

## **References**

- Adams, M. L., Lavasanifar, A. and Kwon, G. S., Amphiphilic block copolymers for drug delivery, *J. Pharm. Sci.*, 92, 1343, 2003.
- Albertsson, A. C. and Varma, I. K., Recent developments in ring opening polymerization of lactones for biomedical applications, *Biomacromolecules*, 4, 1466–1486, 2003.
- Allen, C., Maysinger, D. and Eisenberg, A., Nano-engineering block copolymer aggregates for drug delivery, *Colloids Surf. B Biointerface*, 16, 3, 1999.
- Ansari, M. T. and Sunderland, V. B., Solid dispersions of dihydroartemisinin in poly(vinylpyrrolidone), *Arch pharm res*, 31, 390-98, 2008.
- Aryal, S., Prabaharana, M., Pilla, S. and Gong, S., Biodegradable and biocompatible multi-arm star amphiphilic block copolymeras a carrier for hydrophobic drug delivery, *Inter. J. Bio. Macromolecules*, 44, 346-352, 2009.
- Astente, C. E. and sabliov, C. M., synthesis and characterization of PLGA nanoparticles, *J. Biomater. Sci., Polym. Ed.*, 17, 247–289, 2006.
- Astruc, D., Boisselier, E. and Ornelas, C., Dendrimers designed for functions: from physical, photophysical, and supramolecular properties to applications in sensing, catalysis, molecular electronics, photonics, and nanomedicine, *Chem. Rev.*, 110, 1857–1959, 2010.
- Aucher, GV, Poreba, M., Ravenelle, F. and Leroux, J., Poly(N-vinyl-pyrrolidone)-block-poly(D,L-lactide) as polymeric emulsifier for the preparation of biodegradable nanoparticles. *J. of pharmaceutical science*, 96, 1763-75, 2007.
- Auras, R., Harte, B. and Selke, S., An overview of polylactides as packaging materials, *Macromol. Biosci.*, 4, 835-864, 2004.
- Avgoustakis, K., Pegylated poly(lactide) and poly(lactide-co-glycolide) nanoparticles: preparation, properties and possible applications in drug delivery, *Curr. Drug Deliv.*, 1, 321–333, 2004.
- Baban, D.F., and Seymour, L.W., Control of tumour vascular permeability, *Adv. Drug Deliv. Rev.*, 34, 109–119, 1998.
- Bader, H., Ringsdorf, H. and Schmidt, B., Water-soluble polymers in medicine, *Angew. Makromol. Chem.*, 123/124, 457, 1984.
- Bala, I., Haribaran, S. and Kumar, R., PLGA nanoparticles in drug delivery: The state of the art, *Critical Reviews in therapeutic Drug Carrier Systems*, 21, 387-422, 2004.
- Barner-Kowollik, C., Davis, T. P., Heuts, J. P. A., Stenzel, M. H., Vana, P. and Whittaker, M., Rafting down under: tales of missing radicals, fancy architectures, and mysterious holes, *J. Polym. Sci., Part A: Polym. Chem.*, 41, 365-375, 2003.

- Bartels, J. W., Billings, P. L., Ghosh, B., Urban, M.W., Greenleaf, C. M. and Wooley K. L., Amphiphilic cross-linked networks produced from the vulcanization of nanodomains within thin films of Poly(N-vinylpyrrolidinone)-b-Poly(isoprene) *Langmuir*, 25, 9535, 2009.
- Benahmed, A., Ranger M. and Leroux, J. C., Novel polymeric micelles based on the amphiphilic diblock copolymer poly(N-vinyl-2-pyrrolidone)-block-poly(D,L-lactide), *Pharm Res.*, 18, 323-8, 2001.
- Bian, C.R., Suzuki, S., Asakura, K., Ping, L. and Toshima, N., Extended X-ray absorption fine structure studies on the structure of the poly(vinylpyrrolidone)-stabilized Cu/Pd nanoclusters colloidally dispersed in solution, *J. Phys. Chem. B*, 106, 8587-8598, 2002.
- Bielawski, C.W. and Grubbs, R. H., Living ring-opening metathesis polymerization, *Prog. Polym. Sci.*, 32, 1-29, 2007.
- Bielinska, A. U., Yen, A., Wu, H. L., Zahos, K. M., Sun, R., Weiner, N. D., Baker, J. R. and Roessler, B. J., Application of membrane-based dendrimer/DNA complexes for solid phase transfection in vitro and in vivo. *Biomaterials*, 21, 877–887, 2000.
- Bilalis, P., Hadjichristidis, N. and Pitsikalis, M., Controlled nitroxide-mediated and reversible addition-fragmentation chain transfer polymerization of *N*-vinylpyrrolidone: Synthesis of block copolymers with styrene and 2-vinylpyridine, *J. Polym. Sci., Part A: Polym. Chem.*, 44, 659, 2006.
- Brunelle, D. J., Ring-Opening Polymerization: Mechanisms, Catalysis Structure, Utility, Ed., Hanser Publishers, New York, 1993.
- Bulychev, N. A., Arutunov, I. A., Zubov, V. P., Verdonck, B., Zhang, T., Goethals, E. J. and Du Prez, F. E., Block copolymers of Vinyl Ethers as thermo-responsive colloidal stabilizers of organic pigments in aqueous media, *Macromol. Chem. Phys.*, 205, 2457-2463, 2004.
- Callewaert, M., Gohy, J.F., Dupont-Gillain, C.C., Boulangé-Petermann, L. and Rouxhet, PG., Surface morphology and wetting properties of surfaces coated with an amphiphilic diblock copolymer, *Surface Sci.*, 575, 125-135, 2005.
- Cao, W., Zhou, J., Mann, A., Wang, Y. and Zhu, L., Folate-functionalized unimolecular micelles based on a degradable amphiphilic dendrimer-like star polymer for cancer cell-targeted drug delivery, *Biomacromolecules*, 12, 2697-2707, 2011.
- Carothers, W. H. and Van Natta, F. J., Studies on polymerization and ring formation. III. glycol esters of carbonic acid, *J. Am. Chem. Soc.*, 52, 314-320, 1930.

- Carothers, W. H., Dorough, G. L. and Van Natta, F. J., Studies of polymerization and ring formation the reversible polymerization of six-membered cyclic esters, *J. Am. Chem. Soc.*, 54, 761-772, 1932.
- Cerritelli, S., Velluto, D. and Hubbell, J. A., PEG-SS-PPS: reduction-sensitive disulfide block copolymer vesicles for intracellular drug delivery, *Biomacromolecules*, 8, 1966-72, 2007.
- Charmot, D., Corpant, P., Adam, H., Zard, S. Z., Biadatti, T. and Bouhadir, G., Controlled radical polymerization in dispersed media, *Macromol. Symp.*, 150, 23, 2000.
- Chen, H., Wu, X., Duan, H., Wang, Y. A., Wang, L., Zhang, M. and Mao, H., Biocompatible Polysiloxane-containing diblock copolymer PEO-*b*-P $\gamma$ MPS for coating magnetic nanoparticles, *ACS Appl. Mater. Interface*, 10, 2134- 2140, 2009.
- Chen, L., Ci, T., Li, T., Yu, L. and Ding, J., Effects of molecular weight distribution of amphiphilic block copolymers on their solubility, micellization and temperature-induced sol-gel transition in water, *Macromolecules*, 47, 5895–5903, 2014.
- Chiefari, J., Chong, Y. K., Ercole, F., Krstina, J., Jeffrey, J., Le, T. P. T., Mayadunne, R. T. A., Meijs, G. F., Moad, C. L., Moad, G., Rizzardo, E. and Thang, S. H., Living free-radical polymerization by reversible addition-fragmentation chain transfer: The RAFT process, *Macromolecules*, 31, 5559, 1998.
- Chiefari, J., Mayadunne, R. T. A., Moad, G., Rizzardo, E. and Thang, S. H., Polymerisation process with living characteristics, Du Pont. *PCT Int. Appl.*, WO 9931144, 1999.
- Chu, B., Laser Light Scattering: Basic Principles and Practices; 2<sup>nd</sup> ed.; Academic Press: New York, 1361. 1991.
- Chung, T.W., Cho, K.Y., Lee, H. C., Nah, J. W., Yeo, J. H., Akaike, T. and Cho, C. S., Novel micelle-forming block copolymer composed of poly ( $\epsilon$ -caprolactone) and poly(vinyl pyrrolidone), *Polymer*, 45, 1591-1597, 2004.
- Collman, J. P., Devaraj, N. K. and Chidsey, C. E. D., Clicking” functionality onto electrode surfaces, *Langmuir*, 20, 1051-1053, 2004.
- Convertine, A. J., Sumerlin, B. S., Thomas, D. B., Lowe, A. B. and McCormick, C. L., Synthesis of block copolymers of 2- and 4-vinylpyridine by RAFT polymerization, *Macromolecules*, 36, 4679, 2003.
- Corpant, P., Charmot, D., Biadatti, T., Zard, S. Z., Michelet, D., Rhodia. [PCT Int. WO 9858974] Appl. 1998.

- Cowan, K. H. and Jolivet, J., A methotrexate-resistant human breast cancer cell line with multiple defects, including diminished formation of methotrexate polyglutamates, *J. Bio. Chem.*, 259, 10793-10800, 1984.
- Debuigne, A., Willet, N., Jerome, R. and Detrembleur, C., Amphiphilic poly(vinyl acetate)-*b*-poly(*N*-vinylpyrrolidone) and novel double hydrophilic poly(vinyl alcohol)-*b*-poly(*N*-vinylpyrrolidone) block copolymers prepared by cobalt-mediated radical polymerization, *Macromolecules*, 40, 7111-7118, 2007.
- Del, C., Pizarro, G., Marambio, O. G., Jeria, M. O., Huerta, M. and Rivas, B. L., Nonionic water-soluble polymer: Preparation, characterization, and application of poly(1-vinyl-2-pyrrolidone-*co*-hydroxyethylmethacrylate) as a polychelatogen, *J. Appl. Polym. Sci.*, 100, 178-185, 2006.
- Destarac, M., Charmot, D., Franck, X. and Zard, S. Z., Dithiocarbamates as universal reversible addition-fragmentation chain transfer agents, *Macromol. Rapid Commun.*, 21, 1035-39, 2000.
- Devasia, R., Bindu, R. L., Borsali, R., Mougin, N. and Gnanou, Y., Controlled radical polymerization of *N*-vinylpyrrolidone by reversible addition-fragmentation chain transfer process, *Macromol. Symp.*, 229, 8-17, 2005.
- Dinarvand, R., Sepehri, N., Manoochehri, S., Rouhani, H. and Atyabi F., Polylactide-*co*-glycolide nanoparticles for controlled delivery of anticancer agents, *Inter. J. Nanomedicine*, 6, 877-895, 2011.
- Discher, B. M., Won, Y. Y., Ege, D. S., Lee, J. C. M., Bates, F. S., Discher, D. E. and Hammer, D. A., Polymersomes: tough vesicles made from diblock copolymers, *Science*, 284, 1143, 1999.
- Donovan, M. S., Sanford, T. A., Lowe, A. B., Sumerlin, B. S., Mitsukami, Y. and McCormick, C. L., Raft polymerization of *N,N*-dimethylacrylamide utilizing novel chain transfer agents tailored for high reinitiation efficiency and structural control, *Macromolecules*, 35, 4570, 2002.
- Du, J. Z., Du, X. J., Mao, C. Q. and Wang, J. Tailor-Made Dual pH-Sensitive Polymer-Doxorubicin Nanoparticles for Efficient Anticancer Drug Delivery *J Am Chem. Soc.*, 133, 17560, 2011.
- Du, Y., Chen, W., Zheng, M., Meng, F. and Zhong, Z. pH-sensitive Degradable Chimaeric Polymersomes for the Intracellular Release of Doxorubicin Hydrochloride *Biomaterials*, 33, 7291-99, 2012.
- Duda, A., Penczek, S., Kowalski, A. and Libiszowski, J., Polymerizations of  $\epsilon$ -caprolactone and L, L-dilactide initiated with stannous octoate and stannous butoxide-a comparison *Macromol. Symp.*, 153, 41, 2000.

- Einaga, H. and Harada, M., Photochemical preparation of poly(*N*-vinyl-2-pyrrolidone)-stabilized platinum colloids and their deposition on titanium dioxide *Langmuir*, 21, 2578-2584, 2005.
- Fikentscher, H. and Herrle, K., Polyvinylpyrrolidone, *Modern Plastics*, 23, 157, 1945.
- Förster, S. and Antonietti, M., Amphiphilic block copolymers in structure-controlled nanomaterial hybrids, *Adv. Mater.*, 10, 195, 1998.
- Forster, S. and Plantenberg, T., From self-organizing polymers to nanohybrid and biomaterials, *Angew. Chem. Int. Ed.*, 41, 689, 2002.
- Forster, S., Zisens, M., Wenz, E. and Antonietti, M., Micellization of strongly segregated block copolymers, *J. Chem. Phys. B*, 104, 9956, 1996.
- Freichels, H., Pourcelle, V., Rachel, A. V., Jacqueline, M. B. and Christine, J., Synthesis of poly(lactide-co-glycolide-co- $\epsilon$ -caprolactone)-graftmannosylated poly(ethylene oxide) copolymers by combination of “clip” and “click” chemistries, *Biomacromolecules*, 13, 760–768, 2012.
- Garlotta, D. A., Literature review of poly(lactic acid), *Journal of Polymers and the Environment*, 9, 63-84, 2001.
- Garrec, D. Le., Gori, S., Luo, L., Lessard, D., Smith DC., Yessine M.A., Ranger, M., and Leroux J.C., Poly(*N*-vinylpyrrolidone)-block-poly(D,L-lactide) as a new polymeric solubilizer for hydrophobic anticancer drugs: in vitro and in vivo evaluation, *J. of controlled release*, 99, 83-101, 2004.
- Gaucher, G., Dufresne, M.H., Sant, V.P., Kang, N., Maysinger, D., and Leroux, C., Block copolymer micelles: preparation, characterization and application in drug delivery, *J. Control. Release*, 109, 169–188, 2005.
- Gaucher, G., Poreba, M., Ravenelle, F. and Leroux, J. C., Poly(*N*-vinylpyrrolidone)-block-poly(D,L-lactide) as polymeric emulsifier for the preparation of biodegradable nanoparticles. *J. Pharm. Sci.*, 96, 1763-1775, 2007.
- Genevieve, G.; Kinji, A.; Wang, J.; Leroux, JC; *Biomacromolecules*, 10, 408-16. 2009.
- Gheybi, H.; Entezami, A-A.; Polymeric Micelles Based on Poly(citric acid)-b-poly(L-lactide)-b-poly(citric acid) Copolymer: Synthesis and Characterization *Polym. Plast. Technol. Eng.*, 53, 19–29, 2014.
- Gombotz, W. and Pettit, D., Biodegradable polymers for protein and peptide drug delivery, *Bioconjugate Chemistry*, 6, 332-351, 1995.
- Gottschalk, C. and Frey, H., Hyperbranched polylactide copolymers *Macromolecules*, 39, 1719-1723, 2006.
-

- Graff, A., Sauer, M., Van Gelder, P., and Meier, W., Virus-assisted loading of polymer nano-container, *Proc. Natl. Acad. Sci. U. S. A.*, 99, 5064, 2002.
- Gupta, B., Revagade, N. and Hilborn, J., Poly(lactic acid) fiber: An overview, *Prog. Polym. Sci.*, 32, 455-482, 2007.
- Hamley, I. W., Introduction to Block Copolymers in Developments in Block Copolymer Science and Technology, Ed.; Wiley 2004.
- Hans ML, Lowman AM, *Curr. Opin. Solid State Mater. Sci.* 6, 319–327, 2002.
- Hawker, C. J., Bosman, A. W. and Harth, E., New polymer synthesis by nitroxide mediated living radical polymerizations, *Chem. Rev.*, 101, 3661, 2001.
- Heise, A., Hedrick, J. L., Frank, C.W. and Miller, R. D., Starlike block copolymers with amphiphilic arms as models for unimolecular micelles, *J. Am. Chem. Soc.*, 121, 8647-8648, 1999.
- Helms, B., Mynar, J. L., Hawker, C. J. and Frechet, J. M. J., Dendronized linear polymers via click chemistry, *J. Am. Chem. Soc.*, 126, 15020-21, 2004.
- Hira, S. K., Mishra, A. K., Ray, B. and Manna, P. P. Targeted Delivery of Doxorubicin-loaded Poly ( $\epsilon$ -caprolactone)-b-Poly (N-vinylpyrrolidone) Micelles Enhances Antitumor Effect in Lymphoma. *PLoS One*, 9, e94309, 2014.
- Hira, S.K., Ramesh. K, Gupta, U.K., Mitra, K. Misra, N., Ray, B. and Manna P.P, Methotrexate-Loaded Four-Arm Star Amphiphilic Block Copolymer Elicits CD8+ T Cell Response against a Highly Aggressive and Metastatic Experimental Lymphoma, *ACS Appl. Mater. Interfaces*, 7, 20021–20033, 2015.
- Hira, S. K., Verma, D. and Manna, P. P., Tumor antigen-/cytokine-pulsed dendritic cells in therapy against lymphoma, *Methods in molecular biology*, 1139, 45-56, 2014.
- Hu, Y., Darcos, V., Monge, S., and Li, S. Synthesis and self-assembling of poly(N-isopropylacrylamide-block-poly(L-lactide)-block-poly(N-isopropylacrylamide) triblock copolymers prepared by combination of ring-opening polymerization and atom transfer radical polymerization, *J. Polym. Sci., Part A: Polym. Chem.*, 51, 3274-3283, 2013.
- Hu, Z., Fan, X., Wang, H. and Wang, J., Synthesis and characterization of biodegradable and biocompatible amphiphilic block copolymers bearing pendant amino acid residues, *Polymer*, 50, 4175-4181, 2009.
- Huisgen, R. and Padwa, A., In 1, 3-Dipolar Cycloaddition Chemistry, Ed.; Wiley: New York, 1-176, 1984.
- Huisgen, R., *Proceedings of the Chemical Society of London*, 357, 1961.

- Jones, M. C. and Leroux, J. C., Polymeric micelles - a new generation of colloidal drug carriers, *Eur. J. Pharm. Biopharm.*, 48, 101, 1999.
- Kang, N. and Leroux J. C., Triblock and star-block copolymers of N-(2-hydroxypropyl) methacrylamide or N-vinyl-2-pyrrolidone and D,L-lactide: synthesis and self-assembling properties in water, *Polymer*, 45, 8967-8980, 2004.
- Kedar, U., Phutane, P., Shidhaye, S. and Kadam, V., Advances in polymeric micelles for drug delivery and tumor targeting, *Nanomedicine: Nanotechnology, Biology, and Medicine*, 6, 714-729, 2010.
- Keddie, D. J., Moad, G., Rizzardo, E. and Thang, S. H., RAFT agent design and synthesis, *Macromolecules*, 45, 5321, 2012.
- Kennedy, J. P., Living cationic polymerization of olefins: how did the discovery come about, *J. Polym. Sci., Part A: Polym. Chem.*, 37, 2285-2293, 1999.
- Kim, Y.; Dalheimer, P.; Christian, D. A. and Discher, D. E., Polymeric worm micelles as nano-carriers for drug delivery *Nanotechnology*, 16, 484–91, 2005.
- Kirsh, Y. E., Water soluble Poly-N-vinylamides: Synthesis and Physicochemical Properties, Wiley, 1998.
- Kolb, H. C. and Sharpless, K. B., The growing impact of click chemistry on drug discovery, *Drug Discovery Today*, 8, 1128-1137, 2003.
- Kolb, H. C., Finn, M. G. and Sharpless, K. B., Click chemistry: Diverse chemical function from a few good reactions, *Angew. Chem., Int. Ed.*, 40, 2004-2021, 2001.
- Kondo, S., Ozeki, M., Nakashima, N., Suzuki, K. and Tsuda, K., Poly( N vinylpyrrolidone-co-styrene)s: Extraordinary catalysts in two-phase reactions, *Angew. Makromol. Chem.*, 163, 139-147, 1988.
- Kono, K., Liu, M., Frechet and J. M., J., Design of dendritic macromolecules containing folate or methotrexate residues, *Bioconjugate Chem.*, 10, 1115–1121, 1999.
- Kowalski, A., Duda, A. and Penczek, S., Kinetics and mechanism of cyclic esters polymerization initiated with tin(II) octoate, 1. Polymerization of  $\epsilon$ -caprolactone, *Macromol. Rapid Commun.*, 19, 567, 1998.
- Kowalski, A., Duda, A. and Penczek, S., Mechanism of cyclic ester polymerization initiated with tin(II) octoate. Macromolecules fitted with tin(II) alkoxide species observed directly in MALDI-TOF spectra, *Macromolecules*, 33, 689, 2000.
- Kumari, A., Yadav, S. K. and Yadav S. C., Biodegradable polymeric nanoparticles based drug delivery systems, *Colloids. Surf. B Biointerfaces*, 75, 1-18, 2010.

- Kuznetsova, N. R., Sevrin, C., Lespineux, D., Bovin, N. V., Vodovozova, E. L., Mészáros, T., Szebeni, J. and Grandfils, C., Hemocompatibility of liposomes loaded with lipophilic prodrugs of methotrexate and melphalan in the lipid bilayer, *Journal of Controlled Release*, 160, 394-400, 2012.
- Kwon, G. S., Diblock copolymer nanoparticles for drug delivery, *Crit. Rev. Ther. Drug.*, 15, 481, 1998.
- Kwon, O. J., Polylactide (PLA)-based amphiphilic block copolymers: synthesis, self-assembly, and biomedical applications, *Soft Matter*, 7, 5096–5108, 2011.
- Lai, M. C., Hageman, M. J., Schowen, R. L., Borchardt, R. T. and Topp, E. M., Chemical stability of peptides in polymers. 1. Effect of water on peptide deamination in poly(vinyl alcohol) and poly(vinylpyrrolidone) matrixes, *J. Pharm. Sci.*, 88, 1073-80, 1999.
- Lavasanifar, A., Samuel, J. and Kwon, G. S., Poly(ethylene oxide)-block-poly(L-amino acid) micelles for drug delivery, *Adv. Drug Deliv. Rev.*, 54, 169, 2002.
- Lawrence, M., Surfactant systems: their use in drug, *J. Chem. Soc. Rev.*, 23, 417–424, 1994.
- Le Garrec, D., Gori, S., Luo, L., Lessard, D., Smith, D. C., Yessine, M. A., Ranger, M. and Leroux, J. C., Poly(N-vinylpyrrolidone)-block-poly(d,l-lactide) as a new polymeric solubilizer for hydrophobic anticancer drugs: in vitro and in vivo evaluation, *Journal of Controlled Release*, 99, 83-101, 2004.
- Le, T. P. T., Moad, G., Rizzardo, E. and Thang, S. H. Polymerisation with living characteristics, Du Pont. *PCT Int. Appl.*, WO9801478, 1998.
- Lee, H., Lee, E., Kim, D. K., Jang, N.K., Jeong, Y.Y. and Jon, S., Antibiofouling polymer-coated superparamagnetic iron oxide nanoparticles as potential magnetic resonance contrast agents for in vivo cancer imaging, *J. Am. Chem. Soc.* 128, 7383-7389, 2006.
- Lee, Y. S., Self-Assembly and Nanotechnology -A Force Balance Approach, John Wiley & Sons, Inc. Hoboken, New Jersey, 2008.
- Letizia, M., Scandola, P., Dobrzynski, P. and Kowalcuk, M., Miscibility and mechanical properties of blends of (l)-lactide copolymers with atactic poly(3-hydroxybutyrate), *Macromolecules*, 35, 8472-77, 2002.
- Li, Q., Zaiser, M. and Koutsos, V., Carbon nanotube/epoxy resin composites using a block copolymer as a dispersing agent, *Phys. Stat. Sol. (a)*, 201, R89, 2004.
- Liggins, R. T. and Burt, H. M., Polyether-polyester diblock copolymers for the preparation of paclitaxel loaded polymeric micelle formulations, *Adv. Drug Deliv. Rev.*, 54, 191, 2002.

- Lin, W. J., Juang, L. W. and Lin, C. C., Stability and release performance of a series of pegylated copolymeric micelles, *Pharm. Res.*, 20, 668, 2003.
- Lin, Y., Zheng, Z. and Ding, J. Influence of LA and GA Sequence in the PLGA Block on the Properties of Thermogelling PLGA-PEG-PLGA Block Copolymers *Biomacromolecules*, 12, 1290–1297, 2011.
- Liu, M., Kono, K., Frechet and J. M. J., Water-soluble dendrimer-poly(ethylene glycol) star like conjugates as potential drug carriers, *J. Polym. Sci., Part A: Polym. Chem.* 37, 3492–3503, 1999.
- Liu, Y., Tu, W. and Cao, D., Synthesis of Gold nanoparticles coated with Polystyrene-block-poly(N-isopropylacrylamide) and their thermoresponsive ultraviolet-visible absorbance, *Ind. Eng. Chem. Res.*, 49, 2707-2715, 2010.
- Luo, L., Ranger, D. G., Lessard, Le Garrec, M. D., Gori, S., Leroux, J. C., Rimmer S. and Smith, D., Novel amphiphilic diblock copolymer of low molecular weight poly(N-vinylpyrrolidone)-block-poly(d,l-lactide): Synthesis, characterization, and micellization, *Macromolecules*, 37, 4008-13, 2004.
- Lutz, J. F. and Schlaad, H., Modular chemical tools for advanced macromolecular engineering, *Polymer*, 49, 817-824, 2008.
- Lutz, J. F., Borner, H. G. and Weichenhan, K., Combining atom transfer radical polymerization and click chemistry: A versatile method for the preparation of end-functional polymers, *Macromol. Rapid Commu.*, 26, 514-518, 2005.
- Ma, Z.; Haddadi, A.; Molavi, O.; Lavasanifar, A.; Lai, R.; Samuel, J., Micelles of poly(ethylene oxide)-b-poly(e-caprolactone) as vehicles for the solubilization, stabilization, and controlled delivery of curcumin *J. Biomed. Mater. Res., Part A*, 86, 300–310, 2008.
- Mahapatro, A. and Singh, D.K., Biodegradable nanoparticles are excellent vehicle for site directed *in-vivo* delivery of drugs and vaccines, *J. Nano biotechnology*, 55, 1-11, 2011.
- Manna, P. P., Hira, S. K., Das, A. A., Bandyopadhyay, S. and Gupta, K. K., IL-15 activated human peripheral blood dendritic cell kill allogeneic and xenogeneic endothelial cells via apoptosis, *Cytokine*, 61, 118-26, 2013.
- Maric, M. and Macosko, C. W., Block copolymer compatibilizers for polystyrene / poly(Dimethylsiloxane) blends, *J. Polym. Sci. Part B: Polym. Phys.*, 40, 346, 2002.
- Masaki, K., Kamini, N. R., Ikeda, H. and Iefuji, H., Cutinase-like enzyme from the yeast cryptococcus sp. strain s-2 hydrolyzes polylactic acid and other biodegradable plastics, *Applied and Environmental Microbiology*, 71, 7548-7550, 2005.

- Mathot, F., Van Beijsterveldt, L., Preat, V., Brewster, M. and Arien A., Intestinal uptake and biodistribution of novel polymeric micelles after oral administration, *J. Controlled Release*, 111, 47, 2006.
- Matyjaszewski, K., Xia, J. Atom transfer radical polymerization, *Chem. Rev.*, 101, 2921, 2001.
- Mayadunne, R. T. A., Rizzardo, E., Chiefari, J., Chong, Y. K., Moad, G. and Thang, S. H., Living radical polymerization with reversible addition-fragmentation chain transfer (RAFT polymerization) using dithiocarbamates as chain transfer agents, *Macromolecules*, 32, 6977, 1999.
- McLeary, J. B., Calitz, F. M., McKenzie, J. M., Tonge, M. P., Sanderson, R. D. and Klumperman B. A.,  $^1\text{H}$  NMR investigation of reversible addition fragmentation chain transfer polymerization: Kinetics and mechanisms. Initialization with different initiating and leaving groups, *Macromolecules*, 38, 3151–3161 2005.
- McMurrough, I., Colloidal stabilization of beer by treatment with polyvinylpolypyrrolidone (PVPP), *Cerevisiae*, 23, 27, 1998.
- Mecke, A., Dittrich, C. and Meier, W., Biomimetic membranes designed from amphiphilic block copolymers, *Soft Matter*, 2, 751, 2006.
- Middleton, J. C. and Tipton, A. J., Synthetic biodegradable polymers as orthopaedic devices, *Biomaterials*, 21, 2335–2346, 2000.
- Mishra, A.K., Patel, V.K., Vishwakarma, N. K., Biswas, C. S., Raula, M., Mishra, A., Mandal, T. K., and Ray, B., Synthesis of well-defined amphiphilic poly( $\epsilon$ -caprolactone)-*b*-poly-(*N*-vinylpyrrolidone) block copolymers via the combination of ROP and Xanthate-mediated RAFT polymerization, *Macromolecules*, 44, 2465–2473, 2011.
- Mishra, A.K., Ramesh, K., Paira, T.K., Mandal, T.K., Srivastava, D.N., Misra, N. and Ray, B., Synthesis and self-assembly properties of well-defined four-arm star poly( $\epsilon$ - caprolactone)-*b*-poly(*N*-vinylpyrrolidone) amphiphilic block copolymers, *Polym. Bull.*, 70, 3201–3220, 2013.
- Moad, G., Bicciocchi, E., Chen, M., Chiefari, J., Guerrero-Sanchez, C., Haeussler, M., Houshyar, S., Keddie, D., Rizzardo, E., Thang, S. H. and Tsanakisidis, J., Some “recent developments in RAFT Polymerization”, *Progress in Controlled Radical Polymerization: Mechanisms and Techniques*, Chapter 16, 243, 2012.
- Moad, G., Rizzardo, E. and Thang S. H., Towards living radical polymerization, *Acc. of Chem. Res.*, 41, 1133, 2008.
- Moghimi, S. M., Hunter, A.C. and Murray, J.C., Long-circulating and target-specific nanoparticles: Theory to practice, *Pharmacological Reviews*, 53, 283-318, 2001.

- Mohamed, F. and Van der Walle, C. F., Engineering biodegradable polyester particles with specific drug targeting and drug release properties, *J. Pharm. Sci.*, 97, 71–87, 2008.
- Muthukumar, M., Ober, C. K. and Thomas, E. I., Competing interactions and levels of ordering in self-organizing polymeric materials, *Science*, 277, 1225, 1997.
- Najafi, F. and Sarbolouki, M. N., Biodegradable micelles/polymersomes from fumaric/sebacic acids and poly(ethylene glycol), *Biomaterials*, 24, 1175, 2003.
- Nam, Y- S., Kang, H- S., Park, J-Y., Park, T-G., Han, S. H. and Chang, I. S., New micelle-like polymer aggregates made from PEI-PLGA diblock copolymers: micellar characteristics and cellular uptake, *Biomaterials*, 24, 2053–2059, 2003.
- Nardin, C., Hirt, T., Leukel, J. and Meier W., Polymerized ABA triblock copolymer vesicles, *Langmuir*, 16, 1035, 2000.
- Nardin, C., Widmer, J., Winterhalter, M. and Meier, W., Amphiphilic block copolymer nanocontainers as bioreactors, *Eur. Phys. J. E*, 4, 403, 2001.
- Nese, A., Li, Y., Averick, S., Kwak, Y., Konkolewicz, D., Sheiko, S. S. and Matyjaszewski, K., Synthesis of amphiphilic poly(N-vinylpyrrolidone)-b-poly(vinyl acetate) molecular bottle brushes, *ACS Macro Lett.*, 1, 227-231, 2012.
- Ni, C., Wu, G., Zhu, C. and Yao, B., The Preparation and characterization of amphiphilic star block copolymer nano micelles using silsesquioxane as the core. *J Phys. Chem. C*, 114, 13471–13476, 2010.
- Nishiyama, N., Kato, Y., Sugiyama, Y. and Kataoka, K., Cisplatin-loaded polymer-metal complex micelle with time-modulated decaying property as a novel drug delivery system, *Pharm. Res.*, 18, 1035, 2001.
- Nishiyama, N., Okazaki, S., Cabral, H., Miyamoto, M., Kato, Y., Sugiyama, Y., Nishio, K., Matsumura, Y. and Kataoka, K., Novel cisplatin-incorporated polymeric micelles can eradicate solid tumors in mice, *Cancer Res.*, 63, 8977, 2003.
- Ohnoshi, T., Ohnuma, T., Takahashi, I., Scanlon, K., Kamen, B. A. and Holland, J. F., Establishment of Methotrexate-resistant human acute lymphoblastic leukemia cells in culture and effects of folate antagonists, *Cancer Research*, 42, 1655-1660, 1982.
- Okada, M., Chemical synthesis of biodegradable polymers. *Prog. Polym. Sci.*, 27, 87-133, 2002.
- Ouchi, M., Terashima, T. and Sawamoto, M., Transition metal-catalyzed living radical polymerization: Towards perfection in catalysis and precision polymer synthesis, *Chem. Rev.*, 109, 4963, 2009.

- Paira, T. K., Banerjee, S., Raula, M., Kotal, A., Si, S. and Mandal, T. K., Peptide-polymer bioconjugates via atom transfer radical polymerization and their solution aggregation into hybrid micro/nanospheres for dye uptake, *Macromolecules*, 43, 4050–4061, 2010.
- Patel, V.K. Controlled synthesis and characterization of poly(*N*-vinylpyrrolidone) and poly(vinyl acetate) Ph.D. thesis, Banaras Hindu University, 2013.
- Perelstein, O. E., Ivanov, V. A., Moller, M. and Potemkin, II, Designed AB copolymers as efficient stabilizers of colloidal particles, *Macromolecules*, 43, 5442-5449, 2010.
- Pound, G., Eksteen, Z., Pfukwa, R., McKenzie, J. M., Lange, R. F. M. and Klumperman, B., Unexpected reactions associated with the xanthate-mediated polymerization of N-vinylpyrrolidone, *J. Poly. Sci. Part A: Poly. Chem.*, 46, 6575-6593, 2008.
- Prabaharan, M., Grailer, J- J., Pilla, S., Steeber, D-A. and Gong, S., Folate-conjugated amphiphilic hyperbranched block copolymers based on Boltorn poly(L-lactide) and poly(ethylene glycol) for tumor targeted drug delivery *Biomaterials*, 30, 3009–3019, 2009.
- Pyun, J., Kowalewski, T. and Matyjaszewski, K., Synthesis of Polymer Brushes Using Atom Transfer Radical Polymerization *Macromolecular Rapid Communications*, 24, 1043-1059, 2003.
- Qian, H, Wohl, A-R, Crow, J- T, Macosko, C- W, Hoye, T- R, A Strategy for Control of Random Copolymerization of Lactide and Glycolide: Application to Synthesis of PEG-b-PLGA Block Polymers Having Narrow Dispersity, *Macromolecules* 44, 7132–7140, 2011.
- Ramesh, K., Mishra, A.K., Patel, V.K., Vishwakarma, N.K., Biswas C.S., Paira, T.K., Mandal, T.K., Maiti, P., Misra, N. and Ray, B., Synthesis of well-defined amphiphilic poly(D,L-lactide)-b-poly( *N*-vinylpyrrolidone) block copolymers using ROP and xanthate-mediated RAFT polymerization Polymer, *Polymer*, 2012, 53, 5743-53.
- Rapoport, N., Combined Cancer Therapy by Micellar-Encapsulated Drug and Ultrasound, *Int. J. Pharm.*, 277, 155, 2004.
- Rasal, R. M. and Hirt, D. E., Micropatterning of covalently attached biotin on poly(lactic acid) film surfaces, *Macromol. Biosci.*, 9, 989-996, 2009.
- Rasal, R. M., Janorkar, A. V. and Hirt, D. E., Poly(lactic acid) modifications, *Prog. Poly. Sci.*, 35, 338-356, 2010.

- Ravenelle, F., Gori, S., Le Garrec, D., Lessard, D., Luo, L., Palusova, D., Sneyd, J. R. and Smith, D., Novel lipid and preservative-free propofol formulation: properties and pharmacodynamics, *Pharm Res.*, 25, 313-319, 2008.
- Ray, B., Isobe, Y., Matsumoto, K., Habaue, S., Okamoto, Y., Kamigaito, M. and Sawamoto, M. RAFT Polymerization of *N*-Isopropylacrylamide in the Absence and Presence of Y(OTf)3: Simultaneous Control of Molecular Weight and Tacticity, *Macromolecules*, 37, 1702-1710, 2004.
- Ray, B., Isobe, Y., Morioka, K., Habaue, S., Okamoto, Y., Kamigaito, M. and Sawamoto, M., Synthesis of Isotactic Poly(*N*-isopropylacrylamide) by RAFT Polymerization in the Presence of Lewis Acid, *Macromolecules*, 36, 543-554, 2003.
- Ray, B., Okamoto, Y., Kamigaito, M., Sawamoto, M., Seno, K., Kanaoka, S. and Aoshima, S., Effect of Tacticity of Poly(*N*-isopropylacrylamide) on the Phase Separation Temperature of Its Aqueous Solutions, *Polym. J.*, 37, 234-237, 2005.
- Ray, S. S. and Okamoto, M., biodegradable polylactide and its nanocomposites: Opening a new dimension for plastics and composites, *Macromol. Rapid Commu.*, 24, 815-840, 2003.
- Riis, T., Bauer-Brandl, A., Wagner, T. and Kranz, H., pH-independent drug release of an extremely poorly soluble weakly acidic drug from multiparticulate extended release formulations, *Eur. J. Pharm. Biopharm.*, 65, 78, 2007.
- Rijcken, C. J. F., Soga, O., Hennink, W. E. and Van Nostrum, C. F., Triggered destabilisation of polymeric micelles and vesicles by changing polymers polarity: An attractive tool for drug delivery, *J. Controlled Release*, 120, 131, 2007.
- Rosen, B. M., Wilson, C. J., Wilson, D. A., Peterca, M., Imam, M. R. and Percec, V., Dendron-mediated self-assembly, disassembly, and self-organization of complex systems, *Chem. Rev.*, 109, 6275–6540, 2009.
- Rösler, A., Vandermeulen, G. W. M. and Klok, H. A., Advanced drug delivery devices via self-assembly of amphiphilic block copolymers, *Adv. Drug Deliv. Rev.*, 53, 95, 2001.
- Rostovtsev, V. V., Green, L. G., Fokin, V. V. and Sharpless, K. B., A stepwise Huisgen cycloaddition process: copper (I)-catalyzed regioselective ligation of azides and terminal alkynes, *Angew. Chemie. Inter. Ed.* 41, 2596, 2002.
- Sakai, T. and Alexandridis, P., Mechanism of gold metal ion reduction, nanoparticle growth and size control in aqueous amphiphilic block copolymer solutions at ambient conditions, *J. Phys. Chem. B*, 109, 7766-7777, 2005.
- Sakai, T. and Alexandridis, P., Single-step synthesis and stabilization of metal nanoparticles in aqueous pluronic block copolymer solutions at ambient temperature, *Langmuir*, 20, 8426-8430, 2004.

- Sant, V. P., Smith D. and Leroux, J. C., Enhancement of oral bioavailability of poorly-water soluble drugs by pH-sensitive self-assemblies, *J. Controlled Release*, 104, 289, 2005.
- Sawyer, D. J., Bioprocessing- No longer a field of dreams, *Macromol. Symp.*, 201, 271-281, 2003.
- Schilli, C., Lanzendoerfer, M. and Mueller, A. H. E., benzyl and cumyl dithiocarbamates as chain transfer agents in the RAFT polymerization of *N*-Isopropylacrylamide. In situ FT-NIR and MALDI-TOF MS investigation, *Macromolecules*, 35, 6819, 2002.
- Schwarz, W., PVP: Critical Review of the Kinetics and Toxicology of Polyvinylpyrrolidone (Povidone), CRC Press, 1990.
- Semsarilar, M. and Perrier, S., Green reversible addition-fragmentation chain-transfer (RAFT) polymerization, *Nature chemistry*, 2, 811-820, 2010.
- Service, R. F., Dendrimers: dream molecules approach real applications. *Science*, 267, 458–459, 1995.
- Sheng, Y. J., Nung, C. H. and Tsao, H. K., Morphologies of star-block copolymers in dilute solutions. *J. Phys. Chem. B.*, 110, 21643–21650, 2006.
- Sheng, Y. J., Wang, T. Y., Chen, W. M. and Tsao, H. K., A-B diblock copolymer micelles: effects of soluble-block length and component compatibility, *J. Phys. Chem. B*, 111, 10938, 2007.
- Shin, W. J., Basarir, F., Yoon, T. H., and Lee, J. S., Au-coated 3-d nanoporous titania layer prepared using polystyrene-*b*-poly(2-vinylpyridine) block copolymer nanoparticles, *Langmuir*, 25, 3344-3348, 2009.
- Shuai, X., Merdan, T., Schaper, A. K., Xi, F. and Kissel, T., Core-cross-linked polymeric micelles as paclitaxel carriers, *Bioconjug. Chem.*, 15, 441, 2004.
- Signori, F., Chiellini, F. and Solaro, R., New self-assembling biocompatible biodegradable amphiphilic block copolymers, *Polymer*, 46, 9642-9652, 2005.
- Simone, E. A., Dziubla, T. D., Colon-Gonzalez, F.; Discher, D. E. and Muzykantov, V. R., effect of polymer amphiphilicity on loading of a therapeutic enzyme into protective filamentous and spherical polymer Nanocarriers, *Biomacromolecules*, 8, 3914–3921, 2007.
- Sodergard, A. and Stolt, M. Properties of lactic acid based polymers and their correlation with composition, *Prog. Polym. Sci.*, 27, 1123-1163, 2002.
- Solomon, D. H., Rizzardo, E. and Cacioli, P., Free radical polymerization and the produced polymer, *Eur. Pat. Appl.*, 135, 280, 1985.

- Soo, P. L. and Eisenberg, A., Preparation of block copolymer vesicles in solution, *J. Polym. Sci. B: Polym. Phys.*, 42, 923, 2004.
- Soppimath, K. S., Aminabhavi T.M., Kulkarni A.R. and Rudzinski W.E., Biodegradable polymeric nanoparticles as drug delivery devices, *J. Controlled Release*. 70, 1-20, 2001.
- Spatz, J. P., Roescher, A. and Moller, M., Gold nanoparticles in micellar poly(styrene)-*b*-poly(ethylene oxide) films-size and interparticle distance control in mono particulate films, *Adv. Mater.*, 8, 337-340, 1996.
- Stenzel-Rosenbaum, M. H., Davis, T. P., Fane, A. G. and Chen, V., Porous polymer films and honeycomb structures made by the self-organization of well-defined macromolecular structures created by living radical polymerization techniques, *Angew. Chem. Int. Ed.*, 40, 3428-3432, 2001.
- Štěpánek, P., In Dynamic Light Scattering The Method and some Applications; Brown, W. Ed., Clarendon: Boston, 177-241, 1993.
- Storm, G., Belliot, S., Daemenb, T. and Lasic, D. D., Surface modification of nanoparticles to oppose uptake by the mononuclear phagocyte system, *Adv. Drug Deliv. Reviews*, 17, 31-48, 1995.
- Sun, H., Guo, B., Li, X., Cheng, R., Meng, F. and Liu, H. et al., Shell-shedding micelles based on dextran-ss-poly( $\epsilon$ -caprolactone) diblock copolymer for efficient intracellular release of doxorubicin, *Biomacromolecules*, 11, 848-54, 2010.
- Surolia, R., Pachauri, M. and Ghosh P.C., Preparation and characterization of monensin loaded PLGA nanoparticles: *in vitro* anti-malarial activity against plasmodium falciparum. *J. Biomedical Nanotechnology* 8, 1–10, 2012.
- Tao, Y., Liu, R., Chen, M., Yang, C. and Liu, X., Cross-linked micelles of graft like block copolymer bearing biodegradable 3-caprolactone branches: a novel delivery carrier for paclitaxel *J. Mater. Chem.*, 22, 373-380, 2012.
- Thomas, E. L. The ABCs of Self-Assembly, *Science*, 286, 1307, 1999.
- Thomas, T. P., Majoros, I. J., Kotlyar, A., Kukowska-Latallo, J. F., Bielinska, A., Myc, A. and Baker, J. R., Targeting and inhibition of cell growth by an engineered dendritic nanodevice, *J. Med. Chem.*, 48, 3729-3735, 2005.
- Tong, Z, Zeng, F, Zheng, X and Sato, T, Inverse Molecular Weight Dependence of Cloud Points for Aqueous Poly(*N*-isopropylacrylamide) Solutions, *Macromolecules*, 32, 4488-4490, 1999.
- Torchilin, V. P., Structure and design of polymeric surfactant-based drug delivery systems, *J. Controlled Release*, 73, 137, 2001.

- Torchilin, V., Tumor delivery of macromolecular drugs based on the EPR effect, *Adv. Drug Delivery Rev.*, 63, 131-5, 2011.
- Tornoe, C. W., Christensen, C. and Meldal, M., Peptidotriazoles on solid phase: [1,2,3]-triazoles by regiospecific copper(I)-catalyzed 1,3-dipolar cycloadditions of terminal alkynes to azides, *Journal of Organic Chemistry*, 67, 3057-3064, 2002.
- Tsarevsky, N. V., Sumerlin, B. S. and Matyjaszewski, K., Step-growth “click” coupling of telechelic polymers prepared by atom transfer radical polymerization, *Macromolecules*, 38, 3558-3561, 2005.
- Van Natta, F. J., Hill, J. W. and Carothers, W. H., Studies of polymerization and ring formation. xxiii.  $\epsilon$ -caprolactone and its polymers, *J. Am. Chem. Soc.*, 56, 455-457, 1934.
- Vasilieva, Y. A., Thomas, D. B., Hennaux, P. E., and McCormick, C. L. Controlled polymerization of neutral and cationic methacrylamides in aqueous media by RAFT, *Polym. Prepr.*, 45, 299, 2004.
- Vink, E. T. H., Rabago, K. R., Glassner, D. A. and Gruber, P. R., Applications of life cycle assessment to Nature Works polylactide (PLA) production. *Polym. Degr. Stab.* 80, 403-419, 2003.
- Vishwakarma, N.K., Patel, V.K., Hira, S.K., Ramesh, K., Srivastava, P., Mitra, K., Singh, S., Chattopadhyay, D., Maiti, P., Misra, N., Manna, P.P. and Ray B., Tadpole-shaped  $\beta$ -cyclodextrin-tagged poly(*N*-vinylpyrrolidone): synthesis, characterization and studies of its complexation with phenolphthalein and anti tumor activities, *RSC Advances* 5, 15547–15558, 2015.
- Vogel, F. G. M., *Soap Cosmetics Chemical Specialities*, 65, 42, 1989.
- Wan, D., Satoh, K., Kamigaito, M. and Okamoto, Y., Xanthate-mediated radical polymerization of *N*-vinylpyrrolidone in fluoro alcohols for simultaneous control of molecular weight and tacticity, *Macromolecules*, 38, 10397-10405, 2005.
- Wang, F., Bronich, T. K., Kabanov, A. V., Rauh, R. D. and Roovers, J., Synthesis and characterization of star poly ( $\epsilon$ -caprolactone)-*b*-poly(ethylene glycol) and poly (l-lactide)-*b*-poly (ethylene glycol) copolymers: evaluation as drug delivery carriers. *Bioconjugate Chem.*, 19, 1423–1429, 2008.
- Wang, F., Bronich, T. K., Kabanov, A. V., Rauh, R. D. and Roovers, J. Synthesis and evaluation of a star amphiphilic block copolymer from poly( $\epsilon$ -caprolactone) and poly(ethylene glycol) as a potential drug delivery carrier. *Bioconjugate chem.*, 16, 397–405, 2005,
- Wang, X. S., Lascelles, S. F., Jackson, R. A. and Armes, S. P. Facile synthesis of well-defined water-soluble polymers via atom transfer radical polymerization in aqueous media at ambient temperature, *Chem. Comm.*, 1817-1818, 1999.

- Wang, X. S., Jackson, R. A. and Armes, S. P. Facile Synthesis of Acidic Copolymers via Atom Transfer Radical Polymerization in Aqueous Media at Ambient Temperature, *Macromolecules*, 33, 255-257, 2000.
- Wang, X., Qiu, X. and Wu, C., Comparison of the coil-to-globule and the globule-to-coil transitions of a single poly(*N*-isopropylacrylamide) homopolymer chain in water, *Macromolecules*, 31, 2972, 1998.
- Webster, O.W., Hertler, W. R., Sogah, D. Y., Farnham, W. B. and Rajan Babu, T. V., Group transfer polymerization-addition polymerization with organosilicon initiators, *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)*, 24, 52-60, 1983.
- Webster, O.W., The discovery and commercialization of group transfer polymerization, *J. Polym. Sci., Part A: Polym. Chem.*, 38, 2855-2860, 2000.
- Wei, H., Zhang, X. Z., Chen, W. Q., Cheng, S. X. and Zhuo, R. X., Self-assembled thermosensitive micelles based on poly(L-lactide-star block-*N*-isopropylacrylamide) for drug delivery, *J. Biomed. Mater. Res. Part A*, 83A, 980-989, 2007.
- Wei, K., Peng, X., Zou, F., Folate-decorated PEG-PLGA nanoparticles with silica shells for capecitabine controlled and targeted delivery, *Inter. J. Pharmaceutics*, 2014.
- Xiong, L., Jiang H. and Wang, D., Synthesis, characterization and degradation of poly(dl-lactide)-block-polyvinylpyrrolidone-block-poly(dl-lactide) copolymers, *J. Polym. Res.*, 16, 191-7, 2009.
- Yamago, S., Kayahara, E., Kotani, M., Ray B., Kwak Y., Goto A., Fukuda T. Highly Controlled Living Radical Polymerization through Dual Activation of Organobismuthines, *Angew Chem Intl Ed.*, 46, 1304-1306, 2007
- Yamago, S., Precision polymer synthesis by degenerative transfer controlled/living radical polymerization using organotellurium, organostibine, and organo bismuthine chain-transfer agents, *Chem. Rev.*, 109, 5051-5068, 2009.
- Yamago, S.; Ray, B.; Iida, K.; Yoshida, JI.; Tada, T.; Yoshizawa, K.; Kwak, Y.; Goto A, Fukuda, T. *J Am Chem. Soc.*, 126, 13908-13909, 2004.
- Yan, Y., Such, G.K., Johnston, A.P.R., Best, J.P., and Caruso, F, Engineering Particles for Therapeutic Delivery: Prospects and Challenges, *ACS Nano*, 6, 3663–3669, 2012.
- Yokoyama, M., Kwon, G. S., Okano, T., Sakurai, Y., Seto, T. and Kataoka, K., Preparation of micelle-forming polymer-drug conjugates, *Bioconjug. Chem.*, 3, 295, 1992.

- Yusa, S. I., Yamago, S., Sugahara, M., Morikawa, S., Yamamoto, T. and Morishima, Y., Thermo-responsive diblock copolymers of poly(n-isopropylacrylamide) and poly(*N*-vinyl-2-pyrroridone) synthesized via organotellurium-mediated controlled radical polymerization (TERP), *Macromolecules*, 40, 5907-5915.2007.
- Zard, S. Z., On the trail of xanthates: Some new chemistry from an old functional group, *Angew Chem, Int. Ed.*, 36, 672-685, 1997.
- Zhang, K, Tang, X., Zhang, J, Lu, W, Lin, X, Zhang, Y, Tian, B, Yang, H. and He, H., PEG-PLGA copolymers: Their structure and structure-influenced drug delivery applications *J. Controlled Release*, 183, 77–86, 2014.
- Zhang, L. and Eisenberg, A., Multiple Morphologies and Characteristics of “Crew-Cut Micelle-like Aggregates of Polystyrene-*b*-poly(acrylic acid) Diblock Copolymers in Aqueous Solutions *J. Am. Chem. Soc.*, 118, 3168–3181, 1996.
- Zhang, Y., Jin, T. and Zhuo, R. X., Methotrexate-loaded biodegradable polymeric micelles: Preparation, physicochemical properties and in vitro drug release, *Colloids and Surfaces B: Biointerfaces*, 44, 104-109, 2005.
- Zhang, Z. P. and Feng, S. S., The drug encapsulation efficiency, in vitro drug release, cellular uptake and cytotoxicity of paclitaxel-loaded poly(lactide)-tocopheryl polyethylene glycol succinate nanoparticles, *Biomaterials*, 27, 4025-4033, 2006.
- Zhou, Q. H., Lin, J., Li, L. D. and Shang, L., Biodegradable micelles self-assembled from miktoarm star block copolymers for MTX delivery. *Colloid. Poly. Sci. DOI* 10.1007/s00396-015-3610-z, 2015.