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### Positions & Employment History:

2015-present Associate professor, Concordia University, Montreal, QC  
2011-present Canada Research Chair Tier II, Concordia University, Montreal, QC  
2010-2015 Assistant Professor, Concordia University, Montreal, QC  
2007-2010 Senior Research Scientist, Dow Chemical Company, Midland, MI  
2005-2006 Postdoctoral Fellow, Carnegie Mellon University, Pittsburgh, PA  
1992-1999 Korea Chemical Company, Seoul, Korea

### Academic Background:

2004 Ph.D. University of Toronto, Toronto, ON, Canada  
1992 M.Sc. Hanyang University, Seoul, Korea  
1989 B.Sc. Hanyang University, Seoul, Korea

### Awards and Recognition:

2013 Canadian National Committee for the International Union of Pure & Advanced Chemistry  
CNC-IUPAC Travel Award  
2011-2016 Canada Research Chair Tier II Award, NSERC Canada  
2010 Paint and Coatings Industry (PCI) Outstanding Paper Award (2<sup>nd</sup> place), 37<sup>th</sup> Coatings  
Symposium, New Orleans, LA  
2009 World-top 1% most cited paper for 2 years since publication, ISI Thomson  
2004-2005 Postdoctoral Fellowship Award, NSERC Canada  
2013- Editorial board of *International Research Journal of Pure and Applied Chemistry*  
2012 A guest editor for *Materials* entitled "Advances in Nanoscale Biomaterials"  
2012- Editorial board of *Dataset Papers for Nanotechnology*  
2009- Editorial board of *Polymers*

### Other Affiliations

- Canadian Society for Pharmaceutical Sciences (CSPS) (2014-)
- Centre Québécois sur les Matériaux Fonctionnels (CQMF) (2011- )
- Concordia Composite (CONCOM) Center (2010- )
- Center for Nanoscience Research (CENSR) at Concordia University (2010- )
- Canadian Society of Chemistry (CSC) (2010- )
- American Chemical Society (ACS) (2005- )

## Peer-reviewed Journal and Book Chapter Publications:

# indicates student co-authors; \* indicates corresponding author.

1. T. Sun, P. Li, J. K. Oh.\* Dual location dual reduction and photo-responsive degradable block copolymer micelles: disassembly and synergistic release, *Macromolecular Rapid Communications* **2015**, (in press).
2. S. Y. An,<sup>#</sup> A. Dahamodaran, J. K. Oh.\* Recent advances of self-healable polymeric networks (Review). *Chemical Communications* **2015** (in press) (**invited back cover**). PubMed PMID: 26135047
3. Y. Wen,<sup>#</sup> J. K. Oh.\* Intracellular delivery cellulose-based bionanogels with dual temperature/pH-response for cancer therapy, *Colloids and Surfaces B: Biointerfaces* **2015**, 133, 246-253. PubMed PMID: 26119370
4. S. Y. An,<sup>#</sup> S. M. Noh, J. H. Kim, J. K. Oh.\* Dual sulfide-disulfide crosslinked networks with rapid and room temperature self-healability. *Macromolecular Rapid Communications* **2015**, 36, 1255-1260 (**invited back cover**). PubMed PMID: 25959750
5. K. Rahimian,<sup>#</sup> Y. Wen,<sup>#</sup> J. K. Oh.\* Redox-responsive cellulose-based thermoresponsive grafted copolymers and in-situ disulfide crosslinked nanogels. *Polymer* **2015** (accepted). [**Invited article** for a special issue entitled "Macromolecular Engineering"]
6. N. R. Ko,<sup>#</sup> J. Cheong, A. Noronha, C. J. Wilds,\* J. K. Oh.\* Reductively-sheddable cationic nanocarriers for dual chemotherapy and gene therapy with enhanced release. *Colloids and Surfaces B: Biointerfaces* **2015**, 126, 178-187. PubMed PMID: 25561416
7. S. M. Noh, J. H. Nam, J. K. Oh, H.W. Jeong. Scratch and recovery characteristics of automotive clearcoats containing blocked polyisocyanate crosslinkers. *Journal of Coatings Technology and Research* **2014**, 12, 85-95.
8. Y. Wen,<sup>#</sup> J. K. Oh.\* Recent strategies to develop polysaccharide-based nanomaterials for biomedical applications. *Macromolecular Rapid Communications* **2014**, 35, 1819-1832. PubMed PMID: 25283788.
9. S. Y. An,<sup>#</sup> D. K. Lee, J. W. Hwang, J. H. Nam, H. W. Jung, S. M. Noh, J. K. Oh.\* Photo-induced thiol-ene polysulfide-crosslinked materials with tunable thermal and mechanical properties. *Journal of Polymer Science. Part A: Polymer Chemistry* **2014**, 52, 3060-3068.
10. A. Cunningham,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.\* Synthesis and reduction-responsive disassembly of PLA-based mono-cleavable micelles. *Colloids and Surfaces B: Biointerfaces* **2014**, 122, 693-700. PubMed PMID: 25159511.
11. N. R. Ko,<sup>#</sup> J. K. Oh.\* Glutathione-triggered disassembly of dual disulfide located degradable nanocarriers of polylactide-based block copolymers for rapid drug release. *Biomacromolecules* **2014**, 15, 3180-3189. PubMed PMID: 25026022
12. N. Chan,<sup>#</sup> P. Li,<sup>#</sup> J. K. Oh.\* Chain length effect of multidentate block copolymer strategy to stabilize ultrasmall Fe<sub>3</sub>O<sub>4</sub> nanoparticles. *ChemPlusChem* **2014**, 79, 1342-1351. [**Nominated article** for a special edition entitled "Early Career Series"]
13. N. Chan,<sup>#</sup> M. Laprise-Pelletier, A. Bianchi, M.-A. Fortin,\* J. K. Oh.\* Multidentate block copolymer stabilized superparamagnetic iron oxide nanoparticles with enhanced stability for magnetic resonance imaging. *Biomacromolecules* **2014**, 15, 2146-2156. PubMed PMID: 24785001
14. N. Chan,<sup>#</sup> N. Yee,<sup>#</sup> S. Y. An,<sup>#</sup> J. K. Oh.\* Tuning amphiphilic and thermoresponsive self-assembly and in situ disulfide crosslinking of reduction-responsive block copolymers. *Journal of Polymer Science. Part A: Polymer Chemistry* **2014**, 52, 2057-2067.

15. N. Chan,<sup>#</sup> S. Y. An,<sup>#</sup> N. Yee,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual redox and thermo-responsive double hydrophilic block copolymers with tunable thermoresponsive properties and self-assembly behavior. *Macromolecular Rapid Communications* **2014**, *35*, 752-757. PubMed PMID: 244997107
16. N. Chan,<sup>#</sup> H. W. Jung, S. M. Noh, J. K. Oh.<sup>\*</sup> Functional amphiphilic oligo(ethylene oxide) methacrylate based block copolymers: synthesis by ARGET ATRP and aqueous micellization. *Polymer International* **2014**, *63*, 858-867. [Invited article for a special issue entitled "Controlled radical synthesis/ATRP"]
17. N. R. Ko,<sup>#</sup> G. Sabbatier, A. Cunningham,<sup>#</sup> G. Laroche,<sup>\*</sup> J. K. Oh.<sup>\*</sup> Air-spun PLA fibers modified with reductively-sheddable hydrophilic surfaces for vascular tissue engineering: synthesis and surface modification. *Macromolecular Rapid Communications* **2014**, *35*, 447-453. PubMed PMID: 24089393 [Invited article for a special issue entitled "Precisely controlled polymer architectures via molecular engineering"]
18. N. Chan,<sup>#</sup> S. Y. An,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual location disulfide degradable interlayer-crosslinked micelles with extended sheddable coronas exhibiting enhanced colloidal stability and rapid release. *Polymer Chemistry* **2014**, *5*, 1637-1649. [Invited article for a special issue entitled "Synthesis of polymeric nanomaterials for medicine"]
19. S. Y. An,<sup>#</sup> J. W. Hwang, K. N. Kim, H. W. Jung, S. M. Noh, J. K. Oh.<sup>\*</sup> Multifunctional linear methacrylate copolymer polyenes having pendant vinyl groups: synthesis and photo-induced thiol-ene crosslinking polyaddition. *Journal of Polymer Science. Part A: Polymer Chemistry* **2014**, *52*, 572-581.
20. S. Aleksanian,<sup>#</sup> Y. Wen,<sup>#</sup> N. Chan,<sup>#</sup> J. K. Oh.<sup>\*</sup> Thiol-responsive hydrogel scaffolds for rapid change in thermoresponsiveness. *RSC Advances* **2014**, *4*, 3713-3721.
21. Y. Wen,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual-stimuli reduction and acidic pH-responsive bionanogels: intracellular delivery nanocarriers with enhanced release. *RSC Advances* **2014**, *4*, 229-237.
22. N. Chan,<sup>#</sup> B. Khorsand,<sup>#</sup> S. Aleksanian,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual location stimuli-responsive degradation strategy of block copolymer nanocarriers for accelerated release. *Chemical Communications* **2013**, *49*, 7534-7536. PubMed PMID: 23863915
23. B. Khorsand,<sup>#</sup> G. Lapointe, C. Brett, J. K. Oh.<sup>\*</sup> Intracellular drug delivery nanocarriers of glutathione-responsive degradable copolymers having pendant disulfide linkages. *Biomacromolecules* **2013**, *14*, 2103-2111. PubMed PMID: 23647437
24. Q. Zhang,<sup>#</sup> J. W. Hwang, K. N. Kim, H. W. Jung, S. M. Noh,<sup>\*</sup> J. K. Oh.<sup>\*</sup> New photo-induced thiol-ene crosslinked films based on linear methacrylate copolymer polythiols. *Journal of Polymer Science. Part A: Polymer Chemistry* **2013**, *51*, 2860-2868.
25. B. Khorsand,<sup>#</sup> J. K. Oh.<sup>\*</sup> pH-responsive destabilization and facile bioconjugation of new hydroxyl-terminated block copolymer micelles. *Journal of Polymer Science. Part A: Polymer Chemistry* **2013**, *51*, 1620-1629.
26. K. Rahimian-Bajgiran,<sup>#</sup> N. Chan,<sup>#</sup> Q. Zhang,<sup>#</sup> S. M. Noh, H. I. Lee, J. K. Oh.<sup>\*</sup> Tuning LCST with thiol-responsiveness of thermoresponsive copolymers containing pendant disulfides. *Chemical Communications* **2013**, *49*, 807-809. PubMed PMID: 23235322
27. A. Cunningham,<sup>#</sup> J. K. Oh.<sup>\*</sup> New design of thiol-responsive degradable block copolymer micelles. *Macromolecular Rapid Communications* **2013**, *34*, 163-168. PubMed PMID: 23019134
28. Q. Zhang,<sup>#</sup> S. Aleksanian,<sup>#</sup> S. M. Noh, J. K. Oh.<sup>\*</sup> Thiol-responsive block copolymer nanocarriers exhibiting tunable release with morphology changes. *Polymer Chemistry* **2013**, *4*, 351-359
29. N. R. Ko,<sup>#</sup> K. Yao, C. Tang, J. K. Oh.<sup>\*</sup> Synthesis and thiol-responsive degradation of polylactide-based block copolymers having disulfide junctions using ATRP and ROP. *Journal of Polymer Science. Part A: Polymer Chemistry*. **2013**, *51*, 3071-3080. [Invited article for a special issue entitled "Responsive Polymers, Particles, and Assemblies"]

30. Q. Zhang,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.<sup>\*</sup> Modulated morphologies and tunable thiol-responsive shedding of aqueous block copolymer aggregates. *RSC Advances* **2012**, 2, 8079-8086.
31. Q. Zhang,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.<sup>\*</sup> Recent advances of stimuli-responsive degradable block copolymer micelles: synthesis and controlled drug delivery applications. *Chemical Communications* **2012**, 48, 7542-7552.
32. Q. Zhang,<sup>#</sup> S. M. Noh, J. H. Nam, H. W. Jung, J. M. Park, J. K. Oh.<sup>\*</sup> Dual temperature and thiol-responsive POEOMA-multisegmented polydisulfides: synthesis and thermoresponsive properties. *Macromolecular Rapid Communications* **2012**, 33, 1528-1534. PubMed PMID: 22730272
33. S. Aleksanian,<sup>#</sup> B. Khorsand,<sup>#</sup> R. Schmidt, J. K. Oh.<sup>\*</sup> Rapidly thiol-responsive degradable block copolymer nanocarriers with facile bioconjugation. *Polymer Chemistry* **2012**, 3, 2138-2147.
34. P. Pinnel,<sup>#</sup> A. Nelson-Mendez,<sup>#</sup> S. M. Noh, J. H. Nam, J. K. Oh.<sup>\*</sup> Rapid and tunable reductive-degradation of disulfide-labeled polyesters. *Macromolecular Chemistry and Physics* **2012**, 213, 678-685.
35. D. J. Siegwart, J. K. Oh, K. Matyjaszewski.<sup>\*</sup> ATRP in the design of functional polymeric materials for biomedical application. *Progress in Polymer Science* **2012**, 37, 18-37.  
[Impact factor = 24.10]
36. B. Khorsand,<sup>#</sup> A. Cunningham,<sup>#</sup> Q. Zhang,<sup>#</sup> J. K. Oh.<sup>\*</sup> Biodegradable block copolymer micelles with thiol-responsive sheddable coronas. *Biomacromolecules* **2011**, 12, 3819-3825. PubMed PMID: 21879701
37. B. Khorsand,<sup>#</sup> R. Schmidt, J. K. Oh.<sup>\*</sup> New thiol-responsive mono-cleavable block copolymer micelles labeled with single disulfides. *Macromolecular Rapid Communications* **2011**, 32, 1652-1657. PubMed PMID: 21858893
38. A. Nelson-Mendez,<sup>#</sup> S. Aleksanian,<sup>#</sup> M. Oh, H-S. Kim, J. K. Oh.<sup>\*</sup> Reductively-degradable polyester-based block copolymers prepared by facile polycondensation and ATRP: synthesis, degradation, and aqueous micellization. *Soft Matter* **2011**, 7, 7441-7452.
39. J. K. Oh.<sup>\*</sup> Polylactide (PLA)-based amphiphilic block copolymers: synthesis, self-assembly, and biomedical applications. *Soft Matter* **2011**, 7, 5096-5108. [One of the top 10 most-read articles for March and June 2011]
40. J. A. Yoon, S. A. Bencherif, B. Aksak, E. K. Kim, T. Kowalewski, J. K. Oh,<sup>\*</sup> K. Matyjaszewski.<sup>\*</sup> Thermoresponsive hydrogel scaffolds with tailored hydrophilic pores. *Chemistry-An Asian Journal (Wiley)* **2011**, 6, 128-136. PubMed PMID: 21162088
41. J. K. Oh,<sup>\*</sup> J. M. Park. Iron oxide-based superparamagnetic polymeric nanocomposites: preparation and biomedical application. *Progress in Polymer Science* **2011**, 36, 168-189.
42. J. K. Oh.<sup>\*</sup> Surface modification of colloidal CdX-based quantum dots for biomedical applications. *Journal of Materials Chemistry* **2010**, 20, 8433-8445.
43. J. K. Oh,<sup>\*</sup> J. Anderson, B. Erdem, R. Drumright, G. Meyers. Selection of coalescing solvents for coatings derived from polyurethane dispersions utilizing high throughput research methods. *Progress in Organic Coatings* **2011**, 72, 253-259.
44. J. K. Oh,<sup>\*</sup> B. Erdem, J. Anderson, K. Nanjundiah, J. Sweeney. Development of low VOC waterborne coatings derived from polyurethane dispersions based on natural oil polyols using high throughput methods. *JCT CoatTech* **2010**, 7, 30-37.
45. J. K. Oh,<sup>\*</sup> B. Erdem, J. Anderson, K. Nanjundiah, J. Sweeney. High throughput methods for developing low VOC waterborne coatings derived from polyurethane dispersions based on natural oil polyols. *Proceedings of the International Waterborne, High-Solids, and Powder Coatings Symposium* **2010**, 37, 83-95. [PCI Outstanding Paper Award]

46. J. K. Oh,\* Engineering of nanometer-sized crosslinked hydrogels for biomedical applications. *Canadian Journal of Chemistry* **2010**, *88*, 173-184.
47. J. K. Oh,\* D. I. Lee, J. M. Park. Biopolymer-based microgels/nanogels for drug delivery applications. *Progress in Polymer Science* **2009**, *34*, 1261-1282.
48. J. K. Oh,\* S. A. Bencherif, K. Matyjaszewski. Atom transfer radical polymerization in inverse miniemulsion: A versatile route toward preparation and functionalization of microgels/nanogels for targeted drug delivery applications. *Polymer* **2009**, *50*, 4407-4423.
49. J. K. Oh,\* D. J. Siegwart, K. Matyjaszewski. The development of microgels/nanogels for drug delivery applications. *Progress in Polymer Science* **2008**, *33*, 448-477.  
[World-top 1% most cited paper within 2 years after publication by ISI Thomson]
50. J. K. Oh\* Recent advances in controlled/living radical polymerization in emulsion and dispersion. *Journal of Polymer Science Part A: Polymer Chemistry* **2008**, *46*, 6983-7001.
51. D. J. Siegwart,<sup>#</sup> A. Srinivasan, A. Karunanidhi, J. K. Oh, S. Vaidya, R. Jin, J. O. Hollinger, K. Matyjaszewski. Cellular uptake of functional nanogels prepared by inverse miniemulsion ATRP with encapsulated proteins, carbohydrates, and gold nanoparticles. *Biomacromolecules* **2009**, *10*, 2300-2309. PubMed PMID: 19572639
52. J. K. Oh, F. Perineau,<sup>#</sup> B. Charleux, K. Matyjaszewski. AGET ATRP in water and inverse miniemulsion: A facile route for preparation of high-molecular weight biocompatible brush-like polymers. *Journal of Polymer Science Part A: Polymer Chemistry* **2009**, *47*, 1771-1781.
53. D. J. Siegwart,<sup>#</sup> J. K. Oh, H. Gao, S. A. Bencherif, A. Bohaty, J. O. Hollinger, K. Matyjaszewski. Biotin-, pyrene- and GRGDS-functionalized polymers and nanogels via ATRP and end group modification. *Macromolecular Chemistry and Physics* **2008**, *209*, 2179-2193.
54. J. K. Oh, D. J. Siegwart,<sup>#</sup> K. Matyjaszewski. Synthesis and degradation of biodegradable nanogels as delivery carriers for carbohydrate drugs. *Biomacromolecules* **2007**, *8*, 3326-3331. PubMed PMID: 17894465
55. J. K. Oh, H. Dong, R. Zhang, H. Schlaad, K. Matyjaszewski. Preparation of nanoparticles of doubly-hydrophilic PHEMA block copolymers by AGET ATRP in inverse miniemulsion. *Journal of Polymer Science Part A: Polymer Chemistry* **2007**, *45*, 4764-4772.
56. J. K. Oh, D. J. Siegwart,<sup>#</sup> H. Lee, G. Sherwood, L. Peteanu, J. O. Hollinger, K. Kataoka, K. Matyjaszewski. Biodegradable nanogels prepared by atom transfer radical polymerization as potential targeted delivery carriers: Synthesis, degradation, *in vitro* release, and bioconjugation. *Journal of the American Chemical Society* **2007**, *129*, 5939-5945. PubMed PMID: 1743921
57. H. Lee, W. Wu, J. K. Oh, L. Mueller, G. Sherwood, L. Peteanu, T. Kowalewski, K. Matyjaszewski. Light-induced reversible polymeric micelles. *Angewandte Chemie International Edition* **2007**, *46*, 2453-2457. PubMed PMID: 17310482
58. K. Min, J. K. Oh, K. Matyjaszewski. Preparation of gradient copolymers via ATRP in miniemulsion. II. Forced gradient. *Journal of Polymer Science Part A: Polymer Chemistry* **2007**, *45*, 1413-1423.
59. J. K. Oh, F. Perineau,<sup>#</sup> K. Matyjaszewski. Preparation of nanoparticles of well-controlled water-soluble homo- and block copolymers using an inverse miniemulsion ATRP. *Macromolecules* **2006**, *39*, 8003-8010.
60. J. K. Oh, C. Tang, H. Gao, N. V. Tsarevsky, K. Matyjaszewski. Inverse miniemulsion ATRP: A new method for synthesis and functionalization of well-controlled water-soluble/crosslinked particles. *Journal of the American Chemical Society* **2006**, *128*, 5578-5584. PubMed PMID: 16620132
61. J. K. Oh, K. Min, K. Matyjaszewski. Preparation of poly(oligo(ethylene glycol) monomethyl ether methacrylate) by homogeneous aqueous AGET ATRP. *Macromolecules* **2006**, *39*, 3161-3167.

62. J. K. Oh, K. Matyjaszewski. Synthesis of poly(2-hydroxyethyl methacrylate) in protic media using AGET ATRP. *Journal of Polymer Science Part A: Polymer Chemistry* **2006**, *44*, 3787-3796.
63. M. Wang, J. K. Oh, T. E. Dykstra, X. Lou, G. D. Scholes, M. A. Winnik. Surface modification of CdSe and CdSe/ZnS semiconductor nanocrystals with poly(N,N-dimethylaminoethyl methacrylate). *Macromolecules* **2006**, *39*, 3664-3672.
64. J. K. Oh, L. Deleebeeck, M. A. Winnik, J. Rademacher, R. Farwaha. Synthesis of an alkali-swellaible emulsion and its effect on the polymer diffusion in poly(vinyl acetate-butyl acrylate) latex film. *Journal of Polymer Science Part A: Polymer Chemistry* **2005**, *43*, 5632-5642.
65. J. Wu, J. P. Tomba, J. K. Oh, M. A. Winnik, J. Rademacher, R. Farwaha. Synthesis of dye-labeled poly(vinyl acetate-co-ethylene) (EVA) latex and polymer diffusion in their latex films. *Journal of Polymer Science Part A: Polymer Chemistry* **2005**, *43*, 5581-5596.
66. J. K. Oh, J. Yang, M. A. Winnik, J. Rademacher, R. Farwaha. Phase separation and polymer diffusion in poly(vinyl acetate-butyl acrylate) latex film prepared by batch miniemulsion polymerization. *Macromolecules* **2004**, *37*, 5752-5761.
67. J. K. Oh, V. Stöeva, M. A. Winnik, J. Rademacher, R. Farwaha. Synthesis, characterization, and emulsion polymerization of polymerizable coumarin derivatives. *Journal of Polymer Science Part A: Polymer Chemistry* **2004**, *42*, 3479-3489.
68. H. H. Pham, I. Gourevich, J. K. Oh, J. Jonkmans, E. Kumacheva. Multidye periodically structured material for optical storage. *Advanced Materials* **2004**, *16*, 516-520.
69. X. Ye, J. Wu, J. K. Oh, M. A. Winnik, C. Wu. Effect of pluronic surfactant on polymer diffusion rate in poly(butyl methacrylate). *Macromolecules* **2003**, *36*, 8886-8889.
70. J. K. Oh, J. Yang, J. P. Tomba, M. A. Winnik, J. Rademacher, R. Farwaha. Molar mass effect on rate of polymer diffusion in poly(vinyl acetate-co-butyl acrylate) latex film. *Macromolecules* **2003**, *36*, 8836-8845.
71. X. Ye, J. P. Farinha, J. K. Oh, M. A. Winnik, C. Wu. Polymer diffusion in PBMA latex films using a polymerizable benzophenone derivative as an energy transfer acceptor. *Macromolecules* **2003**, *36*, 8749-8760.
72. J. Wu, J. K. Oh, J. Yang, M. A. Winnik, J. Rademacher, R. Farwaha. Synthesis of dye-labeled poly(vinyl acetate-co-dibutyl maleate) for fluorescence resonance energy transfer experiments. *Macromolecules* **2003**, *36*, 8139-8147.
73. J. K. Oh, X. Ye, J. P. Tomba, R. Eley, M. A. Winnik, J. Rademacher, R. Farwaha. Film formation and polymer diffusion in poly(vinyl acetate-co-butyl acrylate) latex films. Temperature dependence. *Macromolecules* **2003**, *36*, 5804-5814.
74. J. K. Oh, J. Wu, M. A. Winnik, G. P. Craun, J. Rademacher, R. Farwaha. Polymerizable benzophenone derivatives for labeling vinyl acetate-butyl acrylate latex particles. *Journal of Polymer Science Part A: Polymer Chemistry*. **2002**, *40*, 3001-3011.
75. J. K. Oh, J. Wu, M. A. Winnik, G. P. Craun, J. Rademacher, R. Farwaha. Emulsion polymerization of vinyl acetate and butyl acrylate in the presence of fluorescence dyes. *Journal of Polymer Science Part A: Polymer Chemistry* **2002**, *40*, 1594-1607.
76. J. K. Oh, Y. Kwon. Mechanism for olefin insertion reaction into M-R (M = Pt(II); R = CH<sub>3</sub>) bonds in the square planar complex. *Journal of Natural Science, Hanyang University* **1993**, *12*, 169-173.

### **Book Chapter contributions**

77. N. Chan,<sup>#</sup> N. R. Ko,<sup>#</sup> S. Y. An,<sup>#</sup> B. Khorsand,<sup>#</sup> J. K. Oh,\* Dual location reduction-responsive degradable nanocarriers: a new strategy for intracellular anticancer drug delivery with accelerated

release. ACS Symposium Series Volume 1188 entitled "Controlled Radical Polymerization", edited by K. Matyjaszewski, B. S. Sumerlin, and N. V. Tsarevsky; p271-291 (2015).

78. H. Gao, N. Chan, # J. K. Oh,\* K. Matyjaszewski.\* Designing hydrogels by ATRP. Book entitled "In-situ Gelling Polymers: For Biomedical Applications" edited by X. J. Loh; Springer, p69-105 (2014).
79. Q. Zhang, # S. Aleksanian, # A. Cunningham, # J. K. Oh,\* New design of thiol-responsive degradable block copolymer micelles as controlled drug delivery vehicles. ACS Symposium Series Volume 110 entitled "Progress in Controlled Radical Polymerization: Materials and Applications", edited by K. Matyjaszewski, B. S. Sumerlin, and N. V. Tsarevsky; Chapter 19, p287-302 (2013)
80. J. A. Yoon, J. K. Oh, W. Li, T. Kowalewski, K. Matyjaszewski.\* ATRP: a versatile tool toward uniformly crosslinked hydrogels with controlled architecture and multifunctionality. Book entitled "Hydrogel Micro and Nanoparticles", edited by M. Serpe and L. A. Lyon; Wiley, p169-186 (2013).

### Patents Granted and Applied:

1. Intrinsic self-healable copolymers and methods for the preparation thereof. J. K. Oh, S. Y. An.# Provisional Patent Application (61/991832) (2014) - expired
2. Hydrophobically modified alkali soluble emulsion-thickened composition for coating with good scrub resistance. J. K. Oh. EP2450410 & US2012/0115999 Application (2012).
3. Preparation of functional gel particles with a dual crosslink network. K. Matyjaszewski, K. Min, J. K. Oh, N. V. Tsarevsky. PCT/US07/21684 Application (2007).
4. Surface modification of nanocrystals using multidentate polymer ligands. X.-S. Wang, M. R. Salvador, T. E. Dykstra, G. D. Scholes, M. A. Winnik, J. K. Oh. Canadian Patent Application 2506388 (2005); US06/088713 Application.
5. Heat-hardenable water-system resin composition having excellent sagging and paint composition containing the same. J. K. Oh, J. M. Park, H. G. Lee. Korean Patent 583091 (2006).
6. Method for preparation of phase reversing core/shell type microgel. C. H. Choi, J. K. Oh, H. G. Lee, J. M. Park, S. M. Hong. Korean Patent 577497 (2006).
7. Preparation method of emulsion polymer containing target materials for paint by continuous multi-stepped emulsion polymerization. C. H. Choi, J. K. Oh, J. M. Park. Korean Patent 470033 (2005).
8. Preparation method of impact resistant core-shell emulsion polymer containing pore inside. J. K. Oh, J. M. Park, Y. B. Kim, C. H. Choi. Korean Patent 468600 (2005).
9. Process for preparing core-shell emulsifying polymer having weather-proof and impact-resistant properties. J. K. Oh, J. M. Park, C. H. Choi. Korean Patent 446703 (2004).
10. Water-soluble metallic paint composition containing acrylic emulsion polymer having inner void. C. K. Chung, J. M. Park, J. K. Oh. Korean Patent 434838 (2004).
11. Method for producing fine particulate acryl emulsion having reverse core/shell structure, and coating composition comprising the same. J. K. Oh, J. M. Park. Korean Patent 289589 (2001).
12. Emulsion polymer having a vesiculated structure and the process for preparing the same. J. M. Park, C. H. Choi, J. K. Oh, S. M. Hong. US Patent 6331598 (2001) & Japanese Patent 128906 (2000).
13. Emulsion polymer having a vesiculated structure. S. M. Hong, J. M. Park, C. H. Choi, J. K. Oh. GB 2340837 (2000).

14. Method for preparing emulsion polymers having core-shell structure by two-step emulsion polymerization and paint composition containing the same. J. K. Oh, J. M. Park. Korean Patent 149696 (**1998**).
15. Composition and preparation of an emulsion-polymerized polymer having cavity. J. M. Park, J. K. Oh, C. H., Choi, S. M. Hong. Expired Korean Patent 286471 (**2001**).
16. Manufacture of metal surface reagent with a high rust and corrosion preventives S. N. Han, J. M. Park, J. K. Oh. Expired Korean Patent 90007 (**1995**).

### Invited Lectures:

1. University of Toronto, School of Pharmacy, Toronto, ON, Canada, May **2015**.
2. Carnegie Mellon University, Department of Chemistry, Pittsburgh, PA, USA, March **2015**.
3. University of Waterloo, Department of Chemistry, Waterloo, ON, Canada, January **2015**.
4. University of Waterloo, Department of Chemical Engineering, Waterloo, ON, January **2015**.
5. Xerox Research Center of Canada, Mississauga, ON, Canada, December **2014**.
6. Inha University, Department of Chemistry, Incheon, Korea, October **2014**.
7. Xi'an Jiaotong University, Xi'an, China, October **2014**.
8. Xi'an University of Technology, Department of Chemistry, Xi'an, China, October **2014**.
9. Korea Research Institute of Chemical Technology (KRICT), Ulsan, Korea, May **2014**.
10. Hanyang University, Department of Chemistry, Seoul, Korea, May **2014**.
11. Ulsan University, Department of Chemistry, Ulsan, Korea, May **2014**.
12. Hoseo University, Department of Chemical Engineering, Cheonan, Korea, May **2014**.
13. INRS-Energy Materials and Telecommunications, Varennes, QC, February **2014**.
14. McMaster University, Department of Chemical Engineering, Hamilton, ON, Canada, October **2013**.
15. Université Laval, Département de Génie des Mines, de la Métallurgie et des Matériaux, QC, Canada, February **2013**.
16. Korea University, Department of Chemical and Biological Engineering, Seoul, Korea, November **2012**.
17. Hoseo University, Department of Chemical Engineering, Cheonan, Korea, November **2012**.
18. Ulsan National Institute of Science and Technology, Ulsan, Korea, November **2012**.
19. Xerox Research Center of Canada, Mississauga, ON, Canada, November **2011**.
20. Hanyang University, Department of Chemistry, Ansan, Korea, September **2011**.
21. Busan University, Department of Chemistry, Busan, Korea, September **2011**.
22. Inha University, Department of Chemical Engineering, Incheon, Korea, September **2011**.
23. PPG Korea, Cheonan, Korea, September **2011**.
24. Queen's University, Department of Chemical Engineering, Canada, March **2011**.
25. Korea University, Department of Chemistry, Chochiwon, Korea, December **2010**.
26. Ulsan University, Department of Chemistry, Ulsan, Korea, December **2010**.
27. Hanyang University, Department of Chemistry, Seoul, Korea, December **2010**.
28. PPG Korea, Cheonan, Korea, November **2010**.
29. Concordia University, Department of Mechanical and Industrial Engineering, September **2010**.
30. Concordia University, Department of Chemistry and Biochemistry, February **2010**.
31. University of Alabama-Tuscaloosa, Department of Chemistry, February **2010**.
32. West Virginia University, WVNano, USA, January **2007**.
33. 38<sup>th</sup> ACS Central Regional Meeting and 39<sup>th</sup> Silicon Symposium, MI, USA, May **2006**.



## Invited Presentations:

34. Dual-location disulfide degradation strategy of block copolymers for accelerated release. 8<sup>th</sup> International Conference on Multi-functional Materials and Applications, Hoseo University, Korea, November **2014**. [Keynote speaker]
35. Dual-location reduction-responsive degradation block copolymer strategy. A symposium entitled "Controlled Radical Polymerization", 248<sup>th</sup> American Chemical Society National Meeting, San Francisco, CA, USA, August **2014**.
36. Multi-location multiple stimuli-responsive degradation strategy for accelerated drug release. MS6 symposium in Macromolecular Science Engineering Division. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.
37. Exploring stimuli-responsive degradation platform to tune thermoresponsive properties. MT5 symposium in Materials Chemistry. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.
38. Self-assembled block copolymer nanocarriers with stimuli-response drug release. CQMF Annual Symposium, Shawinigan, QC, Canada, November **2013**.
39. Stimuli-responsive degradation (SRD): a versatile platform for developing nanomaterials for biomedical applications. Symposium 128-Nanoparticles and nanomaterials for medicine, 81<sup>st</sup> ACFAS Congress, Université Laval, Quebec City, QC, Canada, May **2013**.
40. Degradable block copolymer micelles with thiol-responsive sheddable corona. MS3 Symposium in Macromolecular Science Engineering Division. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, May **2012**.
41. Rapid and tunable degradation of new thiol-responsive block copolymer micelles for potential drug delivery applications. MS5 Symposium in Macromolecular Science Engineering Division. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, May **2012**.
42. Thiol-responsive degradable block copolymer micelles. 242<sup>nd</sup> American Chemical Society National Meeting, Denver, CO, USA, August **2011**.
43. A new design of stimuli-responsive degradable nanostructured materials and thiol-ene photocrosslinked coatings. Workshop for Development of Industrial Core Technology Funded by Korean Ministry of Knowledge Economy, Jeju, Korea, September **2011**. [Keynote speaker]
44. Use of high-throughput methods for developing low VOC waterborne coatings derived from polyurethane dispersions. 2010 Workshop for Development of Industrial Core Technology Funded by Korean Ministry of Knowledge Economy, Busan, Korea, December **2010**. [Keynote speaker]

## Contributed Presentations:

# indicates trainee; Presenting authors in **bold**.

45. **J. K. Oh**, S. Y. An,<sup>#</sup> S. H. Hong.<sup>#</sup> Novel biomaterials based on PLA-based block copolymers with enhanced release. 98<sup>th</sup> Canadian Chemistry Conference and Exhibition, Ottawa, ON, Canada, June **2015**.
46. **P. Li**,<sup>#</sup> **J. K. Oh**. Multidentate block copolymer strategy to stabilize ultrasmall superparamagnetic iron oxide nanoparticles for MRI. 98<sup>th</sup> Canadian Chemistry Conference and Exhibition, Ottawa, ON, Canada, June **2015**. (oral)
47. **J. K. Oh**. Multidentate block copolymer strategy for vascular magnetic resonance imaging. 4<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials: Hybrid Materials 2015, Sitges, Spain, March **2015**.

48. **J. K. Oh.** Dual-location stimuli-responsive degradation strategy for accelerated drug release. 4<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials: Hybrid Materials 2015, Sitges, Spain, March **2015**.
49. **N. R. Ko,**<sup>#</sup> **J. K. Oh.** Glutathione-responsive degradable PLA-based nanocarriers having dual-located disulfides for enhanced release. 64<sup>th</sup> Canadian Chemical Engineering Conference, Niagara Falls, ON, October **2014**. [1st place of CSChE graduate student poster award]
50. **N. R. Ko,**<sup>#</sup> **J. K. Oh.** Reduction-responsive air-spun PLA nanofibers with sheddable hydrophilic surface for vascular engineering 64<sup>th</sup> Canadian Chemical Engineering Conference, Niagara Falls, ON, October **2014**.
51. **Y. Wen,**<sup>#</sup> **J. K. Oh.** pH/thiol stimuli-responsive carboxymethyl cellulose based bionanogels. 36<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August **2014**. (oral)
52. **S. Y. An,**<sup>#</sup> **J. K. Oh.** Development of polysulfide-crosslinked films based on polymethacrylate copolymers using thiol-ene polyaddition. 36<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August **2014**.
53. **P. Li,**<sup>#</sup> **N. Chan,**<sup>#</sup> **J. K. Oh.** Multidentate block copolymer strategy to stabilize ultrasmall Fe<sub>3</sub>O<sub>4</sub> nanoparticles for MRI contrast agent. 36<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August **2014**.
54. **J. K. Oh.** **N. Chan,**<sup>#</sup> **M. Laprise-Pelletier,** **M. A. Fortin.** Multidentate block copolymer stabilized ultrasmall Fe<sub>3</sub>O<sub>4</sub> nanoparticles for vascular magnetic resonance imaging. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.
55. **S. Y. An,**<sup>#</sup> **N. Chan,**<sup>#</sup> **N. K. Ko,**<sup>#</sup> **J. K. Oh.** Polylactide based interlayer-crosslinked micellar nanocarriers for enhanced colloidal stability and rapid release. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.
56. **Y. Wen,**<sup>#</sup> **J. K. Oh.** Carboxymethyl cellulose based nanogels for pH and thiol responsive drug release. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.
57. **G. Sabbatier,** **A. Larrañaga,** **N. R. Ko,**<sup>#</sup> **A. Cunningham,**<sup>#</sup> **A. Guay-Bégin,** **J. K. Oh,** **J. Ramon Sarrasua,** **G. Laroche.** Designing multifunctional nanofiber scaffold for endothelial cells adhesion and proliferation on vascular substitutes. Canadian Biomaterial Society Congress, Halifax, NS, March **2014**.
58. **N. Yee,**<sup>#</sup> **N. Chan,**<sup>#</sup> **J. K. Oh.** LCST-driven crosslinked nanogels for glutathione-responsive degradable drug delivery nanocarriers exhibiting enhanced release and colloidal stability. CQMF Annual Symposium, Shawinigan, QC, November **2013**. [1st place of outstanding poster award]
59. **Y. Wen,**<sup>#</sup> **J. K. Oh.** Enhanced drug release nanocarriers: pH-sensitive, thiol-responsive carboxymethyl cellulose-based nanogel. CQMF Annual Symposium, Shawinigan, QC, Canada, November **2013**.
60. **N. R. Ko,**<sup>#</sup> **B. Khorsand,**<sup>#</sup> **A. Cunningham,**<sup>#</sup> **J. K. Oh.** Stimuli-responsive degradation (SRD): A Versatile platform for developing PLA-based nanomaterials. CQMF Annual Symposium, Shawinigan, QC, Canada, November **2013**.
61. **S. Y. An,**<sup>#</sup> **J. K. Oh.** Amphiphilic block copolymer based interlayer-crosslinked micellar nanocarriers containing disulfide at dual locations for enhanced colloidal stability and rapid release. CQMF Annual Symposium, November **2013**.
62. **G. Sabbatier,** **N. R. Ko,**<sup>#</sup> **A. Cunningham,**<sup>#</sup> **J. K. Oh,** **G. Laroche.** Conception d'échaffaudage de nanofibres pour la création de surfaces multifonctionnelles en génie tissulaire. CQMF Annual Symposium, Shawinigan, QC, November **2013**.
63. **A. Cunningham,**<sup>#</sup> **J. K. Oh.** Reduction-responsive degradable polylactide-based block copolymer nanocarriers with enhanced/controlled response release. CQMF Annual Symposium, Shawinigan, QC, November **2013**. (oral)

64. **J. K. Oh**, S. Aleksanian,<sup>#</sup> Q. Zhang,<sup>#</sup> N. Chan,<sup>#</sup> B. Khorsand.<sup>#</sup> Stimuli-responsive degradation (SRD): a versatile platform for developing multifunctional drug delivery nanocarriers with enhanced/controlled release. European Polymer Federation, Pisa, Italy, June **2013** (funded by CNC/IUPAC Travel Award 2013).
65. **J. K. Oh**. Stimuli-responsive degradation (SRD): a versatile platform for developing PLA-based block copolymer micelles with enhanced/controlled release. 96<sup>th</sup> Canadian Chemistry Conference and Exhibition, Quebec City, QC, Canada, May **2013**.
66. **N. Chan**,<sup>#</sup> **J. K. Oh**. Amphiphilic multidentate block copolymer stabilization strategy for preparation of superparamagnetic iron oxide nanoparticles with enhanced stability and biocompatibility. 96<sup>th</sup> Canadian Chemistry Conference and Exhibition, Quebec City, QC, Canada, May **2013**. (oral)
67. **B. Khorsand**,<sup>#</sup> **J. K. Oh**. Exploration of novel pH-responsive polymeric micelles as targeted drug-delivery carriers. CBGRC Conference, Montreal, QC, Canada, November **2012**. (oral)
68. **N. R. Ko**,<sup>#</sup> **J. K. Oh**. Investigation of PLA-ss-PDMAEMA thiol-responsive biodegradable sheddable block copolymer micelles for dual delivery of drugs and genes. CBGRC Conference, Montreal, QC, Canada, November **2012**. (oral)
69. **S. Aleksanian**,<sup>#</sup> **J. K. Oh**. Polymer nanotechnology: new design of block copolymer micelles for controlled drug delivery. CBGRC Conference, Montreal, QC, Canada, November **2012**. (oral)
70. **B. Khorsand**,<sup>#</sup> **J. K. Oh**. Thiol-responsive mono-cleavable block copolymer micelles exhibiting morphology change. CQMF Annual Symposium, Trois-Rivières, QC, Canada, November **2012**.
71. **N. R. Ko**,<sup>#</sup> A. M. Noronha, C. Wilds, **J. K. Oh**. PLA-ss-qPDMAEMA biodegradable sheddable block copolymer micelles for dual delivery of drugs and genes. CQMF Annual Symposium, Trois-Rivières, QC, Canada, November **2012**.
72. **A. Cunningham**,<sup>#</sup> **J. K. Oh**. Novel polylactide-based block copolymer micelles with thiol-responsive degradable linkage for enhanced drug delivery strategies. CQMF Annual Symposium, Trois-Rivières, QC, Canada, November **2012**.
73. **S. Aleksanian**,<sup>#</sup> **J. K. Oh**. Recent advances in stimuli-responsive degradable block copolymers for biomedical applications: therapeutic delivery, cellular imaging and morphology changes. CQMF Annual Symposium, Trois-Rivières, QC, November **2012**.
74. **J. K. Oh**. A new design of thiol-responsive degradable block copolymer micelles. 35<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August **2012**.
75. **K. Rahimian**,<sup>#</sup> Q. Zhang,<sup>#</sup> **J. K. Oh**. Tuning LCST with controlling thiol-responsive degradation of thermoresponsive polymers containing pendent disulfides. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2012**.
76. **B. Khorsand**,<sup>#</sup> **J. K. Oh**. Mono-cleavable triblock copolymer micelles labeled with single disulfide linkages: Change in morphology upon thiol-responsive degradation. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, June **2012**.
77. **N. R. Ko**,<sup>#</sup> A. M. Noronha, C. Wilds, **J. K. Oh**. Dual thiol- and pH-responsive biodegradable cationic sheddable micelles for dual drug and gene delivery. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, June **2012**.
78. **S. Aleksanian**,<sup>#</sup> **J. K. Oh**. Rapid redox-responsive degradation and facile bioconjugation of polyester-based block copolymer micelles as controlled drug delivery nanocarriers. NanoQuebec Conference, Montreal, QC, Canada, March **2012**.
79. **A. Cunningham**,<sup>#</sup> B. Khorsand,<sup>#</sup> **J. K. Oh**. Biodegradable and thiol-responsive block copolymer micelles as drug-delivery carriers. NanoQuebec Conference, Montreal, QC, Canada, March **2012**.
80. **A. Cunningham**,<sup>#</sup> B. Khorsand,<sup>#</sup> **J. K. Oh**. New design of stimuli-responsive biodegradable amphiphilic block copolymer micelles. CBGRC Conference, Montreal, QC, Canada, November **2011**.

81. **S. Aleksanian,**<sup>#</sup> **J. K. Oh.** New design of block copolymer micelles for controlled drug delivery. CBGRC Conference, Montreal, QC, Canada, November **2011.** (oral)
82. **B. Khorsand,**<sup>#</sup> **J. K. Oh.** pH-responsive block copolymer micelles for controlled drug delivery. CQMF Annual Symposium, Quebec City, QC, Canada, November **2011.**
83. **A. Cunningham,**<sup>#</sup> **B. Khorsand,**<sup>#</sup> **J. K. Oh.** New design of sheddable micelles of block copolymers having disulfides at block junctions prepared by ROP and ATRP. CQMF Annual Symposium, Quebec City, QC, Canada, November **2011.**
84. **A. Vissa,** R. Schmidt, **J. K. Oh,** L. Cuccia, C. DeWolf. Self-assembly of thiol-responsive amphiphilic block copolymers at the air-water and air-solid interface. CSACS student symposium, McGill University, Montreal, QC, August **2011.**
85. **J. K. Oh.** Multifunctional polymeric nanostructured materials for biomedical applications. 85<sup>th</sup> ACS Colloid and Surface Science Symposium, Montreal, QC, Canada, June **2011.**
86. **J. K. Oh,** S. Aleksanian,<sup>#</sup> A. Nelson-Mendez.<sup>#</sup> Disulfide-functionalized degradable polyester-containing amphiphilic block copolymers for tumor-targeting drug delivery. 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, QC, Canada, June **2011.**
87. **J. K. Oh.** Use of high-throughput methods to develop low VOC waterborne coatings derived from polyurethane dispersions. 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, QC, Canada, June **2011.**
88. **S. Aleksanian,**<sup>#</sup> A. Nelson-Mendez,<sup>#</sup> **J. K. Oh.** Synthesis, micellization, and degradation of thiol-responsive degradable amphiphilic block copolymers for drug delivery. 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, QC, Canada, June **2011.**
89. **B. Khorsand,**<sup>#</sup> **J. K. Oh.** Enhanced stability of iron oxide nanoparticles stabilized with functional block copolymers. 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, QC, Canada, June **2011.**
90. **A. Nelson-Mendez,**<sup>#</sup> **J. K. Oh.** Novel thiol-responsive polyesters for controlled drug delivery. Undergraduate Research Day sponsored by Faculty of Arts and Science at Concordia University, QC, Canada, April **2011.**
91. **J. A. Yoon,** C. Gayathri, R. Gil, S. Bencherif. B. Aksak, E. K. Kim, **J. K. Oh,** K. Matyjaszewski., T. Kowalewski. Structured responsive hydrogels prepared by ATRP. Preparation of porous hydrogels by aqueous ATRP in the presence of star-branched polymers. 241<sup>st</sup> ACS National Meeting, CA, USA, March **2011.**
92. **J. K. Oh,** J. Anderson, K. Nanjundiah, B. Erdem, R. Drumright, M. Johnson. Utilization of high-throughput research methods for selection of coalescing solvents for coatings derived from polyurethane dispersion based on natural oil polyols. American Coatings Conference, NC, USA, April **2010.**
93. **J. K. Oh,** B. Erdem, J. Anderson, K. Nanjundiah, M. Johnson. High-throughput methods for developing low VOC waterborne coatings derived from polyurethane dispersion based on natural oil polyols. 37<sup>th</sup> International Waterborne, High-Solids, and Powder Coatings Symposium, LA, USA, February **2010.**
94. **J. A. Yoon,** **J. K. Oh,** S. A. Bencherif, T. Kowalewski, K. Matyjaszewski. Preparation of porous hydrogels by aqueous ATRP in the presence of star-branched polymers. 238<sup>th</sup> American Chemical Society National Meeting, Washington DC, USA, August **2009.**
95. **M. Johnson,** J. Roper, M. Keefe, **J. K. Oh,** R. Ortiz, A. Singh, J. Mecca, G. Smits. High-Throughput methods for developing waterborne coating formulations. 36<sup>th</sup> International Waterborne, High-Solids, and Powder Coatings Symposium, LA, USA, February **2009.**

96. **J. K. Oh**, W. Wu, C. Kan, J. Romick, R. Drumright. Mechanism of gel formation in acrylic latex containing acetoacetoxy groups. 236<sup>th</sup> American Chemical Society National Meeting, PA, USA, August **2008**.
  97. **D. J. Siegwart**, **J. K. Oh**, H. Gao, S. A. Bencherif, A. Bohaty, K. Matyjaszewski. Synthesis and functionalization of hydroxy-terminated biocompatible polymers and nanogels with pyrene, biotin, and peptide sequences. 236<sup>th</sup> American Chemical Society National Meeting, PA, USA, August **2008**.
  98. **D. J. Siegwart**, A. Srinivasan, G. Papworth, **J. K. Oh**, S. Vaidya, S. Watkins, J. O. Hollinger, K. Matyjaszewski. Preparation of RITC-dextran- and BSA-loaded POEOMA nanogels and verification of cell internalization by the clathrin-mediated endocytotic pathway using confocal imaging. 235<sup>th</sup> American Chemical Society National Meeting, LA, USA, April **2008**.
  99. **D. J. Siegwart**, **J. K. Oh**, K. Matyjaszewski. Preparation and biodegradation of nanogels as carriers for carbohydrate drugs. 234<sup>th</sup> American Chemical Society National Meeting, MA, USA, August **2007**.
  100. **J. K. Oh**, D. J. Siegwart, K. Matyjaszewski. Synthesis, degradation, in vitro release, and bioconjugation of functional nanogels prepared by atom transfer radical polymerization for biomedical applications. 233<sup>rd</sup> American Chemical Society National Meeting, IL, USA, March **2007**.
  101. **J. K. Oh**, C. Tang, H. Gao, N. T. Tsarevsky, D. J. Siegwart, G. Sherwood, L. Peteanu, K. Matyjaszewski. Synthesis and functionalization of degradable nanogel particles prepared by inverse miniemulsion AGET ATRP. 232<sup>nd</sup> American Chemical Society National Meeting, CA, USA, September **2006**.
  102. **J. K. Oh**, F. Perineau, K. Matyjaszewski. AGET ATRP in water: A facile route to synthesis of well-controlled, high molecular weight, water-soluble polymers. 232<sup>nd</sup> American Chemical Society National Meeting, CA, USA, September **2006**.
  103. **J. K. Oh**, K. Matyjaszewski. Atom transfer radical polymerization of 2-hydroxyethyl methacrylate in protic media using activators generated by electron transfer. 230<sup>th</sup> American Chemical Society National Meeting, Washington DC, USA, August **2005**.
  104. **J. K. Oh**, K. Min, K. Matyjaszewski. Preparation of gradient copolymers in miniemulsion by atom transfer radical polymerization using activators generated by electron transfer. Gordon Research Conference: Polymer Colloids, NH, USA, July **2005**.
  105. **M. A. Winnik**, **J. K. Oh**, J. Wu, J. P. Tomba, Polymer diffusion in latex films of random branched polymers. American Chemical Society Meeting, August **2004**.
  106. **J. K. Oh**, M. A. Winnik. Preparation of dye-labeled latex particles based on vinyl acetate copolymer for studies of polymer interdiffusion by fluorescence energy transfer. Gordon Research Conference: Polymer East, MA, USA, June **2003**.
  107. **J. K. Oh**, M. A. Winnik. Interdiffusion in poly(vinyl acetate-butyl acrylate) copolymer latex films. 31<sup>st</sup> Canadian High Polymer Forum, QC, Canada, August **2002**.
  108. **J. K. Oh**, M. A. Winnik. Interdiffusion in poly(vinyl acetate-butyl acrylate) copolymer latex films. 76<sup>th</sup> ACS Colloid and Surface Science Symposium, MI, USA, June **2002**.
  109. **J. K. Oh**, J. Wu, M. A. Winnik. Preparation of fluorescence-labeled latex particles based on vinyl acetate copolymer. Gordon Research Conference: Polymer Colloids, NH, USA, July **2001**.
  110. **J. K. Oh**, J. M. Park. Gas permeability and mechanical properties of latex blend films. 19<sup>th</sup> Korean Society of Industrial Chemistry, Sunmoon University, Korea, February **1999**.
  111. **J. K. Oh**, J. M. Park. Preparation of submicron-sized polystyrene latex by surfactant-free seeded emulsion polymerization. 93<sup>rd</sup> Polymer Science of Korea, Seoul, Korea, April **1993**.
- CQMF Symposium, Quebec City, QC, Canada, November 2011

- 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, June 2012
- 35<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August 2012
- CQMF Symposium, Trois-Rivières, QC, Canada, November 2012
- 96<sup>th</sup> Canadian Chemistry Conference, Quebec City, QC, Canada, May 2013
- European Polymer Federation (EPF 2013), Pisa, Italy, June 2013
- 2013 CQMF Annual Symposium, Shawinigan, QC, Canada, November 2013
- 97<sup>th</sup> Canadian Chemistry Conference, Vancouver, BC, Canada, June 2014
- 36<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August 2014
- 248<sup>th</sup> American Chemical Society National Meeting, San Francisco, CA, USA, August 2014
- 4<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials: Hybrid Materials 2015, Sitges, Spain, March **2015**.