

## Prof Clive Prestidge

### Refereed Journal Articles

#### 2011

- 1 Yao-Da Dong, I. Larson, T. Barnes, C.A. Prestidge, B. Boyd "Adsorption of non-lamellar nanostructured liquid crystalline particles to bio-relevant surfaces for improved delivery of bioactive compounds" *ACS Applied Materials & Interfaces* 3(5) 1771-1780, 2011.
- 2 M. D. Kurkuri, F. Al-Ejeh, Jun Yan Shi, D. Palms, C. A. Prestidge, H. J. Griesser, M. P. Brown and B. Thierry, "Plasma functionalized PDMS microfluidic chips: towards point-of-care capture of circulating tumor cells, *Journal of Materials Chemistry*, 21, 8841–8848, 2011
- 3 S. Simovic, N. Ghouchi Eskandar, M.S. Aw, D. Losic and C.A. Prestidge, "Silica Materials in Drug Delivery Applications", *Current Drug Discovery Technologies*, 8 (3), 250-268, 2011
- 4 Li Hui Lim, A. Tan, S. Simovic, C.A. Prestidge, "Silica-lipid hybrid microcapsules: Influence of lipid and emulsifier type on in vitro performance", *Int J. Pharmaceutics*, 409 297–306, 2011
- 5 A. Tan, A.K. Davey, C.A. Prestidge, Silica-lipid hybrid (SLH) versus non-lipid formulations for optimising the dose-dependent oral absorption of celecoxib, *Pharmaceutical Research*, 28 2273–2287 2011
- 6 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Interactions of hydrophilic silica nanoparticles and classical surfactants at non-polar oil-water interface", *J. Colloid Interface Science* , 358, 217-225, 2011
- 7 S. Simovic, N. Ghouchi Eskandar, C. A. Prestidge, "Pickering emulsions for dermal delivery", *J. Drug Delivery Science and Technology* 21(1), 123-133, 2011
- 8 Timothy J. Barnes, Ivan M. Kempson, C. A. Prestidge, "Surface analysis for compositional, chemical and structural imaging in pharmaceuticals with mass spectrometry: A ToF-SIMS perspective", *Int J. Pharmaceutics*, 417, 61-69, 2011.

#### 2010

- 9 Kempson, A. Martin, J. Denman, P. French, C.A. Prestidge, T. Barnes, "Detecting the presence of Denatured Human Serum Albumin in an Adsorbed Protein Monolayer using TOF-SIMS", *Langmuir* , 26(14), 12075–12080, 2010
- 10 K. Jarvis, T. Barnes and C.A. Prestidge, "Thermal oxidation for controlling Protein Interaction with Porous Silicon" *Langmuir*, 2010, 26(17), 14316–14322
- 11 S. Parimi, T. Barnes, D. Callen, C.A. Prestidge, "Mechanistic Insight into Cell Growth, Internalization, and Cytotoxicity of PAMAM Dendrimers" *Biomacromolecules*, 11, 382-389, 2010
- 12 V.J. Mohanraj, T.J. Barnes, C.A. Prestidge, "Silica Nanoparticle Coated Liposomes: A New Type of Hybrid Nanocapsule for Proteins", *Int J. Pharmaceutics*, 392, 285-293, 2010

- 13 A. Tan, S. Simovic, A.K. Davey, B. Boyd, T. Rades, C.A. Prestidge, "Silica Nanoparticles to Control the Lipase-Mediated Digestion of Lipid-Based Oral Delivery Systems", *Molecular Pharmaceutics*, 7, 522-532, 2010
- 14 A.K. Panda, K. Vasilev, S. Orgeig, C.A. Prestidge, "Thermodynamic and structural studies of mixed monolayers: mutual mixing of DPPC and DPPG with DoTAP at the air-water interface", *Materials Science & Engineering C.*, 30, 542–548, 2010
- 15 F. Wang, H. Hui, T.J. Barnes, C. Barnett and C.A. Prestidge, Oxidized Mesoporous Silicon Microparticles for Improved Oral Delivery of Poorly Soluble Drugs, *Molecular Pharmaceutics*, 7, 227- 236, 2010
- 16 S. Simovic, P. Heard, H. Hui, Y. Song, A. Davey, T. Rades, C.A. Prestidge "An oral delivery system for Indomethacin engineered from cationic lipid emulsions and silica nanoparticles" *Journal of Controlled Release*, 143, 367–373, 2010
- 17 S. Simovic, P. Heard, C. A. Prestidge, "Hybrid lipid-silica microcapsules engineered by phase coacervation of Pickering emulsions", *Physical Chemistry and Chemical Physics*, 12, 7162 – 7170, 2010
- 18 I. Kempson, T. Barnes and C.A. Prestidge, "Use of ToF-SIMS to study adsorption and loading behaviour of methylene blue and papain in a porous silicon layer", *Journal of the American Society for Mass Spectrometry.*, 21, 254 –260, 2010
- 19 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Mechanistic insight into the dermal delivery from nanoparticle-coated submicron O/W emulsions" *J. Pharmaceutical Sci.*, 99: 890–904, 2010

## **2009**

- 20 S. Simovic, P. Heard, H. Hui, Y. Song, F. Peddie, A. Davey, A. Lewis, T. Rades, C.A. Prestidge "Dry hybrid lipid-silica microcapsules engineered from submicron lipid droplets and nanoparticles as a novel delivery system for poorly soluble drugs" *Molecular Pharmaceutics*, 6 (3), 861-872, 2009
- 21 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Nanoparticle coated submicron emulsions: Sustained in-vitro release and improved dermal delivery of all-trans-retinol", *Pharmaceutical Research*, 26, 1764-1775, 2009
- 22 A. Tan, S. Simovic, A.K. Davey, T. Rades, C.A. Prestidge, "Silica-lipid hybrid (SLH) microcapsules: a novel oral delivery system for poorly soluble drugs", *Journal of Controlled Release*, 134, 62-70, 2009
- 23 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Chemical stability and phase distribution of all-trans-retinol in nanoparticle coated emulsions", *Int J. Pharmaceutics*, 376, 186-194, 2009
- 24 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Nanoparticle Coated Emulsions as Novel Dermal Delivery Vehicles", *Current Drug Delivery*, 6, 367-373 2009
- 25 Y. Er, T. Barnes, D. Fornasiero C. A. Prestidge, "The Encapsulation and Release of Guanosine from PEGylated Liposomes", *Journal of Liposome Research*, 19(1), 29-36, 2009

## **2008-1988**

- 26 S. Parimi, T. Barnes, C.A. Prestidge. "PAMAM dendrimer interactions with supported lipid bilayers: A kinetic and mechanistic investigation" *Langmuir*, 24 (23), 13532-13539, 2008
- 27 T. Barnes, I. Ametov, C.A. Prestidge, "Naphthalene sulphonate functionalized dendrimers at the solid-liquid interface: Influence of core type, ionic strength and competitive ionic adsorbates", *Langmuir*, 24, 12398-12404, 2008
- 28 K. Jarvis, T. Barnes and C.A. Prestidge, "Aqueous and thermal oxidation of porous silicon microparticles: Implications on molecular interactions" *Langmuir*, 24 (24) , 14222-14226, 2008
- 29 Y. Saiki, R.G. Horn and C. A. Prestidge, "Rheological Transition of Concentrated Emulsions during Successive Shearing Cycles", *J. Colloid Interface Science*, 327 (2), 440-445, 2008
- 30 L. Britcher, T.J. Barnes, H.J. Griesser, and C.A. Prestidge, "PEGylation of Porous Silicon Using Click Chemistry", *Langmuir*, 24 (15), 7625-7627, 2008
- 31 C. A. Prestidge, T. J. Barnes, A. Mierczynska-Vasilev, I. Kempson, F. Peddie and C. Barnett, "Peptide and Protein Loading into Porous Silicon Wafers", *Phys. Stat. Sol. (a)*, 205, 311-315, 2008
- 32 K. Jarvis, T. Barnes, A. Badalyan, P. Pendleton, C.A. Prestidge, "The impact of thermal oxidation on the adsorptive properties and structure of porous silicon particles" *Journal of Physical Chemistry C*, 112, 9717-9722, 2008
- 33 S. Simovic and C. A. Prestidge, "Colloidosomes from the controlled interaction of submicron triglyceride droplets and hydrophilic silica nanoparticles", *Langmuir*, 24, 7132-7137, 2008
- 34 Y. Saiki, R.G. Horn and C. A. Prestidge, "Droplet Structure Instability in Concentrated Emulsions", *J. Colloid Interface Science*, 320, 569-574, 2008
- 35 T. J. Barnes, I. Ametov and C. A. Prestidge, "Dendrimer adsorption on charged particulate surfaces", *Asia-Pacific Journal of Chemical Engineering*, 3, 13-17, 2008
- 36 N. Ghouchi Eskandar, S. Simovic and C. A. Prestidge, "Synergistic Effect of Silica Nanoparticles and Charged Surfactants in the Formation and Stability of Submicron Oil-in-Water Emulsions", *Physical Chemistry and Chemical Physics*, 9 (48), 6426-6434, 2007
- 37 C. A. Prestidge, T. J. Barnes, W. Skinner, "ToF-SIMS for the Surface Characterization of Solid State Pharmaceuticals", *Pharmacy and Pharmacology*, 59, 251-259, 2007
- 38 C. A. Prestidge, T. J. Barnes, A. Mierczynska-Vasilev, W. Skinner, F. Peddie, and C. Barnett, "Loading and Release of a Model Protein from Porous Silicon Powders", *Phys. Stat. Sol. (a)* 204, 3361-3366, 2007
- 39 S. Simovic and C. A. Prestidge, "Nanoparticle Layers Controlling Drug Release from Emulsions", *European J. of Pharmaceutics and Biopharmaceutics*, 66, 39-47, 2007
- 40 C.A. Prestidge, T. Barnes; L. Canham; A. Loni; C.H. Lau, C. Barnett, M. Parry-Billings, "Mesoporous Silicon: A Platform for Delivery of Therapeutics", *Expert Opinion on Drug Delivery*, 4(2), 101-110, 2007

- 41 Y. Saiki, C.A. Prestidge and R. G. Horn, "Effects of Droplet Deformability on Emulsion Rheology", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 299, 65-72, 2007
- 42 C.A. Prestidge and S. Simovic, "Nanoparticle Encapsulation of Emulsion Droplets", *Int. J. Pharmaceutics*, 324, 92-100, 2006
- 43 K. E. Bremmell, A. Evans and C. A. Prestidge, "Deformation and Nano-Rheology of Red Blood Cells: An AFM Investigation", *Colloids and Surfaces B: Biointerfaces*, 50, 43-48, 2006
- 44 N. Markovic, S. Agotonovic-Kustrin, B. Glass and C. A. Prestidge, "Physical and thermal characterisation of chiral omeprazole sodium salts", *Journal of Pharmaceutical and Biomedical Analysis*, 42, 25-31, 2006
- 45 Y. Saiki and C. A. Prestidge, "Droplet Deformability and Emulsion Rheology: Steady and Dynamic Behavior", *Korean and Australian Journal of Rheology*, 17, 191-198, 2005
- 46 G. Gillies and C.A. Prestidge, "A Colloid Probe AFM Investigation of the Influence of Cross-linking on the Interaction Behavior and Nano-Rheology of Colloidal Droplets", *Langmuir*, 21, 12342-12347, 2005
- 47 S. Simovic and C. A. Prestidge, "Nanoparticles at the PDMS Droplet Water Interfaces", *Australian Journal of Chemistry*, 58, 664-666, 2005
- 48 T. Muster and C. A. Prestidge, "Water Adsorption Kinetics Studies of Pharmaceutical Powders", *J. Pharm. Sci.*, 94, 861-872, 2005
- 49 C.A. Prestidge, T.J Barnes and Y. Er, "Current Trends in Liposomal Drug Delivery Systems", 2005, *Drug Delivery Comp. Rep.*, 1, 6-12, 2005
- 50 Y. Er, C.A. Prestidge and D. Fornasiero, "Total Internal Reflectance Infra Red Studies of Liposome Adsorption at the Solid Liquid Interface", *Colloids and Surfaces B: Biointerfaces*, 36, 147-153, 2004.
- 51 S. Simovic and C. A. Prestidge, "Nanoparticle of Varied Hydrophobicity at the Emulsion Droplet-Water Interface: Adsorption and Coalescence", *Langmuir*, 20, 8357-8365, 2004
- 52 Ametov and C. A. Prestidge, "Rheological Investigations of the Hydrophobic Force in Concentrated Suspensions", *J. Phys. Chem. B*, 108, 12116-12122, 2004
- 53 C. A. Prestidge, T. Barnes and S. Simovic, "Polymer and Particle Adsorption at the PDMS Droplet-Water Interface", *Adv. Colloid Interface Sci*, 108-109, 105-118, 2004
- 54 G. S. Gillies, C. A. Prestidge, "Interaction Forces, Deformation and Nano-Rheology of Emulsion Droplets as Determined by Colloid Probe AFM", *Adv. Colloid Interface Sci*, 108-109, 197-205, 2004
- 55 S. Simovic and C. A. Prestidge, "Hydrophobic Silica Nanoparticles at the PDMS Droplet-Water Interface", *Langmuir*, 19, 8364-8370, 2003
- 56 S. Simovic and C. A. Prestidge, "Hydrophilic Silica Nanoparticles at the PDMS Droplet-Water Interface", *Langmuir*, 19, 3785-3792, 2003

- 57 Y. K. Coh, C. A. Prestidge, I. Ametov, B. R. Saunders, "Temperature Induced Gelation of Emulsions Stabilised by Responsive Polymer: A Rheological Study", *Physical Chemistry and Chemical Physics*, 4, 96-102, 2002
- 58 G. Gillies, C. A. Prestidge and P. Attard, "An AFM Study of the Deformation and Nanorheology of Cross-Linked PDMS Droplets", *Langmuir*, 18 (5), 1674-1679, 2002
- 59 T. H. Muster and C. A. Prestidge, "The Application of Time Dependent Sessile Drop Contact Angles on Compact to Characterise the Surface Energetics of Sulfathiazole Crystals", *Int. J. Pharm.*, 234 (1-2), 43-54, 2002
- 60 T. H. Muster and C. A. Prestidge, "Face Specific Surface Properties of Pharmaceutical Crystals", *J. Pharm. Sci.*, 91 (6), 1432-1444, 2002
- 61 J. Addai-Mensah, J. Li and C. A. Prestidge, "The Structure and Interaction of Species in Supersaturated Caustic Aluminate Solutions", *Dev. Chem. Eng. Mineral Process.*, 10(5/6), 541-554, 2002
- 62 J. Addai-Mensah, J. Li and C. A. Prestidge, "Aggregation Behaviour of Gibbsite Crystals in Supersaturated Sodium and Potassium Aluminate Solutions", *Dev. Chem. Eng. Mineral Process.*, 10(5/6), 527-539, 2002
- 63 J. Li, C. A. Prestidge and J. Addai-Mensah, "Second Virial and Viscosity Coefficients, Molar Masses and Volumes of Species in Dilute, Caustic Alumina Solutions" *J. Chem. Eng. Data*, 2002
- 64 P. Bandini, C. A. Prestidge and J. Ralston, "Colloidal Iron Oxide Slime Coatings and Galena Particle Flotation" *Minerals Engineering*, 14, 5, 487-497, 2001
- 65 T. Muster and C. A. Prestidge, "Water Adsorption Kinetics and Contact Angles of Silica Particles", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 176, 253-266, 2001
- 66 M. S. Morey, S.R. Grano, J. Ralston, C.A. Prestidge, B. Verity, "The Electrochemistry of Pb (II) Activated Sphalerite in Relation to Flotation", *Minerals Engineering* 14, 1009-1017, 2001
- 67 G. Gillies, C. A. Prestidge and P. Attard, "Determination of Separation in Colloid Probe Atomic Force Microscopy of Deformable Bodies", *Langmuir*, 17, 7955-7956, 2001
- 68 C. A. Prestidge and G. Tsatouhas, "Wettability of Morphine Sulphate Powders", *Int. J. Pharm.*, 198/2, 201-212, 2000
- 69 J. Li, C. A. Prestidge and J. Addai-Mensah, "The Influence of Alkali Metal Ions on Homogeneous Nucleation of Al(OH)<sub>3</sub> Crystals from Supersaturated Caustic Aluminate Solutions". *J. Colloid and Interface Sci.*, 224, 317-324, 2000
- 70 C. A. Prestidge and I. Ametov, "Cation Effects during Aggregation and Agglomeration of Gibbsite Particles under Synthetic Bayer Crystallisation Conditions" *J. Crystal Growth*, 209, 924-933, 2000
- 71 T. Barnes and C. A. Prestidge, "PEO-PPO-PEO Block Copolymers at the Emulsion Droplet-Water Interface", *Langmuir*, 16, 4116-4121, 2000

- 72 J. Li, C. A. Prestidge and J. Addai-Mensah, "Viscosity, Density and Refractive Index of Sodium and Potassium Aluminate Solutions", *J. Chem. Eng. Data*, 45/4, 665-671, 2000
- 73 S. Kapsabelis and C. A. Prestidge, "Adsorption of EHEC onto Silica Particles: the Role of Surface Chemistry and Temperature", *J. Colloid and Interface Sci.*, 228, 296-305, 2000
- 74 J. Li, C. A. Prestidge and J. Addai-Mensah, "Secondary Nucleation of Gibbsite Crystals from Synthetic Bayer Liquors: Effect of Alkali Metal Ions", *J. Crystal Growth*, 219, 451-464, 2000
- 75 C. A. Prestidge, "Rheological investigations of DLVO and non-DLVO Particle Interactions in Concentrated Mineral Suspensions", *Minerals Processing and Extractive Metallurgy Reviews*, 20, 57-74, 1999
- 76 J. Addai-Mensah, C. A. Prestidge, J. Ralston, "Interparticle Forces, Interfacial Structure Development and Agglomeration of Gibbsite Particles from Synthetic Bayer Liquors", *Minerals Engineering*, 12, 655-669, 1999
- 77 D. Harris, R. Keir, C. A. Prestidge and J. Thomas, "Dynamic Light Scattering Investigations of Nucleation and Growth in Synthetic Bayer Liquors", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 154, 343-352, 1999
- 78 C. A. Prestidge, J. Addai-Mensah, I. Ametov, "Rheological Investigations of Gibbsite Particle Interactions in Synthetic Bayer Liquors", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 157, 137-14, 1999
- 79 J. Addai-Mensah, A. Gerson, C. A. Prestidge, I. Ametov and J. Ralston, "Interactions between Gibbsite Crystals in Supersaturated Caustic Aluminate Solutions", *Light Metals*, 1, 159-166, 1998
- 80 J. Addai-Mensah, J. Dawe, R. A. Hayes, C. A. Prestidge and J. Ralston, "The Unusual Colloid Stability of Gibbsite at high pH", *J. Colloid Interface Sci.*, 203, 115-121, 1998
- 81 C.A. Prestidge, W.M. Skinner, J. Ralston and R.St.C. Smart, Copper (II) Activation and Cyanide Deactivation of Zinc Sulphide Under Mildly Alkaline Conditions. *Appl. Surface Sci.*, 108(3), 333-34 1997
- 82 S.R. Grano, M. Sollart, W.M. Skinner, C.A. Prestidge and J. Ralston, Surface Modifications in the Chalcopyrite-Sulphite Ion System, I. Collectorless Flotation, XPS and Dissolution Study. *Int. J. Miner. Process.*, 50 (1-2), 1-26, 1997
- 83 S.R. Grano, H. Cnollsen, W.M. Skinner, C.A. Prestidge and J. Ralston, Surface Modifications in the Chalcopyrite-Sulphite Ion System, II. Dithiophosphate Collector Adsorption Study. *Int. J. Miner. Process.*, 50 (1-2), 27-45, 1997
- 84 C. A. Prestidge, "Rheological Investigations of Galena Particle Interactions", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 126, 75-83, 1997
- 85 S. R. Grano, C. A. Prestidge and J. Ralston, "Sulphite Modification of Galena Surfaces and its Effects on Galena Flotation and Xanthate Adsorption", *Int. J. Miner. Process.*, 52, 1-29, 1997
- 86 C. A. Prestidge, "Rheological Investigations of Ultrafine Galena Particle Slurries Under Flotation Related Conditions", *Int. J. Miner. Process.*, 51, 241-254, 1997

- 87 S. R. Grano, C. A. Prestidge and J. Ralston, "Solution Interaction of Ethyl Xanthate and Sulphite and its Effects on Galena Flotation and Xanthate Adsorption", *Int. J. Miner. Process*, 52, 161-186, 1997
- 88 C. A. Prestidge and W. N. Rowlands, "Electroacoustic Measurements of Sulfide Mineral Particles", *Minerals Engineering*, 10, (10), 1107-1118, 1997
- 89 T.H. Muster, G. Toikka, R.A. Hayes, C.A. Prestidge and J. Ralston, Interparticle Interactions Between Zinc Sulphide Particles Under Flotation Related Conditions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 106, 203-211, 1996
- 90 C.A. Prestidge and J. Ralston, Contact Angle Studies of Particulate Sulphide Minerals. *Minerals Eng.*, 9, 85-102, 1996
- 91 W.M. Skinner, C.A. Prestidge and R.St.C. Smart. Irradiation Effects During XPS analysis of Copper (II) Activated Zinc Sulphide. *Surface and Interface Analysis*, 24, 620-626 1996
- 92 B.S. Kim, R.A. Hayes, C.A. Prestidge, J. Ralston and R.St.C. Smart. In-situ Scanning Tunnelling Microscopy Studies of Galena Surfaces Under Flotation Related Conditions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 117, 117-129, 1996
- 93 T.V. Subrahmanyam, C.A. Prestidge and J. Ralston, Contact Angle and Surface Analysis Studies of Sphalerite Particles. *Minerals Engineering*, 9(7), 727-741 1996
- 94 C.A. Prestidge and J. Ralston, Powder Contact Angles Studies of Ethyl Xanthate Treated Galena. *J. Colloid and Interface Sci.*, 184 , 512-519, 1996
- 95 C.A. Prestidge and J. Ralston, Powder Contact Angles Studies of Galena Particles. *J. Colloid Interface Sci.*, 172, 302-310, 1995
- 96 B.S. Kim, R.A. Hayes, C.A. Prestidge, J. Ralston and R.St.C. Smart, STM Studies of Galena: The Mechanism of Oxidation in Aqueous Solution. *Langmuir*, 11, 2554-2562, 1995
- 97 C.A. Prestidge, W. Skinner, J. Ralston and R.St.C. Smart. The Interaction of Iron (III) Species with Galena Surfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 105, 325-339, 1995
- 98 C.A. Prestidge and T.H. Muster, Rheological Investigations of Sulphide Mineral Slurries. *Minerals Eng.*, 8, 1541-1555, 1995
- 99 B.S. Kim, R.A. Hayes, C.A. Prestidge, J. Ralston and R.St.C. Smart, STM Studies of Galena: The Mechanism of Oxidation in Air. *Appl. Surface Sci.* 78, 385-397, 1994
- 100 C.A. Prestidge, J. Ralston and R.St.C. Smart, The Competitive Adsorption of Cyanide and Ethyl Xanthate on Pyrite and Pyrrhotite Surfaces. *Int. J. Miner. Process.*, 38, 205, 1993
- 101 C.A. Prestidge, J. Ralston and R.St.C. Smart, The Role of Cyanide in the Interaction of Ethyl Xanthate with Galena. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 81, 103-119, 1993

- 102 C.A. Prestidge, A.G. Thiel, J. Ralston and R.St.C. Smart, The Interaction of Ethyl Xanthate with Copper (II) Activated Zinc Sulphide: Kinetic Effects. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 85, 51-68, 1994
- 103 T. Cosgrove, C.A. Prestidge, S.M. King and B. Vincent, Fourier Transform Infrared Spectroscopy and Monte Carlo Studies on the Dynamics of Physisorbing and Chemisorbing Polymers. *Langmuir*, 8, 2206-2209, 1992
- 104 T. Cosgrove, C.A. Prestidge and B. Vincent, Chemisorption of Linear and Cyclic Polymethylsiloxanes on Alumina Studied by Fourier Transform Infrared Spectroscopy. *J. Chem. Soc. Faraday Trans.*, 86, 1377-1382, 1990
- 105 C.A. Prestidge and Th.F. Tadros, Rheological Investigation of Depletion Flocculation of Concentrated Sterically Stabilised Polystyrene Latex Dispersions. *Colloids and Surfaces*, 31, 325-346, 1988
- 106 C.A. Prestidge and Th.F. Tadros, Viscoelastic Properties of Aqueous Concentrated Polystyrene Dispersions Containing Grafted Poly(Ethylene Oxide) Chains. *J. Colloid and Interface Sci.*, 124, 660-665, 1988.

#### **Refereed Conference Papers**

- 107 K Jarvis, TJ Barnes and CA Prestidge, "The influence of thermal oxidation on the surface chemical and adsorbent properties of porous silicon" *Academia and Industry Strengthening the Profession, CHEMECA 2007, Conference Proceedings, IChemE*, 374-381, Melbourne, *Academia and Industry Strengthening the Profession, CHEMECA 2007, (M Rhodes Ed), 2007. (ISBN:0 858 25844 7)*
- 108 N Ghouchi Eskandar, S. Simovic, A. Saupe, T. Rades and C. A. Prestidge, "The Influence of Silica Nanoparticles On The Preparation and Stability of O/W Emulsions", *Proceedings of the 2006 International Conference on nanoscience and Nanotechnology, IEEE Publishing Company*, 142-145, Brisbane, *ICONN-2006, (Jagadish and LuEds), 2006*
- 109 I Ametov, TJ Barnes and CA Prestidge, "Atomic Force Microscopy and Dynamic Light Scattering Studies of Dendrimer Aggregation" *Knowledge and Innovation, CHEMECA 2006, Conference Proceedings, IChemE*, 1-6, Auckland, New Zealand, *Knowledge and Innovation, CHEMECA 2006, (B.R Young, D.A Patterson, X.D ChenEds), 2006*
- 110 TJ Barnes, CA Prestidge, A. Mierczynska-Vasilev, I. Kempson, F. Peddie, "Peptide and Protein Loading into Porous Silicon Wafers" *Knowledge and Innovation, CHEMECA 2006, Conference Proceedings, IChemE*, 1-5, Auckland, New Zealand, *Knowledge and Innovation, CHEMECA 2006, (B.R Young, D.A Patterson, X.D ChenEds), 2006*
- 111 I Ametov, T Barnes and CA Prestidge, "Dendrimer Adsorption on Charged Particulate Surfaces" *Knowledge and Innovation, CHEMECA 2006, Conference Proceedings, IChemE*, 1-6, Auckland, New Zealand, *Knowledge and Innovation, CHEMECA 2006, (B.R Young, D.A Patterson, X.D ChenEds), 2006*
- 112 TJ Barnes, I Ametov, and CA Prestidge, "Dendrimer Assembly in Solution and at Interfaces", *Proceedings of the 2006 International Conference on Nanoscience and Nanotechnology, IEEE Publishing Company*, 278-281, Brisbane, *ICONN-2006, (C. Jagadish and M. LuEds), 2006*

- 113 K Jarvis, TJ Barnes, CA Prestidge, A. Badalyan and P. Pendleton, "Porous Silicon - A Nanostructured Delivery System", Proceedings of the 2006 International Conference on Nanoscience and Nanotechnology, IEEE Publishing Company, 536-539, Brisbane, ICONN 2006, (C Jagadish and M. Lu Eds), 2006
- 114 TJ Barnes, Y Er, A Tan, CA Prestidge, and A Evans, "Colloidal stability of lecithin liposomes", CHEMECA 2005: Smart Solutions " "Doing more with less", Brisbane, Australia, 2005, pp. 1-6
- 115 TJ Barnes, Y Er, CA Prestidge and D Fornasiero, "Role of PEG-lipids on the controlled release of a model hydrophilic drug from liposomes", CHEMECA 2005: Smart Solutions " "Doing more with less", Brisbane, Australia, 2005, pp. 1-6
- 116 I Ametov, KE Bremmell, CA Prestidge, "Correlation of Bulk Rheology of Human Blood with Nano-Rheology and Deformability of Individual Erythrocytes", CHEMECA 2005: Smart Solutions " "Doing more with less", Brisbane, Australia, 2005, pp. 1-6
- 117 CA Prestidge and S Simovic, "Nanoparticle coated droplets: a potential drug delivery system", Proceedings of the International Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Germany, 613-614, 2004
- 118 J Addai-Mensah, J Li and CA Prestidge, "Gibbsite Crystallization from Caustic Aluminate Liquors: the Influence of Solution Species and Structure" CHEMECA, Adelaide, 2003
- 119 I Ametov and CA Prestidge and TJ Barnes, "Rheological investigations of emulsion stability", CHEMECA 2003: Products and Processes for the 21st Century, Adelaide, 2003
- 120 S Simovic and CA Prestidge, "Nanoparticle Adsorption at the PDMS Droplet-Water Interface", Proc. World Emulsion Congress, Lyon, France 2002
- 121 GS Gillies, P Attard and CA Prestidge, "Interaction Forces, Deformation and Nano-Rheology of Cross-Linked PDMS Droplets as Determined by Colloid Probe AFM", Proc. World Emulsion Congress, Lyon, France, 2002
- 122 G.S. Gillies, C. A. Prestidge P.J. Attard, (2001), 'Atomic Force Microscopy of Viscoelastic Particles: Theory and Measurement', RACI Australian Colloid and Surface Science Symposium, 3
- 123 C. A. Prestidge, J. Ralston, S.R. Grano (2000), The Adsorption of Dithiophosphate onto Pyrite, I. A UV-visible Spectroscopic Study of Adsorption Kinetics, in Electrochemistry in Mineral and Metal Processing, Toronto, Canada, 14-18 May, 2000
- 124 C. A. Prestidge and I. Ametov, Rheological Investigations of Alumina Crystallization Under Bayer Process Related Conditions, Rheology in the Minerals Industry II, Engineering Foundation, Kahuku, Oahu, Hawaii March 1999, Eds D.V. Boger and J.S. Laskowski, UEF, New York, p.15-24
- 125 J. Addai-Mensah, I. Ametov, J. Ralston, J. & C. A. Prestidge (1999), Particle interactions and surface forces during gibbsite precipitation from Bayer liquors, in Fifth International Alumina Quality Workshop, Bunbury, Australia, 21-26 March, 1999

- 126 J. Addai-Mensah, A. Gerson, C. A. Prestidge and I. Ametov (1998), Interactions between gibbsite crystals in supersaturated caustic aluminate solutions, in Light Metals, San Antonio, Texas, USA, 15-19 February, 1998
- 127 C.A. Prestidge, Rheological Investigations of DLVO and Non-DLVO Particle Interactions in Concentrated Mineral Suspensions. Engineering Foundation Conference and Workshop on "Rheology and Minerals Industry", San Diego, USA, 1997
- 128 C.A. Prestidge, Rheological Investigations of Ultrafine Galena Particles Under Flotation Related Conditions. Engineering Foundation Conference and Workshop on Advanced Surface Analysis for Improved Flotation, Nantali, Finland, 1996
- 129 C.A. Prestidge, T. Cosgrove and B. Vincent, Chemisorption of Linear and Cyclic Polymethylsiloxanes on Alumina Studied by Fourier Transform Infrared Spectroscopy. The 199th Meeting of the American Chemical Society, Boston, Mas., USA, 1990
- 130 C.A. Prestidge and Th.F. Tadros, Rheological Investigation of Depletion Flocculation of Concentrated Sterically Stabilised Polystyrene Latex Dispersions. 11th European Chemistry at Interfaces Conference, Velthoven, The Netherlands, 1988.