

所属学院 化工学院

学科领域 化学工程与技术

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个人简介

教育背景:

1992-1996, 华东理工大学, 有机化工, 学士;

1996-1999, 华东理工大学, 化学工程, 硕士;

1999-2002, 华东理工大学, 化学工程, 博士。

工作经历:

2002.9-2004.8, 华东理工大学化工学院联合所助研;

2004.9-2005.8, 华东理工大学化工学院联合所副研究员;

2005.9-2006.8, 法国 Polytech' lille 里尔科技大学, 博士后;

2006.9-2012.8, 华东理工大学化工学院联合所副研究员;

2012.9- 至今, 华东理工大学化工学院联合所教授。

研究方向

1. 绿色高分子 /CO₂ 溶液体系的构建机制及应用;
2. 超临界流体发泡聚合物工程化基础研究

研究成果及主要发表文章

1. Dongdong Hu, Shaojun Sun, Peiqing Yuan, Ling Zhao, Tao Liu*. Exploration of CO₂ Philicity of Poly(vinyl acetate-co-alkyl vinyl ether) through Molecular Modeling and Dissolution Behavior Measurement, Journal of Physical Chemistry B, 2015, 119(38), 12490-12501.
2. Dongdong Hu, Shaojun Sun, Peiqing Yuan, Ling Zhao, Tao Liu*. Evaluation of CO₂-Philicity of Poly(vinyl acetate) and Poly(vinyl acetate-alt-maleate) Copolymers through Molecular Modeling and Dissolution Behavior Measurement, Journal of Physical Chemistry B, 2015, 119(7), 3194-3204.
3. Haichao Yan, Haitao Yuan, Feng Gao, Ling Zhao, Tao Liu*. Modification of poly(ethylene terephthalate) by combination of reactive extrusion and followed solid-state polycondensation for melt foaming, Journal of Applied Polymer Science, 2015, 132(43-44), 42708-42718.
4. Dongdong Hu, Jie Chen, Ling Zhao, Tao Liu*, Melting and non-isothermal crystallization behaviors of polypropylene and polypropylene/montmorillonite nanocomposites under pressurized carbon dioxide, Thermochimica Acta, 2015, 617, 65-75.
5. Dongdong Hu, Jie Chen, Shaojun Sun, Tao Liu*, Ling Zhao. Solubility and Diffusivity of CO₂ in Isotactic Polypropylene/Nanomontmorillonite Composites in Melt and Solid States, Industrial & Engineering Chemistry Research, 2014, 53(7), 2673-2683.
6. Shaojun Sun, Dongdong Hu, Jie Chen, Tao Liu*, Ling Zhao. Effects of carbon nanofiber on the dissolution and diffusion of CO₂ in polypropylene nanocomposites, Journal of Supercritical Fluids, 2014, 94, 252-260.
7. Dachao Li, Tao Liu*, Ling Zhao*, WeikangYuan. Controlling sandwich-structure of PET microcellular foams using coupling of CO₂ diffusion and induced crystallization, AIChE Journal, 2012, 58(8): 2512-2523.
8. Lei Li, Tao Liu*, Ling Zhao*, Wei-Kang Yuan, CO₂-Induced Phase Transition of Isotactic Poly-1-butene with Form III upon Heating, Macromolecules, 2011, 44(12), 4836-4844.
9. D. C. Li, T. Liu*, L. Zhao*, X.S. Lian, W.K. Yuan. Foaming of Poly(lactic acid) Based on Its Nonisothermal Crystallization Behavior under Compressed Carbon Dioxide, Industrial & Engineering Chemistry Research, 2011, 50(4): 1997-2007.