

Journal Publications (Peer-Reviewed)

1. Wang, Q.; Zhang, Z.; Gao, Y.; Wu, J.; Duan, L.; Sun, L.; Guo, Z. Synthesis and Characterization of Co-K/KxTi2O5 as Novel NOx Storage and Reduction (NSR) Catalyst. *Journal of Nanoscience and Nanotechnology* **2013** (accepted).
2. Atabey, E.; Wei, S.; Zhang, X.; Gu, H.; Yan, X.; Huang, Y.; Shao, L.; He, Q.; Zhu, J.; Sun, L.; Kucknoor, A. S.; Wang, A.; Guo, Z. Fluorescent Electrospun Polyvinyl Alcohol/CdSe@ZnS Nanocomposite Fibers. *Journal of Composite Materials* **2013** (in press, DOI: 10.1177/0021998312463107).
3. Zeng, H.; Cao, Y.; Xie, S.; Yang, J.; Tang, Z.; Wang, X.; Sun, L. Synthesis, Optical and Electrochemical Properties of ZnO Nanowires/Graphene Oxide Heterostructures. *Nanoscale Research Letters* **2013**, *8*, 133.
4. Wang, Q.; Yu, J.; Liu, J.; Guo, Z.; Umar, A.; Sun, L. Na⁺ and K⁺-exchanged Zirconium Phosphate (ZrP) as High-temperature CO₂ Adsorbents. *Science of Advanced Materials* **2013**, *5*, 469-474.
5. He, Q.; Yuan, T.; Zhang, X.; Luo, Z.; Haldolaarachchige, N.; Sun, L.; Young, D. P.; Wei, S. Guo, Z. Magnetically Soft and Hard Polypropylene/Cobalt Nanocomposites: Role of Maleic Anhydride Grafted Polypropylene. *Macromolecules* **2013**, *46*, 2357-2368.
6. Xiao, M.; Huang, M.; Zeng, S.; Han, D.; Wang, S.; Sun, L.; Meng, Y. Sulfur@Graphene Oxide Core-shell Particles as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Cycling Stability and Capacity. *RSC Advances* **2013**, *3*, 4914-4916.
7. Chen, H.; Wang, W.; Martin, J. C.; Oliphant, A. J.; Doerr, P. A.; Xu, J. F.; DeBorn, K. M.; Chen, C.; Sun, L. Extraction of Lignocellulose and Synthesis of Porous Silica Nanoparticles from Rice Husks - A Comprehensive Utilization of Rice Husk Biomass. *ACS Sustainable Chemistry & Engineering* **2013**, *1*, 254-259.
8. Wei, S.; Lizu, M.; Zhang, X.; Sampathi, J.; Sun, L.; Milner, M. F. Electrospun Poly(vinyl alcohol)/ α -Zirconium Phosphate Nanocomposite Fibers. *High Performance Polymers* **2013**, *25*, 25-32.
9. Wang, W.; Ma, C.; Lin, P.; Sun, L.; Cooper, A. I. Gas Storage in Renewable Bioclathrates. *Energy & Environmental Science* **2013**, *6*, 105-107.
10. Wang, W.; Huang, Z.; Chen, H.; Tan, Z.; Wang, H.; Chen, C.; Sun, L. Methane Hydrates with a High Capacity and High Formation Rate Promoted by Biosurfactants. *Chemical Communications* **2012**, *48*, 11638-11640.
(Featured on journal inside front cover)
11. Wu, X.; Zeng, H.; Yu, Q.; Fan, C.; Ren, J.; Yuan, S.; Sun, L. Controlled growth and up-conversion luminescence of Y₂O₃:Er³⁺ phosphor with the addition of Bi₂O₃. *RSC Advances* **2012**, *2*, 9660-9664.
12. Wang, W.; Martin, J. C.; Huang, R.; Huang, W.; Liu, A.; Han, A.; Sun, L. Synthesis of Silicon Complexes from Rice Husk Derived Silica Nanoparticles. *RSC Advances* **2012**, *2*, 9036-9041.
13. He, Q.; Yuan, T.; Zhu, J.; Luo, Z.; Haldolaarachchige, N.; Sun, L.; Khasanov, A.; Li, Y.; Young, D. P.; Wei, S.; Guo, Z. Magnetic high density polyethylene nanocomposites reinforced with in-situ synthesized Fe@FeO core-shell nanoparticles. *Polymer* **2012**, *53*, 3642-3652.
14. Zhu, J.; He, Q.; Luo, Z.; Khasanov, A.; Li, Y.; Sun, L.; Wang, Q.; Wei, S.; Guo, Z. Property Manipulated Polypropylene-Iron Nanocomposites with Maleic Anhydride Polypropylene. *Journal of Materials Chemistry* **2012**, *22*, 15928-15938.
15. Wong, M.; Guenther, J.; Sun, L.; Blümel, J.; Nishimura, R.; Sue, H.-J. Synthesis and Fabrication of Multifunctional Nanocomposites: Stable Dispersions of Nanoparticles Tethered with Short, Dense and Polydisperse Polymer Brushes in Poly(methyl methacrylate). *Advanced Functional Materials* **2012**, *22*, 3614-3624.
16. Yang, Y.; Zeng, H.; Ren, J.; Yuan, S.; Fan, C.; Sun, L.; Chen, G. Tunable Blue Emission from Ta⁵⁺ Doped Sulfophosphate Glass-Ceramics. *Journal of the American Ceramic Society* **2012**, *95*, 2206-2210.
17. Hu, H.; Martin, J. C.; Zhang, M.; Southworth, C. S.; Xiao, M.; Meng, Y.; Sun, L. Immobilization of Ionic Liquids in θ -Zirconium Phosphate for Catalyzing the Coupling of CO₂ and Epoxides. *RSC Advances* **2012**, *2*, 3810-3815.
18. Wang, W.; Martin, J. C.; Fan, X.; Han, A.; Luo, Z.; Sun, L. Silica Nanoparticles and Frameworks from Rice Husk Biomass. *ACS Applied Materials & Interfaces* **2012**, *4*, 977-981.
(Highlighted in *Chemical & Engineering News*, **2012**, 90(2), 32-33 (January 9, 2012 issue))
<http://cen.acs.org/articles/90/i2/Porous-Silica-Born-Rice-Husks.html>
19. Smiglak, M.; Hines, C. C.; Reichert, W. M.; Vincek, A. S.; Katritzky, A. R.; Thrasher, J. S.; Sun, L.; McCrary, P. D.; Beasley, P. A.; Kelleys, S. P.; Rogers, R. D. Synthesis, limitations, and thermal properties of energetically-substituted, protonated imidazolium picrate and nitrate salts and further comparison with their methylated analogs. *New Journal of Chemistry* **2012**, *36*, 702-722.

20. Wang, W.; Martin, J. C.; Zhang, N.; Ma, C.; Han, A.; Sun, L. Harvesting Silica Nanoparticles from Rice Husks. *Journal of Nanoparticle Research* **2011**, *13*, 6981-6990.
21. Wei, S.; Wang, Q.; Zhu, J.; Sun, L.; Lin, H.; Guo, Z. Multifunctional Composite Core-Shell Nanoparticles. *Nanoscale* **2011**, *3*, 4474-4502.
(Listed as one of Top 25 most-read *Nanoscale* articles in 2012).
22. Li, Y.; Zhu, J.; Wei, S.; Ryu, J.; Wang, Q.; Sun, L.; Guo, Z. Poly(propylene) Nanocomposites Containing Various Carbon Nanostructures. *Macromolecular Chemistry and Physics* **2011**, *212*, 2429-2438.
23. Li, Y.; Zhu, J.; Wei, S.; Ryu, J.; Sun, L.; Guo, Z. Poly(propylene)/Graphene Nanoplatelet Nanocomposites: Melt Rheological Behaviors and Thermal, Electrical, and Electronic Properties. *Macromolecular Chemistry and Physics* **2011**, *212*, 1951-1959.
24. Zhu, J.; Wei, S.; Li, Y.; Sun, L.; Haldolaarachchige, N.; Young, D. P.; Southworth, C. S.; Khasanov, A.; Luo, Z.; Guo, Z. Surfactant-free Synthesized Magnetic Polypropylene Nanocomposites: Rheological, Electrical, Magnetic and Thermal Properties. *Macromolecules* **2011**, *44*, 4382-4391.
25. Wei, S.; Patil, R.; Sun, L.; Haldolaarachchige, N.; Chen, X.; Young, D. P.; Guo, Z. Ex Situ Solvent-Assisted Preparation of Magnetic Poly(propylene) Nanocomposites Filled with Fe@FeO Nanoparticles. *Macromolecular Materials and Engineering* **2011**, *296*, 850-857.
26. Hu, H.; Martin, J. C.; Xiao, M.; Southworth, C. S.; Meng, Y.; Sun, L. Immobilization of Ionic Liquids in Layered Compounds via Mechanochemical Intercalation. *Journal of Physical Chemistry C* **2011**, *115*, 5509-5514.
27. Chen, X.; Wei, S.; Atarsingh, Y.; Patil, R.; Zhu, J.; Ximenes, R.; Sun, L.; Guo, Z. Poly(propylene)/Carbon Nanofiber Nanocomposites: Ex Situ Solvent-Assisted Preparation and Analysis of Electrical and Electronic Properties. *Macromolecular Materials and Engineering* **2011**, *296*, 434-443.
28. Zeng, H.; Yang, Y.; Lin, Z.; Liang, X.; Yuan, S.; Chen, G.; Sun, L. The effect of B₂O₃ on the luminescent properties of Eu ion-doped aluminoborosilicate glasses. *Journal of Non-Crystalline Solids* **2011**, *357*, 2328-2331.
29. Sun, L.; Warren, G. L.; Davis, D.; Sue, H.-J. Nylon Toughened Epoxy/SWCNT Composites. *Journal of Materials Science* **2011**, *46*, 207-214.
30. Lin, Z.; Zeng, H.; Yang, Y.; Liang, X.; Chen, G.; Sun, L. The Effect of Fluorine Anions on the Luminescent Properties of Eu-Doped Oxyfluoride Aluminosilicate Glasses. *Journal of the American Ceramic Society* **2010**, *93*, 3095-3098.
31. Chen, X.; Wei, S.; Gunesoglu, C.; Zhu, J.; Southworth, C. S.; Sun, L.; Rutman, D.; Karki, A. B.; Young, D. P.; Guo, Z. Electrospun Magnetic Fibrillar Polystyrene Nanocomposites Reinforced with Nickel Nanoparticles. *Macromolecular Chemistry and Physics* **2010**, *211*, 1775-1783.
(Featured on journal front cover)
32. Zhu, J.; Wei, S.; Ryu, J.; Sun, L.; Luo, Z.; Guo, Z. Magnetic Epoxy Resin Nanocomposites Reinforced with Core-Shell Structured Fe@FeO Nanoparticles: Fabrication and Property Analysis. *ACS Applied Materials & Interfaces* **2010**, *2*, 2100-2107.
33. Sun, L.; Warren, G. L.; Sue, H.-J. B-Staged Epoxy/SWCNT Thin Films for Reinforcement of VARTM Composites. *Carbon* **2010**, *48*, 2364-2367.
34. Hadjiev, V. G.; Warren, G. L.; Sun, L.; Davis, D. C.; Lagoudas, D. C.; Sue, H.-J. Raman microscopy of residual strains in carbon nanotube/epoxy composites. *Carbon* **2010**, *48*, 1750-1756.
35. Sun, L.; O'Reilly, J. Y.; Kong, D.; Su, J. Y.; Boo, W. J.; Sue, H.-J.; Clearfield, A. The Effect of Host Crystallinity and Guest Molecular Architecture upon the Mechanism of the Intercalation Reaction. *Journal of Colloid and Interface Science* **2009**, *333*, 503-509.
36. Sun, L.; Liu, J.; Kirumakki, S.; Schwerdtfeger, E. D.; Howell, R. J.; Al-Bahily, K.; Miller, S. A.; Clearfield, A.; Sue, H.-J. Polypropylene Nanocomposites Based on Designed Synthetic Nanoplatelets. *Chemistry of Materials* **2009**, *21*, 1154-1161.
37. Sun, L.; Boo, W. J.; Liu, J.; Clearfield, A.; Sue, H.-J.; Verghese, N. E.; Pham, H. Q.; Bicerano, J. Effect of Nanoplatelets on Rheological Behavior of Epoxy Monomers. *Macromolecular Materials and Engineering* **2009**, *294*, 103-113.
38. Moghbelli, E.; Sun, L.; Jiang, H.; Boo, W. J.; Sue, H.-J. Scratch Behavior of Epoxy Nanocomposites. *Polymer Engineering and Science* **2009**, *49*, 483-490.
39. Warren, G. L.; Sun, L.; Hadjiev, V. G.; Davis, D.; Lagoudas, D.; Sue, H.-J. B-Staged Epoxy/SWCNT Nanocomposite Thin Films for Composites Reinforcement. *Journal of Applied Polymer Science* **2009**, *112*, 290-298.
40. Sun, L.; O'Reilly, J. Y.; Tien, C.-W. Sue, H.-J. Preparation of Electrically Conductive Polystyrene/Carbon

- Nanofiber Nanocomposite Films. *Journal of Chemical Education* **2008**, *85*, 1105-1107.
41. Sun, L.; Boo, W. J.; Clearfield, A.; Sue, H.-J.; Pham, H. Q. Barrier Properties of Model Epoxy Nanocomposites. *Journal of Membrane Science* **2008**, *318*, 129-136.
 42. Sun, L.; Warren, G. L.; O'Reilly, J. Y.; Everett, W. N.; Lee, S. M.; Davis, D.; Lagoudas, D.; Sue, H.-J. Mechanical properties of surface functionalized SWCNT/epoxy composites. *Carbon* **2008**, *46*, 320-328.
 43. Sun, L.; Boo, W. J.; Liu, J.; Tien, C.-W.; Sue, H.-J. Marks, M. J.; Pham, H. Preparation of Intercalating Agent-Free Epoxy/Clay Nanocomposites. *Polymer Engineering and Science* **2007**, *47*, 1708-1714. (**Highlighted** as monthly New Technology Focus in Society of Plastics Engineers Tech Focus Newsletter, October 2007)
 44. Boo, W. J.; Sun, L.; Liu, J.; Clearfield, A.; Sue, H.-J. Effective Intercalation and Exfoliation of Nanoplatelets in Epoxy via Creation of Porous Pathways. *Journal of Physical Chemistry C* **2007**, *111*, 10377-10381.
 45. Sun, D.; Wong, M.; Sun, L.; Li, Y.; Miyatake, N.; Sue, H.-J. Purification and stabilization of colloidal ZnO nanoparticles in methanol. *Journal of Sol-Gel Science and Technology* **2007**, *43*, 237-243.
 46. Boo, W. J.; Sun, L.; Liu, J.; Moghbelli, E.; Clearfield, A.; Sue, H.-J.; Pham, H.; Verghese, N. Effect of Nanoplatelet Dispersion on Mechanical Behavior of Polymer Nanocomposites. *Journal of Polymer Science: Part B: Polymer Physics* **2007**, *45*, 1459-1469.
 47. Sun, L.; Boo, W. J.; Sun, D.; Clearfield, A.; Sue, H.-J. Preparation of Exfoliated Epoxy/ α -Zirconium Phosphate Nanocomposites Containing High Aspect Ratio Nanoplatelets. *Chemistry of Materials* **2007**, *19*, 1749-1754.
 48. Boo, W. J.; Sun, L.; Warren, G. L.; Moghbelli, E.; Pham, H.; Clearfield, A.; Sue, H.-J. Effect of Nanoplatelet Aspect Ratio on Mechanical Properties of Epoxy Nanocomposites. *Polymer* **2007**, *48*, 1075-1082.
 49. Sun, L.; Boo, W. J.; Sue, H.-J.; Clearfield, A. Preparation of α -Zirconium Phosphate with Lateral Dimension Variations for Polymer Nanocomposites. *New Journal of Chemistry* **2007**, *31*, 39-43.
 50. Boo, W. J.; Sun, L.; Liu, J.; Clearfield, A.; Sue, H.-J.; Mullins, M. J.; Pham, H. Morphology and mechanical behavior of exfoliated epoxy/ α -zirconium phosphate nanocomposites. *Composites Science and Technology* **2007**, *67*, 262-269.
 51. Sun, L.; Waterfeld, A.; Thrasher, J. S. A Modified Accelerating Rate Calorimeter (ARC[®]) with Capabilities for Handling Gaseous Samples under Vacuum or an Inert Atmosphere. *Journal of Fluorine Chemistry* **2006**, *127*, 1436-1439.
 52. Smiglak, M.; Reichert, W. M.; Holbrey, J. D.; Wilkes, J. S.; Sun, L.; Thrasher, J. S.; Kirichenko, K.; Singh, S.; Katritzky, A. R.; Rogers, R. D. Combustible Ionic Liquids by Design: Is Laboratory Safety Another Ionic Liquid Myth? *Chemical Communications* **2006**, 2554-2556. (Designated by *Chemical Communications* as a "Hot Article"; **highlighted** in *Green Chemistry* **2006**, *8*, 276)
 53. Browning, R. L.; Lim, G. T.; Moyse, A.; Sun, L.; Sue, H.-J. Effects of Slip Agent and Talc Surface Treatment on the Scratch Behavior of TPOs. *Polymer Engineering and Science* **2006**, *46*, 601-608.
 54. Sun, L.; Xiao, M.; Liu, J.; Gong, K. A Study of the Polymerization of Styrene Initiated by K-THF-GIC System. *European Polymer Journal* **2006**, *42*, 259-264.
 55. Sun, L.; Boo, W. J.; Browning, R. L.; Sue, H.-J.; Clearfield, A. Effect of Crystallinity on the Intercalation of Monoamine in α -Zirconium Phosphate Layer Structure. *Chemistry of Materials* **2005**, *17*, 5606-5609.
 56. Sun, L.; Thrasher, J. S. Studies of the Thermal Behavior of Nafion[®] Membranes Treated with Aluminum (III). *Polymer Degradation and Stability* **2005**, *89*, 43-49.
 57. Xiao, M.; Sun, L.; Liu, J.; Li, Y.; Gong, K. Synthesis and Properties of Polystyrene/Graphite Nanocomposites. *Polymer* **2002**, *43*, 2245-2248.
 58. Sun, L.; Gong, K. Silicon-Based Materials from Rice Husks and Their Applications. *Industrial & Engineering Chemistry Research* **2001**, *40*, 5861-5877.
 59. Yang, W.; Li, G.; Wang, Z.; Sun, L.; Shen, J. Studies on the synthesis and properties of styrene-methacrylic acid copolymer. *Polymer Materials Science and Engineering* **2001**, *17*(6), 67-70. (in Chinese)
 60. Zhang, Y.; Sun, L.; Liu, A.; Gong, K. Polymer Nanocomposites Derived from Cage Hexahedral Silsesquioxanes. *Chemical World* **2001**, *42*(2), 98-102. (in Chinese)
 61. Song, J.; Liu, A.; Sun, L.; Gong, K. Synthesis of Organo-Silicon Epoxide Directly from Natural SiO₂ and The Product Characterization. *Chinese Journal of Organic Chemistry* **2001**, *21*(1), 53-55. (in Chinese)
 62. Xiao, P.; Sun, L.; Xiao, M.; Gong, K. Interfacial Interaction of Exfoliated Graphite Filled SBS Composites. *China Synthetic Rubber Industry* **2000**, *23*(4), 240.
 63. Song, J.; Sun, L.; Gong, K. A Novel Route of Synthesizing Polymer Containing Silicon and Its Development. *High Technology Letters* **2000**, *10*(4), 104-106. (in Chinese)

Book Chapters

1. Sun, L.; Sue, H.-J. Epoxy/Carbon Nanotube Nanocomposites. In *Epoxy Polymers: New Materials and Innovations*, Pascault, J.-P.; Williams, R. J. J., Eds. Wiley-VCH: Weinheim, Germany, 2010; pp 185-211. (ISBN: 978-3-527-32480-4)
2. Sun, L.; Sue, H.-J. Permeation Properties of Epoxy Nanocomposites. In *Barrier Properties of Polymer Clay Nanocomposites*, Mittal, V., Ed. Nova Science Publishers: New York, USA, 2010; pp 73-93. (ISBN: 978-1-60876-021-3)

Patents

1. Sun, L.; Ding, F. Nanocomposite Coatings from a Facile Exfoliation-Reassembly Process. US Provisional Patent Application No. 61/795,487, filed on October 18, 2012.
2. Sun, L.; Yu, J. Martin, B. R.; Direct Synthesis of Layered Double Hydroxide Single-Layer Nanosheets. US Provisional Patent Application No. 61/741,939, filed on July 31, 2012.
3. Wang, W.; Sun, L. Gas Hydrates with a High Capacity and High Formation Rate Promoted by Biosurfactants. Patent Application No. PCT/US 2013/028007, filed on February 27, 2013.
4. Sun, L.; Wang, W. Silica Nanoaggregates and Organosilicon Complexes and Methods of Forming Them from Biomass Materials. Patent Application No. PCT/US 2012/026891, publication date: November 1, 2012.
5. Guo, Z.; Sun, L.; Zhu, J.; Wei, S. Surfactant-free Synthesis of Magnetic polyolefin Nanocomposites. U.S. Patent Application No. 13/306,964, filed on November 29, 2011.
6. Zeng, H.; Cao, Y.; Wu, X.; Fan, C.; Sun, L. Organic/inorganic transparent composite thin film with ultraviolet absorption characteristic and capable of generating electric energy. Chinese Patent No. CN 102610739, date of patent: July 25, 2012.
7. Sun, L.; Meng, Y.; Xiao, M.; Hu, H.; Martin, J. C. Immobilization of Ionic Liquids via Solid State Intercalation in Layered Compounds. International Patent Application Publication No. WO2012/078783, publication date: June 14, 2012.
8. Sun, L.; Coffy, T.; Daniels, L. Polymer Compositions for Injection Stretch Blow Molded Articles. International Patent Application Publication No. WO 2012/134951, publication date: October 4, 2012, 2012; U.S. Patent Application Publication No. 2012/0248002, publication date: October 4, 2012.
9. Sun, L.; Boo, W. J.; Sue, H.-J.; Marks, M. J.; Fibiger, R. F.; Paquette, M. Intercalation Agent Free Composition Useful to Make Nanocomposite Polymers. U.S. Patent Application Publication No. 2012/0136093, publication date: May 31, 2012.
10. Li, F.; Albores, R.; Ashbaugh, J.; Sun, L. Polypropylene Compositions for Oriented Films. International Patent Application Publication No. WO2011/159609, publication date: December 22, 2011; U.S. Patent No. 8,278,391, date of patent: October 2, 2012.
11. Sun, L.; Musgrave, M.; Patkar, M. Modified Polypropylene for Packaging Applications. International Patent Application Publication No. WO2011/159552, publication date: December 22, 2011; U.S. Patent Application Publication No. 2011/0305857, publication date: December 15, 2011.
(**Highlighted** in *Chemical & Engineering News*, **2010**, 88(28), 20 (July 20, 2010 issue) and *Plastics Engineering*, **2010**, 66, 20 (November/December issue))
<http://pubs.acs.org/doi/abs/10.1021/cen-v088n028.p020>
12. Li, F.; Sun, L.; Ashbaugh, J.; Rauscher, D.; Daniels, L.; Dotter, R. Polypropylene and Polylactic Acid Blends of Injection Stretch Blow Molding Applications. International Patent Application Publication No. WO2012/109142, publication date: August 16, 2012; U.S. Patent Application Publication No. 2011/0195210, publication date: August 11, 2011.
13. Sun, L.; Leland, M.; Aguirre, J.; Harris, T. Polystyrene Preform Design for Blow Molding of Articles. International Patent Application Publication No. WO2011/011149, publication date: January 27, 2011; U.S. Patent Application Publication No. 2011/0020576, publication date: January 27, 2011.
14. Sun, L.; Sosa, J.; Aguirre, J.; Leland, M.; Harris, T. Polystyrene Nanocomposites for Blow Molding Applications. International Patent Application Publication No. WO2011/011148, publication date: January 27, 2011; U.S. Patent Application Publication No. 2011/0020571, publication date: January 27, 2011.
15. Sun, L.; Musgrave, M.; Coffy, T. Injection Stretch Blow Molded Articles and Syndiotactic Polymers for Use Therein. International Patent Application Publication No. WO2010/111331, publication date: September 30, 2010; U.S. Patent Application Publication No. 2010/0249354, publication date: September 30, 2010.
16. Sun, L.; Leland, M. Injection Stretch Blow Molded Articles and Random Copolymers for use therein. International Patent Application Publication No. WO2010/111330, publication date: September 30, 2010; U.S. Patent Application Publication No. 2010/0243498, publication date: September 30, 2010.

17. Sosa, J.; Sun, L.; Ellis, B. Composites Comprising a Polymer and a Selected Layered Compound and Methods of Preparing and Using Same. International Patent Application Publication No. WO2010/090802, publication date: August 12, 2010; U.S. Patent Application Publication No. 2010/0197843, publication date: August 5, 2010.
18. Sun, L.; Harris, T.; Aguirre, J.; Leland, M. Styrenic Polymers for Injection Stretch Blow Molding and Methods of Making and Using Same. International Patent Application Publication No. WO2010/068607, publication date: April 1, 2010; U.S. Patent Application Publication No. 2010/0140835, publication date: April 1, 2010.
19. Patkar, M.; Musgrave, M.; Thierry-Mieg, J.; Sun, L.; Sun, L. K. Polypropylene for reduced plate out in polymer article production processes. International Patent Application Publication No. WO 2010/039726, publication date: April 1, 2010; U.S. Patent Application Publication No. 2010/0081743, publication date: April 1, 2010.
20. Sun, L. Injection Stretch Blow Molded Articles and Polymers for Use Therein. International Patent Application Publication No. WO 2009/155318, publication date: December 23, 2009; U.S. Patent No.: US 8,414,988, date of patent: April 9, 2013.
21. Sun, L.; Sosa, J. Composites Comprising a Polymer and a Layered Compound and Methods of Preparing and Using Same. International Patent Application Publication No. WO 2009/134758, publication date: November 5, 2009; U.S. Patent No.: US 8,246,878, date of patent: August 21, 2012.
22. Li, F.; Sun, L. Polypropylene/Polyisobutylene Blends and Films Prepared from Same. International Patent Application Publication No. WO 2009/100293, publication date: August 13, 2009; U.S. Patent Application Publication No. 2009/0202770, publication date: August 13, 2009.
23. Sun, L.; Sun, L. K.; Musgrave, M.; Coffy, T. Low Melt Flow Rate Propylene Based Polymers for Injection Stretch Blow Molding. International Patent Application Publication No. WO 2009/094065, publication date: July 30, 2009; U.S. Patent Application Publication No. 2009/0186999, publication date: July 23, 2009.
24. Sun, L.; Le, D.; Smith, D. Preform Design for Injection Stretch Blow Molding. International Patent Application Publication No. WO 2009/073473, publication date: June 11, 2009; U.S. Patent Application Publication No. 2009/0146345, publication date: June 11, 2009.
25. Musgrave, M.; Le, D.; Sun, L.; Smith, D. Propylene based polymers for injection stretch blow molding. International Patent Application Publication No. WO 2009/045987, publication date: April 9, 2009; U.S. Patent Application Publication No. 2009/0087602, publication date: April 2, 2009.
26. Sun, D.; Sue, H.-J.; Sun, L.; Miyatake, N.; Yamaguchi, K. Polymer Nanocomposites Including Dispersed Nanoparticles and Inorganic Nanoplatelets. International Patent Application Publication No. WO 2009/014685, publication date: January 29, 2009; U.S. Patent No. US 8,344,054, date of patent: January 1, 2013.
27. Sun, L.; Boo, W. J.; Sue, H.-J.; Marks, M. J.; Fibiger, R. F.; Paquette, M. Intercalation Agent Free Composition Useful to Make Nanocomposite Polymers. International Patent Application Publication No.: WO 2008/143643, publication date: November 27, 2008; U.S. Patent No.: US 8,114,925, date of patent: February 14, 2012.
28. Zhang, Y.; Liu, A.; Song, J.; Liu, P.; Zhang, Y.; Sun, L.; Xiao, P.; Xiao, M.; Jiang, Z.; Gong, K. Process for Preparing Dihydroxy Silicate Monomer and Its Polymers. Chinese Patent CN 1238333, date of patent: December 15, 1999.
29. Zhang, Y.; Liu, A.; Song, J.; Liu, P.; Zhang, Y.; Sun, L.; Xiao, P.; Xiao, M.; Jiang, Z.; Gong, K. Low-Temperature Synthesis Process for Vinyl Silicate Monomer and Its Polymers. Chinese Patent CN 1238332, date of patent: December 15, 1999.