

Sheng, Yu-Jane (譚玉真)

Professor

B.S. in Chemical Engineering
National Taiwan University, 1986

M.S. in Chemical Engineering
National Taiwan University, 1988

Ph.D. in Chemical Engineering
Cornell University, 1995

Postdoctoral Research Associate
Department of Physics
National Central University

Research and Professional Interests

Molecular simulations of the
thermophysical properties of
polymers and composites
Development of statistical
mechanics-based equation of
state for polyatomic molecules
Studies of the dynamical properties
of polymers in dilute solutions
Topological effects on the
relaxation dynamics of
knotted polymers

Projects (started from 2013)

1. 高分子囊泡的形成條件、物理特性及融合機制之研究
102-2221-E-002 -217 -
NT\$ 951,000, 8/1/2013 – 7/31/2014
2. 碳基材料分子基礎物性模擬及解析
NT\$ 400,000, 4/1/2013 – 11/31/2013

Journal Papers

1. Hower, Jason C.; Bernards, Matthew T.; Chen, Shengfu; Tsao, Heng-Kwong; **Sheng, Yu-Jane**; Jiang, Shaoyi “Hydration of “Nonfouling” Functional Groups” *J. Phys. Chem. B*, 113, 197 (2009) (SCI, EI)
2. Wang, Tzu-Yu; Chang, Feng-Ming; **Sheng, Yu-Jane**; Tsao, Heng-Kwong “Osmotic pressure and virial coefficients of star and comb polymer solutions: Dissipative particle dynamics,” *J. Chem. Phys.* 130, 124904 (2009). (SCI, EI)
3. Lin, Chun-Min; Chen, Yo-Zen; **Sheng, Yu-Jane**; Tsao, Heng-Kwong “Effects of macromolecular architecture on the micellization behavior of complex block copolymers,” *React. Funct. Polym.* 69, 539 (2009). (SCI, EI)
4. Huang, Kuei-Chun; Lin, Chun-Min; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, “The interactions between surfactants and vesicles: Dissipative particle dynamics,” *J. Chem. Phys.* 130, 245101 (2009). (SCI, EI)
5. Chang, Feng-Ming; Hong, Siang-Jie; **Sheng, Yu-Jane**; Tsao, Heng-Kwong “High contact angle hysteresis of superhydrophobic surfaces: Hydrophobic defects,” *Appl. Phys. Lett.* 95, 064102 (2009). (SCI, EI)
6. Chen, Yu-Min; Lin, Hsiao-Chu; Hsu, Ru-Siou; Hsieh, Bi-Zen; Su, Yu-An; **Sheng, Yu-Jane**; Lin, Jiang-Jen, “Thermoresponsive Dual-Phase Transition and 3D Self-Assembly of Poly(N-Isopropylacrylamide) Tethered to Silicate Platelets,” *Chem.*

- Mater.* 21, 4071 (2009). (SCI,EI) (工合著)
7. Chang, Feng-Ming; **Sheng, Yu-Jane**; Tsao, Heng-Kwong “Superhydrophobic floatability of a hydrophilic object driven by edge effect,” *Appl. Phys. Lett.* 95, 204107 (2009). (SCI,EI)
 8. Wang, Tzu-Yu; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, “Donnan potential of dilute colloidal dispersions: Monte Carlo simulations,” *J. Colloid Interface Sci.* 340, 192 (2009). (SCI, EI)
 9. Yuan, Chia-Nan; Hong, Siang-Jie; **Sheng, Yu-Jane**; Tsao, Heng-Kwong “Non-Brownian Particle Gel,” *Appl. Phys. Lett.* 95, 234103 (2009). (SCI,EI)
 10. Chang, F. M.; Hong, S. J.; **Sheng, Yu-Jane**; Tsao, H. K. “Wetting invasion and retreat across a corner boundary,” *J. Phys. Chem. C* 114, 1615 (2010). (SCI,EI)
 11. Chang, F. M.; Cheng, S. L.; Hong, S. J.; **Sheng, Yu-Jane**; Tsao, H. K. “Superhydrophilicity to superhydrophobicity transition of CuO nanowire films,” *Appl. Phys. Lett.* 96, 114101 (2010). (SCI,EI)
 12. Hong, S. J.; Chang, F. M.; Chan, S. H.; **Sheng, Yu-Jane**; Tsao, H. K. “Wall free capillarity and pendant drop removal,” *J. Chem. Phys.* 132, 161104 (2010). (SCI,EI)
 13. Chou, T. H. ; Hong, S. J.; **Sheng, Yu-Jane**; Tsao, H. K. “Wetting behavior of a drop atop holes,” *J. Phys. Chem. B* 114, 7509 (2010). (SCI, EI)
 14. Lin, H. J.; Chen, H. Y.; **Sheng, Yu-Jane**; Tsao, H. K. “Free energy and critical force for adhesion clusters,” *Phys. Rev. E* 81, 061908 (2010). (SCI, EI)
 15. Chang, Wei-Hsuan; Chou, Shih-Hao; Lin, Jiang-Jen; Chen, Wen-Chang; **Sheng, Yu-Jane**, “Thin film morphologies of π -conjugated rod-coil block copolymers with thermoresponsive property: A combined experimental and molecular simulation study,” *J. Chem. Phys.* 132, 214901 (2010). (SCI, EI) (工合著)
 16. Chang, Feng-Ming; Chang, Yi-Wen; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, “Size-dependent electro-osmosis in a microchannel with low-permittivity, salt-free media,” *Appl. Phys. Lett.* 97, 164101 (2010). (SCI, EI)
 17. Chou, Shih-Hao; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, “Structural aggregates of rod-coil copolymer solutions,” *J. Chem. Phys.* 134, 034904 (2011). (SCI, EI)
 18. Lin, Yung-Lung; Chiou, Chi-Shiang; Kumar, Sanat K.; Lin, Jiang-Jen; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, “Self-Assembled Superstructures of Polymer-Grafted Nanoparticles: Effects of Particle Shape and Matrix Polymer,” *J. Phys. Chem. C* 115, 5566 (2011). (SCI, EI)
 19. Yuan, Chia-Nan; Li, Yueh-Feng; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, “Dry nanogranular materials,” *Appl. Phys. Lett.* 98, 144102 (2011). (SCI,EI)
 20. Chou, Tung-He; Hong, Siang-Jie; Liang, Yu-En; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, “Equilibrium Phase Diagram of Drop-on-Fiber: Coexistent States and Gravity Effect,” *Langmuir* 27, 3685 (2011). (SCI, EI)
 21. Chen, Hsieh-Chih; Wu, I-Che; Hung, Jui-Hsiang; Chen, Fu-Je; Chen, I-Wen P.; Peng,

- Yung-Kang; Lin, Chao-Sung; Chen, Chun-Hsien; **Sheng, Yu-Jane**; Tsao, Heng-Kwong; Chou, Pi-Tai, "Superiority of Branched Side Chains in Spontaneous Nanowire Formation: Exemplified by Poly(3-2-methylbutylthiophene) for High-Performance Solar Cells," *Small* 7, 1098 (2011) (SCI, EI)
22. Hong, Siang-Jie; Chang, Feng-Ming; Chou, Tung-He; Chan, Seong Heng; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Anomalous Contact Angle Hysteresis of a Captive Bubble: Advancing Contact Line Pinning," *Langmuir* 27, 6890 (2011). (SCI, EI)
 23. Chou, Shih-Hao; Wu David T.; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Morphology and internal structure control of rod-coil copolymer aggregates by mixed selective solvents," *Soft Matter* 7, 9119 (2011). (SCI, EI)
 24. Lin, C. M.; Chang, G. P.; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Solubilization mechanism of vesicles by surfactants: effect of hydrophobicity," *J. Chem. Phys.* 135, 045102 (2011). (SCI, EI)
 25. Yuan, Chia-Nan; Li, Yueh-Feng; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Wet nanogranular materials: Colloidal glass and gel," *J. Chem. Phys.* 135, 174703 (2011). (SCI, EI)
 26. Lin, Chun-Min; Li, Chun-Shian; Wu, David T.; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Size-dependent properties of small unilamellar vesicles formed by model lipids," *Langmuir*, 28, 689 (2012). (SCI, EI)
 27. Hu, Ssu-Wei; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Self-Assembly of Organophilic Nanoparticles in a Polymer Matrix: Depletion Interactions," *J. Phys. Chem. C* 116, 1789 (2012). (SCI, EI)
 28. Hung, Jui-Hsiang; Lin, Yung-Lung; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Structure-Photophysical Property Relationship of Conjugated Rod-Coil Block Copolymers in Solutions," *Macromolecules*, 45, 2166 (2012). (SCI, EI)
 29. Chou, Tung-He; Hong, Siang-Jie; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Droplets Sitting on a Tilted Plate: Receding and Advancing Pinning," *Langmuir*, 28, 5158 (2012). (SCI, EI)
 30. Hong, Siang-Jie; Li, Yueh-Feng; Hsiao, Mu-Jou; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Anomalous wetting on a superhydrophobic graphite surface," *Appl. Phys. Lett.* 100, 121601 (2012). (SCI, EI)
 31. Hong, Siang-Jie; Chou, Tung-He; Chan, Seong Heng; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Droplet compression and relaxation by a superhydrophobic surface: Contact angle hysteresis," *Langmuir*, 28, 5606 (2012). (SCI, EI)
 32. Lin, Yung-Lung; Wu, Ming-Zher; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Effects of molecular architectures and solvophobic additives on the aggregative properties of polymeric surfactants," *J. Chem. Phys.* 136, 104905 (2012). (SCI, EI)
 33. Hu, Ssu-Wei; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Polymer stretch in two-phase microfluidics: Effect of wall wettability," *Biomicrofluidics* 6, 024130 (2012). (SCI, EI)
 34. Lin, Chun-Min; Wu, David T.; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Membrane properties of swollen vesicles: growth, rupture, and fusion," *Soft Matter*, 8, 6139 (2012). (SCI, EI)

35. Chang, Hung-Yu; Lin, Yung-Lung; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Multi-layered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes," *Macromolecules* 45, 4778 (2012). (SCI, EI)
36. Lin, Hsiao-Chu; Hsieh, Bi-Zen; Lin, Yung-Lung; **Sheng, Yu-Jane**; Lin, Jiang-Jen, "Effect of grafting architecture on the surfactant-like behavior of clay-poly(NiPAAm) nanohybrids," *J. Colloid Interface Sci.* 387, 106 (2012). (SCI,EI)
37. Lin, Yung-Lung; Chang, Hung-Yu; **Sheng, Yu-Jane**, Tsao, Heng-Kwong, "Photoresponsive polymersomes formed by amphiphilic linear-dendritic block-copolymers: generation-dependent aggregation behavior," *Macromolecules* 45, 7143 (2012). (SCI, EI)
38. Hong, Siang-Jie; Chou, Tung-He; Liu, Yu-Yu; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Advancing and receding wetting behavior of a droplet on a narrow rectangular plane," *Colloid Polym. Sci.* (2012). DOI 10.1007/s00396-012-2797-5 (SCI, EI)
39. Wang, Zhengjia; Chang, Cheng-Chung; Hong, Siang-Jie; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "Capillary Rise in a Microchannel of Arbitrary Shape and Wettability: Multiple Stable Heights," *Langmuir*, 28, 16917 (2012). (SCI, EI)
40. Hong, Siang-Jie; Chang, Cheng-Chung; Chou, Tung-He; **Sheng, Yu-Jane**; Tsao, Heng-Kwong, "A drop pinned by a designed patch on a tilted superhydrophobic surface: Mimicking desert beetle," *J. Phys. Chem. C* 116, 26487 (2012). (SCI, EI)
41. Wu, Hsin-Lun; Chen, Po-Yu; Chi, Chia-Ling; Tsao, Heng-Kwong; **Sheng, Yu-Jane**, "Vesicle Deposition on Hydrophilic Solid Surfaces," *Soft Matter*, 9, 1908 (2013). (SCI, EI)
42. Siang-Jie Hong, Tung-He Chou, Yu-Yu Liu, **Yu-Jane Sheng**, and Heng-Kwong Tsao, "Advancing and receding wetting behavior of a droplet on a narrow rectangular plane," *Colloid Polym. Sci.* 291, 347 (2013). (SCI, EI)
43. Ssu-Wei Hu, **Yu-Jane Sheng**, and Heng-Kwong Tsao, "Phase Diagram of Solvophilic Nanodiscs in a Polymer Solution: Depletion Attraction," *J. Phys. Chem. B* 117, 4098 (2013). (SCI, EI)
44. Yung-Lung Lin, Hung-Yu Chang, **Yu-Jane Sheng**, and Heng-Kwong Tsao, "Structural and mechanical properties of polymersomes formed by rod-coil diblock copolymers," *Soft Matter*, 9, 4802 (2013). (SCI, EI)
45. Ssu-Wei Hu, **Yu-Jane Sheng**, and Heng-Kwong Tsao, "Depletion-induced size fractionation of nanorod dispersions," *Soft Matter*, 9, 7261 (2013). (SCI, EI)
46. Zhengjia Wang, Cheng-Chung Chang, Siang-Jie Hong, **Yu-Jane Sheng**, and Heng-Kwong Tsao "Trapped liquid drop in a microchannel: Multiple stable states," *Phys. Rev. E*, 87, 062401 (2013). (SCI, EI)
47. Yueh-Feng Li, **Yu-Jane Sheng**, and Heng-Kwong Tsao "Evaporation Stains: Suppressing Coffee-Ring Effect by Contact Angle Hysteresis," *Langmuir* 29, 7802 (2013) (SCI, EI).
48. Hung-Yu Chang, Yung-Lung Lin, **Yu-Jane Sheng**, and Heng-Kwong Tsao "Structural Characteristics and Fusion Pathways of Onion-like Multi-layered Polymersome Formed by Amphiphilic Comb-like Graft Copolymers," *Macromolecules* 46, 5644 (2013) (SCI,

- EI).
49. Yueh-Feng Li, Shih-Ming Chen, Wei-Hao Lai, **Yu-Jane Sheng**, and Heng-Kwong Tsao "Superhydrophilic Graphite Surfaces and Water-Dispersible Graphite Colloids by Electrochemical Exfoliation," *J. Chem. Phys.* 139, 064703 (2013) (SCI, EI).
 50. Zhengjia Wang, Hung-Yu Yen, Cheng-Chung Chang, **Yu-Jane Sheng**, and Heng-Kwong Tsao "Trapped liquid drop at the end of Microchannel," *Langmuir* 29, 12154 (2013) (SCI, EI).
 51. Yu-En Liang, Cheng-Chung Chang, Heng-Kwong Tsao, and **Yu-Jane Sheng** "Equilibrium Phase Diagram of Drops at the Bottom of a Fiber Standing on Superhydrophobic Flat Surfaces," *Soft Matter* 9, 9867 (2013) (SCI, EI).
 52. Yu-Cheng Chiu, Tzu-Ying Chen, Chu-Chen Chueh, Hung-Yu Chang, Kenji Sugiyama, **Yu-Jane Sheng**, Akira Hirao, and Wen-Chang Chen "High Performance Nonvolatile Transistor Memories of Pentacene Using the Electrets of Star-branched P-type Polymers and Their Donor/Acceptor Blends," *J. Mater. Chem. C*. accepted (2013) (SCI, EI). (工合著)

Conference Papers

1. "Atypical Micellization Behavior of Star-Block Copolymer Solutions," 2009 European Polymer Congress, July, 12-17(2009), Graz, Austria.
2. "Molecular Simulations of Multicompartement Micelles Formed by Triblock Copolymers," 2009 Taiwan-Japan Bilateral Polymer Symposium, April 23-24 (2008), Taipei, Taiwan.
3. "The effect of surfactant on the vesicular structures," 18th Discrete Simulation of Fluid Dynamics, July 6-10 (2009), Beijing, China.
4. "Self-assembled Structure-within-Structure," 18th Discrete Simulation of Fluid Dynamics, July 6-10 (2009), Beijing, China.
5. "The interactions between surfactants and vesicles : dissipative particle dynamics," 18th Discrete Simulation of Fluid Dynamics, July 6-10 (2009), Beijing, China.
6. "The effect of surfactant on the vesicular structures," 3rd Asian Conference on Colloids and Interface Science, October 11-14 (2009), Jeju, Korea.
7. "The interactions between surfactants and vesicles : dissipative particle dynamics," 3rd Asian Conference on Colloids and Interface Science, October 11-14 (2009), Jeju, Korea.
8. "Morphologies of Rod-Coil Copolymers," 3rd Asian Conference on Colloids and Interface Science, October 11-14 (2009), Jeju, Korea.
9. "Wetting behavior of a drop atop holes," 2009 年化工年會學術研討會與國科會化學門成果發表會, 11月 27-28 日, 台中國立中興大學, Taiwan.
10. "Wetting behavior of a drop atop holes," XIV International Conference on Surface Forces, June 21-27 (2010), Moscow, Russia.

11. "The interactions between surfactants and vesicles: dissipative particle dynamics," 19 International Congress of Chemical and Process Engineering CHISA 2010 and the 7 European Congress of Chemical Engineering ECCE-7, August 28 - September, 1(2010), Prague, Czech Republic.
12. "Wetting Behavior of a drop atop holes", the 21st IUPAC International Conference on Chemical Thermodynamics, 日本筑波, 2010, August 1-6.
13. "Study on Self-Assembly Behaviors of Conjugated Block Copolymers in Selective Solvents based on Dissipative Particle Dynamics", the 21st IUPAC International Conference on Chemical Thermodynamics, 日本筑波, 2010, August 1-6.
14. "以耗散粒子動力學法研究說段鏈星狀高分子之微胞結構," 2010 Annual Meeting of the Polymer Society, Taipei, January 18-19 (2010), Kaoshing, Taiwan.
15. "以耗散粒子動力學法研究說段鏈星狀高分子之微胞結構," 2010 Annual Meeting of the Polymer Society, Taipei, January 18-19 (2010), Kaoshing, Taiwan.
16. "Wall free capillarity and pendant drop removal," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
17. "Wetting Behavior of a drop atop holes," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
18. "SiC particle gel induced by addition of alkyl amine surfactant," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
19. "Superhydrophilicity to superhydrophobicity transition of CuO nanowire films," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
20. "The Equilibrium Shapes of Liquid Drops on Fibers," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
21. "Structural Aggregates of Rod-Coil Copolymers Solution," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
22. "Morphologies of the grafted nanocomposites in dilute solution and polymer matrix," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
23. "The Fusion of Surface-Modified Poly(ethyleneglycol) Vesicle by Dissipative Particle Dynamics," The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Oct. 5-8, 2010, Taipei, Taiwan.
24. "Self-assembly Behavior of Rod-Coil Block Copolymers in Selective Solvents," *Growth of Hierarchical Functional Materials in Complex Fluids*, Jul 5 to Aug 5, 2011, The Kavli Institute for Theoretical Physics China (KITPC) at the Chinese Academy of Sciences in Beijing.

25. "Self-assembly of solvophilic nanoparticles in a polymer matrix: depletion interactions," The 4th Asian Conference on Colloid and Interface Science (ACCIS 2011), November 23 (Wed.) ~ November 26 (Sat.), 2011, National Cheng Kung University, Tainan, Taiwan.
26. "Self-assembly of solvophilic nanoparticles in a polymer matrix: depletion interactions," 2011 台灣化學工程學會 58 周年年會, November 25 (Fri.) ~ November 26 (Sat.), 2011, National Cheng Kung University, Tainan, Taiwan.
27. "Effects of Particle Shape and Matrix Polymer on Self-Assembled Morphology of Polymer-Grafted Nanoparticle," 2011 台灣化學工程學會 58 周年年會, November 25 (Fri.) ~ November 26 (Sat.), 2011, National Cheng Kung University, Tainan, Taiwan.
28. "Effects of Particle Shape and Matrix Polymer on Self-Assembled Morphology of Polymer-Grafted Nanoparticles," The 24th International Symposium on Chemical Engineering (24th ISChE), December 2 – 4, 2011, Hyundai Hotel, Gyung-ju, Korea.
29. "Self-assembly of solvophilic nanoparticles in a polymer matrix: depletion interactions," International Symposium on Surface Science – Towards Nano-, Bio-, and Green Innovation- (ISSS6), December 11 (Sun.) ~ December 15 (Thur.), 2011, Tower Hall Funabori, Funabori, Tokyo, Japan.
30. "A drop pinned by a designed defect on a tilted superhydrophobic surface: Mimicking desert beetle," 2012 台灣化學工程學會 59 週年年會暨國科會化學工程學門成果發表會, 101 年 11 月 23(五) ~ 24(六), 台中市, 逢甲大學化工系館.
31. "Multi-layered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes," 2012 台灣化學工程學會 59 週年年會暨國科會化學工程學門成果發表會, 101 年 11 月 23(五)~24(六), 台中市, 逢甲大學化工系館.
32. "Morphology Phase Diagram of a Droplet on a Vertical Fiber," 2012 台灣化學工程學會 59 週年年會暨國科會化學工程學門成果發表會, 101 年 11 月 23(五) ~ 24(六), 台中市, 逢甲大學化工系館.
33. "Polymer stretch in two-phase microfluidics: Effect of wall wettability," 第 14 屆第二次中華民國界面科學學會年會暨論文發表會, September 7 (Sat.), 2012, National Cheng Kung University, Tainan, Taiwan.
34. "Morphology Phase Diagram of a Droplet on a Vertical Fiber," 第 14 屆第二次中華民國界面科學學會年會暨論文發表會, September 7 (Sat.), 2012, National Cheng Kung University, Tainan, Taiwan.
35. "Physical Properties and Fusion Mechanism of Vesicles at Different Temperatures," 第 14 屆第二次中華民國界面科學學會年會暨論文發表會, September 7 (Sat.), 2012, National Cheng Kung University, Tainan, Taiwan.
36. "Polymer Stretch in Two-Phase Microfluidics: Effect of Wall Wettability," 15th International Congress on Thermal Analysis and Calorimetry (ICTAC15), August

- 20(Mon)-24(Fri), 2012 Kinki University, Osaka, Japan.
37. "A drop pinned by a designed defect on a tilted superhydrophobic surface: Mimicking desert beetle," 15th International Congress on Thermal Analysis and Calorimetry (ICTAC15), August 20(Mon)-24(Fri), 2012 Kinki University, Osaka, Japan.
 38. "Multi-layered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes," 15th International Congress on Thermal Analysis and Calorimetry (ICTAC15), August 20(Mon)-24(Fri), 2012 Kinki University, Osaka, Japan.
 39. "Membrane properties of swollen vesicles: growth, rupture, and fusion," 76th Prague Meeting on Macromolecules: Polymers in Medicine, 1-5 July, 2012, Prague, Czech Republic.
 40. "Size-dependent properties of small unilamellar vesicles formed by model lipids," 76th Prague Meeting on Macromolecules: Polymers in Medicine, 1-5 July, 2012, Prague, Czech Republic.
 41. "Effects of Particle Shape and Matrix Polymer on Self-Assembled Morphology of Polymer-Grafted Nanoparticles," The 14th Asia Pacific Confederation of Chemical Engineering, 21 – 24 February 2012, Suntec Singapore International Convention & Exhibition Center, Singapore.
 42. "Self-Assembly of Amphiphilic Asymmetric Macromolecular Brushes", 「2012 中華民國高分子學會年會/第三十五屆高分子學術研討會暨國科會一百年度高分子學門成果發表會/前瞻功能性高分子與應用國際學術研討會」, 2012 年 1 月 16 日(一)、17 日(二), 中原大學。
 43. "The Fusion Pathways of Onion-Like Multilayered Polymersome Formed by Amphiphilic Comb-Like Graft Copolymers," 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會, 102 年 11 月 22(五)~23(六), 台北市, 國立臺灣科技大學國際大樓。
 44. "An Equilibrium Phase Diagram of Drops at the Bottom of a Fiber Standing on Superhydrophobic Flat Surfaces," 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會, 102 年 11 月 22(五)~23(六), 台北市, 國立臺灣科技大學國際大樓。
 45. "Phase Behavior of Lipid Bilayers Adsorbed on a Surface," 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會, 102 年 11 月 22(五)~23(六), 台北市, 國立臺灣科技大學國際大樓。
 46. "Wetting Behavior of a Drop Sitting on a Crevice," 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會, 102 年 11 月 22(五)~23(六), 台北市, 國立臺灣科技大學國際大樓。

47. “碳基材料分子基礎物性模擬及解析” 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會，102 年 11 月 22(五)~23(六)，台北市，國立臺灣科技大學國際大樓。
48. “Structural characteristics of onion-like multi-layered Polymersome formed by amphiphilic comb-like graft copolymers,” 25th IUPAP International Conference on Statistical Physics, Seoul Korea, July 22-28, 2013.
49. “Physical Properties and fusion behaviors of small Polymersomes formed by rodcoil diblock copolymers,” 25th IUPAP International Conference on Statistical Physics, Seoul Korea, July 22-28, 2013.
50. “Wetting behavior of a drop sitting on a crevice,” 25th IUPAP International Conference on Statistical Physics, Seoul Korea, July 22-28, 2013.
51. “Equilibrium Phase diagram of drops at the bottom of a fiber standing on superhydrophobic surfaces,” 25th IUPAP International Conference on Statistical Physics, Seoul Korea, July 22-28, 2013.
52. “Multi-layered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes,” 34th Australasian Polymer Symposium (34 APS), July 7-10 (2013), Darwin, Australia.
53. “Self-assembly of Solvophilic Nanoparticles in a Polymer Matrix: Depletion Interactions,” 34th Australasian Polymer Symposium (34 APS), July 7-10 (2013), Darwin, Australia.

Honors

1. 周勢濠同學 (謹玉真教授指導) 2011 第 13 屆亞太化工會議最佳海報獎
2. 胡斯瑋同學 (謹玉真教授指導) 2011 台灣化學工程學會博士班研究生英語專題報告競賽第一名
3. 梁祐恩同學 (謹玉真教授指導) 2012 第 14 屆第二次中華民國界面科學學會年會暨論文發表會海報競賽傑出海報獎
4. 張弘郁同學 (謹玉真教授指導) 2012 台灣化學工程學會 59 週年年會暨國科會化學工程學門成果發表會博士班研究生英語專題報告競賽優等獎
5. 張正忠同學 (謹玉真教授指導) 2012 台灣化學工程學會 59 週年年會暨國科會化學工程學門成果發表會壁報論文傑出海報獎
6. 張弘郁同學 (謹玉真教授指導) 2013 台灣化學工程學會 60 週年年會暨國科會化學工程學門成果發表會博士班研究生英語專題報告競賽佳作獎