

Curriculum Vitae

CHUANBING TANG

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Education

June 2006-July 2009 Postdoctoral Scholar, University of California Santa Barbara
Advisors – Profs. Craig J. Hawker and Edward J. Kramer
Aug 2001-June 2006 M.S. and Ph.D. Chemistry, Carnegie Mellon University
Advisors – Profs. Krzysztof Matyjaszewski & Tomasz Kowalewski
Sep 1993-July 1997 B.S. Polymer Science and Engineering, Nanjing University

Professional Experience

Sept 2023- Director, NSF Center for Polymers for a Circular Economy (PCE)
Aug 2023- Director and Endowed Chair, SmartState Center for Polymer
Nanocomposites/Polymers, University of South Carolina
Aug 2023- Carolina Distinguished Professor, University of South Carolina
Aug 2022-July 2023 Fred M. Weissman Palmetto Chair, University of South Carolina
Aug 2021- University Eminent Professor (the inaugural), University of South
Carolina
May 2018- Professor (Affiliated), Biomedical Engineering Program, University
of South Carolina
Jan 2017- Professor, Department of Chemistry & Biochemistry, University of
South Carolina
Aug 2014-Aug 2020 College of Arts and Sciences Distinguished Professor, Department of
Chemistry & Biochemistry, University of South Carolina
Aug 2014-Dec 2016 Associate Professor with Tenure, Department of Chemistry and
Biochemistry, University of South Carolina
Aug 2009-July 2014 Assistant Professor, Department of Chemistry and Biochemistry,
University of South Carolina
Aug 2000-May 2001 Research Assistant, Illinois Institute of Technology
Aug 1997-July 2000 Assistant Scientist, Chinese Academy of Forestry

Awards and Honor

- NSF Centers for Chemical Innovation Phase I Award, Principal Investigator (2023)
- Outreach Volunteer of the Year Award for the South Carolina Section, ACS (2023)
- Special Creativity Award, National Science Foundation (2022)
- Standing Member, BMBI Study Section, National Institutes of Health (2021-2023)
- President's Coin of Excellence, University of South Carolina (2021)
- Fellow, American Institute for Medical and Biological Engineering (AIMBE) (2021)
- Polymer Chemistry Pioneering Investigator, Royal Society of Chemistry (2021)
- Fellow, American Association for the Advancement of Science (AAAS) (2020)
- Russell Research Award for the Science, Mathematics, and Engineering, University of South Carolina (2020)
- Fellow, Polymer Chemistry Division, American Chemical Society (2018)

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- Outreach Volunteer of the Year Award for the South Carolina Section, ACS (2018)
- Kavli Fellow, National Academy of Sciences (2018)
- Fellow, the Royal Society of Chemistry (FRSC) (2017)
- Chinese Association of Biomaterials Young Investigator Award (2017)
- Presidential Early Career Award for Scientists and Engineers (PECASE) (2017)
- SC Governor's Young Scientist Award for Excellence in Scientific Research (2016)
- Ada B. Thomas Outstanding Faculty Advisor Award Finalist (2015)
- Distinguished Undergraduate Research Mentor Award, University of South Carolina (2015)
- ACS Polymeric Materials Science & Engineering (PMSE) Young Investigator (2014)
- NIH CAM Pilot Project Award (2013)
- USC Breakthrough Rising Star (2013)
- NSF Career Award (2013-2018)
- Thieme Chemistry Journal Award (2013)
- ACS Leadership Development Award Alternate (2013)
- Emerging Investigator, "*Chemical Communications*" (2013)
- ACS PRF Doctoral New Investigator Award (2012)
- Polymer Science: The Next Generation, "*Macromol. Rapid Commun.*" (2012)
- USC Magellan Scholar Award (Undergraduate Research, 2010, 2011, 2013, 2014, 2016, 2017, 2018, 2019, 2021, 2022, 2023)

Teaching Experience

Lecture Courses

CHEM 739: Advanced Polymer Chemistry CHEM 333: Organic Chemistry I
CHEM 633: Introduction to Polymer Chemistry CHEM 334: Organic Chemistry II

Research Courses

CHEM 496: Undergraduate Research CHEM 790: Introduction to Research
CHEM 791: Introduction to Research CHEM 898: Research in Chemistry II
CHEM 899: Dissertation Preparation

Research Interest

Organic polymer synthesis; sustainable polymers (bioplastics and membranes); antimicrobial biomaterials; metallopolymers.

Editors, Editorial Boards, and Professional Services

- *Senior Editor*: Progress in Polymer Science (IF=27.1, Elsevier, 03/2022-present)
- *Editor*: Polymer (Elsevier, 04/2019-03/2022)
- *Associate Editor*: Polymer Reviews (Taylor & Francis, 01/2018-03/2019)
- *Editorial Boards*: Giant (Elsevier, 2020- present), Science China Chemistry (2023-present), Acta Polymerica Sinica (2020- present), Macromolecules, ACS Macro Letters (2016-2019); Polymer (2016-2019; 2022-Present), Macromolecular Rapid Communications (2015-present), Macromolecular Chemistry and Physics (2015-present), Green Materials (2015-2022)
- ACS Division of Polymer Chemistry Awards Committee, Vice Chair (2024-Present)
- ACS Society Committee on Education (2023-Present)
- ACS Committee on Project Seed (2012-2021)

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- Advocate, the Society for Science & the Public (2018)
- NSF ASCEND Mentor Network, Mentoring
- Nominator for MacArthur Foundation, Kyoto Prize, Kavli Prize, Norwegian Academy of Science and Letters
- Review Panelist for NSF, NIH, DOE, DOD, USDA and ACS
- Reviewer for > 60 scientific journals, book publishers (Wiley, Pearson, CRC, ACS, etc.) and funding agencies (NSF, NIH, DOE, DOD, ACS, PRF, Singapore Agency for Science, Technology & Research, Portuguese FCT, etc.)
- ACS and IUPAC Symposium Organizers and Chairs
 - (1) Co-organizer (with Jinwen Zhang, Linshu Liu), ACS National Meeting – Division of Agricultural and Food Chemistry and Division of Polymeric Materials: Science and Engineering: “Renewable Polymeric Materials: from Preparation, Application to Disposal”, San Francisco, CA (August 2023).
 - (2) Organizer (with Hoyong Chung), ACS National Meeting – Division of Polymer Chemistry: “Advances in Lignin: Chemicals, Polymers & Materials”, Washington, DC (August 2017)
 - (3) Organizer, “New Chemistry toward Functional Polymeric Materials”, the 68th Southeastern Regional Meeting of the American Chemical Society, Columbia, SC (October 2016)
 - (4) Organizer (with Marc Hillmyer), “Environment: Sustainable Resources and Renewable Resources”, the 14th Pacific Polymer Conference, Kauai, Hawaii (December 2015)
 - (5) Organizer, “Advanced Energy Materials and Processing”, 31st International Conference of the Polymer Processing Society, Jeju Island, Korea (June 7-11, 2015)
 - (6) Co-Organizer (with Megan Robertson), “Physics of Polymers Derived from Sustainable Resources”, American Physical Society Meeting, San Antonio, TX (March 2015)
 - (7) Session Chair, 2nd International Symposium on Polymer Ecomaterials (PEM2014), Kunming, China (August 2014)
 - (8) Session Chair, International Symposium on Polymer Chemistry, Shanghai, China (June 2014)
 - (9) Session Chair, 3rd Grubbs Symposium on Polymers and Green Industry, Ningbo, China (April 2014)
 - (10) International Scientific Committee, 3rd Grubbs Symposium on Polymers and Green Industry, Ningbo, China (April 2014)
 - (11) Committee on Project Seed, American Chemical Society (2012-2015)
 - (12) Session Chair, Symposium on “Symposium: Recent Developments in Synthesis II”, IUPAC World Polymer Congress, Virginia Tech, Blacksburg (June 2012)
 - (13) Organizer (with Marc Hillmyer and Geoff Coates), ACS Symposium – Division of Polymeric Materials: Science and Engineering: “Next-Generation Renewable Polymers”, San Diego (March 2012)
 - (14) Session Chair, the 12th Pacific Polymer Conference-Symposium on Advances in Polymer Synthesis and Characterization, Jeju, South Korea (November 2011)
 - (15) Organizer (with John Lavigne and Peter Iovine), ACS Symposium – Division of Polymer Chemistry: “from Molecules to Macromolecules: towards Self-Assembling Materials”, Boston (August 2010)

Curriculum Vitae

(16) International Scientific Committee, “International Conference on Chemical and Biological Utilization of Biomass Resources 2010”, Nanjing, China (October 2010)

Books and Book Chapters

- (1) “Sustainable Polymers from Biomass”, **Tang C.**; Ryu C. ed. Wiley-VCH, Weinheim, Germany, May 2017 (13 Chapters, 376 pages).
- (2) Ganewatta M.S.; **Tang C.***; Ryu C. Y. Introduction, in “*Sustainable Polymers from Biomass*”, Tang C. and Ryu C., Eds. Wiley-VCH, Weinheim, Germany, **2017**, Chapter 1, pp 1-10.
- (3) Yuan L.; Wang Z.; Trenor N. M.; **Tang C.*** Preparation and Applications of Polymers with Pendant Fatty Chains from Plant Oils, in “*Sustainable Polymers from Biomass*”, Tang C. and Ryu C., Eds. Wiley-VCH, Weinheim, Germany, **2017**, Chapter 8, pp 181-208.
- (4) Yan Y.; Zhang J.; **Tang C.*** Side-Chain Cobaltocenium-Containing Polymers: Controlled Polymerization and Applications, in *Controlled Radical Polymerization: Materials*, ACS Symposium Series. Matyjaszewski K. Ed. American Chemical Society: Washington, DC. **2015**, pp 15–27.
- (5) Wang J.; Yao K.; Wilbon P.; Wang P.; Chu F.; **Tang C.*** Rosin-Derived Polymers and Their Progress in Controlled Polymerization, in “*Rosin-based Chemicals and Polymers*” Zhang J., Ed. ISmithers. Shawbury, UK, **2012**, pp 85-127.
- (6) Kowalewski T.; **Tang C.**; Kruk M.; Dufour B.; Matyjaszewski K. Advances in Nanostructured Carbons from Block Copolymers Prepared by Controlled Radical Polymerization Techniques, in *Controlled/Living Radical Polymerization: From Synthesis to Materials*, ACS Symposium Series. Matyjaszewski K. Ed. American Chemical Society: Washington, DC. **2006**, 944, pp 295-310.
- (7) Korth, B.D.; Keng, P.; Shim. I.; **Tang, C.**; Kowalewski, T.; Pyun, J. Synthesis, Assembly and Functionalization of Polymer Coated Ferromagnetic Nanoparticles, in “*Nanoparticles: Synthesis, Stabilization, Passivation and Functionalization*, ACS Symposium Series. Nagarajan R. and Hatton T. A. Eds. American Chemical Society: Washington, DC. **2008**, 996, pp 272-285.

Peer-Reviewed Journal Publications

- (1) Barman S.; Kurnaz L. B.; Leighton R.; Hossain M. W.; **Decho A. W.*** **Tang C.*** Intrinsic Antimicrobial Resistance: Molecular Biomaterials to Combat Microbial Biofilms and Bacterial Persisters. *Biomaterials* (Review), **2024**, in revision.
- (2) Bension Y.; Zhang S.; Menninger T.; Ge T.;* **Tang C.*** Broad-Spectrum Lignin-based Adhesives Using Thiol-Silyl Ether Crosslinkers. *Polym. Chem.* **2024**, 15, 1726-1735.
- (3) Larison T.; Williams E. R.; Wright M.; Tengco J.; Boebinger M. G.; **Tang C.**; Morgan Stefik M. One-Pot Self-Assembly of Sequence-Controlled Mesoporous Heterostructures via Novel Structure Directing Agents. *ACS Nano*, submitted.
- (4) Zhang M.; Li X.; **Tang C.**; Stefik M.* Two Nanoparticle Populations Simultaneously Directed Using Triptych Triblock Terpolymers. *Mater. Horizon*. submitted.
- (5) Li X.; Mahadas N. A.; Zhang M.; DePodesta J.; Stefik M.; Tang C.* Sustainable High-Density Polyethylene via Chemical Recycling: from Modification to Polymerization Methods. *Polymer*, **2024**, 295, 126698 (2023 Frontiers Special Issue).

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- (6) Wickramasinghe S.; Hoehn A.; Wetthasinghe S. T.; Lin H.; Wang Q.; Jakowski J.; Rassolov V.; **Tang C.**; Garashchuk S.* Theoretical examination of the hydroxide transport in cobaltocenium-containing polyelectrolytes. *J. Phys. Chem. B* **2023**, 127, 10129–10141.
- (7) Barman S.; Kurnaz L. B.; Yang X.; Nagarkatti P.; Nagarkatti M.; Decho A. W.; **Tang C.*** Facially Amphiphilic Bile Acid Functionalized Antimicrobials: Combating Pathogenic Bacteria, Fungus, and their Biofilms. *ACS Infect. Dis.* **2023**, 9, 1769-1782.
- (8) Hwang J.; Barman S.; Gao R.; Yang X.; O'Malley A.; Nagarkatti P.; Nagarkatti M.; Chrusz M.; **Tang C.*** Membrane-Active Metallopolymers: Repurposing and Rehabilitating Antibiotics to Gram-negative Superbugs. *Adv. Healthcare Mater.* **2023**, 12, 2301764.
- (9) Lin H.; Ramos L. Hwang J.; Wetthasinghe S. T.; Zhu T.; Wang Q.; Garashchuk S.; **Tang C.*** Main-Chain Cobaltocenium-Containing Ionomers for Alkaline Anion-Exchange Membranes. *Macromolecules* **2023**, 56, 6375–6384.
- (10) Kurnaz L. B.; Barman S.; Yang X.; Fisher C.; Outten F. W.; Nagarkatti P.; Nagarkatti M.; **Tang C.*** Facial Amphiphilic Naphthoic Acid-Derived Antimicrobial Polymers Against Multi-Drug Resistant Gram-Negative Bacteria and Biofilms. *Biomaterials*, **2023**, 301, 122275.
- (11) Bension Y.; Kurnaz L. B.; Ge T.;* **Tang C.*** Mechanically Tunable and Reconstructable Lignin Thermosets via “Click” Chemistry and Surface Functionalization. *Macromolecules*, **2023**, 56, 2831–2840.
- (12) Kurnaz L. B.; Luo Y.; Yang X.; Alabresm A.; Leighton R.; Kumar R.; Hwang J.; Decho A. W.; Nagarkatti P.; Nagarkatti M.; **Tang C.*** Facial Amphiphilicity Index Correlating Chemical Structures with Antimicrobial Efficacy. *Bioact. Mater.* **2023**, 20, 519–527.
- (13) Wei X.; Wang X.; Zhang Z.; Luo Y.; Wang Z.; Xiong W.; Jain P.; Monnier J.; Wang H.; Hu T.; **Tang C.**; Albrecht H.; Liu C.* A Click Chemistry Amplified Nanopore (CAN) Assay for Ultrasensitive Quantification of HIV p24 Antigen in Clinical Samples. *Nat. Commun.* **2022**, 13, 6852.
- (14) Kurnaz L. B.; Bension Y.; **Tang C.*** Facile Catalyst-Free Approach toward Fully Biobased Reprocessable Lignin Thermosets. *Macromol. Chem. Phys.* **2022**, 2200303.
- (15) Hwang J.; Martinez D. V.; Martinez E. J.; Metavarayuth G.; Goodlett D.; Ganewatta M.;* Kent M. S.;* and **Tang C.*** Highly Swellable Hydrogels Prepared from Extensively Oxidized Lignin. *Giant*, **2022**, 10, 100106.
- (16) Hwang J.; Cha Y.; Ramos L.; Zhu T.; Kurnaz L. B.; **Tang C.*** Strong Antimicrobial Metallopolymer Double-Network Hydrogels via Dual Polymerization. *Chem. Mater.* **2022**, 34, 5663-5672.
- (17) Li H.; Yang P.; Hwang J.; Pageni P.; Decho A. W.; **Tang C.*** Antifouling and Antimicrobial Cobaltocenium-Containing Metallopolymer Double-Network Hydrogels. *Biomater. Transl.* **2022**, 3, 162-171.
- (18) Li C.; Wetthasinghe S. T.; Lin H.; Zhu T.; Tang C.; Rassolov V.; **Wang Q.**;* **Garashchuk S.*** Stability Analysis of Substituted Cobaltocenium [Bis(cyclopentadienyl)cobalt(III)] Employing Chemistry-Informed Neural Networks. *J. Chem. Theory Comput.* **2022**, 18, 3099-3110.

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- (19) Wetthasinghe S. T.; Li C.; Lin H.; Zhu T.; Tang C.; Rassolov V.; **Wang Q.;*** **Garashchuk S.*** Correlation between the Stability of Substituted Cobaltocenium and Molecular Descriptors, *J. Phys. Chem. A* **2022**, 126, 80-87.
- (20) Cha Y.; Hwang J.; Ramos L.; Lin H.; Zhu T.; **Tang C.*** Synthesis of Cationic Cobaltocenophane Monomers: Isomerization and Ring-Opening Metathesis Polymerization, *Polymer*, **2022**, 242, 124544.
- (21) Yang P.; Luo Y.; Kurnaz L.; Bam M.; Yang X.; Decho A. W.; Nagarkatti M.; **Tang C.*** Biodegradable Polycaprolactone Metallopolymer-Antibiotic Bioconjugates Containing Phenylboronic Acid and Cobaltocenium for Antimicrobial Applications. *Biomater. Sci.* **2021**, 9, 7237-7246.
- (22) Ganewatta M. S.; Wang Z.; **Tang C.*** Chemical Syntheses of Bioinspired Biomimetic Polymers toward Biobased Materials. *Nat. Rev. Chem.* **2021**, 5, 753-772.
- (23) Cha Y.; Zhu T.; Sha Y.; Lin H.; Hwang J.; Seraydarian M.; Craig S. L.; **Tang C.*** Mechanochemistry of Cationic Cobaltocenium Mechanophore. *J. Am. Chem. Soc.* **2021**, 143, 11871-11878.
- (24) Zhu T.; Lu Y.; Huang K.;* **Tang C.*** Metallopolymer as a Solid Electrolyte for Rechargeable Zn-Metal Alkaline Batteries. *ACS Mater. Lett.* **2021**, 3, 799-806.
- (25) Yuan L.; Kurnaz L.; **Tang C.*** Alternative Plastics. *Nat. Sustain.* **2021**, 4, 837-838.
- (26) Yuan L.;* **Tang C.*** Reactive Bonds for Closed-loop Chemical Processing of Polyethylene Mimics. *Chem* **2021**, 7, 847-848.
- (27) Zhang Y.; Wang Z.; Kouznetsova T. B.; Sha Y.; Xu E.; Shannahan L.; Fermen-Coker M.; **Tang C.;** Craig S. L.* Distal Conformational Locks on Ferrocene Mechanophores Guide Reaction Pathways for Increased Mechanochemical Reactivity. *Nat. Chem.* **2021**, 13, 56-62.
- (28) Wu M.; Yuan L.; Jiang F.; Zhang Y.; He Y.; You Y.; **Tang C.;*** Wang Z.* Strong Autonomic Self-Healing Biobased Polyamide Elastomers. *Chem. Mater.* **2020**, 32, 8325-8332.
- (29) Abd-El-Aziz A. S.; Antonietti M.; Barner-Kowollik C.; Binder W. H.; Böker A.; Boyer C.; Buchmeiser M. R.; Cheng S. Z. D.; D'Agosto F.; Floudas G.; Frey H.; Galli G.; Genzer J.; Hartmann L.;* Hoogenboom R.; Ishizone T.; Kaplan D. L.; Leclerc M.; Lendlein A.; Liu B.; Long T. E.; Ludwigs S.; Lutz J.-F.; Matyjaszewski K.; Meier M. A. R.;* Müllen K.; Müllner M.; Rieger B.; Russell T. P.; Savin D. A.; Schlüter A. D.; Schubert U. S.; Seiffert S.; Severing K.; Soares J. B. P.; Staffilani M.;* Sumerlin B. S.; Sun Y.; Tang B. Z.; **Tang C.;** Théato P.; Tirelli N.; Tsui O. K. C.; Unterlass M. M.; Vana P.; Voit B.; Vyazovkin S.; Weder C.; Wiesner U.; Wong W.- Y.; Wu C.; Yagci Y.; Yuan J.; Zhang G. The Next 100 Years of Polymer Science. *Macromol. Chem. Phys.* **2020**, 221, 2000216 (Editorial, 22 pages).
- (30) Zhu T.; **Tang C.*** Crosslinked Metallo-Polyelectrolytes with Enhanced Flexibility and Dimensional Stability for Anion-Exchange Membranes. *Polym. Chem.* **2020**, 11, 4542-4546. [the 2021 Polymer Chemistry Pioneering Investigators Issue.](#)
- (31) Zhang T.; Zhu T.; Dickerson S.; **Tang C.*;** Wiskur S. L.* Polymer Compositions on Kinetic Resolutions of Secondary Alcohols Using Polymer-Supported Silyl Chlorides. *Polym. Chem.* **2020**, 11, 5011-5018.
- (32) Nan J.; Zhang G.; Zhu T.; Ma Y.; Wang Z.; Wang L.; Wang H.; Chu F.; Wang C.;* **Tang C.*** A Highly Elastic and Fatigue-Resistant Natural Protein-Reinforced Hydrogel

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Electrolyte for Reversible-Compressible Solid-State Supercapacitors. *Adv. Sci.* **2020**, *7*, 2000587.

(33) Li J.; Wang Z.; Hua Z.;* **Tang C.*** Supramolecular Nucleobase-Functionalized Polymers: Synthesis and Potential Biological Applications. *J. Mater Chem. B* **2020**, *8*, 1576 - 1588.

(34) Zhu T.; Sha Y.; Adabi H.; Peng X.; Cha Y.; Smith M. D.; Dissanayake M. M.; Vannucci A. K.; Mustain W. E.; **Tang C.*** Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. *J. Am. Chem. Soc.* **2020**, *142*, 1083-1089.

(35) Rahman M. A.; Jui M. S.; Bam M.; Luat E.; Alabresm A.; Nagarkatti M.; Decho A. W.; **Tang C.*** Facial Amphiphilicity-Induced Polymer Nanostructures for Antimicrobial Applications. *ACS Appl. Mater. Interfaces*, **2020**, *12*, 21221-21230.

(36) Wang Z.; Ganewatta M.; **Tang C.*** Sustainable Polymers from Biomass: Bridging Chemistry with Materials and Processing. *Prog. Polym. Sci.* **2020**, *101*, 101197.

Celebrating the 100th Anniversary of Hermann Staudinger's 'Macromolecular Hypothesis'.

(37) Zhu T.; Zhang J.*; **Tang C.*** Metallo-Polyelectrolytes: Correlating Macromolecular Architectures with Properties and Applications. *Trends Chem.* **2020**, *2*, 227-240.

(38) Rahman M. A.; Cha Y.; Pageni P.; Zhu T.; Jui M. S.; **Tang C.*** Polymerization-Induced Self-assembly of Metallo-Polyelectrolyte Block Copolymers. *J. Polym. Sci. Polym. Chem.* **2020**, *58*, 77-83. Special Issue celebrating the 70th birthday of Krzysztof Matyjaszewski

(39) Sha Y.*; Zhu T.; Cha Y.; Hwang J.; **Tang C.*** Synthesis of Site-specific Charged Metallopolymers via Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. *Polymer*, **2020**, *187*, 122095.

(40) Rahman M. A.; Sha Y.; Jui M. S.; Lamm M. E.; Ma Y.; **Tang C.*** Facial Amphiphilicity-Induced Self-Assembly (FAISA) of Amphiphilic Copolymers. *Macromolecules*, **2019**, *52*, 9526-9535.

(41) Lamm M. E.; Song L.; Wang Z.; Rahman M. A.; Lamm B.; Fu L.; **Tang C.*** Tuning Mechanical Properties of Biobased Polymers by Supramolecular Chain Entanglement. *Macromolecules*, **2019**, *52*, 8967-8975.

(42) Lamm M. E.; Song L.; Wang Z.; Lamm B.; Fu L.; **Tang C.*** A Facile Approach to Thermomechanically Enhanced Biobased Fatty Acid-Containing Polymers through Metal-Ligand Coordination. *Polym. Chem.* **2019**, *10*, 6570-6579. **Inside Front Cover**

(43) Ganewatta M. S.*; Lokupitiya H. N.; **Tang C.*** Lignin Biopolymers in the Age of Controlled Polymerization. *Polymers*, **2019**, *11*, 1176.

(44) Sha Y.; Rahman M. A.; Zhu T.; Cha Y.; McAlister C. W.; **Tang C.*** ROMPI-CDSA: Ring-Opening Metathesis Polymerization Induced-Crystallization-Driven Self-Assembly of Metallo-Block Copolymers. *Chem. Sci.* **2019**, *10*, 9782-9787.

(45) Cha Y.; Jarrett-Wilkins C.; Rahman M. A.; Zhu T.; Sha Y.; Manners I.*; **Tang C.*** Crystallization-Driven Self-Assembly of Metallo-Polyelectrolyte Block Copolymers with a Polycaprolactone Core-Forming Segment. *ACS Macro Lett.* **2019**, *8*, 835-840.

(46) Sha Y.; Zhang Y.; Xu E.; McAlister C. W.; Zhu T.; Craig S. L.*; **Tang C.*** Generalizing Metallocene Mechanochemistry to Ruthenocene Mechanophores. *Chem. Sci.* **2019**, *10*, 4959-4965. **Outside Back Cover**

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- (47) Lamm M. E.; Li P.*; Hankinson S.; Zhu T.; **Tang C.*** Plant Oil-Derived Copolymers with Remarkable Post-Polymerization Induced Mechanical Enhancement for High Performance Coating Applications. *Polymer*, **2019**, 174, 170-177.
- (48) Song L.; Zhu T.; Yuan L.; Zhou J.; Zhang Y.; Wang Z.*; **Tang C.*** Ultra-strong Long-Chain Polyamide Elastomers with Programmable Supramolecular Interactions and Oriented Crystalline Microstructures. *Nat. Commun.* **2019**, 10, 1315.
- (49) Kopeć M.; Lamson M.; Yuan R.; **Tang C.**; Kruk M.; Matyjaszewski K.; Kowalewski T. Polyacrylonitrile-Derived Nanostructured Carbon Materials. *Prog. Polym. Sci.* **2019**, 92, 89-134.
- (50) Yang P.; Pageni P.; Bam M.; Zhu T.; Chen P.; Nagarkatti M.; Decho A. W.; **Tang C.*** Gold Nanoparticles with Antibiotic-Metallopolymers toward Broad-Spectrum Antibacterial Effect. *Adv. Healthcare Mater.* **2019**, 8, 1800854.
- (51) Yuan L.; Wang Z.; Wang Z.; Xu Y.; Han Y.; **Tang C.*** Plant Oil and Lignin-Derived Elastomers via Thermal Azide-Alkyne Cycloaddition Click Chemistry. *ACS Sustain. Chem. Eng.* **2019**, 7, 2593-2601.
- (52) Rahman M. A.; Bam M.; Luat E.; Jui M. S.; Shokfai T.; Nagarkatti M.; Decho A. W.; **Tang C.*** Macromolecular-Clustered Facial Amphiphilic Antimicrobials. *Nat. Commun.* **2018**, 9, 5231.
- (53) Sha Y.; Zhang Y.; Zhu T.; Zhang Y.; Tan S.; Craig S. L.*; **Tang C.*** Ring-Closing Metathesis and Ring-Opening Metathesis Polymerization Toward Main-Chain Ferrocene-Containing Polymers. *Macromolecules*, **2018**, 51, 9131-9139.
- (54) Sha Y.; Zhang Y.; Xu E.; Wang Z.; Zhu T.; Craig S. L.*; **Tang C.*** Quantitative and Mechanistic Mechanochemistry in Ferrocene Dissociation. *ACS Macro Lett.* **2018**, 7, 1174-1179.
- (55) Tan S.; Sha Y.; Zhu T.; Rahman M. A.; **Tang C.*** Photoresponsive Supramolecular Polymers Based on Quadruple Hydrogen-Bonding and a Photochromic Azobenzene Motif. *Polym. Chem.* **2018**, 9, 5395 - 5401.
- (56) Zhu T.; Sha Y.; Yan J.; Pageni P.; Rahman M. A.; Yan Y.; **Tang C.*** Metallo-Polyelectrolytes as A Class of Ionic Polymers for Functional Materials. *Nat. Commun.* **2018**, 9, 4329.
- (57) Pageni, P.; Yang P.; Bam M.; Zhu T.; Chen Y. P.; Decho A. W.; Nagarkatti M.; **Tang C.*** Recyclable Magnetic Nanoparticles Grafted with Antimicrobial Metallopolymer-Antibiotic Bioconjugates, *Biomaterials*, **2018**, 178, 363-372.
- (58) Lamm M. E.; Wang Z.; Zhou J.; Yuan L.; Zhang X.; **Tang C.*** Sustainable Epoxy Resins Derived from Plant Oils with Thermo- and Chemo-Responsive Shape Memory Behavior, *Polymer*, **2018**, 144, 121-127.
- (59) Ganewatta M. S.; Rahman M. A.; Mercado L.; Shokfai T.; Decho A. W.; Reineke T. M.; **Tang C.*** Facially amphiphilic polyionene biocidal polymers derived from lithocholic acid. *Bioact. Mater.* **2018**, 3, 186-193.
- (60) Qiao Y.; Yin X.; Zhu T.; Li H.; **Tang C.*** Dielectric Polymers with Novel Chemistry, Compositions and Architectures, *Prog. Polym. Sci.* **2018**, 80, 153-162.
- (61) Zhu T.; Xu S.; Rahman Md. A.; Dogdibegovic E.; Yang P.; Pageni P.; Kabir Md P.; Zhou X.; **Tang C.*** Cationic Metallo-Polyelectrolytes for Robust Alkaline Anion-Exchange Membranes. *Angew. Chem. Int. Ed.*, **2018**, 57, 2388-2392. **Inside Back Cover**

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- (62) Pageni, P.; Yang P.; Chen Y. P.; Huang Y.; Bam M.; Zhu T.; Nagarkatti M.; Benicewicz B. C.; Decho A. W.; **Tang C.*** Charged Metallopolymer-Grafted Silica Nanoparticles for Antimicrobial Applications. *Biomacromolecules* **2018**, 19, 417-425.
- (63) Booth W. T.; Schlachter C.; Pote S.; Ussin N.; Mank N. J.; Klapper V.; Offermann L. R.; **Tang C.**; Hurlburt B. K.; Chruszcz M.* The Impact of an N-terminal Poly-Histidine Tag on Protein Thermal Stability. *ACS Omega*, **2018**, 3, 760–768.
- (64) Xu S.; Lamm M. E.; Rahman M. A.; Zhang X.; Zhu T.; **Tang C.*** Renewable Atom-Efficient Polyesters and Thermosetting Resins Derived from High Oleic Soybean Oil. *Green Chem.* **2018**, 20, 1106-1113.
- (65) Yang P.; Bam M.; Pageni, P.; Zhu T.; Chen Y. P.; Nagarkatti M.; Decho A. W.; **Tang C.*** Trio Act of Boronolectin with Antibiotic-Metal Complexed Macromolecules toward Broad-Spectrum Antimicrobial Efficacy. *ACS Infect. Dis.* **2017**, 3, 845-853.
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