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### Positions & Employment History

2015-present Associate Professor, Concordia University, Montreal, QC  
2016-2021 Canada Research Chair Tier II (renewed), Concordia University, Montreal, QC  
2011-2016 Canada Research Chair Tier II (term I), 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, Research Scientist, Seoul, Korea

### Academic Education

2005-2007 **NSERC Postdoctoral associate**, Carnegie Mellon University, Pittsburgh, PA  
*Advisor: Krzysztof Matyjaszewski*

2004-2005 **Postdoctoral associate**, University of Toronto, Toronto, ON  
*Advisor: Mitchell A. Winnik*

2000-2004 **Ph.D.** University of Toronto, Toronto, ON  
*Advisor: Mitchell A. Winnik*  
Thesis title: Synthesis and characterization of dye-labeled poly(vinyl acetate-butyl acrylate) latex particles and their application to film formation and polymer interdiffusion

1990-1992 **M.Sc.** Hanyang University, Seoul, Korea ()  
Theoretical Physical Chemistry  
*Advisor: Younghi Kwon*  
Thesis title: Mechanism for olefin insertion reaction into M-R (M=Pt(II); R=CH<sub>3</sub>) bond in square planar complex

1985-1989 **B.Sc.** Hanyang University, Seoul, Korea  
Chemistry

### Awards & Distinction

2016 Emerging Materials Chemistry Investigator, Symposium award presentation (CSC, Halifax)

2016-2021 Canada Research Chair Tier II Award (renewed), NSERC Canada

2016 Dean's Award for Excellence in Scholarship (Mid-career) at Concordia University

2013 Canadian National Committee for the International Union of Pure & Applied 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

### **Other Affiliations:**

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

### **Peer-reviewed Journal and Book Chapter Publications**

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

- [A95] A. Moini Jazani,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual location dual acidic pH/reduction-responsive degradable block copolymer: synthesis and investigation of ketal linkage instability under ATRP conditions. *Macromolecules* **2017**.
- [A94] S. Jung,<sup>#</sup> J. K. Oh.<sup>\*</sup> Well-defined methacrylate copolymer having reactive maleimide pendants for fabrication of thermally-labile crosslinked networks with robust self-healing. *Materials Today Communications* **2017**, *13*, 241-247.
- [A93] S. Jung,<sup>#</sup> T. Patel,<sup>#</sup> J. K. Oh.<sup>\*</sup> Thermally-labile self-healable branched gel networks fabricated by new macromolecular engineering approach utilizing thermoreversibility. *Macromolecular Rapid Communications* **2017**,
- [A92] K. K. Bawa,<sup>#</sup> J. K. Oh.<sup>\*</sup> Stimuli-responsive degradable polylactide-based block copolymer nanoassemblies for controlled/enhanced drug delivery. *Molecular Pharmaceutics* **2017**, *14*, 2460-2474. (**Invited article** for a special issue entitled "Polymers in Drug Delivery: Chemistry and Applications")
- [A91] S. Jung,<sup>#</sup> S. Y. Kim, J. C. Kim, S. M. Noh, J. K. Oh.<sup>\*</sup> Room temperature induced Diels-Alder crosslinked polymeric networks with thermal reversibility and self-healability. *RSC Advances* **2017**, *7*, 26496-26506.
- [A90] R. S. Kalhapure,<sup>\*</sup> S. Rambharose, D. R. Sikwal, C. Mocktar, S. Singh, L. Bester, J. K. Oh, T. Govender. Enhancing targeted antibiotic therapy via pH responsive solid lipid nanoparticles from an acid cleavable lipid. *Nanomedicine: Nanotechnology, Biology, and Medicine*. **2017**, *13*, 2067-2077.
- [A89] D. Biswas,<sup>#</sup> S. Y. An,<sup>#</sup> Y. Li, X. Wang, J. K. Oh.<sup>\*</sup> Intracellular delivery colloidal-stable core-crosslinked triblock copolymer micelles with glutathione-responsive enhanced drug release for cancer therapy. *Molecular Pharmaceutics* **2017**, *14*, 2518-2528. (**Invited article** for a special issue entitled "Polymers in Drug Delivery: Chemistry and Applications")
- [A88] S. Y. An,<sup>#</sup> S. M. Noh, J. K. Oh.<sup>\*</sup> Multiblock copolymer-based dual dynamic disulfide and supramolecular crosslinked self-healing networks. *Macromolecular Rapid Communications* **2017**.
- [A87] F. Ren, B. Rosal, S. Y. An,<sup>#</sup> F. Yang, E. Carrasco, A. Benayas, J. K. Oh, D. Jaque,<sup>\*</sup> Á. J. de la Fuente, F. Vetrone,<sup>\*</sup> D. Ma.<sup>\*</sup> Development and investigation of ultrastable PbS/CdS/ZnS quantum dots for near-infrared tumor imaging. *Particle & Particle Systems Characterization*. **2017**, *34*, 1600242.
- [A86] S. Jung,<sup>#</sup> J. T. Liu,<sup>#</sup> S. H. Hong,<sup>#</sup> D. Arunbabu,<sup>#</sup> S. M. Noh, J. K. Oh.<sup>\*</sup> A new reactive polymethacrylate bearing pendant furfuryl groups: synthesis, thermoreversible reactions, and self-healing. *Polymer* **2017**, *109*, 58-65.
- [A85] Q. Zhang,<sup>\*</sup> S. Yang, T. Zhu, J. K. Oh, P. Li. Soft nano-coupling between silica and gold nanoparticles based on block copolymer. *Reactive and Functional Polymer* **2017**, *110*, 30-37.
- [A84] D. Arunbabu,<sup>#</sup> S. M. Noh, J. H. Nam, J. K. Oh.<sup>\*</sup> Thermoreversible self-healing networks based on a tunable polymethacrylate crosslinker having pendant maleimide groups. *Macromolecular Chemistry and Physics* **2016**, *217*, 2191-2198.
- [A83] P. Li,<sup>#</sup> W. Xiao,<sup>#</sup> P. Chevallier, D. Biswas,<sup>#</sup> X. Ottenwaelder, M. A. Fortin, J. K. Oh.<sup>\*</sup> Extremely small iron oxide nanoparticles stabilized with catechol-functionalized multidentate block copolymer for enhanced MRI. *ChemistrySelect* **2016**, *1*, 4087-4091.
- [A82] D. G. Lee,<sup>#</sup> S. Y. An,<sup>#</sup> M. S. Um, S. M. Noh, H W, Jung, J. K. Oh.<sup>\*</sup> Photo-induced thiol-ene crosslinked polymethacrylate networks reinforced with Al<sub>2</sub>O<sub>3</sub> nanoparticles. *Polymer* **2016**, *101*, 119-126.

- [A81] S. Y. An,<sup>#</sup> S. H. Hong,<sup>#</sup> C. Tang, J. K. Oh.<sup>\*</sup> Rosin-based block copolymer intracellular delivery nanocarriers with reduction-responsive sheddable coronas for cancer therapy. *Polymer chemistry* **2016**, *7*, 4751-4760.
- [A80] S. Y. An,<sup>#</sup> S. Sun, J. K. Oh.<sup>\*</sup> Reduction-responsive sheddable carbon nanotubes dispersed in aqueous solution. *Macromolecular Rapid Communications* **2016**, *37*, 705–710.
- [A79] X. Zhang, Q. Zhang,<sup>\*</sup> C. Xie, A. Gao, Z. Chang, J. K. Oh, P. Yang, P. Li<sup>\*</sup> Phosphonated Homo- and Copolymers via Ring Opening Metathesis Polymerization:  $T_g$  Tuning, Flame-resistance and Photolithography. *Journal of Polymer Science. Part A: Polymer Chemistry* **2016**, *54*, 1396–1408.
- [A78] D. Biswas,<sup>#</sup> P. Li,<sup>#</sup> J. K. Oh.<sup>\*</sup> Enhanced encapsulation of superparamagnetic  $Fe_3O_4$  in acidic core-containing micelles for magnetic resonance imaging. *RSC Advances* **2015**, *5*, 107938-107948.
- [A77] Y. Wang, Q. Zhang,<sup>\*</sup> C. Xie, X. Zhao, J. Niu, J. Zhao, J. K. Oh, P. Li, P. Li. Free radical nano scavenger based on amphiphilic novolacs. *RSC Advances* **2015**, *5*, 95666-95673.
- [A76] P. Li,<sup>#</sup> P. Chevallier, P. Ramrup, D. Biswas,<sup>#</sup> D. Vuckovich, M.-A. Fortin, J. K. Oh.<sup>\*</sup> Mussel-inspired multidentate block copolymer to stabilize ultrasmall superparamagnetic  $Fe_3O_4$  for magnetic resonance imaging contrast enhancement and excellent colloidal stability. *Chemistry of Materials*, **2015**, *27*, 7100-7109.
- [A75] T. Sun,<sup>#</sup> P. Li,<sup>#</sup> J. K. Oh.<sup>\*</sup> Dual location dual reduction and photo-responsive degradable block copolymer micelles: disassembly and synergistic release, *Macromolecular Rapid Communications* **2015**, *36*, 1742-1748 (**invited back cover**).
- [A74] S. Y. An,<sup>#</sup> D. Arunbabu,<sup>#</sup> J. K. Oh.<sup>\*</sup> *Recent advances of self-healable polymeric networks*. *Chemical Communications* **2015**, *51*, 13058-13070 (**invited back cover**).
- [A73] S. Y. An,<sup>#</sup> S. M. Noh, J. H. Kim, J. K. Oh.<sup>\*</sup> *Dual sulfide-disulfide crosslinked networks with rapid and room temperature self-healability*. *Macromolecular Rapid Communications* **2015**, *36*, 1255-1260 (**invited back cover**).
- [A72] Y. Wen,<sup>#</sup> J. K. Oh.<sup>\*</sup> Intracellular delivery cellulose-based bionanogels with dual temperature/pH-response for cancer therapy, *Colloids and Surfaces B: Biointerfaces* **2015**, *133*, 246-253.
- [A71] K. Rahimian,<sup>#</sup> Y. Wen,<sup>#</sup> J. K. Oh.<sup>\*</sup> Redox-responsive cellulose-based thermoresponsive grafted copolymers and in-situ disulfide crosslinked nanogels. *Polymer* **2015**, *72*, 387-394 (**Invited article**)
- [A70] N. R. Ko,<sup>#</sup> J. Cheong, A. Noronha, C. J. Wilds,<sup>\*</sup> J. K. Oh.<sup>\*</sup> Reductively-sheddable cationic nanocarriers for dual chemotherapy and gene therapy with enhanced release. *Colloids and Surfaces B: Biointerfaces* **2015**, *126*, 178-187.
- [A69] 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.
- [A68] Y. Wen,<sup>#</sup> J. K. Oh.<sup>\*</sup> Recent strategies to develop polysaccharide-based nanomaterials for biomedical applications. *Macromolecular Rapid Communications* **2014**, *35*, 1819-1832.
- [A67] S. Y. An,<sup>#</sup> D. K. Lee, J. W. Hwang, J. H. Nam, H. W. Jung, S. M. Noh, J. K. Oh.<sup>\*</sup> 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.
- [A66] A. Cunningham,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.<sup>\*</sup> Synthesis and reduction-responsive disassembly of PLA-based mono-cleavable micelles. *Colloids and Surfaces B: Biointerfaces* **2014**, *122*, 693-700.
- [A65] N. R. Ko,<sup>#</sup> J. K. Oh.<sup>\*</sup> Glutathione-triggered disassembly of dual disulfide located degradable nanocarriers of polylactide-based block copolymers for rapid drug release. *Biomacromolecules* **2014**, *15*, 3180-3189.
- [A64] N. Chan,<sup>#</sup> P. Li,<sup>#</sup> J. K. Oh.<sup>\*</sup> Chain length effect of multidentate block copolymer strategy to stabilize ultrasmall  $Fe_3O_4$  nanoparticles. *ChemPlusChem* **2014**, *79*, 1342-1351. (**Nominated article for a special edition entitled “Early Career Series”**)
- [A63] N. Chan,<sup>#</sup> M. Laprise-Pelletier, A. Bianchi, M.-A. Fortin,<sup>\*</sup> J. K. Oh.<sup>\*</sup> Multidentate block copolymer stabilized superparamagnetic iron oxide nanoparticles with enhanced stability for magnetic resonance imaging. *Biomacromolecules* **2014**, *15*, 2146-2156.
- [A62] N. Chan,<sup>#</sup> N. Yee,<sup>#</sup> S. Y. An,<sup>#</sup> J. K. Oh.<sup>\*</sup> *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.

- [A61] N. Chan,<sup>#</sup> S. Y. An,<sup>#</sup> N. Yee,<sup>#</sup> J. K. Oh.\* Dual redox and thermo-responsive double hydrophilic block copolymers with tunable thermoresponsive properties and self-assembly behavior. *Macromolecular Rapid Communications* **2014**, 35, 752-757.
- [A60] N. Chan,<sup>#</sup> H. W. Jung, S. M. Noh, J. K. Oh.\* 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")
- [A59] N. R. Ko,<sup>#</sup> G. Sabbatier, A. Cunningham,<sup>#</sup> G. Laroche,\* J. K. Oh.\* 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. (**Invited article** for a special issue entitled "Precisely controlled polymer architectures via molecular engineering")
- [A58] N. Chan,<sup>#</sup> S. Y. An,<sup>#</sup> J. K. Oh.\* 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")
- [A57] S. Y. An,<sup>#</sup> J. W. Hwang, K. N. Kim, H. W. Jung, S. M. Noh, J. K. Oh.\* 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.
- [A56] S. Aleksanian,<sup>#</sup> Y. Wen,<sup>#</sup> N. Chan,<sup>#</sup> J. K. Oh.\* Thiol-responsive hydrogel scaffolds for rapid change in thermoresponsiveness. *RSC Advances* **2014**, 4, 3713-3721.
- [A55] Y. Wen,<sup>#</sup> J. K. Oh.\* Dual-stimuli reduction and acidic pH-responsive bionanogels: intracellular delivery nanocarriers with enhanced release. *RSC Advances* **2014**, 4, 229-237.
- [A54] N. Chan,<sup>#</sup> B. Khorsand,<sup>#</sup> S. Aleksanian,<sup>#</sup> J. K. Oh.\* Dual location stimuli-responsive degradation strategy of block copolymer nanocarriers for accelerated release. *Chemical Communications* **2013**, 49, 7534-7536.
- [A53] B. Khorsand,<sup>#</sup> G. Lapointe, C. Brett, J. K. Oh.\* Intracellular drug delivery nanocarriers of glutathione-responsive degradable copolymers having pendant disulfide linkages. *Biomacromolecules* **2013**, 14, 2103-2111.
- [A52] Q. Zhang,<sup>#</sup> J. W. Hwang, K. N. Kim, H. W. Jung, S. M. Noh,\* J. K. Oh.\* 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.
- [A51] B. Khorsand,<sup>#</sup> J. K. Oh.\* 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.
- [A50] K. Rahimian-Bajgiran,<sup>#</sup> N. Chan,<sup>#</sup> Q. Zhang,<sup>#</sup> S. M. Noh, H. I. Lee, J. K. Oh.\* Tuning LCST with thiol-responsiveness of thermoresponsive copolymers containing pendant disulfides. *Chemical Communications* **2013**, 49, 807-809.
- [A49] A. Cunningham,<sup>#</sup> J. K. Oh.\* New design of thiol-responsive degradable block copolymer micelles. *Macromolecular Rapid Communications* **2013**, 34, 163-168.
- [A48] Q. Zhang,<sup>#</sup> S. Aleksanian,<sup>#</sup> S. M. Noh, J. K. Oh.\* Thiol-responsive block copolymer nanocarriers exhibiting tunable release with morphology changes. *Polymer Chemistry* **2013**, 4, 351-359
- [A47] N. R. Ko,<sup>#</sup> K. Yao, C. Tang, J. K. Oh.\* 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")
- [A46] Q. Zhang,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.\* Modulated morphologies and tunable thiol-responsive shedding of aqueous block copolymer aggregates. *RSC Advances* **2012**, 2, 8079-8086.
- [A45] Q. Zhang,<sup>#</sup> N. R. Ko,<sup>#</sup> J. K. Oh.\* Recent advances of stimuli-responsive degradable block copolymer micelles: synthesis and controlled drug delivery applications. *Chemical Communications* **2012**, 48, 7542-7552.
- [A44] Q. Zhang,<sup>#</sup> S. M. Noh, J. H. Nam, H. W. Jung, J. M. Park, J. K. Oh.\* Dual temperature and thiol-responsive POEOMA-multisegmented polydisulfides: synthesis and thermoresponsive properties. *Macromolecular Rapid Communications* **2012**, 33, 1528-1534.

- [A43] 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.
- [A42] 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.
- [A41] 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. **(IF = 24.10)**
- [A40] 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.
- [A39] 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.
- [A38] 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.
- [A37] J. K. Oh.<sup>\*</sup> Polylactide (PLA)-based amphiphilic block copolymers: synthesis, self-assembly, and biomedical applications. *Soft Matter* **2011**, 7, 5096-5108
- [A36] J. A. Yoon, 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* **2011**, 6, 128-136.
- [A35] 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.
- [A34] 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.
- [A33] J. K. Oh.<sup>\*</sup> Surface modification of colloidal CdX-based quantum dots for biomedical applications. *Journal of Materials Chemistry* **2010**, 20, 8433-8445.
- [A32] J. K. Oh.<sup>\*</sup> Engineering of nanometer-sized crosslinked hydrogels for biomedical applications. *Canadian Journal of Chemistry* **2010**, 88, 173-184.
- [A31] 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.
- [A30] 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]**
- [A29] J. K. Oh,<sup>\*</sup> D. I. Lee, J. M. Park. Biopolymer-based microgels/nanogels for drug delivery applications. *Progress in Polymer Science* **2009**, 34, 1261-1282.
- [A28] J. K. Oh,<sup>\*</sup> 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.
- [A27] J. K. Oh,<sup>\*</sup> D. J. Siegwart, K. Matyjaszewski. The development of microgels/nanogels for drug delivery applications. *Progress in Polymer Science* **2008**, 33, 448-477. **[Citation > 750 as of September 2016, World-top 1% most cited paper within 2 years after publication by ISI Thomson]**
- [A26] J. K. Oh<sup>\*</sup> Recent advances in controlled/living radical polymerization in emulsion and dispersion. *Journal of Polymer Science Part A: Polymer Chemistry* **2008**, 46, 6983-7001. [Highlight: cover page]
- [A25] 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
- [A24] 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.

- [A23] 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.
- [A22] 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
- [A21] 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.
- [A20] 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
- [A19] 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
- [A18] 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.
- [A17] 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.
- [A16] 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
- [A15] 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.
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### **Book Chapters**

- [B6] M. Fortin, \*J. K. Oh\* Ultra-small iron oxide nanoparticles stabilized with multidendate polymers for applications in MRI. Book entitled "Clinical Applications of Magnetic Nanoparticles", edited by N. T. K. Thanh; CRC Press, Taylor and Francis, Boca Raton London New York (**2017**)
- [B5] Q. Zhang, \* Y. Jiang, Y. Wang, P. Li, X. Zhao, C. Xie, J. Zhao, J. Niu, J. K. Oh, P. Li. New Design of Phenol-containing polymers as radical scavengers. Book entitled "Free Radicals: The Role of Antioxidants and Pro-Oxidants in Cancer Development", edited by B. Stone; Nova publisher, New York (**2016**)
- [B4] 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**).
- [B3] H. Gao, N. Chan,<sup>#</sup> 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**).
- [B2] Q. Zhang,<sup>#</sup> S. Aleksanian,<sup>#</sup> A. Cunningham,<sup>#</sup> 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**).
- [B1] 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:**

- [P16] Reactive blend and thermoreversible self-healing polymer network using the same. S. M. Noh, J. H. Nam, D. Arunbabu, J. K. Oh. KR 10-1744925 (**2017**)
- [P15] Preparation of functional gel particles with a dual crosslink network. K. Matyjaszewski, K. Min, J. K. Oh, J. Spanswick, N. V. Tsarevsky. US 8367051 (**2016**).
- [P14] Hydrophobically modified alkali soluble emulsion-thickened composition for coating with good scrub resistance. J. K. Oh. EP2450410 & US2012/0115999 Application (**2012**).
- [P13] 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.
- [P12] 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**).

- [P11] 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**).
- [P10] 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**).
- [P9] 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**).
- [P8] 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**).
- [P7] 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**).
- [P6] 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**).
- [P5] 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**).
- [P4] Emulsion polymer having a vesiculated structure. S. M. Hong, J. M. Park, C. H. Choi, J. K. Oh. GB 2340837 (**2000**).
- [P3] 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**).
- [P2] 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**).
- [P1] 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**).

## Lectures, Conference Presentations & Workshops

### *Invited Lectures:*

- [IL37] University of Montreal, Department of Chemistry, Montreal, QC, Canada, August **2017**.
- [IL36] The Institute of Medicinal Plant Development (IMPLAD), Beijing, China, August **2017**.
- [IL35] University of Alberta, Department of Chemistry, Edmonton, AB, Canada, August **2016**.
- [IL34] Université de Sherbrooke, Department of Chemistry, Sherbrooke, QC, Canada, April **2016**.
- [IL33] Tsinghua University, Department of Chemistry, Beijing, China, December **2015**.
- [IL32] Shanghai Jiao Tong University, Department of Chemistry, Shanghai, China, December **2015**.
- [IL31] University of Toronto, School of Pharmacy, Toronto, ON, Canada, May **2015**.
- [IL30] Carnegie Mellon University, Department of Chemistry, Pittsburgh, PA, USA, March **2015**.
- [IL29] University of Waterloo, Department of Chemistry, Waterloo, ON, Canada, January **2015**.
- [IL28] University of Waterloo, Department of Chemical Engineering, Waterloo, ON, January **2015**.
- [IL27] Xerox Research Center of Canada, Mississauga, ON, Canada, December **2014**.
- [IL26] Xi'an Jiaotong University, Xi'an, China, October **2014**.
- [IL25] Xi'an University of Technology, Department of Chemistry, Xi'an, China, October **2014**.
- [IL24] Korea Research Institute of Chemical Technology (KRICT), Ulsan, Korea, May **2014**.
- [IL23] Hanyang University, Department of Chemistry, Seoul, Korea, May **2014**.
- [IL22] Ulsan University, Department of Chemistry, Ulsan, Korea, May **2014**.
- [IL21] Hoseo University, Department of Chemical Engineering, Cheonan, Korea, May **2014**.
- [IL20] INRS-Energy Materials and Telecommunications, Varennes, QC, February **2014**.
- [IL19] McMaster University, Department of Chemical Engineering, Hamilton, ON, Canada, October **2013**.



- [IL18] Université Laval, Département de Génie des Mines, de la Métallurgie et des Matériaux, QC, Canada, February **2013**.
- [IL17] Korea University, Department of Chemical and Biological Engineering, Seoul, Korea, November **2012**.
- [IL16] Hoseo University, Department of Chemical Engineering, Cheonan, Korea, November **2012**.
- [IL15] Ulsan National Institute of Science and Technology, Ulsan, Korea, November **2012**.
- [IL14] Xerox Research Center of Canada, Mississauga, ON, Canada, November **2011**.
- [IL13] Hanyang University, Department of Chemistry, Ansan, Korea, September **2011**.
- [IL12] Busan University, Department of Chemistry, Busan, Korea, September **2011**.
- [IL11] Inha University, Department of Chemical Engineering, Incheon, Korea, September **2011**.
- [IL10] PPG Korea, Cheonan, Korea, September **2011**.
- [IL9] Queen's University, Department of Chemical Engineering, Canada, March **2011**.
- [IL8] Korea University, Department of Chemistry, Chochiwon, Korea, December **2010**.
- [IL7] Ulsan University, Department of Chemistry, Ulsan, Korea, December **2010**.
- [IL6] Hanyang University, Department of Chemistry, Seoul, Korea, December **2010**.
- [IL5] PPG Korea, Cheonan, Korea, November **2010**.
- [IL4] Concordia University, Department of Mechanical and Industrial Engineering, September **2010**.
- [IL3] Concordia University, Department of Chemistry and Biochemistry, February **2010**.
- [IL2] University of Alabama-Tuscaloosa, Department of Chemistry, February **2010**.
- [IL1] West Virginia University, WVNano, USA, January **2007**.

#### ***Invited Presentations in Conferences & Workshops:***

- [IP23] Multidentate block copolymer strategy to fabricate aqueous colloids of iron oxide nanoparticles for MRI contrast enhancement. 254<sup>th</sup> American Chemical Society National Meeting, Washington DC, USA, August **2016**.
- [IP22] ML-MSRD strategy of block copolymers for cancer therapy. 8<sup>th</sup> International Symposium on Engineering Plastics (EP2017), Xian, China, August **2017**.
- [IP21] Development of intrinsic self-healable networks utilizing dynamic chemistries. Concordia Composites Day, Montreal, QC, Canada, July **2017**.
- [IP20] Intrinsic self-healable polymeric networks utilizing dynamic chemistries. Macromolecular Science Engineering Division. 100<sup>th</sup> Canadian Chemistry Conference and Exhibition, Toronto, ON, Canada, May **2017**.
- [IP19] Nanomedicine with smart block copolymer nanoassemblies exhibiting enhanced drug release for cancer therapy. Macromolecular Science Engineering Division. 100<sup>th</sup> Canadian Chemistry Conference and Exhibition, Toronto, ON, Canada, May **2017**.
- [IP18] [**keynote**] Tumor-targeting smart nanomedicines for enhanced drug release. Canadian Biomaterials Society. Montreal Biomaterials Research Day. Montreal, QC, Canada, February **2017**.
- [IP17] [**keynote**] Method development to synthesize effective self-healable networks. Workshop for Development of Industrial Core Technology Funded by Korean Ministry of Knowledge Economy, Ulsan, Korea, October **2016**.
- [IP16] ML-MSRD strategy of block copolymer micelles for accelerated drug release and cancer therapy. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2016**.
- [IP15] Stimuli-responsive degradation (SRD) for development of multifunctional materials. Materials Chemistry Division (Emerging Materials Researcher). 99<sup>th</sup> Canadian Chemistry Conference and Exhibition, Halifax, NS, Canada, June **2016**.
- [IP14] Multi-location multiple stimuli-responsive degradation strategy for enhanced drug release. Macromolecular Science Engineering Division. 99<sup>th</sup> Canadian Chemistry Conference and Exhibition, Halifax, NS, Canada, June **2016**.

[IP13] Design of multifunctional block copolymers and hybride materials. CSCAC-CQMF Advanced Materials Annual Conference 2016, Montreal, QC, Canada, May **2016**.

[IP12] Multidentate block copolymer strategy to develop  $\text{Fe}_3\text{O}_4$  exhibiting excellent colloidal stability and MRI contrast enhancement. 9<sup>th</sup> International Conference on Multi-functional Materials and Applications, Suzhou University of Science and Technology, Suzhou, China, November **2015**.

[IP11] [**Keynote**] 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**.

[IP10] 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**.

[IP9] Multi-location multiple stimuli-responsive degradation strategy for accelerated drug release. Macromolecular Science Engineering Division. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.

[IP8] Exploring stimuli-responsive degradation platform to tune thermoresponsive properties. Materials Chemistry. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.

[IP7] Self-assembled block copolymer nanocarriers with stimuli-response drug release. CQMF Annual Symposium, Shawinigan, QC, Canada, November **2013**.

[IP6] Stimuli-responsive degradation: 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**.

[IP5] Degradable block copolymer micelles with thiol-responsive sheddable corona. Macromolecular Science Engineering Division. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, May **2012**.

[IP4] Rapid and tunable degradation of new thiol-responsive block copolymer micelles for potential drug delivery applications. Macromolecular Science Engineering Division. 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, AB, Canada, May **2012**.

[IP3] Thiol-responsive degradable block copolymer micelles. 242<sup>nd</sup> American Chemical Society National Meeting, Denver, CO, USA, August **2011**.

[IP2] [**Keynote**] 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**.

[IP1] [**Keynote**] 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**.

### ***Contributed Presentations:***

[CP26] Dual location multiple stimuli-responsive degradation: a new strategy for accelerated drug release and cancer therapy. Canadian Society for Pharmaceutical Science Annual Meeting. Vancouver, BC, Canada, May **2016**.

[CP25] Multi-location multiple stimuli-responsive degradation strategy for enhanced drug release. Pacificchem 2015, Honolulu, Hawaii, USA, December **2015**.

[CP24] 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**.

[CP23] Multidentate block copolymer strategy for vascular magnetic resonance imaging. 4<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials: Hybrid Materials, Sitges, Spain, March **2015**.

[CP22] Dual-location stimuli-responsive degradation strategy for accelerated drug release. 4<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials: Hybrid Materials, Sitges, Spain, March **2015**.

[CP21] Multidentate block copolymer stabilized ultrasmall  $\text{Fe}_3\text{O}_4$  nanoparticles for vascular magnetic resonance imaging. 97<sup>th</sup> Canadian Chemistry Conference and Exhibition, Vancouver, BC, Canada, June **2014**.

[CP20] 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)**.

[CP19] 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**.

[CP18] A new design of thiol-responsive degradable block copolymer micelles. 35<sup>th</sup> Canadian High Polymer Forum, Gananoque, ON, Canada, August **2012**.

[CP17] Multifunctional polymeric nanostructured materials for biomedical applications. 85<sup>th</sup> ACS Colloid and Surface Science Symposium, Montreal, QC, Canada, June **2011**.

[CP16] 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**.

[CP15] 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**.

[CP14] 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**.

[CP13] 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**.

[CP12] Mechanism of gel formation in acrylic latex containing acetoacetoxy groups. 236<sup>th</sup> American Chemical Society National Meeting, PA, USA, August **2008**.

[CP11] **J. K. Oh**, C. Tang, H. Gao, N. T. Tsarevsky, D. J. Siegart, 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**.

[CP10] **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**.

[CP9] **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**.

[CP8] **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**.

[CP7] **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**.

[CP6] **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**.

[CP5] **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**.

[CP4] **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**.

[CP3] **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**.

[CP2] **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**.

[CP1] **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**.

### ***Trainees' Presentations in Conferences:***

# indicates trainee; **presenting author in bold.**

[TC57] **S. H. Hong**,# J. K. Oh.\* Dynamic polyester with dual stimuli-responsive properties for cancer targeting drug delivery. 100<sup>th</sup> Canadian Chemistry Conference and Exhibition (CSC), Toronto, ON, Canada, May **2017**. (Oral)

[TC56] **K. K. Bawa**,# J. K. Oh. Polylactide-based dual-location dual stimuli-responsive triblock copolymer and its nanoassemblies. 100<sup>th</sup> Canadian Chemistry Conference and Exhibition, Toronto, ON, Canada, May, **2017**.

[TC55] **A. M. Jazani**,# J. K. Oh. Dual location dual acidic pH/glutathione-responsive block copolymer strategy for precise control of drug release and cellular uptake. 100<sup>th</sup> Canadian Chemistry Conference and Exhibition, Toronto, ON, Canada, May **2017**.

[TC54] **K. K. Bawa**,# J. K. Oh. Dual-location dual-stimuli-responsive polylactide (PLA) based triblock copolymer and its nanoassemblies, 20<sup>th</sup> Canadian Society for Pharmaceutical Sciences (CSPS), Montreal, QC, Canada, May **2017**.

[TC53] **A. M. Jazani**,# J. K. Oh. Dual reduction/acidic pH-responsive block copolymer micelles: synthesis, self assembly and stimuli responsive enhanced release. 20<sup>th</sup> Canadian Society for Pharmaceutical Sciences, Montreal, QC, Canada, May **2017**. [**2<sup>nd</sup> Place outstanding poster award**]

[TC52] **S. H. Hong**,# J. K. Oh. Synthesis of multi-stimuli responsive nanoassemblies via click chemistry for enhanced drug delivery. 20<sup>th</sup> Canadian Society for Pharmaceutical Sciences, Montreal, QC, Canada, May **2017**.

[TC51] **S. H. Hong**,# S. Garg, S. Ip, J. K. Oh. Microfluidic nanoassemblies of dual enzyme and oxidation-responsive polyesters. Centre Quebecois sur les Matériaux Fonctionnels (CQMF) Annual Meeting, Montreal, QC, Canada, November **2016**.

[TC50] **S. H. Hong**,# J. K. Oh. Development of dual enzyme/oxidation-responsive degradable systems for cancer therapy with controlled/enhanced drug release. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2016**. (oral)

[TC49] **S. Jung**,# D. Arunbabu,# J. K. Oh. Reversible polymer networks composed of maleimide bearing polymethacrylate as a multiple-crosslinker for thermoreversible self-healing. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2016**.

[TC48] **A. M. Jazani**,# J. K. Oh. Dual location dual reduction/pH-responsive degradable block copolymer micelles for enhanced cellular uptake and drug controlled release. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2016**. [**3rd place of outstanding poster award out of 30 posters**]

[TC47] **W. Xiao**,# P. Li,# J. K. Oh. In situ synthesis of colloidal-stable Fe<sub>3</sub>O<sub>4</sub> nanoparticles coated with multidentate block copolymer for MRI contrast agents. Canadian High Polymer Forum, Gananoque, ON, Canada, August **2016**.

[TC46] **S. Y. An**,# S. Sun, J. K. Oh. A new strategy to synthesize reductively sheddable carbon-based materials. 99<sup>th</sup> Canadian Chemistry Conference (CSC), Halifax, NS, Canada, June **2016**.

[TC45] **S. Y. An**,# J. K. Oh. Development of self-healing polymeric crosslinked networks using dynamic disulfide linkages. 99<sup>th</sup> Canadian Chemistry Conference (CSC), Halifax, NS, Canada, June **2016**. (oral)

[TC44] **W. Xiao**,# P. Li,# P. Chevallier, M. A. Fortin, J. K. Oh. Catechol-functionalized multidentate block copolymer strategy to fabricate colloidal-stable aqueous iron oxide nanoparticles for MRI. 99<sup>th</sup> Canadian Chemistry Conference (CSC), Halifax, NS, Canada, June **2016**.

[TC43] **S. Y. An**,# J. K. Oh. Development and design of polymeric nanomaterials with multifunctional applications. CSCAS-CQMF Advanced Materials Annual Meeting, Montreal, QC, Canada, May **2016**.

[TC42] **A. M. Jazani**,# J. K. Oh. Multi-location multiple stimuli-responsive degradation of block copolymer-based micelles for rapid and controlled release. CSCAS-CQMF Advanced Materials Annual Meeting, Montreal, QC, Canada, May **2016**.

[TC41] **D. G. Lee**,# S. Y. An,# S. M. Noh, M. S. Um, W. J. Choi, J. K. Oh, H. W. Jung. Study of Al<sub>2</sub>O<sub>3</sub> nanoparticles effects on viscoelastic, mechanical and thermal properties of thiol-ene cross-linked networks. The Society of Adhesion & Interface, Daejeon, Korea, April **2016**.

[TC40] **S. Y. An,**<sup>#</sup> S. Sun, **J. K. Oh.** Carbon nanotubes stabilized with reduction-responsive polymers in aqueous solutions. CQMF Annual Meeting, Drummondville, QC, Canada, November **2015**. [**1st place of outstanding poster award**]

[TC39] **S. Y. An,**<sup>#</sup> **J. K. Oh.** Dual crosslinked polymeric networks by sulfide-disulfide exhibiting rapid self-healing ability. CQMF Annual Meeting, Drummondville, QC, Canada, November **2015** (oral). [**1st place of outstanding oral presentation award**]

[TC38] **D. Biswas,**<sup>#</sup> P. Li,<sup>#</sup> **J. K. Oh.** Magnetic nanoparticles encapsulated in pH sensitive amphiphilic block copolymer based micelles with acidic cores. CQMF Annual Meeting, Drummondville, QC, Canada, November **2015**.

[TC37] **S. H. Hong,**<sup>#</sup> S. Y. An,<sup>#</sup> **J. K. Oh.** Redox-responsive Amphiphilic Block Copolymer Derived from Rosin as a Promising Platform for Intracellular Drug Delivery. CQMF Annual Meeting, Drummondville, QC, Canada, November **2015**.

[TC36] **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)

[TC35] **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, Canada, October **2014**. [**1st place of CChE graduate student poster award**]

[TC34] **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, Canada, October **2014**.

[TC33] **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)

[TC32] **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**. (poster)

[TC31] **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**. (poster)

[TC30] **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**.

[TC29] **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**.

[TC28] **G. Sabbatier,** A. Larrañaga, N. R. Ko,<sup>#</sup> A. Cunningham,<sup>#</sup> A. Guay-Bégin, **J. K. Oh,** J. Ramòn Sarrasua, G. Laroche. Designing multifunctional nanofiber scaffold for endothelial cells adhesion and proliferation on vascular substitutes. Canadian Biomaterial Society Congress, Halifax, NS, Canada, March **2014**.

[TC27] **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, Canada, November **2013**. [**1st place of outstanding poster award**]

[TC26] **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**.

[TC25] **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**.

[TC24] **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, Shawinigan, QC, Canada, November **2013**.

[TC23] **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, Canada, November **2013**.

[TC22] **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, Canada, November **2013**. (oral)

[TC21] **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)

[TC20] **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)

[TC19] **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)

[TC18] **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)

[TC17] **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**.

[TC16] **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**.

[TC15] **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**.

[TC14] **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, Canada, November **2012**.

[TC13] **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**.

[TC12] **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**.

[TC11] **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**.

[TC10] **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**.

[TC9] **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**.

[TC8] **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**.

[TC7] **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)

[TC6] **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**.

[TC5] **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**.

[TC4] **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, Canada, August **2011**.

[TC3] **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**.

[TC2] **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**.

[TC1] **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**.