

Robert Pelton- Publication List as of 09-11-12

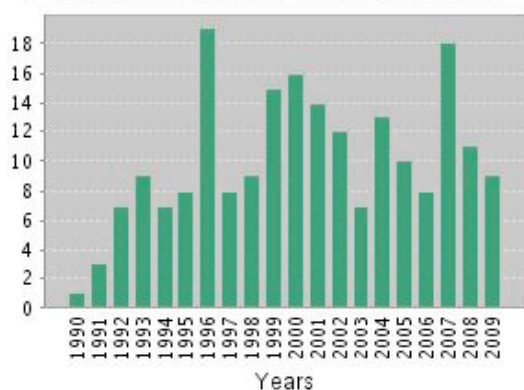
Publication Summary

232	Publications in Refereed Journals
3	Submitted Papers in Refereed Journals
12	Patents granted or Submitted
247	Total

Citation Report Author=(pelton r*) AND Address=(canada) Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI.

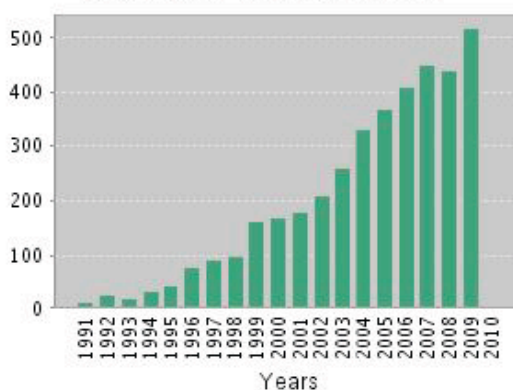
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Publications in refereed journals ([students](#), [PDFs](#), corresponding author, [\[funding source\]](#))

3 Papers submitted to refereed journals:

- **Robert Pelton**, “Poly(N-isopropylacrylamide) is never hydrophobic.” *Macromolecules*, submitted Oct. 2009.
- **Wei Chen, Yuguo Cui** and **Robert Pelton**, “The remarkable adhesion of cellulose hydrogel to polyvinylamine bearing pendant phenylboronic acid.”, *J. Adhesion Science and Technology*, July 2009.

2009 Accepted (3) Published (11)

231 **Robert Pelton**, “The streaming current detector (SCD) – what does it tell us?”, *Appita Journal*, Accepted November 2009. [\[NSERC Discovery\]](#)

230 **Monsur Ali, Sergio D. Aguirre, Yaqin Xu**, Carlos D. M. Filipe, Robert Pelton and **Yingfu Li** Detection of DNA Using Bioactive Paper Strips, *Chemical Communications*, 6640–6642, (2009) [\[SENTINEL Bioactive Paper Network\]](#)

- 229 **Wang, J.; Pelton, R.**; Veldhuis, L.; Mackenzie, C. R.; Hall, J. C.; Filipe, C. D. M., The influence of wet-strength resin on the antibody-based detection on paper. *Appita J.* 2009, accepted July [*SENTINEL Bioactive Paper Network*]
- 228 **Robert Pelton**, ‘Bioactive Paper – a Low Cost Platform for Diagnostics’, *Trends in Analytical Chemistry*, accepted *Trends Anal. Chem.* **2009**, 28, (8), 925-942 [*SENTINEL Bioactive Paper Network*]
- 227 **S.M. Zakir Hossain, Roger Luckham, Anne Marie Smith, Julie Lebert, Lauren Davies**, Robert H. Pelton, Carlos D.M. Filipe and **John D. Brennan**, Development of a Bioactive Paper Sensor for Detection of Neurotoxins Using Piezoelectric Inkjet Printing of Sol-Gel Derived Bioinks, *Analytical Chemistry*, 81, 5474–5483 (2009). [*SENTINEL Bioactive Paper Network*]
- 226 **Yuguo Cui, Robert Pelton**, Terence Cosgrove, Robert Richardson, Sheng Dai, Stuart Prescott, Isabelle Grillo, Howard Ketelson, and David Meadows, “Not All Anionic Polyelectrolytes Complex with DTAB”, *Langmuir*, submitted Feb 2009). [*NSERC CRD with Alcon*]
- 225 **Pelton, R.** Bioactive paper – a paper science perspective, In 14th Fundamental Research Symposium, Oxford, Sampson, W., Ed. Oxford, 2009; 1095-1145. [*SENTINEL Bioactive Paper Network*]
- 224 **Wei Chen**, Hubertus Kroener and **Robert Pelton**, Polyvinylamine-phenylboronic Acid Adhesion to Cellulose Hydrogel”, *Langmuir*, 2009, 25(12), 6863–6868 [*NSERC CRD with BASF*]
- 223 **Shannon Notley, Wei Chen** and Robert Pelton, “The Extraordinary Adhesion Of Phenylboronic Acid Derivatives Of Polyvinylamine To Wet Cellulose – A Colloidal Probe Microscopy Investigation.”, *Langmuir* 25(12), 6898–6904, 2009 [*NSERC CRD with BASF*]
- 222 **Wei Chen, Robert Pelton**, and **Vincent Leung**, “Solution Properties of Polyvinylamine Derivatized with Phenylboronic Acid”, *Macromolecules*, 42(4): 1300-1305 (2009) [*NSERC CRD with BASF*].
- 221 **Rebecca Cademartiri, Michael A. Brook**, Robert Pelton, and John D. Brennan, “Macroporous Silica Using a “Sticky” Stöber Process”, *J. of Materials Chem.*, **2009**, **19** (11), 1583-1592 [*SENTINEL Bioactive Paper Network*]
- 220 **Lucy Ye**, Carlos D. M. Filipe, Mojgan Kavooosi, Charles A. Haynes Robert Pelton, and **Michael A. Brook**, “Immobilization of TiO₂ nanoparticles onto cellulose fibers through bioconjugation”, *J. Materials Chemistry*, 19, 2189–219 (2009)[*Domtar and SENTINEL Bioactive Paper Network*]
- 219 **Xianhua Feng, Dan Zhang** and **Robert Pelton**, “Adhesion to Wet Cellulose – Comparing Adhesive Layer-By-Layer Assembly to Film Casting”, *Holzforschung*, Vol. 63, pp. 28–32 (**2009**) [*NSERC CRD with BASF*]
- 218 **Robert Pelton, Zhen Hu**, Howard Ketelson, and David Meadows, “Reversible flocculation with hydroxypropyl guar-borate, a labile anionic polyelectrolyte.” *Langmuir*, 25, 192-195 (2009). [*NSERC CRD with Alcon*]

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- 217b **Chen, X.**; Qi, Z.; Huang, Y.; Pelton, R.; Ghosh, R., Surfaces modified by amphiphilic copolymer: Preparation and application. *Advanced Materials Research* 2008, 47-50, 1311-1314.
- 217 **Yuguo Cui, Robert Pelton**, and Howard Ketelson, “Shapes of Polyelectrolyte Titration Curves 2: The Deviant Behaviour of Labile Polyelectrolytes”, *Macromolecules*, **2008**, 41, 8198-8203.. [*NSERC CRD with Alcon*]
- 216 **Lucy Ye, Chuanwei Miao**, *Michael A. Brook*, and **Robert Pelton**, “Photo-flocculation of TiO₂ Microgel Mixed Suspensions” *Langmuir* 2008, 24, 9341-9343. [*Domtar*]

- 215 **Xinglian Geng**, Carlos Filipe and **Robert Pelton**, “Antibacterial Paper from Photocatalytic TiO₂”, *Appita Journal*, 61, (6), 456-460 (2008). [*SENTINEL Bioactive Paper Network*]
- 214 **Todd Hoare** and Robert Pelton, Characterizing charge and crosslinker distributions in polyelectrolyte microgels *Current Accounts of Colloid and Interface Science*, 2008, 13, 413–428. [*NSERC Discovery*]
- 213 **W. Zhao, W. Chiuman, J. C. F. Lam, S. A. McManus, W. Chen, Y. Cui**, R. Pelton, M.A. Brook, **Y. Li**, “DNA Aptamer Folding on Gold Nanoparticles: From Colloid Chemistry to Biosensors”, *J. Am. Chem. Soc.* 2008, 130, (11), 3610-3618. [*SENTINEL NSERC Network*]
- 212 **Shunxing Su, Md. Monsur Ali**, Carlos D. M. Filipe, Yingfu Li, **Robert Pelton**, “Microgel-based Inks for Paper-supported Biosensing Applications” *Biomacromolecules*, 2008, 9, (3), 935-941 [*SENTINEL NSERC Network*]
- 211 **Deqiang Yu, Xiaonong Chen**, Robert Pelton, **Raja Ghosh**, “Paper-PEG Based Membranes for Hydrophobic Interaction Chromatography: Purification of Monoclonal Antibody”, *Biotechnology and Bioengineering*, 2008, 99, (6), 1434-1442.
- 210 **Todd Hoare** and Robert Pelton. “Charge-Switching, Amphoteric Glucose-Responsive Microgels with Physiological Swelling Activity”. *J. Am. Chem. Soc.*, 2008, 9, (2), 733-740 [*NSERC Discovery*]
- 209 **Chuanwei Miao**, Marc Leduc, **Robert Pelton**, “The Influence of Polyvinylamine Microgels on Paper Strength.”, *JPPS*, 34(1) 69-75 (2008) [*NSERC CRD with BASF*]
- 208 **Xianhua Feng**, Marc Leduc and **Robert Pelton**, “Polyelectrolyte Complex Characterization with Isothermal Titration Calorimetry and Colloid Titration”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 317: 535-542 (2008). [*NSERC CRD with BASF*]
- 207 **Todd Hoare** and Robert Pelton, “The Impact of Microgel Morphologies on Functional Microgel-Drug Interactions”. *Langmuir* 24,1005-1012 (2008). [*NSERC Discovery*]

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- 206 **Dan Zhang, Laura E. Harrington**, Hiroo Tanaka, and Robert Pelton, “[3-(Propenamido)phenyl]boronic acid” *Acta Crystallographica Section E*, (2007). E63, 4628. [*NSERC Discovery*]
- 205 **Rebecca Voss, Michael A. Brook**, Jordan Thompson, Yang Chen, Robert Pelton and John D. Brennan, “Non-destructive protein immobilization in porous silica nanoparticles”, *Journal of Materials Chemistry*, 2007, 17, 4854 - 4863 [*SENTINEL NSERC Network*]
- 204 **Robert Pelton**, Bernard Cabane, **Yuguo Cui**, and Howard Ketelson, Shapes of Polyelectrolyte Titration Curves 1– Well-Behaved Strong Polyelectrolytes, *J. Analytical Chemistry*, 79, 8114-8117, 2007. [*Alcon Grant*]
- 203 **Todd Hoare** and Pelton, R. “Functionalized Microgel Swelling: Comparing Theory and Experiment”. *J. Phys. Chem. B*, 111, 11895-11906 (2007). [*NSERC Discovery*]
- 202 **Md Monsur Ali, Shunxing Su**, Carlos D. M. Filipe, Robert Pelton and **Yingfu Li**, “Enzymatic Manipulations of DNA Oligonucleotides on Microgel: Towards Development of DNA-Microgel Biosensors”, *Chemical Communications*, 2007, 4459–4461. [*SENTINEL NSERC Network*]
- 201 **Chuanwei Miao**, Xiaonong Chen, **Robert Pelton**, “The Adhesion of Polyvinylamine Microgels to Wet Cellulose”, *Ind. Eng. Chem. Res.* 2007, 46, 6486-6493 [*NSERC CRD with BASF*].
- 200 **Dan Zhang**, Hiroo Tanaka, and **Robert Pelton**, “Polymer Assembly Exploiting Three Independent Interactions”, *Langmuir*, 2007, 23, (17), 8806-8809. [*NSERC discovery*].

- 199 **Xianhua Feng, Kristin Pouw, Vincent Leung, and Robert Pelton**, “Adhesion of Colloidal Polyelectrolyte Complexes to Wet Cellulose”, *Biomacromolecules*, 8(7), 2161-2166 (2007) [*NSERC CRD with BASF*]
- 198 **Chuanwei Miao, Robert Pelton, Xiaonong Chen and Marc Leduc**, “Microgels Versus Linear Polymers For Paper Wet Strength – Size Does Matter”, *Appita*, 60(6) 465-468(2007) [*NSERC CRD with BASF*]
- 197 **Lu Ye, Robert Pelton, Michael A. Brook**, “Biotinylation of TiO₂ Nanoparticles and Their Conjugation with Streptavidin”, *Langmuir* 23 (10): 5630-5637 MAY 8 (2007). [*Domtar*]
- 196 **Malin Eriksson**, Shannon M. Notley, Robert Pelton and **Lars Wågberg**, “The role of polymer compatibility in the adhesion between surfaces saturated with modified dextrans”, *J. Colloid Interface Sci.* 310 (1): 312-320, JUN 1 2007[*NSERC Discovery*].
- 195 **Todd Hoare**, Robert Pelton, “Calorimetric Analysis of Thermal Phase Transitions in Functionalized Microgels”. *J. Phys. Chem. B*, 111, 1334-1342, 2007 [*NSERC Discovery*].
- 194 **Xianhua Feng, Robert Pelton**, “Carboxymethyl Cellulose:Polyvinylamine Complex Hydrogel Swelling”, *Macromolecules*, 40, 1624-1630 (2007) [*NSERC CRD with BASF*]
- 193 **Xianhua Feng, Robert Pelton**, Marc Leduc and Simon Champ, “Colloidal Complexes from Polyvinylamine and Carboxymethyl Cellulose Mixtures”, *Langmuir*, 23, 2970-2976 (2007) [*NSERC CRD with BASF*].
- 192 **Todd Hoare**, Robert Pelton, “Engineering Glucose Swelling Responses in Poly(N-isopropylacrylamide)-Based Microgels”. *Macromolecules*, 40, 670-678 (2007).[*NSERC Discovery*].
- 191 **John-Louis DiFlavio, Robert Pelton**, Marc Leduc, Simon Champ, Manfred Essig, and Tomas Frechen, “The role of mild TEMPO-NaBr-NaClO oxidation on the wet adhesion of cellulose with polyvinylamine”, *Cellulose*, 14:257–268 (2007). [*NSERC CRD with BASF*].
- 190 **Shunxing Su, Razvan Nutiu**, Carlos D. M. Filipe, Yingfu Li, **Robert Pelton**, “Adsorption and Covalent Coupling of an ATP-binding DNA Aptamers onto Cellulose”, *Langmuir*, 23, 1300-1302 (2007). [*SENTINEL NSERC network*]
- 189 Masayoshi Tanaka, Hiroo Tanaka and **Robert Pelton**, “Amine-Derivatized Poly(diallyldimethylammonium chloride) from N-vinylformamide Copolymerization” *J. Appl. Polym. Sci.* Vol. 104, 1068–1075 (2007) [*NSERC Discovery*]

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- 188 **Robert Pelton, Xinglian Geng**, Michael Brook, “Photocatalytic Paper from Colloidal TiO₂ – Fact or Fantasy”, *Adv. Colloid Interface Sci.* 127 (2006) 43–53 (2006). [*SENTINEL NSERC network*]
- 187 **Xiaonong Chen** and Robert Pelton, “Pre-Adsorption of Amphiphilic Polymers on Synthetic Surfaces for Biofouling Retardation”, *Adv. Materials Research* 11(12) 363-366, (2006). [*Alcon*]
- 186 **Xianhua Feng, Robert Pelton** and Marc Leduc, “Mechanical Properties of Polyelectrolyte Complex Films Based on Polyvinylamine and Carboxymethyl Cellulose”, *Industrial and Engineering Chem. Res.* 45, 6665-6671 (2006). [*NSERC CRD with BASF*].
- 185 **Todd Hoare** and Robert Pelton, “Dimensionless Plot Analysis: A New Way to Analyze Functionalized Microgels.” *Journal of Colloid and Interface Science*, 303, 109–116 (2006). [*NSERC Discovery*].
- 184 **Todd Hoare** and Robert Pelton, "Titrametric Investigation of pH-Induced Phase Transitions in Functionalized Microgels". *Langmuir*, 2006, 22, 7342-7350 (2006) [*NSERC Discovery*].

- 183 **Yi Wang, Xiaonong Chen and Robert Pelton**, “Interactions of Hydrophobically Modified Polyvinylamine with Pluronic Tri-block Copolymer Micelles”, *Langmuir*, **22**, 4952-4958 (2006) [*NSERC CRD with BASF*]
- 182 **Shunxing Su and Robert Pelton**, “Bovine Serum Albumin (BSA) as an Adhesive for Wet Cellulose” *Cellulose*, **13**, 537–545 (2006) [*Buckman Laboratories*].
- 181 **Wei Chen, Chen Lu, and Robert Pelton**, “Polyvinylamine Boronate Adhesion to Cellulose Hydrogel”, *Biomacromolecules*, **7**(3) 701-702, (2006) [*NSERC CRD with BASF*].
- 180 **Boxin Zhao, Lulu Bursztyn and Robert Pelton**, “A Simple Approach for Quantifying the Thermodynamic Potential of Polymer-Polymer Adhesion”, *J. of Adhesion*, **82**:121–133, (2006). [*NSERC Discovery*].

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- 179 **Xiaonong Chen, Yi Wang, Robert Pelton**, “pH-Dependence of the Properties of Hydrophobically Modified Polyvinylamine”, *Langmuir* **21**, 11673- 11677 (2005) [*NSERC CRD with BASF*].
- 178 **Yaling Xu, Xiaonong Chen and Robert Pelton**, “On How Polymers Strengthen Filled Papers” *Tappi*, **4**(11) 8-12 (2005) [*NSERC CRD with Mintech*]
- 177 **Chen Lu, Leopold Kostanski, Howard Ketelson, David Meadows, Robert Pelton**, “Hydroxypropyl Guar-Borate Interactions with Tear Film Mucin and Lysozyme”, *Langmuir*, **21**, 10032-10037 (2005). [*Alcon*]
- 176 **Xin Li and Robert Pelton**, “Enhancing Wet Cellulose Adhesion with Proteins” , *Industrial and Engineering Chem. Res.*, **44**, 7398-7404 (2005). [*Buckman Laboratories*]
- 175 **Yaling Xu and Robert Pelton**, “A New Look at How Fines Influence The Strength of Filled Papers” , *J Pulp Paper Science*, **31**(3) 147-152 (2005). [*NSERC CRD with Mintech*]
- 174 **Xiaonong Chen, Robert Pelton, Eli Ruckenstein**, “Long-Term Stability of an Ambient Self-Curable Latex Based on Colloidal Dispersions in Water of Two Reactive Polymers.”, *J. Poly. Sci.: Part A: Poly. Chem.*, **43**, 2598–2605 (2005) [*Canada Research Chair*]
- 173 **Boxin Zhao, Robert Pelton and Vasiliki Bartzoka**, “Peeling Pressure Sensitive Tape From Paper”, *Transactions of the Fundamental Research Society, Cambridge*, 827-852 (2005). [*NSERC CRD with 3M*]
- 172 **John-Louis DiFlavio, Robert Bertoia, Robert Pelton, and Marc Leduc**, “The Mechanism of Polyvinylamine Wet-Strengthening”, *Transactions of the Fundamental Research Society, Cambridge*, 1293-1316 (2005). [*NSERC CRD with BASF*]
- 171 **Chen Lu and Robert Pelton**, “Flocculation with Sticky Poly(ethylene oxide)/Tyrosine-rich Polypeptide Complexes”, *Langmuir*, **21**, 3765-3772 (2005). [*NSERC CRD with Nalco*]
- 170 **Xiaonong Chen, Ruixiang Huang, and Robert Pelton** “The Reinforcement of Calcium Carbonate Filled Papers with Phosphorous-containing Polymers”, *Industrial and Engineering Chemistry Research*, **44**, 2078-2085 (2005). [*NSERC CRD with Mintech*]
- 169 **Boxin Zhao and Robert Pelton**, “The Initiation of Tape Peeling Induced Paper Delamination”, *J. Pulp Paper Sci.*, **31**(1) 33-38 (Jan 2005). [*NSERC CRD with 3M*]
- 168 **Todd Hoare and Robert Pelton** “Electrophoresis of Functionalized Microgels: Morphological Insights”, *Polymer* **46**,1139–1150 (2005) [*NSERC Discovery*].

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- 167 **Boxin Zhao, Luis Anderson, Alison Banks, and Robert Pelton**, “Paper Properties Affecting Tape Adhesion”, *J. Adhesion Sci. and Tech.* **18**(14): 1625-1642, (2004). [*NSERC CRD with 3M*].

- 166 **Boxin Zhao** and **Robert Pelton**, “Using Peel as a Measure of Paper Surface Strength”, *Tappi*, **3(7)** 3-7 (2004). [*NSERC CRD with 3M*]
- 165 Kazuhiro Kurosu and **Robert Pelton**, “Simple Lysine-containing Polypeptide and Polyvinylamine Adhesives for Wet Cellulose”, *J. Pulp Paper Science*, **30(8)**, 228-232 (2004). [*Nippon Paper Ind. Ltd.*]
- 164 **Jianjun Xu** and **Robert Pelton**, “A New Route to PNIPAM Microgels Supporting a Polyamine Corona”, *J. Colloid Interface Sci.*, **276**, 113-117(2004). [*Mechanical Wood-pulps NCE*]
- 163 **Chen Lu** and **Robert Pelton**, “Factors Influencing the Size of PEO Complexes with a Tyrosine-Rich Polypeptide” *Langmuir*, **20**, 3962-3968 (2004). [*NSERC CRD with Nalco*]
- 162 **Robert Pelton**, “On the Design of Polymers for Increased Paper Dry Strength – a Review.”, *Appita J.*, **57(3)**, 181-190 (2004). [*NSERC Discovery*]
- 161 **Robert Pelton**, “Unresolved Issues in the Preparation and Characterization of Thermoresponsive Microgels”, in “Fundamentals and Applications of Polymer Gels”, Macromolecular Symposia 207, R.A. Siegel Edi., 57-66 (2004). [*NSERC Discovery*]
- 160 **Todd Hoare** and **Robert Pelton**, “Highly pH and Temperature Responsive Microgels Functionalized with Vinylacetic Acid”, *Macromolecules* **37**, 2544-2550 (2004). [*NSERC Discovery*]
- 159 **Todd Hoare** and **Robert Pelton**, “Functional Group Distributions In Carboxylic Acid-Containing Poly(N-Isopropylacrylamide) Microgels”, *Langmuir*, **20**, 2123-2133 (2004). [*NSERC Discovery*]
- 158 **Yaling Xu**, **Robert Pelton**, Matthew Slozer and Nigel Sanders, “The Influence of PCC Morphology and Pulp Properties on Paper Delamination”, *J. Pulp Paper Sci.*, **30** 59-64 (2004). [*NSERC CRD with Specialty Minerals*]
- 157 **Jianjun Xu**, Ana Barros Timmons and **Robert Pelton**, “N-Vinylformamide as a Route to Amine-Containing Latexes and Microgels”, *Colloid and Polymer Science*, **282(3)**, 256-263(2004). [*Mechanical Wood-pulps NCE*]
- 156 **Chen Lu**, Robert Richardson, **Robert Pelton**, Terence Cosgrove and Kari Dalnoki-Veress, “PEO Penetration Into Water-plasticized Poly(vinyl phenol) Thin Films” *Macromolecules*, **37(2)**, 494-500. (2004). [*NSERC CRD with Nalco*]

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- 155 **Robert Pelton** and Ted Flaherty, “Defoamers – Linking Fundamentals to Formulations”, *Polymer International*, **52(4)**, 479-485 (2003). [*NSERC CRD with Dorset Ind. Chem.*]
- 154 **Boxin Zhao** and **Robert Pelton**, “Peel Adhesion to Paper - Interpreting Peel Curves”, *J. Adhesion Sci. and Tech.*, **17(6)** 815-830 (2003). [*NSERC CRD with 3M*]
- 153 **Rongjuan Cong** and **Robert Pelton**, “The influence of PEO/poly (vinyl phenol-co-styrene sulfonate) aqueous complex structure on flocculation”, *J Colloid Interface Sci.*, **203**, 65-73(2003). [*NSERC CRD with Nalco*]
- 152 **Boxin Zhao** and **Robert Pelton**, “A New Analysis of Peeling Data from Paper” , *J. Materials Science Letters*, **22**, 265-266(2003). [*NSERC CRD with 3M*]
- 151 **Rongjuan Cong**, **Robert Pelton**, Paul Russo, Garrett Doucet, “Factors affecting the size of aqueous poly(vinyl phenol-co- potassium styrene sulfonate)/poly(ethylene oxide) complexes”, *Macromolecules*, **36**, 204-209 (2003). [*NSERC CRD with Nalco*]

- 150 **Rongjuan Cong, Robert Pelton**, Paul Russo, Alex D. Bain, Ioan Negulescu, and Zhe Zhou, “NMR Investigations of the Structure of Water-soluble Poly(ethylene oxide) Complexes with Polystyrene Sulfonate Copolymers”, *Colloid and Polymer Science*, **281**,150-156 (2003). [*NSERC CRD with Nalco*]
- 149 **Robert Pelton, Jin Zhang, Nicole Chen**, and **Atefeh Moghaddamzadeh**, “The Influence of Dextran Molecular Weight on the Dry Strength of Dextran Impregnated Paper” *Tappi* **2**(4), 15-18(2003). [*SCA Paper*]

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- 148 **Robert Pelton**, Ted Flaherty, Andrew Hrymak, and Nehad Shawafaty, “Video observation of pulp pad formation and properties in brownstock washing”, *Pulp Paper Canada*, **103**(11), 23-27 (2002). [*NSERC CRD with Dorset Ind. Chem.*]
- 147 **Nicole Chen, Shuwen Hu** and **Robert Pelton**, “Mechanisms of Aldehyde-Containing Paper Wet Strength Resins”, *Industrial & Engineering Chemistry Research*, **41**, 5366-5371 (2002). [*Mechanical Wood-pulps NCE*]
- 146 **Chen Lu** and Robert Pelton*, “PEO Flocculation with Phenolic Microparticles”, *J. Colloid Interface Sci.* **201**, 161–171 (2002). [*NSERC CRD with Nalco*]
- 145 **Robert Pelton**, “A Review of Antifoam Mechanisms in Fermentation”, *J. Industrial Microbiology*, **29**, 149-154 (2002). [*NSERC CRD with Dorset Ind. Chem.*]
- 144 **Robert Pelton** and **Jessie Hong**, “Some properties of Newsprint Impregnated with Polyvinylamine”, *Tappi*, **1**(10), 21-26 (December 2002) . [*Mechanical Wood-pulps NCE*]
- 143 **Linda Li, Andrea Collis**, and **Robert Pelton**, “A New Analysis of Filler Effects on Paper Strength”, *J. Pulp Paper Science*, **28**(8), 267-273 (2002). [*NSERC CRD with Specialty Minerals*]
- 142 **Chen Lu, Robert Pelton**, John Valliant, Stuart Bothwell, Karin Stephenson, “Colloidal Flocculation with Poly(ethylene oxide)/Polypeptide Complexes”, *Langmuir*, **18**, 4536-4538 (2002). [*NSERC CRD with Nalco*].
- 141 **Jinsong Wang, Andrew Hrymak**, and Robert Pelton, “Compactable porous and fibrous beds formed from dilute pulp suspensions”, *Industrial & Engineering Chemistry Research*, **41**(3), 572-578 (2002). [*NSERC CRD with Dorset Ind. Chem.*].
- 140 **Chen Lu** and **Robert Pelton**, “Preparation and Characterization of Polystyrene-poly(p-acetoxystyrene) and Polystyrene-poly(p-vinylphenol) Composite Latex Particles” *Colloids and Surfaces*, **201**, 161-171 (2002). [*NSERC CRD with Nalco*]
- 139 **Jessie Hong** and **Robert Pelton**, “The surface tension of aqueous polyvinylamine and copolymers with N-vinylformamide” *Colloid and Polymer Sci.*, **280**, 203-205 (2002). [*Mechanical Wood-pulps NCE*]
- 138 **Truis Smith-Palmer** and **Robert Pelton**, “Flocculation of Particles”, in *Encyclopedia of Surface and Colloid Science*”, DEKKER, New York, A. Hubbard edi., 2207-2224 (2002). [*NSERC Discovery*]
- 137 **Jinsong Wang, Andrew N. Hrymak**, and Robert Pelton, “Specific Surface and Effective Volume of Water Swollen Pulp Fibers by a Permeability Method”, *J. Pulp Paper Science*, **28**(1) 13-16 (2002). [*NSERC CRD with Dorset Ind. Chem.*]

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- 136 **Robert Pelton, Wei Chen, Hong Li**, and Michael R. Engel, “ The peeling behavior of pressure sensitive adhesives from uncoated paper”, *J. of Adhesion*, **77**, 285-308 (2001). [*NSERC CRD with 3M*]

- 135 **Robert Pelton**, Robert Richardson, Terence Cosgrove, and Robert Ivkov, "The effects of temperature and methanol concentration on the properties of poly(N-isopropylacrylamide) at the air-solution interface", *Langmuir*, **17**, 5118-5120 (2001). [*NSERC Discovery*]
- 134 **Youqing Shen**, **Shiping Zhu** and Robert Pelton, "Effect of Ligand Spacer on Silica Gel Supported Atom Transfer Radical Polymerization of Methyl Methacrylate.", *Macromolecules* **34**(17), 5812-5818(2001).
- 133 **Rongjuan Cong**, Truis Smith-Palmer, **Robert Pelton**, "A model colloid for flocculant testing", *J. Pulp Paper Science*, **27**(11) 379-384 (2001). [*NSERC CRD with Nalco*].
- 132 **C.O. Gomez**, **C. Acuna**, J.A. Finch, and R. Pelton, "Aerosol-enhanced deinking of recycled paper by column flotation", *Pulp Paper Canada*, **102**(10) 28-30(2001). [*Mechanical Wood-pulps NCE*]
- 131 **Jin Zhang**, **Robert Pelton**, Lars Wågberg, and **Mats Rundlöf**, "The Effect of Molecular Weight on the Performance of Paper Strength Enhancing Polymers" *J. Pulp Paper Sci.*, **27**(5) 145-151 (2001). [*SCA Paper*]
- 130 **Chen Lu** and **Robert Pelton**, "PEO Flocculation of Polystyrene-core Poly(vinyl phenol)-shell Latex – An Example of Ideal Bridging", *Langmuir*, **17**, 7770-7776 (2001). [*NSERC CRD with Nalco*]
- 129 **Youqing Shen**, **Shiping Zhu** and Robert Pelton, "Soluble and recoverable support for copper bromide-mediated living radical polymerization", *Macromolecules*, **34**(10), 3182-3185 (2001).
- 128 Truis Smith-Palmer and **Robert Pelton**, "Competitive interactions of dextran sulfate with positively charged particles and polymers", *Colloids and Surfaces A.*, **181**, 171-181(2001). [*Mechanical Wood-pulps NCE*]
- 127 **Leming Gu**, **Shiping Zhu**, Andrew N. Hrymak, and Robert H. Pelton, "The Nature of Crosslinking in N-vinylformamide Free Radical Polymerization, *Macromol*". *Rapid Commun.*, **22**, 212 (2001)
- 126 **L. Gu**, A. N. Hrymak, **S. Zhu** and R. H. Pelton, Kinetics and Modeling of Free Radical Polymerization of N-vinylformamide, *Polymer* **42**, 3077, (2001)
- 125 **Y. Shen**, F. Zeng, **S. Zhu** and R. Pelton "Novel cationic macromonomers by living anionic polymerization of 2-(dimethylamino)ethyl methacrylate" *Macromolecules* **34**, 144-150(2001).
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- 123 **Y. Shen**, **S. Zhu** and R. Pelton "A capping method for nitrogen anion-initiated living anionic polymerization for synthesizing alkyl methacrylate macromonomers" *Macromolecules* **34**, 376-381(2001).
- 122 **Jinsong Wang**, **Robert Pelton**, Andrew N. Hrymak and Yongmoon Kwon, "New insights into dispersed air effects in brownstock washing", *Tappi*, **84** (1), 101 (8 pages) (2001). [*NSERC CRD with Dorset Ind. Chem.*]

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