UNIVERSITY OF VICTORIA - CURRICULUM VITAE
Last Update May 31, 2019

Name: MOFFITT, Matthew Gordon

Faculty: Science **Department: Chemistry**

1. EDUCATION and TRAINING

Degree	Institution	Year obtained
B.Sc. Chemistry, High Distinction	McGill University	1992
Ph.D. Chemistry	McGill University	1998
Postdoctoral experience		
NSERC Postdoctoral Fellow	University of Toronto	1998-2002

3. APPOINTMENTS at the UNIVERSITY of VICTORIA

Period	Rank	Academic unit
Aug. 2002-June 2008	Assistant Professor	Chemistry
July 2008-June 2016	Associate Professor with tenure	Chemistry
July 2016-	Professor with tenure	Chemistry

4. MAJOR FIELD(S) of SCHOLARLY or PROFESSIONAL INTEREST

Polymer Chemistry; Materials Chemistry; Physical Chemistry; Anionic Polymerization; Block Copolymer Self-Assembly; Microfluidics; Polymeric Drug Delivery Vehicles; Polymer Nanocomposites for Photonic Applications; Nanoparticle Patterning; Polymer Blends; Photoluminescent Biolabels; Block Copolymer Self-Assembly at the Air-Water Interface

5. RESEARCH GRANTS and FELLOWSHIPS

a. Research Operating Grants

Agency	Title	Grant holder(s)	Time period	Amount awarded per annum
1. NSERC	CREATE	M. G. Moffitt, C. Bohne (et al.)	2017-23	$300,000
2. NSERC	Discovery Grant	M.G. Moffitt	2018-22	$36,000
3. ACS	Petroleum Research Fund	J. E. Wulff, and M. G. Moffitt	2017-19	$68,500
4. NSERC	I2I	J. E. Wulff, and M. G. Moffitt	2017-18	$125,000
5. NSERC	Strategic Grant	M. G. Moffitt and D. Sinton	2013-16	$150,000
6. NSERC	Discovery Grant	M.G. Moffitt	2014-17	$44,000
7. NSERC	Discovery Grant	M. G. Moffitt	2009-13	$51,000
8. FCT (Portugal)	Synthesis and Characterization of	J. P. Farinha	2008-10	$31,640

	Quantum Dot/Polymer Assemblies	and M. G. Moffitt		
9. CAMTEC	Collaborative Research Stipend	M. G. Moffitt and D. Sinton	2007-09	$6,000
10. NSERC	Discovery Grant	M. G. Moffitt	2005-08	$44,000
11. MSFHR	Health Research Grant Preparation Program	M. G. Moffitt	2004	$5,000
12. NSERC	Discovery Grant	M. G. Moffitt	2003-05	$41,300
13. UVic	Startup Operating Funds	M. G. Moffitt	2002	$40,000

b. Equipment Grants

Agency	Equipment	Grant holders	Year	Amount awarded
1. NSERC RTI	Rheology Facility for Materials Characterization	J. E. Wulff (PI), M.G. Moffitt (et al.)	2017	$149,040
2. NSERC RTI	Hyperspectral Dark Field Microscope	A. G. Brolo (PI), M.G. Moffitt (et al.)	2014	$150,000
3. NSERC RTI	Nanoscale Imaging Facility	David Steuerman (PI), M. G. Moffitt (et al.)	2011	$150,000
4. NSERC RTI	Anisotropy Upgrade for Single Photon Counting	C. Bohne (PI), M. G. Moffitt (et al.)	2009	$71,323
5. NSERC RTI	Zeta Potential Analyzer	M. G. Moffitt (PI)	2008	$53,090
6. NSERC RTI	TGA/DSC	M. G. Moffitt (PI), F. van Veggel (et al.)	2007	$71,333
7. NSERC RTI	Table-top XRD	F. van Veggel (PI), M. G. Moffitt (et al.)	2006	$103,151
8. NSERC RTI	Digital camera for trans-mission electron microscope	L. Page (PI), M. G. Moffitt (et al.)	2006	$45,000
9. NSERC RTI	Stopped flow spectrometer	C. Bohne (PI), M. G. Moffitt	2006	$121,415
10. CFI	Infrastructure Operating Fund	M. G. Moffitt	2003-06	$37,425
11. BCKDF	CFI Matching Funds	M. G. Moffitt	2003-04	$137,907
12. CFI	New Opportunities Fund	M. G. Moffitt	2003-04	$137,907
13. UVic	CFI Matching Funds	M.G. Moffitt	2002	$60,000

c. Honours, Fellowships, and Scholarships

2006	CNC/IUPAC Travel Award
1998-2000	NSERC Postdoctoral Fellowship
1998	C. A. Winkler Award from Department of Chemistry, McGill University (Most Outstanding Ph.D. Graduate from the Department of Chemistry in 1997)
1998	D. W. Ambridge Prize from Faculty of Graduate Studies and Research, McGill University (Most Outstanding Ph.D. Graduate in the Physical Sciences and Engineering in 1997/98)

6. PUBLICATIONS and PRESENTATIONS

a. Articles Published in Refereed Journals (asterisks indicate corresponding author(s))

>3100 citations, h-index = 28; h-index since 2014 = 19; i10-index = 46 (source: Google Scholar)

1. Barber, A.; Kly, S.; Moffitt, M. G.; Rand, L.; Ranville, J. F.* **2019** Coupling Single Particle ICP-MS with Field-flow Fractionation for Characterizing Metal Nano-particles Contained in Microplastic Colloids. *Submitted to Anal. Bioanal. Chem.*
2. Hood, J.; Van Gordon, K.; Thomson, P.; Coleman, B. R.; Burns, F. P.; Moffitt, M. G.* **2019** Structural Hierarchy in Blends of Amphiphilic Block Copolymers Self-Assembled at the Air-Water Interface. *Submitted to J. Coll. Interf. Sci.*
3. Jensen, D.; Cao, Y.; Lu, C.; Wulff, J. E.; Moffitt, M. G.* **2019** Microfluidic Encapsulation of SN-38 in Block Copolymer Nanoparticles: Effect of Hydrophobic Block Composition on Loading and Release Properties. *Can. J. Chem.* 1-7 (citations = 0).
4. Cao, Y.; Silverman, L.; Lu, C.; Hof, R.; Wulff, J. E.; Moffitt, M. G.* **2019** Microfluidic Manufacturing of SN-38-Loaded Polymer Nanoparticles with Shear Processing Control of Drug Delivery Properties. *Mol. Pharmaceutics*, **16**, 96-107 (citations = 0).
5. Chen, R.; Wulff, J. E.; Moffitt, M. G.* **2018** Microfluidic Processing Approach to Controlling Drug Delivery Properties of Curcumin-Loaded Block Copolymer Nanoparticles. *Mol. Pharmaceutics*, **15**, 4517-4528 (citations = 1).
6. Coleman, B.; Moffitt, M. G.* **2018** Amphiphilic Inorganic Nanoparticles with Mixed Polymer Brush Layers of Variable Composition: Bridging the Paradigms of Block Copolymer and Nanoparticle Self-Assembly. *Chem. Mater.*, **30**, 2474-2482 (citations = 3).
7. Coleman, B.; Moffitt, M. G.* **2018** Amphiphilic Quantum Dots with Asymmetric, Mixed Polymer Brush Layers: From Single Core-Shell Nanoparticles to Salt-Induced Vesicle Formation. *Polymers*, **10**, 327 (citations = 0).
8. Bains, A.; Moffitt. M. G.* **2017** Effects of Chemical and Processing Variables on Paclitaxel-loaded Polymer Nanoparticles Prepared Using Microfluidics. *J. Coll. Interf. Sci.*, **508**, 203-213 (citations = 4).
9. Xu, Z.; Lu, C.; Lindenberger, C.; Cao, Y.; Wulff, J. E.; Moffitt, M. G.* **2017** Synthesis, Self-Assembly, and Drug Delivery Characteristics of Poly(methyl caprolactone-*co*-caprolactone)-*b*-poly(ethylene oxide) Copolymers with Variable Compositions of Hydrophobic Blocks: Combining Chemistry and Microfluidic Processing for Polymeric Nanomedicines. *ACS Omega*, **2**, 5289-5303 (citations = 5).
10. Marcelo, G.; Burns, F.; Ribeiro, T.; Martinho, J. M. G.; Tarazona, M. P.; Saiz, E.; Moffitt, M. G.*; Farinha, J. P. S.* **2017** Versatile Tetrablock Copolymer Scaffold for Hierarchical Colloidal Nanoparticle Assemblies: Synthesis, Characterization, and Molecular Dynamics Simulation. *Langmuir*, **33**, 8201-8212 (citations = 6).
11. Bains, A.; Cao, Y.; Kly, S.; Wulff, J. E.; Moffitt, M. G.* **2017** Controlling Structure and Function of Polymeric Drug Delivery Nanoparticles Using Microfluidics. *Mol. Pharmaceutics*, **14**, 2595-2606 (citations = 14).
12. Xu, X.; Lu, C.; Riordon, J.; Sinton, D.; Moffitt, M. G.* **2016** Microfluidic Manufacturing of Polymeric Nanoparticles: Comparing Flow Control of Multiscale Structure in Single-Phase Staggered Herringbone and Two-Phase Reactors. *Langmuir*, **32**, 12781-12789 (citations = 16).

13. Chen, J. Burns, F. P.; Moffitt, M. G.; Wulff, J. E.* **2016** Thermally Crosslinked Functionalized Polydicyclopentadiene with a High T_g and Tunable Surface Energy. *ACS Omega*, **1**, 532-540 (citations = 11).

14. Bains, A.; Wulff, J. E.; Moffitt, M. G.* **2016** Microfluidic Synthesis of Dye-Loaded Polycaprolactone-*block*-poly(ethylene oxide) Nanoparticles: Insights into Flow-Directed Loading and *In Vitro* Release for Drug Delivery. *J. Coll. Interf. Sci.*, **475**, 136-148 (citations = 18).

15. Xu, Z.; Yan, B.; Riordon, J.; Zhao, Y.; Sinton, D., Moffitt, M. G.* **2015** Microfluidic Synthesis of Photoresponsive Spool-Like Block Copolymer Nanoparticles: Flow-Directed Formation and Light-Triggered Dissociation. *Chem. Mater.*, **27**, 8094-8104 (citations = 15).

16. Bains, A.; Cao, Y.; Moffitt, M. G.* **2015** Multiscale Control of Hierarchical Structure in Crystalline Block Copolymer Nanoparticles Using Microfluidics. *Macromolec. Rapid Commun.*, **36**, 2000-2005 (citations = 16).

17. Harirchian-Saei, S.; Wang, M. C. P.; Gates, B. D.; Moffitt, M. G.* **2014** Simultaneous Patterning of Two Different Types of Nanoparticles into Alternating Domains of a Striped Array of a Polymer Blend in a Single Spin-Casting Step. *J. Coll. Interf. Sci.*, **433**, 123-132 (citations = 0).

18. Moffitt, M. G.* **2013** Polymer-Grafted Nanoparticles: From Hairy Balls to Smart Molecular Mimics. *J. Phys. Chem. Lett.*, **4**, 3654-3666, invited perspective review (citations = 66).

19. Wang, C.-W.; Sinton, D.; Moffitt, M. G.* **2013** Flow-Directed Loading of Block Copolymer Micelles with Hydrophobic Probes in a Gas-Liquid Microreactor. *Langmuir*, **29**, 8385-8394 (citations = 23).

20. Wang, C.-W.; Sinton, D.; Moffitt, M. G.* **2013** Morphological Control via Chemical and Shear Forces in Block Copolymer Self-Assembly in the Lab-on-Chip, *ACS Nano*, **7**, 1424-1436 (citations = 40).

21. Ribeiro , T.; Prazeres, T. J. V.; Moffitt, M. G.*; Farinha, J. P. S.* **2013** Enhanced Photoluminescence from Micellar Assemblies of Cadmium Sulfide Quantum Dots and Gold Nanoparticles, *J. Phys. Chem. C*, **117**, 3122-3133 (citations = 31).

22. Wang, C.-W.; Bains, A.; Sinton, D.; Moffitt, M. G.* **2012** Flow-Directed Assembly of Block Copolymer Vesicles in the Lab-on-Chip, *Langmuir*, **28**, 15756-15761 (citations = 29).

23. Harirchian-Saei, S.; Wang, M. C. P.; Gates, B. D.; Moffitt, M. G.* **2012** Directed Polystyrene/Poly(methylmethacrylate) Phase Separation and Nanoparticle Ordering on Transparent Chemically-Patterned Substrates, *Langmuir*, **28**, 10838-10848 (citations = 9) .

24. Wang, C.-W.; Sinton, D.; Moffitt, M. G.* **2011** Flow-Directed Block Copolymer Micelle Morphologies via Microfluidic Self-Assembly. *J. Am. Chem. Soc.*, **133**, 18853-18864 (citations = 74).

25. Izumi, C. M. S.; Moffitt, M. G.; Brolo A. G.* **2011** Statistics on Surface-Enhanced Resonance Raman Scattering from Single Nanoshells. *J. Phys. Chem. C*, **115**, 19104–19109 (citations = 14).

26. Guo, Y.; Harirchian-Saei, S.; Izumi, C. M. S.; Moffitt, M. G.* **2011** Block Copolymer Mimetic Self-Assembly of Inorganic Nanoparticles. *ACS Nano*, **5**, 3309-3318 (citations = 77).

27. Price, E. W.; Harirchian-Saei, S.; Moffitt, M. G.* **2011** Strands, Networks, and Continents from Polystyrene Dewetting at the Air-Water Interface: Implications for Amphiphilic Block Copolymer Self-Assembly. *Langmuir*, **27**, 1364-1372 (invited article for special issue on Supramolecular Chemistry at Interfaces) (citations = 17).

28. Harirchian-Saei, S.; Wang, M. C. P.; Gates, B. D.; Moffitt, M. G.* **2010** Patterning Block Copolymer Aggregates via Langmuir-Blodgett Transfer to Microcontact-Printed Substrates. *Langmuir,* **26**, 5998-6008 (citations = 27).

29. Wang, C.-W.; Oskooei, A.; Sinton, D.*; Moffitt, M. G.* **2010** Controlled Self-Assembly of Quantum Dot-Block Copolymer Colloids in Multiphase Microfluidic Reactors. *Langmuir*, **26**, 716-723 (citations = 36).

30. Price, E. W.; Guo, Y.; Wang, C.-W.; Moffitt, M. G.* **2009** Block Copolymer Strands with Internal Microphase Separation Structure via Self-Assembly at the Air-Water Interface. *Langmuir*, **25**, 6398-6406 (citations = 38).

31. Schabas, G.; Wang, C.-W.; Oskooei, A.; Yusuf, H.; Moffitt, M. G.*; Sinton, D.* **2008** Formation and Shear-Induced Processing of Quantum Dot Colloidal Assemblies in a Multiphase Microfluidic Chip. *Langmuir,* **24**, 10596-10603 (citations = 42).

32. Marthandam, P.; Brolo, A. G.; Sinton, D.; Kavanagh, K. L.; Moffitt, M. G.; Gordon, R., **2008** Nanoholes in Metals with Applications to Sensors and Spectroscopy. *Int. J. Nanotechnol.*, **5**, 1058-1081 (citations = 5).

33. Schabas, G.; Yusuf, H.; Moffitt, M. G.*; Sinton, D.*, **2008** Controlled Self-Assembly of Quantum Dots and Block Copolymers in a Microfluidic Device. *Langmuir,* **24**, 637-643 (citations = 50).

34. Guo, Y; Moffitt, M. G.*, **2007** "Smart" Self-Assembled Quantum Dots Regulate and Stabilize Structure in Phase-Separated Polymer Blends *Chem. Mater.*, **19**, 6581-6587 (citations = 17).

35. Guo, Y; Moffitt, M. G.*, **2007** Semiconductor Quantum Dots with Environmentally-Responsive Mixed Polystyrene/Poly(methyl methacrylate) Brush Layers. *Macromolecules*, **40**, 5868-5878. (Featured as one of *Macromolecules* Most-Accessed Articles in 2007) (citations = 55).

36. Yusuf, H.; Kim W.-G.; Lee, D. H.; Aloshyna, M.; Brolo, A. G.; Moffitt, M. G.*, **2007** A Hierarchical Self-Assembly Route to Three-Dimensional Polymer-Quantum Dot Photonic Arrays. *Langmuir*, **23**, 5251-5254 (citations = 42).

37. Cheyne, R. B.; Moffitt, M. G.*, **2007** Controllable Organization of Quantum Dots into Mesoscale Wires and Cables via Interfacial Block Copolymer Self-Assembly. *Macromolecules* **40**, 2046-2057 (citations = 37).

38. Yusuf, H.; Kim W.-G.; Lee, D. H.; Guo, Y.; Moffitt, M. G.*, **2007** Size Control of Mesoscale Aqueous Assemblies of Quantum Dots and Block Copolymers. *Langmuir*, **23**, 868-878 (citations = 59).

39. Cheyne, R. B.; Moffitt, M. G.*, **2006** Self-Assembly of Polystyrene-block-Poly(Ethylene Oxide) Copolymers at the Air-Water Interface: Is Dewetting the Genesis of Surface Aggregate Formation? *Langmuir*, **22**, 8387-8396 (citations = 88).

40. Brolo, A. G.*; Kwok, S. C.; Cooper, M. C.; Moffitt, M. G.*; Wang, C.-W.; Gordon, R.; Riordon, J.; Kavanagh, K. L., **2006** Surface Plasmon-Quantum Dot Couple from Arrays of Nanoholes. *J. Phys. Chem. B* **110**, 8307-8313 (citations = 68).

41. Brolo, A. G.*; Kwok, S. C.; Moffitt, M. G.; Gordon, R.; Riordon, J.; Kavanagh, K. L., **2005** Enhanced Fluorescence from Arrays of Nanoholes in a Gold Film. *J. Am. Chem. Soc,* **127**, 14936-14941 (citations = 208).

42. Cheyne, R. B.; Moffitt, M. G.*, **2005** Hierarchical Nanoparticle/Block Copolymer Surface Features *via* Synergistic Self-Assembly at the Air-Water Interface. *Langmuir,* **21**, 10297-10300 (citations = 58).

43. Wang, C.-W.; Moffitt, M. G.*, **2005** Nonlithographic Hierarchical Patterning of Semiconducting Nanoparticles via Polymer/Polymer Phase Separation. *Chem. Mater.*, **17**, 3871-3878 (citations = 35).

44. Cheyne, R. B.; Moffitt, M. G.*, **2005** Novel Two-Dimensional "Ring and Chain" Morphologies in Langmuir-Blodgett Monolayers of PS-b-PEO Block Copolymers: Effect of Spreading Solution Concentration on Self-Assembly at the Air-Water Interface. *Langmuir,* **21**, 5453-5460 (citations = 86).

45. Wang, C.-W.; Moffitt, M. G.*, **2005** Use of Block-Copolymer Stabilized Cadmium Sulfide Quantum Dots as Novel Tracers for Laser Scanning Confocal Fluorescence Microscopy of Blend Morphology in Polystyrene/Poly(methyl methacrylate) Films. *Langmuir,* **21**, 2465-2473 (citations = 26).

46. Wang, C.-W.; Moffitt, M. G.*, **2004** Surface-Tunable Photoluminescence from Block-Copolymer Stabilized Cadmium Sulfide Quantum Dots. *Langmuir,* **20**, 11784-11796 (citations = 127).

47. Moffitt, M. G.; Rharbi, Y.; Tong, J.-D.; Farhina, J. P. S.; Li, H.; Winnik, M. A.*, **2003**. Surface-Directed Morphology Evolution in Ternary Blends of Polyethyene/Polypropylene/Ethylene-Propylene Copolymer: a Study by Laser Scanning Confocal Fluorescence Microscopy. *J. Polym. Sci. B: Polym. Phys.,* **41**, 637-654 (citations = 11).

48. Moffitt, M. G.; Rharbi, Y.; Chen, W.; Tong, J.-D.; Winnik, M. A.*; Thurman, D. W.; Oberhauser, J. P.; Kornfield, J. A.; Ryntz, R. A., **2002**. Stratified Morphology of a Polypropylene / Elastomer Blend Following Channel Flow. *J. Poly. Sci. B: Poly. Phys.,* **40**, 2842-2859 (citations = 19).

49. Moffitt, M. G.; Rharbi, Y.; Li, H.; Winnik, M. A.*, **2002**. Novel Morphology Evolution in Thick Films of a Polymer Blend. *Macromolecules*, **35**, 3321-3324 (citations = 15).

50. Tong, J.; Moffitt, M. G.; Huang, X.; Winnik, M. A.*; Ryntz, R. A., **2001**. Use of a Dye-labeled Ethylene-butene Copolymer as a Tracer in Laser Scanning Confocal Fluorescence Microscopy Studies of Thermoplastic Olefins. *J. Poly. Sci. A: Poly. Chem.*, **39**, 239-252 (citations = 11).

51. Moffitt, M. G.; Winnik, M. A.*, **2000**. The Investigation of Phase Morphology in Thermoplastic Olefins by Laser Scanning Confocal Fluorescence Microscopy. *Polymer Science and Technology (Poly. Soc. Korea)*, **11**, 779-784 (citations = 1).

52. Moffitt, M. G.; Farinha, J. P. S.; Winnik, M. A.*; Rohr, U.; Mullen, K., **1999**. Steady-state and Dynamic Fluorescence Measurements of a Perylene-labeled Triblock Copolymer: Evidence for Ground-state Dye Aggregate Formation. *Macromolecules*, **32**, 4895-4904 (citations = 29).

53. Liu, R.; Moffitt, M. G.; Winnik, M. A.*; Heinemann, J; Mulhaupt, R., **1999**. Energy Transfer from Phenanthrene to Anthracene in a Dye-Labeled (Ethylene-Methyl Acrylate) Copolymer. *J. Poly. Sci. A: Poly. Chem.*, **37**, 4169-4175 (citations = 4).

54. Moffitt, M. G.; Vali, H.; Eisenberg, A.*, **1998**. Spherical Assemblies of Semiconductor Nanoparticles in Water-Soluble Block Copolymer Aggregates. *Chem. Mater.*, **10**, 1021-1028 (citations = 207).

55. Moffitt, M. G.; Yu, Y.; Nguyen, D.; Graziano, V.; Schneider, D. K.; Eisenberg, A.*, **1998**. Coronal Structure of Star-Like Block Ionomer Micelles: An Investigation by Small-Angle Neutron Scattering. *Macromolecules*, **31**, 2190-2197 (citations = 38).

56. Moffitt, M. G.; Eisenberg, A.*, **1997**. Scaling Relations and Size Control of Block Ionomer Microreactors Containing Different Metal Ions. *Macromolecules*, **30**, 4363-4373 (citations = 118).

57. Moffitt, M. G.; Eisenberg, A.*, **1997**. Tandem Interactions in the Self-Assembly of Ionic Block Copolymers. *Macromol. Symp.*, **117**, 181-193 (citations = 6).

58. Khougaz, K.; Zhang, L.; Moffitt, M. G.; Eisenberg, A.*, **1996**. Block Polyelectrolytes in Aqueous Environments. *Poly. Sci. USSR, Ser. A*, **38**, 331-340. Russian translation published in *Vysokomol. Soed., Ser. A,* **38**, 582-593 (citations = 5).

59. Moffitt, M. G.; Khougaz, K.; Eisenberg, A.*, **1996**. Micellization of Ionic Block Copolymers. *Acc. Chem. Res.,* **29**, 95-102 (citations = 431).

60. Moffitt, M. G.; McMahon, L.; Pessel, V.; Eisenberg, A.*, **1995**. Size Control of Nanoparticles in Semiconductor-Polymer Composites. 2. Control *via* Sizes of Spherical Ionic Microdomains in Styrene-Based Diblock Ionomers. *Chem. Mater*, **7**, 1185-1192 (citations = 301).

61. Moffitt, M. G.; Eisenberg, A.*, **1995**. Size Control of Nanoparticles in Semiconductor-Polymer Composites. 1. Control *via* Multiplet Aggregation Numbers in Styrene-Based Random Ionomers. *Chem. Mater.*, **7**, 1178-1184 (citations = 325).

b. Books and Chapters in Books

1. Zhang, L.; Khougaz, K.; Moffitt, M. G.; Eisenberg, A.*, **2000**. Self-assembly of Block Polyelectrolytes, in: *Amphiphilic Block Copolymers: Self-Assembly and Applications* (P. Alexandridis and B. Lindman, eds.), pp. 87-113, Elsevier, Amsterdam. (citations = not available).
2. Moffitt, M. G.; Zhang, L.; Khougaz, K.; Eisenberg, A.*, **1996**. Micellization of Ionic Block Copolymers in Three Dimensions, in: *Solvents and Self-Organization of Polymers (NATO ASI)* (S. E. Webber et al., eds.), pp. 53-72, Kluwer Academic Publishers, Dordrecht. (citations = 14)

c. Presentations at Conferences or Institutions (presenting author underlined)

Invited Conference Presentations:

1. Moffitt, M. G. "Microfluidic Manufacturing of Polymer Nanomedicines" Oral Presentation— presented at the 101st Canadian Chemistry Conference and Exhibition (CSC 2018) in Edmonton— May 27-May 31, 2018
2. Moffitt, M. G. "Microfluidic Manufacturing of Polymer Nanoparticles for Drug Delivery: Combining Chemistry and Processing for Polymeric Nanomedicines" Oral Presentation— presented at the 100th Canadian Chemistry Conference and Exhibition (CSC 2017) in Toronto—May 28-June 1, 2017.
3. Moffitt, M. G. "Directed Self-Assembly of Polymeric Drug Delivery Nanoparticles in Segmented Microfluidic Reactors" Oral Presentation— invited to 99th Canadian Chemistry Conference and Exhibition (CSC 2016) in Halifax—June 5-9, 2016 (*presentation cancelled due to illness*).
4. Moffitt, M. G. "Directed Assembly of Polymeric Nanoparticles in Microfluidic Devices" Oral Presentation— presented at ACS Spring 2016 Meeting in San Diego, CA—March 13-17, 2016
5. Moffitt, M. G. "Microfluidic Self-Assembly of Block Copolymers: Towards Flow-Directed Drug Delivery Formulations On-chip" Oral Presentation— presented at NanoLytica Symposium at Simon Fraser University, Vancouver, BC— March 14, 2014
6. Moffitt, M. G. "Self-Assembly of Block Copolymers and Polymer-Functionalized Nanoparticles: from Microfluidics to Molecular Mimics" Oral Presentation— presented at the 35th Canadian High Polymer Forum in Guananoque, Ontario—Aug. 14-17, 2012.

7. Moffitt, M. G. "Self-Assembly and Loading of Block Copolymer Micelles in Microfluidic Devices: Down the Rabbit Hole to the Lab-on-Chip" Oral Presentation— presented at the 95th Canadian Chemistry Conference and Exhibition (CSC 2012) in Calgary—May 26-30, 2012.
8. Moffitt, M. G.; Harirchian-Saei, S.; Price, E. W.; Cheyne, R. B. "Aggregates of Block Copolymers and Quantum Dots at the Air-Water Interface: Self-Assembly and Patterning", Oral Presentation— presented at the 13th International Conference on Organized Molecular Films (LB13) in Quebec City, July 18-21, 2010.
9. Moffitt, M. G.; Harirchian-Saei, S.; Wang, C.-W.; Sinton, D. "Self-Assembly of Polymer-Functionalized Quantum Dots in Two- and Three-Dimensions (With a Little Help from the Top)", Oral Presentation— presented at the 93rd Canadian Chemistry Conference and Exhibition (CSC 2010) in Toronto– May 29-June 2, 2010.
10. Moffitt, M. G.; Guo, Y. "Block Copolymer-Inspired Multiple Morphologies from Self-Assembly of Amphiphilic Polymer-Stabilized Quantum Dots", Oral Presentation— presented at the 93rd Canadian Chemistry Conference and Exhibition (CSC 2010) in Toronto– May 29-June 2, 2010.
11. Moffitt, M. G. ; Schabas, G.; Wang, C.-W.; Yusuf, H.; Sinton, D. "Controlled Self-Assembly of Quantum Dots and Block Copolymers in Microfluidic Devices" Oral Presentation— presented at CMOS (Communications, Medical, Optoelectronics, Semiconductors) Emerging Technologies, Banff 2009 Workshop—Feb 18-20, 2009.
12. Moffitt M. G.; Guo, Y. "Synthesis and Self-Assembly of 'Smart' Quantum Dots with a Mixed Polymer Brush Layer" Oral Presentation— presented at the 90th Canadian Chemistry Conference and Exhibition (CSC 2007) in Winnipeg– May 26 – 30, 2007.
13. Moffitt M. G.; Cheyne, R. B.; von Aderkas, E. "Block Copolymers and Quantum Dots: Adventures in Self-Assembly at the Air-Water Interface" Oral Presentation— presented at the 90th Canadian Chemistry Conference and Exhibition (CSC 2007) in Winnipeg– May 26 – 30, 2007.
14. Moffitt, M. G.; Yusuf, H.; Kim, W.-G. "A Sequential Self-Assembly Route To Three-Dimensional Block Copolymer-Semiconducting Nanoparticle Photonic Arrays With Structural Hierarchy" Invited Oral Presentation— presented at the American Chemical Society National Meeting in San Francisco– September 10-14, 2006.

Invited Seminars:

15. Moffitt, M. G. "Microfluidic Manufacturing of Polymer Nanoparticles for Drug Delivery: Combining Chemistry and Processing for Polymeric Nanomedicines." Department of Chemistry, University of British Columbia, November 2017.
16. Moffitt, M. G. "Hierarchical Assemblies of Block Copolymers: from Molecular Mimics to Microfluidics." Department of Chemistry, University of Utah, April 2017.
17. Moffitt, M. G. "Directed Assembly of Polymeric Nanoparticles in Microfluidic Devices." Department of Physics, Simon Fraser University, February 2016.
18. Moffitt, M. G. "Directed Assembly of Polymeric Nanoparticles in Microfluidic Devices." Department of Chemistry, University of Toronto, January 2016.
19. Moffitt, M. G. "Microfluidic Self-Assembly of Block Copolymers: Towards Flow-Directed Drug Formulations On-Chip." Department of Chemistry, University of Toronto, January 2014.

20. Moffitt, M. G. "Self-Assembly and Loading of Block Copolymer Micelles in Microfluidic Devices: Down the Rabbit Hole to the Lab-on-Chip" Xerox Research Centre of Canada, April 2012
21. Moffitt, M. G. "Directing Block Copolymer Self-Assembly in Two- and Three-Dimensions (With a Little Help from the Top)" Department of Chemistry, University of Toronto, February 2012.
22. Moffitt, M. G. "Hierarchical Self-Assembly of Polymer-Functionalized Nanoparticles: from Molecular Mimics to Microfluidics" Department of Chemistry, University of Montreal, February 2011.
23. Moffitt, M. G. "Hierarchical Self-Assembly of Polymer-Functionalized Nanoparticles: from Molecular Mimics to Microfluidics" Department of Chemistry, Concordia University, February 2011.
24. Moffitt, M. G., "Self-Assembly of Polymer-Functionalized Quantum Dots in Two- and Three-Dimensions (With a Little Help from the Top)", Centro de Química-Física Molecular, Instituto Superior Técnico (Lisbon, Portugal), December 2009.
25. Moffitt, M. G., "Self-Assembly of Polymer-Functionalized Quantum Dots in Two- and Three-Dimensions (With a Little Help from the Top)", Department of Chemistry, University of Aveiro (Aveiro, Portugal), November 2009.
26. Moffitt, M. G., "Self-Assembly of Polymer-Functionalized Quantum Dots in Two- and Three-Dimensions (With a Little Help from the Top)", Department of Chemistry, University of Coimbra (Coimbra, Portugal), November 2009.
27. Moffitt, M. G., "Hierarchical Polymer/Nanoparticle Assemblies: Toward Functional Materials from the Bottom Up" Department of Chemistry, Simon Fraser University, February 2006.
28. Moffitt, M. G., "Hierarchical Assemblies of Semiconducting Quantum Dots and Block Copolymers: Toward Functional Materials from the Bottom Up" Department of Chemistry, Acadia University, November 2005.
29. Moffitt, M. G., "Hierarchical Assemblies of Semiconducting Quantum Dots and Block Copolymers: Toward Functional Materials from the Bottom Up" Department of Chemistry, Mount Allison University, November 2005.
30. Moffitt, M. G., "Hierarchical Assemblies of Semiconducting Quantum Dots and Block Copolymers: Toward Functional Materials from the Bottom Up" Department of Chemistry, University of New Brunswick, November 2005.
31. Moffitt, M. G., "Hybrid Building Blocks of Semiconducting Quantum Dots and Block Ionomers: The Quest for Functional Hierarchical Assemblies", Department of Chemistry, University of Toronto, January 2005.
32. Moffitt, M. G., "Inorganic Nanoparticle Synthesis in Block Ionomer Micelles: Size Control, Stability, and Versatility", Department of Chemistry, McGill University, September 1998.

Contributed Conference Presentations:

33. Huang, Y.; Jazani, A.; Oh, J.-K. Moffitt, M. G. "Microfluidic Control of Structure and Drug Delivery Properties of Biological Stimuli-Responsive Block Copolymer Nanoparticles" Oral Presentation—Presented at the 102nd Canadian Chemistry Conference and Exhibition (CSC 2019) in Quebec City—June 3-7, 2019.

34. Moffitt, M. G. "Microfluidic Manufacturing of SN-38-Loaded Polymer Nanoparticles with Shear Processing Control of Drug Delivery Properties" Oral Presentation— Presented at the 102nd Canadian Chemistry Conference and Exhibition (CSC 2019) in Quebec City—June 3-7, 2019.

35. Kly, S.; Moffitt, M. G. "Building a Nanotechnology Toolbox for Drug Delivery" Poster Presentation— Presented at the 102nd Canadian Chemistry Conference and Exhibition (CSC 2019) in Quebec City— June 3-7, 2019.

36. Silverman, L.; Bhatti, G.; Moffitt, M. G. "Microfluidic Co-encapsulation of Curcumin with SN-38 in PCL-*b*-PEO PNPs" Poster Presentation— Presented at the Annual Canadian Society for Pharmaceutical Sciences Symposium (CSPS 2019) in Vancouver—May 21-24, 2019.

37. Silverman, L.; Bhatti, G.; Moffitt, M. G. "Microfluidic Co-encapsulation of Curcumin with SN-38 in PCL-*b*-PEO PNPs" Nominated CIHR Poster Presentation— Presented at the Canadian Student Health Research Forum (CSHRF 2019) in Winnipeg—June 12, 2019.

38. Wulff, J. E., Chen, J., Burns, F., Moffitt, M. G. "Functionalized Polydicyclopentadienes" Oral Presentation— Presented at the 99th Canadian Chemistry Conference and Exhibition (CSC 2016) in Halifax—June 5-9, 2016.

39. Bains, A., Moffitt, M. G. "Studies on Morphology and Crystallinity of On-Chip Self-Assembled Polycaprolactone-*block*-Poly(ethylene oxide) and Subsequent Effects on Drug Loading and Release" Oral Presentation— Presented at the 98th Canadian Chemistry Conference and Exhibition (CSC 2015) in Ottawa—June 13-17, 2015.

40. Xu, Z., Zhao, Y., Moffitt, M. G. "Structural Control of Block Copolymer Micelles on Microfluidic Reactors: Towards Drug Delivery Applications" Poster Presentation— Presented at the 98th Canadian Chemistry Conference and Exhibition (CSC 2015) in Ottawa—June 13-17, 2015.

41. Coleman, B. R., Moffitt, M. G. "Block Copolymer-Mimetic Self-Assembly of Inorganic Nanoparticles: Probing Brush Composition and Chain Length Effects" Poster Presentation— Presented at the 98th Canadian Chemistry Conference and Exhibition (CSC 2015) in Ottawa—June 13-17, 2015.

42. Bains, A., Moffitt, M. G. "Flow-Directed Microfluidic Self-Assembly of Polycaprolactone-*block*-Poly(ethylene oxide) Micelles for Drug Delivery" Oral Presentation—Presented at the 97th Canadian Chemistry Conference and Exhibition (CSC 2014) in Vancouver— June 1-5, 2014.

43. Coleman, B., Moffitt, M. G. "Block Copolymer-Mimetic Self-Assembly of Inorganic Nanoparticles", Poster Presentation—Presented at the 97th Canadian Chemistry Conference and Exhibition (CSC 2014) in Vancouver— June 1-5, 2014.

44. Xu, Z., Zhao, Y., Moffitt, M. G. "Microfluidic Manufacturing and Control of Photoactive Block Copolymer Micelles", Poster Presentation—Presented at the 97th Canadian Chemistry Conference and Exhibition (CSC 2014) in Vancouver— June 1-5,

45. Moffitt, M. G., Bains, A., Wang, C.-W.; Sinton, D. "Solution Self-Assembly of Block Copolymers in Microfluidic Devices: Towards Polymeric Drug Delivery Vehicles in the Lab-on-Chip", Oral Presentation—Presented at the 96th Canadian Chemistry Conference and Exhibition (CSC 2013) in Quebec City— May 26-30, 2013.

46. Coleman, B., Moffitt, M. G. "Block Copolymer-Mimetic Self-Assembly of Inorganic Nanoparticles", Poster Presentation—Presented at the 96th Canadian Chemistry Conference and Exhibition (CSC 2013) in Quebec City— May 26-30, 2013.

47. Oskuie, A.; Bergeron, J.; Pang, Y.; Moffitt, M. G.; Gordon, R., "Optical Trapping of an Encapsulated Quantum Dot Using a Double Nanohole Aperture in a Metal Film", Oral Presentation—presented at the Conference on Optical Trapping and Optical Micromanipulation IX in San Diego, CA— August 12-16, 2012.

48. Moffitt, M. G.; Wang, C.-W.; Sinton, D. "Flow-Induced Morphological Transitions for Block Copolymer Micellization in a Microfluidic Device", Oral Presentation—presented at the 94th Canadian Chemistry Conference and Exhibition (CSC 2011) in Montreal– June 5-June 9, 2011.

49. Harirchian-Saei, S.; Wang, M. C. P.; Gates, B. D.; Moffitt, M. G. "Patterning Polymer-Nanoparticle Assemblies via Polymer/Polymer Phase Separation on Microcontact-Printed Substrates", Oral Presentation—presented at the 94th Canadian Chemistry Conference and Exhibition (CSC 2011) in Montreal– June 5-June 9, 2011.

50. Harirchian-Saei, S.; Wang, M. C. P.; Gates, B. D.; Moffitt, M. G. "Patterning Block Copolymer Aggregates via Langmuir-Blodgett Transfer to Microcontact-Printed Substrates", Oral Prinsentation—presented at the 94th Canadian Chemistry Conference and Exhibition (CSC 2011) in Montreal– June 5-June 9, 2011.

51. Harirchian Saei, S.; Moffitt, M. G. "Directed Placement and Orientation of Self-Assembled Block Copolymer/Quantum Dot Wires and Cables on Patterned Glass Substrates" Poster Presentation— presented at the 91th Canadian Chemistry Conference and Exhibition (CSC 2008) in Edmonton– May 24 – 28, 2008.

52. Moffitt, M. G. ; Schabas, G.; Yusuf, H.; Sinton, D. "Controlled Self-Assembly of Quantum Dots and Block Copolymers in Microfluidic Devices" Oral Presentation— presented at the 91th Canadian Chemistry Conference and Exhibition (CSC 2008) in Edmonton– May 24 – 28, 2008.

53. Schabas, G.; Wang, C.-W.; Moffitt, M. G.; Sinton, D. "Quantum Dot Micelle Assembly with Microfluidics" Zing Microfluidics and Nanofluidics Conference, Cancun, 21-24 February 2008.

54. Guo, Y.; Moffitt, M. G. "Synthesis and Self-Assembly of Quantum Dots with Mixed Polymer Brush Layers: 'Smart' Nanoparticles" Poster Presentation– presented at Gordon Conference on Polymers (Polymer East) at Mount Holyoke College in South Hadley, MA.—June 17-22, 2007.

55. Moffitt, M. G.; Cheyne, R. B. "Self-Assembly of PS-*b*-PEO Diblock Copolymers at the Air-Water Interface: Is Dewetting the Genesus of Morphology Formation?" Oral Presentation— presented to the World Polymer Congress 41st International Symposium on Macromolecules (Macro 2006) in Rio de Janerio, Brazil—July 16-21, 2006 (Supported by IUPAC/CNC Travel Award).

56. Moffitt, M. G.; Yusuf, H.; Kim, W.-G. "A Sequential Self-Assembly Route To Three-Dimensional Block Copolymer-Semiconducting Nanoparticle Photonic Arrays With Structural Hierarchy" Oral Presentation— presented at 89th Canadian Chemistry Conference and Exhibition (CSC 2006) in Halifax– May 27 – 31, 2006.

57. Moffitt, M. G., Cheyne, R. B., Wang, C.-W. "Hierarchical Assemblies of Semiconducting Quantum Dots and Block Copolymers: Toward Functional Materials from the Bottom Up" Oral Presentation – presented at the 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005) in Honolulu, Hawaii – December 15-20, 2005.

58. A. G. Brolo, R. Gordon, K. L. Kavanagh and M. G. Moffitt, "Metallic Nanostructures and their Application in Nanophotonics and Biosensing", (2005) Keynote lecture (invited) at The International Conference on Nanotechnology: Science and Application [NanoTech Insight'05] Luxor, Egypt 20-25 February 2005.

59. A. G. Brolo, S. Kwok, M. G. Moffitt, R. Gordon, K. L. Kavanagh and J. Riordon, "Spontaneous Emission from Quantum Dots Modified by Surface Plasmon Resonances", Oral Presentation – presented at 88th Canadian Chemistry Conference and Exhibition (CSC 2005) in Saskatoon – May 28th – June 1st, 2005.

60. Moffitt, M. G.; Cheyne, R. B. "Hierarchical Block Copolymer/ Quantum Dot Surface Features via Self-Assembly at the Air-Water Interface", Poster Presentation– presented at Gordon Conference on Polymers (Polymer East) at Mount Holyoke College in South Hadley, MA.—June 19-24, 2005.

61. Moffitt, M. G.; Cheyne, R. B. "Hierarchical Block Copolymer/ Quantum Dot Surface Features via Self-Assembly at the Air-Water Interface", Poster Presentation– presented at 88th Canadian Chemistry Conference and Exhibition (CSC 2005) in Saskatoon – May 28th – June 1st, 2005.

62. Moffitt, M. G.; Cheyne, R. B.; Wang, C.-W. "Hierarchical Assemblies of Semiconducting Quantum Dots and Block Copolymers: Toward Functional Materials from the Bottom Up", Oral Presentation – presented at 88th Canadian Chemistry Conference and Exhibition (CSC 2005) in Saskatoon – May 28th – June 1st, 2005.

63. Wang, C.-W.; Moffitt, M. G. "Hybrid Building Blocks of Semiconducting Quantum Dots and Block Ionomers: Photoluminescence Characterization and Patterning in Polymer Blends", poster presentation at the 87th Canadian Society of Chemistry Conference, London, Ontario, May 2004.

64. Moffitt, M. G. "Hybrid Building Blocks of Semiconducting Quantum Dots and Block Ionomers: The Quest for Hierarchical Assemblies", a contributed oral presentation at the 87th Canadian Society of Chemistry Conference, London, Ontario, May 2004.

65. Moffitt, M. G.; Rharbi, Y.; Tong, J.-D.; Winnik, M. A.; Thurman, D. W.; Oberhauser, J. P.; Kornfield, J. A.; Ryntz, R. A., "Stratified Morphology of a Polypropylene / Elastomer Blend Under Channel Flow", a contributed oral presentation at the 74th Annual Meeting of the Society of Rheology, Minneapolis, Minnesota, October 2002.

66. Thurman, D. W.; Moffitt, M. G.; Kornfield, J. A.; Oberhauser, J. P.; Rharbi, Y.; Tong, J.; Winnik, M. A.; Ryntz, R., "Stratified Morphology of a Polypropylene/Elastomer Blend Under Channel Flow.", a contributed oral presentation at the 223rd ACS National Meeting, Orlando, Florida, April 2002.

67. Moffitt, M. G.; Rharbi, Y.; Tong, J.-D.; Farhina, J. P. S.; Li, H.; Winnik, M. A., "Morphology and Interfacial Structure in Ternary Blends of Polyethylene/Polypropylene/Ethylene-Propylene Copolymer: a Study by Laser Scanning Confocal Fluorescence Microscopy" a contributed oral presentation at the 2000 Canadian High Polymer Forum, Aylmer, Quebec, August 2000.

68. Moffitt, M. G.; Vali, H.; Eisenberg, A., "Novel Spherical Assemblies of Semiconductor Nanoparticles in Water-Soluble Block Copolymer Aggregates", a contributed oral presentation at the 1998 Canadian High Polymer Forum, Quebec City, Quebec, August 1998.

69. Moffitt, M. G.; McMahon, L.; Pessel, V.; Eisenberg, A., "Size Control of Nanoparticles in Semiconductor-Polymer Composites", a contributed poster presentation at the 1995 Gordon Research Conference on Ion-Containing Polymers, Plymouth State College, New London, N.H., June 1995.

70. Moffitt, M. G.; McMahon, L.; Pessel, V.; Eisenberg, A., "Size Control of Nanoparticles in Semiconductor-Polymer Composites", a contributed poster presentation at Colloque 1994, Les Polymeres: Leurs Applications en Haute Technologie, Lavel University, Quebec City, Quebec, December 1994.

d. Patents Filed

1. J. E. Wulff, J. Chen, M. G. Moffitt, and F. Burns (**2016**) Functionalized Polydicyclopentadiene. US Provisional Patent Application No. 62/347,446. Filed June 8, 2016.

7. UNDERGRADUATE STUDENT TRAINING

a. Undergraduates Supervised

Student	Type of supervision	Period of supervision
Riddhi Badhwar	CHEM 398	May 2019-
Gitika Bhatti	CHEM 399	May 2019-
Gitika Bhatti	CHEM 398	Sept. 2018-April 2019
Erin Moloney	CHEM 398	Jan. 2019-April 2019
Elliot Howell	CHEM 398	Jan. 2019-April 2019
Lucas Andrew	CHEM 499	Sept. 2018-April 2019
Jatin Chauhan	CHEM 399	Sept. 2018-Dec. 2018
Zach Snow	CHEM 399	Sept. 2018-Dec. 2018
Zach Snow	CHEM 398	May 2018-Aug. 2018
Erin Moloney	CHEM 298	May 2018-Dec. 2018
Riddhi Badhwar	CHEM 398	Jan. 2018-Aug. 2018
Nathan Dao	CHEM 398	Jan. 2018-April 2018
Lucas Andrew	CHEM 398	Jan. 2018-Aug. 2018
Charlotte Dewer	CHEM 499	Jan. 2017-Aug. 2017
Danica Jensen	CHEM 399	Jan. 2017-April 2017
Patty Thompson	CHEM 398	Sept. 2016-April 2017
Anthony Hinde	CHEM 398	May 2016-April 2017
Carly Lindenberger	CHEM 398	Jan. 2016-April 2016
James Hui	CHEM 398	Jan. 2016-Dec. 2016
Kyle van Gordon	CHEM 398	Sept. 2015-April 2017
Savannah Gellner	CHEM 398	Sept. 2015-Dec. 2015
Patty Thompson	CHEM 398	Sept. 2015-Dec.2015
Kyle van Gordon	Summer Student	May 2015-Aug. 2015
Savannah Gellner	Summer Student	May 2015-Aug. 2015
Jeff Zhang	Summer Student	May 2015-Aug. 2015
Julio Martelino	CHEM 298	Jan. 2015-April 2015
Athena Bolyos	CHEM 298	Jan. 2015-April 2015
Kyle van Gordon	CHEM 298	Jan. 2015-April 2015
MacKenzie Mey	CHEM 298	Sept. 2014-Dec. 2014
Sundiata Kly	undergrad researcher	Sept. 2014-May 2015
Sabrina Ostropolski	Summer Student	May 2014-Sept. 2014
Sundiata Kly	Summer Student	May 2014-Sept. 2014
Kathleen Ming	CHEM 298	Jan 2014-April 2014
Sundiata Kly	CHEM 498	Jan 2014-April 2014
Janet Nymann	CHEM 298	Jan 2013-August 2013
Janet Nymann	CHEM 298	Sept 2012-Dec. 2012
Kevin Young	CHEM 298	May 2012-Sept. 2012
Christine Wilson	CHEM 298	May 2012-Sept. 2012

Christine Wilson	CHEM 298	Jan. 2012-April 2012
Danielle Trickett	undergrad researcher	Jan. 2012-April 2012
Danielle Trickett	CHEM 498	Jan. 2011-March 2011
Eric Price	CHEM 499	Sept. 2008-Feb. 2009
Eric Price	Co-op Student[1,3]	May-Aug. 2007
Eleanor von Aderkas	Summer Student[1]	May-Aug. 2006
Matt Cooper	Co-op Co-op[2]	May-Aug. 2005
Hong Guo	Summer Student[1]	May-Aug. 2004
Sharon Sharma	Summer Student	May-Aug. 2003

b. Undergraduate Student Awards

[1] NSERC Undergraduate Student Research Award
[2] CSC 2006 Undergraduate Poster Competition
[3] Co-op Work Term Report Competition: 3rd place among 30 students

8. GRADUATE STUDENTS, VISITING SCIENTISTS AND POSTDOCTORAL FELLOWS

a. Graduate Students Directly Supervised or Co-supervised

Name	Period of Supervision	Degree Awarded	Present position
Anup Singh	2019-	Masters, enrolled	
Yuhang Huang	2018-	Masters, enrolled	
Liza Silverman	2018-	PhD, enrolled	
Sundiata Kly	2015-	PhD, enrolled	
Kyle Van Gordon	2017-2018	Masters (incomplete)	
Joseph Sefton	2017-2018	Masters (incomplete)	
Elisabeth Gleis	2018	Masters (2018)	Master's, Tech. Univ. Munich
Natkritta Huppe	2017	Masters (2017)	Master's, Max-Planck-Institute
Luca Talter	2017	Masters (2017)	PhD, Texas Christian University
Tania Ribeiro	2012	PhD (2016)	PDF, Instituto Superior Tecnico
Amy Chen	2014-2017	Masters (2017)	Data Analyst, Rakuten Kobo
Yimeng Cao	2014-2017	Masters (2017)	Lab Analyst, ALS Environmental
Fraser Burns	2013-2017	Masters (2017)	Instrument Test Tech., Perkin Elmer
Abby Xu	2012-2016	Masters (2016)	Anal. Chemist, SWITCH Materials
Brian Coleman	2012-2016	Masters (2016)	Technical Officer, NRC
Aman Bains	2011-2016	PhD (2016)	Head of Research, Syscor
Gavin Phinney	2010-2011	PhD (incomplete)	GeoChemist, Canadian Natural
Jiro Sakaya	2007-2008	Masters (incomplete)	
Joe Wang	2007-2012	PhD (2012)	Qual. Assur. Manager, Moldex3D
Saman Harirchian Saei	2006-2012	PhD (2012)	Product Development Scientist, BFG
Yunyong Guo	2004-2009	PhD (2009)	Health Information Sciences
Huda Yusuf	2003-2006	Masters (2006)	Chemical Analyst, Boston Scientific
Rob Cheyne	2004-2005	Masters (2005)	ER MD
Joe Wang	2002-2005	Masters (2005)	Qual. Assur. Manager, Moldex3D

b. Other Contributions to Graduate Student Supervision

Name	Period of Supervision	Degree Program	Type of Supervision*
Steve McKinnon	2002-2005	Masters	1
	2005-2009	PhD	1
Emine Yildiz	2003-2006	Masters (Mech. Eng.)	1
Horace Luong	2004-2008	PhD	1
Jakub Drnec	2004-2010	PhD	1
Danielle Chisholm	2004-2010	PhD	1
Jiguang Zhang	2005	PhD (University of Toronto)	2
Jason Anema	2005-2009	PhD	1
Meikun Fan	2005-2009	PhD	1
Prabhakaran Munusamy	2005-2007	PhD	1
Bin Yan	2005-2008	PhD	1
Christine Tong	2006	PhD	1
Cunhui Dong	2005-2011	PhD	1
Keith Abel	2006-2011	PhD	1
Jeff Coleman	2005	Masters (Mech. Eng.)	3
Mohamed M. Rehan	2006	PhD (Elec. and Comp. Eng.)	3
Angela de Leebeeck	2006	Masters (Mech. Eng.)	2
Daniel Mellott	2007	PhD (Biology)	3
Joshua LaForge	2005-2007	Masters (Physics)	1
Greg Schabas	2006-2007	Masters (Mech. Eng.)	1
Tao Wang	2007	Masters	1
Mark Randall	2008	Masters (History)	3
Jusroop Mattu	2008	PhD (Simon Fraser University)	2
Hui Ting Zhang	2008-10	Masters	1
Andrew Chou	2008-10	Masters	1
William Duncan	2010	PhD (SEOS)	3
Iryna Perepichka	2011	PhD (University of Montreal)	2
Jose Rodriguez	2011	PhD (University of Alberta)	2
Kyle Dodge	2010-2011	Masters	1
Hamad Khorami	2011	PhD (Elec. And Comp. Eng.)	1
Jeffrey Waldner	2011	Masters (Mech. Eng.)	3
Jordan Cramen	2011-2015	Masters	1
Milton Wang	2011-2014	PhD	1
Morgan Millard	2011-2013	Masters	1
Mehraveh Seyedalikhani	2011-2015	PhD	1
Jonathan Strobl	2011-2013	Masters	1
Trystyn Berg	2014-2018	PhD (Physics)	1
Mengxiu Zheng	2014-2015	Masters	1
Laura Whitehead	2014	Masters (Music)	3
Katie Reid	2014	Masters (Political Science)	3
Emilian Tuca	2011-	PhD	1
Chelsea Spengler	2016-	PhD (Physics)	1
Derek Blevins	2017-	PhD	1
Tory Borsboom-Hanson	2017-	PhD	1

Helia Nejad	2018-	Masters	1
América Palacios	2017-	Masters	1
Tong Li	2016-	PhD	1

(1) Member of supervisory committee (but not direct supervisor or co-supervisor)
(2) External examiner (indicate if at another university)
(3) Chairman of examination committee

c. Training and Supervision of Other Highly Qualified Personnel

Name	**Period of Supervision**	**Present position**
Telmo Prazeres (Post-Doc)	2008	Environmental Officer (Portugal)
Celly Izumi (Post-Doc)	2008-2009	Faculty, University of San Paulo (Brazil)
Changhai Lu (Post-Doc)	2014	Senior Scientist, Gensci Pharma.
Alex Leung (Post-Doc)	2014-2015	PDF, Centre for Heart Lung Innovation

9. SERVICE and PROFESSIONAL ACTIVITIES

a. University and Faculty Committees

2014	Hiring Committee for CAMTEC director
2008-2009	Faculty of Science Graduate Advisory Committee
2006-2007	Hiring Committee for Chemistry Department Chair
2006	Hiring Committee for CAMTEC director
2004-2010	Electron Microscopy and Advanced Imaging Lab Users Committee
2002-2003	Member, Elliott Building Users Committee
2002-	Member, CAMTEC (UVic)

b. Departmental Committees and Responsibility

2011-	Chair, Publicity and Undergraduate Recruitment Committee
2017-	MS Advisory Group
2017-	CHEM 36X Working Group
2018	SLI and LA Search Committees
2017	ARTP Committee (CRC 150 Search)
2017-2018	ARTP Committee (Promotion)
2014-2017	Member, Curriculum Review Steering Committee
2014	Department Representative, McMaster University Graduate Studies Fair
2012-2015	Co-Chair Duties Committee
2012	Department Representative, McMaster University Graduate Studies Fair
2011-2012	Chair, Working Group on Undergraduate Recruitment
2010-2012	Member, Duties Committee
2011-2012	Chair, Publicity Committee
2010-2011	Member, Publicity Committee
2010-2011	Member, Co-op Committee
2008-2009	Chair, CHEM 498-499 Committee
2007-2009	Member, Graduate Studies Committee
2005-2008	Member, CHEM 498-499 Committee
2005-2006	Member, Initial Appointments Subcommittee

2005 Department Representative, graduate student recruitment tour
2005 Department Representative, McMaster University Graduate Studies Fair
2003-2008 Member, Undergraduate Studies Committee
2003-2006 Chair, Seminar Program

c. Membership and Service on International, National and Provincial Professional Societies

2017- Leader and Co-director of CREATE Polymer Nanoparticles for Drug Delivery (PoND)
2017- Chair, PoND Admissions and Recruitment Committee (ARC)
2018- Chair, PoND Industrial Liaison Committee (ILIAC)
2018 Chair, PoND 2018 Research Days Committee
2012-2016 Member-at-Large, national executive of MSED Division of CSC
2011- Member, College of Reviewers, Canada Research Chair Program
2009-2010 Vice President on executive of Vancouver Island Section of CIC
2004-2009 Membership Officer on executive of Vancouver Island Section of CIC
2003-2004 Member-at-large on executive of Vancouver Island Section of CIC
2002- Member, Chemical Institute of Canada (Canadian Society for Chemistry division)
2002- Member, American Chemical Society

d. Conference Organizational Committees

2018 "Polymers in Biomedical Applications" 2018 CSC Conference, *symposium co-organizer*
2014 "Self-Assembled Block Copolymer Materials" 2014 CSC Conference, *symposium organizer.*
2012 National Program Division Chair, Macromolecular Science, 95th Canadian Chemistry Conference and Exhibition (CSC 2012) in Calgary.
2010 "From Nanoparticles to Nanostrucutures: Synthesis, Characterization, and Applications" 2010 Pacifichem Conference, Honolulu, Hawaii, *symposium co-organizer*
2006 "Semiconductor and Metal Nanoparticles: Chemistry, Properties and Applications" 2006 CSC Conference, Halifax, *symposium co-organizer*

f. Grant Proposals Reviewed

year	**Grant(s) Reviewed**
2003	NSERC *Strategic Grant* (1)
	NSERC *Discovery Grant* (1)
2004	NSF *Instrumentation & Facilities Program* (1)
	NSF *Major Research Instrumentation Program* (1)
2005	NSF *National Facilities and Instrumentation Program* (1)
	NSF *Cyberinfrastructure and Research Facilities Program* (1)
	NSERC *Strategic Grants* (3)
	NSERC *Discovery Grants (*2)
2006	NSERC *Idea to Innovation Grant* (1)
	NSERC *Discovery Grants (*2)
	Research Corporation Cottrell College Science Award Proposal (1)
2007	NSERC *Discovery Grant* (1)
	Research Corporation Cottrell College Science Award Proposal (1)
2008	NSERC *Discovery Grants* (2)
2009	NSERC *Discovery Grant* (1)
	referee for Killam Research Fellowship (1)
2010	NSERC *Strategic Grant* (1)

NSERC *CRD Grant* (1)
2011 DOE *Basic Energy Sciences (BES) Grant* (1)
CRC *Canada Research Chair renewal* (1)
NSERC *Discovery Grant* (1)
NSERC *Major Resources Support* (1)
NSERC *Strategic Project Grant* (1)
2012 NSERC *Collaborative Research and Development (CRD) Grant* (2)
2013 NSERC *Collaborative Research and Development (CRD) Grant* (1)
NSERC *Idea to Innovation (I2I) Grant* (1)
NSF *Grant* (1)
2014 NSERC *Discovery Grant* (3)
2015 NSERC *Discovery Grant* (1)
NSERC *Strategic Grant* (1)
CRC *Canada Research Chair renewal* (1)
CFI *John R. Evans Leaders Fund* (1)
2016 NSERC *Discovery Grant* (3)
NSERC *CREATE Grant* (1)
2017 NSERC *Discovery Grant* (1)
NSERC *Idea to Innovation (I2I) Grant* (1)
2018 NSERC *Discovery Grant* (1)
CRC *Canada Research Chair renewal* (1)
2019 NSERC *Idea to Innovation (I2I) Grant* (1)
NSERC *CRD Grant* (1)

g. Visiting Scientists Hosted

2019	Prof. Jiying Men	North University of China
2010	Prof. Zhongcheng Zhou	Central South University, China
2005	D. H. Lee	Konkuk University, South Korea
2005	Prof. Whangi Kim	Konkuk University, South Korea
2003-2004	Prof. Whangi Kim	Konkuk University, South Korea

h. Reviews for Journals (number of reviews in each journal in indicated year)

Journal	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
ACS Nano				1			2	1		2	1					1
ACS Macro Letters										1		1				
ACS Applied Materials and Interfaces								1		1			1			
Accounts of Chemical Research													1			
Advanced Materials			1	2								1				
Advanced Drug Delivery Reviews														1		
Analytical Chemistry						2										
Angewandte Chemie											1				1	
Applied Physics A											1					
Biomacromolecules		1	3	3	4	3	1	1	1	1						
Canadian Journal of Chemistry				1	1						1					
Chemistry of Materials		1	1	4	1	3		1			1		1			
ChemPhysChem					2											

Chemical Communications										**1**						
Colloid and Polymer Science												**1**		**1**		
Colloids and Surfaces A				**1**									**1**			
Colloids and Surfaces B								**1**								
Current Drug Delivery														**1**		
Environmental Science and Technology				**1**												
European Journal of Inorganic Chemistry					**1**											
J. Coll. Inter. Sci.					**1**									**1**		
Journal of Nanoparticle Research						**1**										
Journal of Nanophotonics									**1**							
J. Nanosci. Nanotech.			**1**													
Journal of Physical Chemistry					**4**	**2**	**1**		**1**	**4**	**1**		**1**			
Journal of Physical Chemistry Letters							**1**	**1**								
Journal of Polymer Science B							**1**									
Journal of the American Chemical Society		**1**	**2**	**1**	**2**	**1**		**1**	**3**							
Langmuir	**1**	**5**	**6**	**6**	**3**	**7**	**3**	**2**	**3**	**1**	**3**	**1**	**1**		**3**	
Macromolecular Chemistry and Physics			**1**				**1**								**1**	
Macromolecular Materials and Engineering												**1**				
Macromolecular Rapid Communications												**1**				
Macromolecules		**1**	**1**	**3**	**3**	**1**	**1**	**1**		**1**	**1**				**2**	
Material Research Bulletin						**1**										
Materials Chemistry and Physics			**1**		**1**											
Molecular Pharmaceutics												**1**		**1**		
Nano Letters												**1**				
Nanoscale												**1**				
Nature Materials	**1**	**1**	**1**	**2**			**1**									
Nature Nanotechnology				**1**												
Nature Protocols												**1**				
Proc. Int. Conf. Microchannels Minichannels		**1**														
Phys. Chem. Chem. Phys.										**1**						
Research Letters in Nanotechnology					**1**											
Science								**1**								
Soft Matter										**1**						**1**
Small			**1**	**2**	**1**											**1**
RSC Advances										**2**	**1**					
Surface Science					**2**											
Thin Solid Films										**1**						

i. Other Professional Activities

2003-2007 Judge, Vancouver Island Regional Science Fair
2003 Organized and conducted polymer/materials tours for UVic Open House
2003 Organized "UVic Chemistry Materials" display for Island Tech 2003

2004	Reviewed textbook proposal for CRC Press
2005	Professional consulting work for Sheldon & Mak Attorneys (Pasadena, CA)
2008-2010	Science demo and teaching at local pre-school for *Scientists and Innovators in the Schools*
2009	Referee for Killam Research Fellowship
2010-present	Co-organizes and co-performs *That Chemistry Show* for UVic public outreach events
2011	College of Reviewers for the Canada Research Chairs Program
2012	Chemistry representative for Experience UVic
2013	"Faces of UVic" video: http://www.youtube.com/watch?v=y-0CpAqTQTE (601 views)
2014	Produced invited online research video for *American Chemical Society*: https://www.youtube.com/watch?v=OezZ__Jp7hg (1904 views)
2017	"Training grants fund research, emerging tech sectors", *UVic News* https://www.uvic.ca/communicationsmarketing/web/news/2017+create-grant-ntco-program+media-release
2017	"UVic science students get boost from $3.3 million in grants", *Victoria Times Colonist* http://www.timescolonist.com/news/local/uvic-science-students-get-boost-from-3-3-million-in-grants-1.23111361
2018	"Cross-country research partnership seeks to improve drug delivery", *UVic News* https://www.uvic.ca/news/topics/2017+create-grant-pond-moffitt+news