Effect of a methyl branch. / Liljeblad, Jonathan F. D.; Tyrode, Eric; Thormann, Esben; Dublanchet, Ann-Claude; Luengo, Gustavo; Johnson, C. Magnus; Rutland, Mark W.
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review
“Surface grafted chitosan gels. Part II. Gel formation and characterization.” / Liu, Chao; Thormann, Esben; Claesson, Per M.; Tyrode, Eric.
Research output: Contribution to journal – Journal article – Annual report year: 2014 › Research › peer-review

“Surface grafted chitosan gels. Part I. Molecular Insight into the formation of chitosan and poly(acrylic acid) multilayers.” / Liu, Chao; Thormann, Esben; Claesson, Per M.; Tyrode, Eric.
Research output: Contribution to journal – Journal article – Annual report year: 2014 › Research › peer-review

“Frictional forces between hydrophilic and hydrophobic particle coated nanostructured surfaces.” / Hansson, Petra M; Claesson, Per M.; Swerin, Agne; Briscoe, Wuge H; Schoelkopf, Joachim; Gane, Patrick A. C.; Thormann, Esben.
Research output: Contribution to journal – Journal article – Annual report year: 2013 › Research › peer-review

“Hyaluronan and phospholipid association in biolubrication.” / Wang, Min; Liu, Chao; Thomann, Esben; Dedinaite, Andra.
Research output: Contribution to journal – Journal article – Annual report year: 2014 › Research › peer-review

“Hydrophobic pore array surfaces: Wetting and interaction forces in water/ethanol mixtures.” / Hansson, Petra M.; Hormozan, Yashar; Brandner, Birgit D.; Linnros, Jan; Claesson, Per; Swerin, Agne; Schoelkopf, Joachim; Gane, Patrick A.C.; Thormann, Esben.
Research output: Contribution to journal – Journal article – Annual report year: 2013 › Research › peer-review

“Hydrophobic Surfaces: Topography Effects on Wetting by Supercooled Water and Freezing Delay.” / Heydari, Golrokh; Thomann, Espen; Järn, Mikael; Tyrode, Eric; Claesson, Per.
Research output: Contribution to journal – Journal article – Annual report year: 2013 › Research › peer-review

“Low friction and high load bearing capacity layers formed by cationic-block-non-ionic bottle-brush copolymers in aqueous media.” / Liu, Xiaoyan; Thomann, Esben; Dedinaite, Andra; Rutland, Mark; Visnveksij, Ceslav; Makuska, Ricardas; Claesson, Per M.
Research output: Contribution to journal – Journal article – Annual report year: 2013 › Research › peer-review

“Negative friction coefficients.” / Thomann, Esben.
Research output: Contribution to journal – Journal article – Comment/debate – Annual report year: 2013 › Research

“Note: Determination of torsional spring constant of atomic force microscopy cantilevers: Combining normal spring constant and classical beam theory.” / Álvarez-Asencio, R.; Thomann, Esben; Rutland, M.W.
Research output: Contribution to journal – Journal article – Annual report year: 2013 › Research › peer-review

“Quartz Crystal Microbalance with Dissipation (QCM-D) studies of the viscoelastic response from a continuously growing grafted polyelectrolyte layer.” / Álvarez-Asencio, R.; Thomann, Esben; Dedinaite, Andra.
Research output: Contribution to journal – Journal article – Annual report year: 2014 › Research › peer-review

“Sustained frictional instabilities on nanodomed surfaces: Stick-slip amplitude coefficient.” / Quignon, Benoit; Pilkington, Georgia A.; Thomann, Esben; Claesson, Per M.; Ashfold, Michael N R; Mattia, Davide; Leese, Hannah; Davis, Sean A.; Briscoe, Wuge H.
Research output: Contribution to journal – Journal article – Annual report year: 2014 › Research › peer-review
Tribological Properties Mapping: Local Variation in Friction Coefficient and Adhesion. / Álvarez-Asencio, Rubén; Pan, Jinshan; Thormann, Esben; Rutland, Mark W.
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Aggregation of Modified Celluloses in Aqueous Solution: Transition from Methylcellulose to Hydroxypropylmethylcellulose Solution Properties Induced by a Low-Molecular-Weight Oxyethylene Additive. / Bodvik, Rasmus; Karlson, Leif; Edwards, Katarina; Eriksson, Jonny; Thormann, Esben; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Attractive double-layer forces and charge regulation upon interaction between electrografted amine layers and silica. / Dunér, Gunnar; Iruthayaraj, Joseph; Daasbjerg, Kim; Pedersen, Steen Uttrup; Thormann, Esben; Dedinaite, Andra.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Effect of Surface Depressions on Wetting and Interactions between Hydrophobic Pore Array Surfaces. / Hansson, Petra M.; Hormozan, Yashar; Brandner, Birgit D.; Linros, Jan; Claesson, Per M.; Swerin, Agne; Schoelkopf, Joachim; Gane, Patrick A. C.; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Electrostatically Anchored Branched Brush Layers. / Liu, Xiaoyan; Dedinaite, Andra; Rutland, Mark; Thormann, Esben; Vinsnevski, Ceslav; Makuska, Ricardas; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Embedded proteins and sacrificial bonds provide the strong adhesive properties of gastroliths. / Thormann, Esben; Mizuno, Hiroyasu; Jansson, Kjell; Hedin, Niklas; Fernández, M. Soledad; Arias, José Luis; Rutland, Mark W.; Pai, Ranjith Krishna; Bergström, Lennart.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Hyaluronan and phospholipids in boundary lubrication. / Liu, Chao; Wang, Min; An, Junxue; Thormann, Esben; Dedinaite, Andra.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Influence of Surface Topography on the Interactions between Nanostructured Hydrophobic Surfaces. / Hansson, Petra M.; Swerin, Agne; Schoelkopf, Joachim; Gane, Patrick A. C.; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Structural and Nanomechanical Properties of Paperboard Coatings Studied by Peak Force Tapping Atomic Force Microscopy. / Sababi, Majid; Kettle, John; Rautkoski, Hille; Claesson, Per M.; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Temperature-Dependent Competition between Adsorption and Aggregation of a Cellulose Ether - Simultaneous Use of Optical and Acoustical Techniques for Investigating Surface Properties. / Bodvik, Rasmus; Macakova, Lubica; Karlson, Leif; Thormann, Esben; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Amontonian frictional behaviour of nanostructured surfaces. / Pilkington, Georgia A.; Thormann, Esben; Claesson, Per M.; Fuge, Gareth M.; Fox, Oliver J. L.; Ashfold, Michael N. R.; Leese, Hannah; Mattia, Davide; Briscoe, Wuge H.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Amontonian Friction Induced by Flexible Surface Features on Microstructured Silicon. / Thormann, Esben; Yun, Sang Ho; Claesson, Per M.; Linros, Jan.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Interfacial properties and applications of polymer-grafted nanoparticles. / Saigal, Trishna; Alvarez, Nicolas J.; Duner, Gunnar; Anna, Shelley L.; Walker, Lynn M.; Matyjaszewski, Krzysztof; Dedinaite, Andra; Thormann, Esben; Claesson, Per; Tilton, Robert D.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Layer-by-Layer Assemblies of Chitosan and Heparin: Effect of Solution Ionic Strength and pH. / Lundin, Maria; Solaqa, Faten; Thormann, Esben; Macakova, Lubica; Blomberg, Eva.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Robust Hydrophobic Surfaces Displaying Different Surface Roughness Scales While Maintaining the Same Wettability. / Hansson, Petra M.; Skedung, Lisa; Claesson, Per M.; Swerin, Agne; Schoelkopf, Joachim; Gane, Patrick A. C.; Rutland, Mark W.; Thormann, Esben.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Temperature-dependent adsorption of cellulose ethers on silica and hydrophobized silica immersed in aqueous polymer solution. / Bodvik, Rasmus; Thormann, Esben; Karlson, Leif; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Temperature responsive surface layers of modified celluloses. / Bodvik, Rasmus; Thormann, Esben; Karlson, Leif; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Toward Homogeneous Nanostructured Polyaniline/Resin Blends. / Jafarzadeh, Shadi; Thormann, Esben; Rönnevall, Ted; Adhikari, Arindam; Sundell, Per-Erik; Pan, Jinshan; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Effect of local curvature on the interaction between hydrophobic surfaces. / Hansson, P.M.; Swerin, A.; Thomann, E.; Claesson, Per; Schoelkopf, J.; Gane, P.A.C.
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Friction in aqueous media tuned by temperature-responsive polymer layers. / Dedinaite, Andra; Thomann, Esben; Olanya, Geoffrey; Claesson, Per M.; Nyström, Bo; Kjønksen, Anna-Lena; Zhu, Kaizheng.
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Letter to the Editor: Friction between Surfaces - Polyacrylic Acid Brush and Silica - Mediated by Calcium Ions. / Dunér, Gunnar; Thomann, Esben; Ramström, Olof; Dedinaite, Andra.
Research output: Contribution to journal › Comment/debate – Annual report year: 2010 › Research › peer-review

Probing material properties of polymeric surface layers with tapping mode AFM: Which cantilever spring constant, tapping amplitude and amplitude set point gives good image contrast and minimal surface damage? / Thomann, Esben; Pettersson, Torbjörn; Kettle, John; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Protein interactions with bottle-brush polymer layers: Effect of side chain and charge density ratio probed by QCM-D and AFM. / Olanya, Geoffrey; Thomann, Esben; Varga, Imre; Makuška, Ricardas; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Tuning structural forces between silica surfaces by temperature-induced micellization of responsive block copolymers. / Thomann, Esben; Claesson, Per M.; Mouritsen, Ole G.
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Force Pulling of Single Cellulose Chains at the Crystalline Cellulose–Liquid Interface: A Molecular Dynamics Study. / Bergenstråhle, Malin; Thomann, Esben; Nordgren, Niklas; Berglund, Lars A.
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research

How to measure forces with atomic force microscopy without significant influence from nonlinear optical lever sensitivity. / Thomann, Esben; Pettersson, Torbjörn; Claesson, Per M.
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Enkeltmolekyletagfat. / Mouritsen, Ole G.; Thomann, Esben; Cohen Simonsen, Adam.
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Communication

Force trace hysteresis and temperature dependence of bridging nanobubble induced forces between hydrophobic surfaces. / Thomann, Esben; Simonsen, Adam C.; Hansen, Per L.; Mouritsen, Ole G.