

PUBLICATIONS

1. Refereed Journal Publications:

Published and In Press:

98. Thierry Koumbi Mounanga, Paul A. Cooper, Ning Yan, Kevin Groves, Brigitte Leblon, and Tony Ung, "Prediction of Boron content in wood pellet products by near infrared spectroscopy", *Forest Products Journal*, 66(1-2): 37-43, 2016
97. Nikhil D. Patil, Ning Yan, "Investigate cleavage of β -O-4 linkage in lignin model compounds by aerobic oxidation of C α and C γ hydroxyl groups", *Tetrahedron Letters*, 57(27-28): 3024–3028. 2016
96. Nikhil D. Patil, Ning Yan, "Study of the nitroxyl radical catalyst in aerobic oxidative cleavage and functionalization of lignin model compounds", *Catalysis Communication*, DOI: dx.doi.org/10.1016/j.catcom.2016.06.015, 2016
95. Prashant Chauhan, Kenneth Chu, Ning Yan and Zhifeng Ding, "Comparison study of electrochemiluminescence of boron-dipyrromethene (BODIPY) dyes in aprotic and aqueous solutions. *Journal of Electroanalytical Chemistry*", DOI: dx.doi.org/10.1016/j.jelechem.2016.06.022, 2016
94. Yan Song, Zhixin Wang, Ning Yan, Rong Zhang and Jinchun Li, "Demethylation of Wheat Straw Alkali Lignin for Application in Phenol Formaldehyde Adhesives", *Polymer*. 8(6): 209, 2016
93. Yongqiang Lan, Ning Yan, Weihong Wang, "Application of PDMS pervaporation membranes filled with tree bark biochar for ethanol/water separation", *RSC Advances*, DOI: 10.1039/C6RA06794H, 2016
92. Prashant Chauhan, Ning Yan, "Novel bodipy—cellulose nanohybrids for the production of singlet oxygen", *RSC Advances*, 6(38) 32070-32073. 2016.
91. Leila Asadollahi, Hossein Salehizadeh, Ning Yan, "Investigation of biosurfactant activity and asphaltene biodegradation by *Bacillus cereus*", *Journal of Polymers and the Environment*, 2016.
90. Pei-Yu Kuo, Luizmar de Assis Barros, Mohini Sain, Jimi S.Y. Tjong, Ning Yan, "Effects of Reaction Parameters on the Glycidyl Etherification of Bark Extractives during Bio-epoxy Resin Synthesis", *ACS Sustainable Chem. Eng*, 4 (3)1016–1024, 2016
89. Jason D'Souza, Song Zhi Wong, Rafael Camargo, and Ning Yan, "Solvolytic Liquefaction of Bark: Understanding the Role of Polyhydric Alcohols and Organic Solvents on Polyol Characteristics", *ACS Sustainable Chem. Eng*, 4 (3) 851–861, 2016.
88. Pei-Yu Kuo, Luizmar de Assis Barros, Yuung-Ching Sheen, Mohini Sain, Jimi S.Y. Tjong, Ning Yan, "Thermal degradation of extractive-based bio-epoxy monomer and network: Kinetics and mechanism", *Journal of Analytical and Applied Pyrolysis*, 117, 199–213, 2016

87. Yong Zhao, Ning Yan, and Martin Feng, "Synthesis and characterization of bio-based phenol-formaldehyde resol resins from bark autoclave extractives", *Forest Products Journal*, 66(1-2), 2016.
86. Xiang-Ming Wang, Haixia Fang, Martin Feng, Yaolin Zhang, Ning Yan, "Manufacturing Medium-Density Particleboards from Wood-Bark Mixture and Different Adhesive Systems", *Forest Products Journal*, 65(1-2) 20-25, 2015.
85. Muhammad Ferhan, Ning Yan, Mohini Sain, "Bark depolymerization during submerged fermentation using monofloral honey, a natural mediator substitute, and integration between laccases vs. bark biopoly-mers, characterized by Py-GC-MS. *RSC Adv.* 5,14937-14952, 2015.
84. Tongfei Wu, Yicheng Du, Ning Yan, Ramin Farnood, "Cellulose fiber networks reinforced with glutaraldehyde-chitosan complexes", *Journal of Applied Polymer Science*, 132(33) 42375, 2015.
83. S.M. Mirabedini, I. Dutil, L. Gauquelin, N. Yan, R.R. Farnood, "Preparation of self-healing acrylic latex coatings using novel oil-filled ethyl cellulose microcapsules". *Progress in Organic Coatings*, 85, 168-177, 2015.
82. Nicolas R. Tanguy, Lindsey K. Fiddes, Ning Yan, "Enhanced Radio Frequency Biosensor for Food Quality Detection Using Functionalized Carbon Nanofillers", *ACS Appl. Mater. Interfaces*, 7(22) 11939-11947, 2015.
81. Jason D'Souza, Ben George, Rafael Camargo, Ning Yan, "Synthesis and characterization of bio-polyols through the oxypropylation of bark and alkaline extracts of bark", *Ind. Crops Prod.* 76, 1-11, 2015.
80. Prashant Chauhan, Ning Yan, "Nanocrystalline cellulose grafted phthalocyanine: a heterogeneous catalyst for selective aerobic oxidation of alcohols and alkyl arenes at room temperature in a green solvent", *RSC Adv.*, 5, 37517-37520, 2015.
79. Sandeep Sudhakaran Nair, Ning Yan, "Bark derived submicron-sized and nano-sized cellulose fibers: From industrial waste to high performance materials". *Carbohydrate Polymers*, 134, 258-266, 2015.
78. Sandeep Sudhakaran Nair, Ning Yan, "Effect of high residual lignin on the thermal stability of nanofibrils and its enhanced mechanical performance in aqueous environments". *Cellulose*, 22(5) 3137-3150, 2015.
77. Sankar Govindarajan, Ning Yan "Synthesis and deblocking studies of low temperature heat-curable blocked polymeric methylene diphenyl diisocyanates", *Journal of Macromolecular Science Part A Pure Applied Chemistry*, 52(1) 47-55, 2015.
76. Kate E. Semple, Solace Sam-Brew, James Deng, Francine Cote, Ning Yan, Zheng Chen , and Greg Smith, "Properties of commercial Kraft paper honeycomb furniture stock panels conditioned under 65% and 95% relative humidity", *Forests Products Journal*, 65(3-4) 106-122, 2015

75. Hossein Salehizadeh, Ning Yan, "Recent advances in extracellular biopolymer flocculants", *Biotechnology Advances*, 32(8), 1506-1522, 2014.
74. Yong Zhao, Ning Yan "Recent development in forest biomass derived phenol formaldehyde (PF) resol resin for wood adhesives application", *Journal of Biobased Materials and Bioenergy*, 8(5) 465-480, 2014.
73. Sankar Govindarajan, Ning Yan, "Bio-based Two Component (2K) Polyurethane Adhesive Derived from Infested Lodgepole Pine Barks", *Journal of Biobased Materials and Bioenergy*, 8, 457-464. 2014
72. Yubo Chai, Yong Zhao, Ning Yan, "Synthesis and characterization of bio-based melamine formaldehyde resin from bark extractives", *Industrial & Engineering Chemistry Research*, 53(28) 11228-11238, 2014.
71. Lindsey K. Fiddes, Ning Yan, "Electrochemical Detection of Biogenic Amines During Food Spoilage Using an Integrated Sensing RFID Tag", *Sensors and Actuators, B: Chemical*, 202, 1298-1304, 2014.
70. Carlos Quijano-Solis, Ning Yan, "Characterization of biofiber breakage in composite processing using a capillary rheometer", *Journal of Reinforced Plastics and Composites*, 33(16) 1463-1473, 2014.
69. Pei-Yu Kuo, Mohini Sain, Ning Yan, "Synthesis and Characterization of an Extractive-based Bio-epoxy Resin from Beetle Infested Pinus Contorta Bark" *Green Chemistry*, 16(7) 3484-3493, 2014.
68. Jason D'Souza, Rafael Camargo, Ning Yan, "Polyurethane foams made from liquefied bark-based polyols", *Journal of Applied Polymer Science*, DOI: 10.1002/app.40599, 2014.
67. Yicheng Du, Ning Yan, Mark Kortschot, "A simplified fabrication process for biofiber-reinforced polymer composites for automotive interior trim applications", *Journal of Materials Science*, 49(6), 2630-2639, 2014.
66. Yicheng Du, Ning Yan, Mark Kortschot, "Novel lightweight sandwich-structured bio-fiber-reinforced poly(lactic acid) composites", *Journal of Materials Science*, 49(5), 2018-2026, 2014.
65. Zheng Chen, Ning Yan, Solace Sam-Brew, Greg Smith, James Deng, "Investigation of mechanical properties of sandwich panels made of paper honeycomb core and wood composite skins by experimental testing and finite element (FE) modelling methods", *European Journal of Wood and Wood Products*, DOI: 10.1007/s00107-014-0782-z, 2014.
64. Mohammad Ferhan, Nicolas Tanguy, Ning Yan and Mohini Sain, "Comparison of enzymatic, alkaline and UV/H₂O₂ treatments for extraction of beetle infested lodgepole pine (BILP) and aspen bark polyphenolic extractives", *ACS Sustainable Chemistry and Engineering*, 2(2), 165-172, 2014.
63. Zeen Huang, Ning Yan, "Characterization of Major Components in Bark from Five Common Canadian Species", *Wood and Fiber Science*, 46(2), 167-174, 2014.

62. Yicheng Du, Tongfei Wu, Ning Yan, Mark Kortschot, Ramin Farnood, "Fabrication and Characterization of Fully Biodegradable Natural Fiber-reinforced Poly(lactic acid) Composites", *Composite Part B: Engineering*, 56(2014), 717-723, 2014.
61. Pei-Yu Kuo, Ning Yan, Mohini Sain, "Influence of cellulose nanofibers on the curing behavior of epoxy/amine systems", *European Polymer Journal*, 49(12), 3778-3787, 2013.
60. Yong Zhao, Boya Zhang, Ning Yan, Ramin Farnood, "Synthesis and Characterization of Phenol Formaldehyde Novolac Resin Derived from Liquefied Mountain Pine Beetle Infested Lodgepole Pine Barks", *Macromolecular Reaction Engineering*, 7(11), 646-660, 2013. **Highlighted in journal cover page.**
59. Lindsey K. Fiddes, Ning Yan, "RFID Tags for Wireless Electrochemical Detection of Volatile Chemicals", *Sensors and Actuators, B: Chemical*, 186(2013), 817-823, 2013.
58. Yicheng Du, Ning Yan, Mark Kortschot, "An Experimental Study of Creep Behavior of Lightweight Natural Fiber-reinforced Polymer Composite Skin Honeycomb Core Sandwich Panels", *Composite Structures*, 106, 160-166, 2013.
57. Muhammad Ferhan, Ning Yan, Mohini Sain, "A New Method for Demethylation of Lignin from Woody Biomass by using Biophysical Methods", *Journal of Chemical Engineering and Process Technology*, 4 (5), 160-166, 2013.
56. Yong Zhao, Ning Yan, Martin Feng, "Phenol Liquefaction of the Beetle Infested Pine Bark and the Liquefied Products Characterization", *Current Organic Chemistry*, 17(15), 1604-1616, 2013.
55. Jason D'Souza, Ning Yan, "Producing Bark-based Polyols through Liquefaction: Effect of Liquefaction Temperature", *ACS Sustainable Chemistry & Engineering*, 1(5), 534-540, DOI: 10.1021/sc400013e, 2013. **Highlighted in journal cover page.**
54. Jieming Chen, Ning Yan, "Crystallization Behavior of Organo-nanoclay Treated and Untreated Kraft Fiber-HDPE Composites", *Composites Part B: Engineering*, 54, 180-187, 2013.
53. Yong Zhao, Ning Yan, Martin Feng, "Bio-based Phenol Formaldehyde (PF) Resins Derived from Beetle Infested Pine Barks - Structure and Composition", *ACS Sustainable Chemistry & Engineering*, 1(1), 91-101, 2013. **Highlighted in journal cover page.**
52. Yong Zhao, Ning Yan, Martin Feng, "Thermal Degradation Characteristics of Phenol-formaldehyde Resins Derived from Beetle Infested Pine Barks", *Thermochimica Acta*, 555, 46-52, 2013.
51. Jieming Chen, Ning Yan, "Mechanical Properties and Dimensional Stability of Organo-nanoclay Modified Biofiber Polymer Composites", *Composites Part B: Engineering*, 47, 248-254, 2013.
50. Yicheng Du, Tongfei Wu, Ning Yan, Mark Kortschot, Ramin Farnood, "Pulp Fiber-reinforced Thermoset Polymer Composites: Effects of the Pulp Fibers and Polymer", *Composites Part B: Engineering*, 48, 10-17, 2013.
49. Yong Zhao, Ning Yan, Martin Feng, "Bark Extractives-based Phenol-Formaldehyde Resins

- from Beetle-infested Lodgepole Pine”, *Journal of Adhesion Science and Technology*, 27(18-19), 2112-2126, 2013.
48. Muhammad Ferhan, Alcides Leao, Itamar S de Melo, Ning Yan, Mohini Sain, “Ligninases Production and Partial Purification of MnP from Brazilian Fungal Isolate in Submerged Fermentation”, *Fermentation Biotechnology*, 1:106, DOI:10.4172/2167-7972.1000106, 2012.
 47. Siying Chen, Ramin Farnood, Ning Yan, Sabina Di Risio, Jay Song, “Paper and Printer Effects on Xerographic Print Quality”, *Nordic Pulp and Paper Research Journal*, 27(4), 729-738, 2012.
 46. Zheng Chen, Ning Yan, Greg Smith, James Deng, “Investigation of Flexural Creep of Kraft Paper Honeycomb Core Sandwich Panels Using the Finite Element Method (FEM)”, *Wood and Fiber Science*, 44(4), 1-10, 2012.
 45. Yicheng Du, Ning Yan, Mark Kortschot, “Light-weight Honeycomb Core Sandwich Panels Containing Biofiber-reinforced Thermoset Polymer Composite Skins: Fabrication and Evaluation”, *Composites Part B: Engineering*, 43(7), 2875-2882, 2012.
 44. Zheng Chen, Ning Yan, “Investigation of Elastic Moduli of Kraft Paper Honeycomb Core Sandwich Panels”, *Composites Part B: Engineering*, 43(5), 2107-2114, 2012.
 43. Jieming Chen, Ning Yan, "Hydrophobization of Bleached Softwood Kraft Fibers via Adsorption of Organo-nanoclay," *BioResources*, 7(3), 4132-4149, 2012.
 42. Chong Liang, Ning Yan, Xuejun Zou, David Vidal, “Effects of Coating Formulations on Thermal Properties of Coating Layers”, *Nordic Pulp and Paper Journal*, 27(2), 451-458, 2012.
 41. Yong Zhao, Ning Yan, Martin Feng, “Polyurethane Foams Derived from Liquefied Mountain Pine Beetle-Infested Barks”, *Journal of Applied Polymer Sciences*, 123(5), 2849-2858, 2012.
 40. Yicheng Du, Ning Yan, Mark Kortschot, “Investigation of Unsaturated Polyester Composites Reinforced by Aspen High Yield Pulp Fibers”, *Polymer Composites*, 33(2), 169-177, 2012.
 39. Gireesh Gupta, Ning Yan, Martin Feng, “Effects of Pressing Temperature and Particle Size on Bark Board Properties made from Beetle-Infested Lodgepole Pine Barks”, *Forest Products Journal*, 61(6), 478-488, 2011.
 38. Zheng Chen, Ning Yan, James Deng, Greg Smith, “Creep of Sandwich Panels Containing Kraft Paper Honeycomb Core and Wood Composite Skins”, *Materials Sciences and Engineering A*, 528(16-17), 5621-5626, 2011.
 37. Pooya Azadi, Ramin Farnood, Ning Yan, “FEM-DEM Modeling of Thermal Conductivity of Porous Pigmented Coatings”, *Computational Materials Science*, 49(2), 392-399, 2010.
 36. Yong Zhao, Ning Yan, Martin Feng, “Characterization of Phenol Formaldehyde Resins Derived from Liquefied Lodgepole Pine Barks”, *International Journal of Adhesion and Adhesives*, 30(8), 689-695, 2010.

35. Sabina Di Risio, Ning Yan, "Adsorption and Inactivation Behavior of Horseradish Peroxidase on Various Substrates", *Colloids and Surfaces B: Biointerfaces*, 79(2), 397-402, 2010.
34. Sabina Di Risio, Ning Yan, "Bioactive Paper Through Ink-jet Printing", *Journal of Adhesion Science and Technology*, 24(3), 661-684, 2010.
33. Pooya Azadi, Steven Nunnari, Ramin Farnood, Mark Kortschot, Ning Yan "High Speed Compression of Highly Filled Thin Composites: Effect of Binder Content and Stiffness", *Progress in Organic Coatings*, 64(4), 356-360, 2009.
32. Sabina Di Risio, Ning Yan, "Adsorption and Inactivation Behaviour of Horseradish Peroxidase on Cellulosic Fiber Surfaces", *Journal of Colloid and Interface Science*, 338(2), 410-419, 2009.
31. Kangqing Deng, M. Winnik, Ning Yan, Z. Jiang, P.V. Yaneff, R.A. Ryntz, "Characterizing Interfacial Structure of TPO/CPO/TPO Adhesive Joints by PFM-AFM and SEM", *Polymer*, 50(14), 3225-3233, 2009.
30. Carlos Quijano-Solis, Ning Yan, S.Y. (Tony) Zhang, "Effect of Mixing Conditions and Fiber Morphology on Fiber Dimensions after Processing", *Composites Part A. Applied Science and Manufacturing*, 40(4), 351-358, 2009.
29. Sabina Di Risio, Ning Yan, "Piezoelectric Inkjet Printing of Horseradish Peroxidase on Fibrous Supports", *Journal of Pulp and Paper Science*, 34(4), 203-211, 2008.
28. Zheng Chen, Ning Yan, Paul Cooper, "Predicting Concentrated Static Load Performance of Oriented Strand Board using Finite Element Modeling", *Wood and Fiber Science*, 40(4), 505-518, 2008.
27. Pooya Azadi, Ning Yan, Ramin Farnood, "Discrete Element Modeling of the Transient Heat Transfer and Toner Fusing Process in the Xerographic Printing of Coated Papers", *Computers & Chemical Engineering*, 32(12), 3238-3245, 2008.
26. Pooya Azadi, Ramin Farnood, Ning Yan, "Modeling the Effect of Pigment Morphology on the Dynamic Compression of Coating Layers using DEM", *Computers & Chemical Engineering*, 32(12), 3084-3089, 2008.
25. Zheng Chen, Ning Yan, Paul Cooper, "Effect of Furnish Parameters on Concentrate Static Load (CSL) and Related Properties of OSB", *Forest Products Journal*, 58(1-2), 59-64, 2008.
24. Zheng Chen, Ning Yan, Paul Cooper, "Effect of Panel Properties on Concentrate Static Load (CSL) Performance of Oriented Strand Board (OSB)", *Holz als Roh- und Werkstoff*, 66(3), 207-212, 2008.
23. Pooya Azadi, Ramin Farnood, Ning Yan, "Discrete Element Modelling of the Mechanical Response of Pigment Containing Coating Layers Under Compression", *Computational Materials Science*, 42(1), 50-56, 2008.
22. Ernesto Caner, Ramin Farnood, Ning Yan, "The Relationship between Coating Formulation

and Microgloss of Coated Papers”, *TAPPI*, 7(4), 19-26, 2008.

21. Sabina Di Risio, Ning Yan, “Piezoelectric Ink-jet Printing of Horseradish Peroxidase: Effect of Ink Viscosity Modifiers on Activity”, *Macromolecule Rapid Communications*, 28(18-19), 1934-1940, 2007.
20. Patricia Lai, Ning Yan, Gordon Sisler, Jay Song, “Effect of Paper Properties on Fuser Oil Uptake in High Speed Xerography Fuser”, *Journal of Imaging Science and Technology*, 51(5), 424-430, 2007.
19. Angelo Facca, Mark Kortschot, Ning Yan, “Predicting the Tensile Strength of Natural Fibre Reinforced Thermoplastics”, *Composites Science and Technology*, 67(11-12), 2454-2466, 2007.
18. Tieqi Li, Ning Yan, “Mechanical Properties of Wood Flour/ HDPE/Ionomer Composites”, *Composites Part A. Applied Science and Manufacturing*, 38(1), 1-12, 2007.
17. Guangbo He, Ning Yan, “Curing Kinetics of Polymeric Diphenylmethane Diisocyanate with Different Wood Species”, *International Journal of Adhesion and Adhesives*, 27(3), 244-249, 2007.
16. Sabina Di Risio, Ning Yan, “Characterizing Coating Layer Z-directional Binder Distribution in Paper Using Atomic Force Microscopy”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 289(1-3), 65-74, 2006.
15. Angelo Facca, Mark Kortschot, Ning Yan, “Predicting the Elastic Modulus of Natural Fibre Reinforced Thermoplastics”, *Composites Part A. Applied Science and Manufacturing*, 37(10), 1660-1671, 2006.
14. Ning Yan, Ernesto Caner, Ramin Farnood, “Effect of Pigment Properties on Macro- and Micro-Gloss and Gloss Uniformity of Coated Papers”, (in Chinese), *China Pulp & Paper*, supplement, June 14-20, 2006.
13. Angelo Facca, Mark Kortschot, Ning Yan, “Predicting the Elastic Modulus of Hybrid Fiber Reinforced Thermoplastics”, *Polymers & Polymer Composites*, 14(3), 239-249, 2006.
12. Sabina Di Risio, Ning Yan, “Characterizing Coating Pore Structures of Paper Using Scanning Probe Microscopy”, *TAPPI Journal*, 5(3), 9-14, 2006.
11. Guangbo He, Ning Yan, “Effect of Wood Species and Molecular Weight of Phenolic Resins on Curing Behavior and Bonding Development”, *Holzforschung*, 59(6), 635-640, 2005.
10. Guangbo He, Ning Yan, “Effect of Moisture Content on Curing Kinetics of pMDI Resin and Wood Mixtures”, *International Journal of Adhesion and Adhesives*, 25(5), 450-455, 2005.
9. Yan Zhang, Ning Yan, Paul Cooper, “Predicting Concentrated Static Load Performance of Oriented Strandboard”, *Forest Products Journal*, 55(12), 148-152, 2005.
8. Weiqiu Wang, Ning Yan, “Characterizing Liquid Resin Penetration in Wood Using a Mercury Intrusion Porosimeter”, *Wood and Fiber Science*, 37(3), 505-513, 2005.
7. Guillaume Bernard, Ramin Farnood, Ning Yan, “Customized Setup to Assess Microgloss

- Uniformity of Paper”, *Pulp and Paper Canada*, 106(9), 190-193, 2005.
6. Guangbo He, Ning Yan, “Influences of Synthesis Conditions on Curing Behaviour of Phenol-Urea-Formaldehyde Resol Resins”, *Journal of Applied Polymer Science*, 95(6), 1368-1375, 2005.
 5. Guangbo He, Ning Yan, “Effect of Wood on Curing Behaviour of Commercial Phenolic Resin Systems”, *Journal of Applied Polymer Science*, 95(1), 185-192, 2005.
 4. Guangbo He, Ning Yan, “¹³C NMR Study on Structure, Composition and Curing Behavior of Phenol-Urea-Formaldehyde Resole Resins”, *Polymer*, 45(20), 6813-6822, 2004.
 3. Ning Yan, Joe Aspler, “Surface Texture Controlling Speckle-Type Print Defects in a Hard Printing Nip”, *Journal of Pulp and Paper Science*, 29(11), 357-362, 2003.
 2. Ramin Farnood, Ning Yan, Mark Kortschot, Christopher Dodson, “Modelling Flocculation: A Gallery of Simulated Flocculated Papers”, *Nordic Pulp and Paper Science Journal*, 12(2), 86-89, 1997.
 1. Ning Yan, Mark Kortschot, “Modelling of Out-of-Plane Tear Energy Absorption of Paper”, *Appita Journal*, 49(3), 176-180, 1996.

2. Refereed Conference Papers:

18. Yong Zhao, Ning Yan, Martin Feng, “Synthesis and Characterization of Bio-Based Phenol-Formaldehyde Resol Resins from Bark Autoclave Extractives”, International Conference on Wood Adhesives, October 9-11, Toronto, Ontario, Canada, 2013.
17. Mandana Fazl, Jieming Chen, Ning Yan, “Effect of Organo-Nanoclay Adsorption on the Water Adsorption and Mechanical Properties of Kraft Fiber-Polylactic Acid Composites”, Proceedings of 21th Annual International Conference on Composites/Nano Engineering, July 21-27, Tenerife, Canary Islands, 2013.
16. Chong Liang, Ning Yan, David Vidal, Xuejun Zou, “Effects of Coating Formulation on Coating Thermal Properties and Coated Paper Print Quality in Xerography”, 12th TAPPI Advanced Coating Fundamentals Symposium, Atlanta, Georgia, USA, 2012.
15. Ailee Ho, Ning Yan, “Comparative Study of Coating Structural Characteristics for Spray and MSP Coated Papers”, 12th TAPPI Advanced Coating Fundamentals Symposium, Atlanta, Georgia, USA, 2012.
14. Jieming Chen, Ning Yan, “Impact of Organo-nanoclay Modification of Biofibers on Mechanical Properties of Biofiber Polymer Composites”, 20th Annual International Conference on Composites or Nano Engineering, ICCE-20 Beijing, China, 2012.
13. Yicheng Du, Tongfei Wu, Ning Yan, Mark T. Kortschot, Ramin Farnood, “Tensile and Dynamic Mechanical Properties of Pulp Fiber-reinforced Thermoset Polymer Composites”, 20th Annual International Conference on Composites or Nano Engineering, ICCE-20 Beijing, China, 2012.
12. Chong Liang, Ning Yan, David Vidal, Xuejun Zou, “Effects of Coating Formulation on

Coating Thermal Properties and Coated Paper Print Quality in Xerography”, 8th *International Paper and Coating Chemistry Symposium and International Paper Physics Conference*, Stockholm, Sweden, 2012.

11. S.M. Mirabedini, R.R. Farnood, N. Yan, I. Dutil, “Mechanical and Self-healing Properties of Latex Coatings Containing Ethyl Cellulose-based Core-Shell Microcapsules”, *The 2011 Asia/Australia Regional Meeting of the Polymer Processing Society (PPS2011)*, Kish Island, Iran, 2011.
10. Yong Zhao, Ning Yan, Martin Feng, “Adhesive Application of Liquefied Green and Mountain-Pine Beetle Infested Lodgepole Pine Barks”, *International Conference on Wood Adhesives*, Lake Tahoe, Nevada, USA, 2009.
9. Sabina Di Risio, Ning Yan, “Characterizing the Spatial Distribution of Horseradish Peroxidase Ink-jet Printed on Paper”, *International Conference on Digital Fabrication Technologies*, Pittsburgh, Pennsylvania, USA, 2008.
8. Sabina Di Risio, Ning Yan, “Piezoelectric Inkjet Printing of Horseradish Peroxidase on Fibrous Substrates”, *Digital Fabrication Conference*, Anchorage, Alaska, USA, 2007.
7. Patricia Lai, Ning Yan, Gordon Sisler, Jay Song, “The Relationship Between Paper Properties and Fuser Oil Uptake in High-Speed Xerographic Printing”, *22nd International Conference on Non-Impact Printing Technologies*, Denver, Colorado, USA, 2006.
6. Ernesto Caner, Ramin Farnood, Ning Yan, “Effect of Coating Formulation on Gloss Properties of Coated Papers”, *13th International Printing and Graphic Arts Conference*, Cincinnati, Ohio, USA, 2006.
5. Guangbo He, Ning Yan, “Effect of Molecular Weight on Bonding Performance for Liquid Phenolic Resins”, *Wood Adhesives*, San Diego, California, USA, 2005.
4. Anbu Clement Johnson, Ning Yan, “Characterizing Local Curing of Liquid Phenol-Formaldehyde Resin on Wood Surfaces Using Micro-Thermal Analysis”, *WoodAdhesives*, San Diego, California, USA, 2005.
3. Sabina Di Risio, Ning Yan, “Effect of Pigment Properties on Coating Structure as Measured by AFM”, *TAPPI Coating and Graphic Arts Conference*, Toronto, Ontario, Canada, 2005.
2. Guillaume Bernard, Ramin Farnood, Ning Yan, “Microgloss Variation of Paper and Prints”, *12th International Printing and Graphic Arts Conference*, Vancouver, British Columbia, Canada, 2004.
1. Ning Yan, Mark Kortschot, “Micromechanical Modelling of Tear Strength in Kraft and TMP Papers”, *Fundamentals of the Papermaking Materials*, Transactions of the *Eleventh Fundamental Research Symposium*, Vol. 2, Cambridge, U.K., 1997.

3. Peer Reviewed Internal Reports:

2. Ning Yan, Angela Strojny, Dan Arnold, John Frank, Diane Foley, “Key Paper Attributes Controlling Fuser Contamination”, *Xerox Accession Report #X200100186*, Xerox Corporation, 2001.

1. Ning Yan, Joe Aspler, "Surface Texture Controlling Speckle Type of Defects in a Hard Printing Nip", *Pulp and Paper Report #1556*, Pulp and Paper Research Institute of Canada, 2001.

4. Patent/Patent Applications:

6. "Radio Frequency Identification Devices ("RFID") for Detecting Volatile Substances", PCT filing PCT/CA2014/050537, June 10, 2014.
5. "Method of Producing Electrically Conductive Polymer and Cellulose Nanocomposites", **Chinese Patent Application No. 201180022308.0**, May 12, 2011, filed by the University of Toronto.
4. "Method of Producing Electrically Conductive Polymer and Cellulose Nanocomposites", **European Patent Application No. 20110780030**, May 12, 2011, filed by the University of Toronto.
3. "Method of Producing Electrically Conductive Polymer and Cellulose Nanocomposites", **International PCT Patent Application No. PCT/CA2011/050294**, May 12, 2011, filed by the University of Toronto.
2. "Method of Producing Electrically Conductive Polymer and Cellulose Nanocomposites", **US Patent Application No. 13/697,698**, May 12, 2011, filed by the University of Toronto.
1. "Method of Producing Electrically Conductive Polymer and Cellulose Nanocomposites", **Canadian Patent Application No. 2796988A1**, May 12, 2011, filed by the University of Toronto.

5. Book Chapter

2. N. Pathil, N. Tanguy, N. Yan, "Lignin inter-unit linkages and model compounds". (In Lignin in Polymer Composites. Eds: O. Faruk and M. Sain), 2015
1. Yicheng Du, Ning Yan, Mark Kortschot, Chapter 4: "The use of ramie fibers as reinforcements in composites", in "*Biofiber Reinforcement in Composite Materials*" edited by Omar Faruk and Mohini Sain. Woodhead Publishing Limited. 104-137, 2014

6. Invention Disclosures:

5. "A Novel Method for making Low Density Biofibre Based Composites and Panels", University of Toronto, RIS #10002698, December 2013.
4. "Smart RFID Tags for Detecting Volatile Chemicals", University of Toronto, RIS #10002414, April 2012.
3. "Novel Sandwich Panels Containing Pulp Fiber Reinforced-Thermoset Polymer Composite Skins and Paper Honeycomb Core", University of Toronto, RIS #10002243, March 2011.
2. "Bark Extractives as Feedstock for Phenol-formaldehyde Resin Synthesis", University of Toronto, RIS #10002206, January 2011.
1. "Conducting Nanocrystalline Cellulose Colloid and Film", University of Toronto, RIS #1001946, June 2009.