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出生年月：1990 年 11 月
研究方向：农药晶体工程、工业结晶。

教育和工作经历

博士后，纽约大学，化学系，分子设计研究所 (MDI) 2017 至今
导师：Michael Ward 教授（欧洲科学院院士，Chemistry of Materials 期刊主编）
Bart Kahr 教授（美国科学促进会会员）
研究课题：昆虫与触杀剂晶体的界面交互机理

联合培养博士，纽约大学，化学系，分子设计研究所 (MDI) 2015-2017
导师：Michael Ward 教授（欧洲科学院院士，Chemistry of Materials 期刊主编）
Bart Kahr 教授（美国科学促进会会员）
研究课题：有机小分子球晶结晶机理与多晶型开发

博士，天津大学，化学工程，国家工业结晶工程技术研究中心(NERCICT) 2011-2017
导师：尹秋响教授，王永莉教授
研究课题：有机小分子的球晶形成机理及其应用研究

学士，南京工业大学，药物制剂 2007-2011

科研成果

发表论文 (共发表论文20篇，其中一作与通讯作者8篇)

第一作者与通讯作者

1. **J. Yang**, B. Erriah, C. T. Hu, E. Reiter, X. Zhu, V. López-Mejías, I. P. Carmona-Sepúlveda, M. D. Ward*, B. Kahr*. A New Deltamethrin Crystal Polymorph for Better Malaria Control. ***Proc. Natl. Acad. Sci. U.S.A.*** 2020 (Accepted) (IF=9.412) [**简介:基于晶体工程的农药增效**]
2. H.Ye*, H. Li, C. Wang, **J. Yang*,** G. Huang, X. Meng, Q. Zhou*. Degradable polyester/urea inclusion complex applied as a facile and environment-friendly strategy for slow-release fertilizer: performance and mechanism. ***Chem. Eng. J.*** 2020, *381*, 122704. (IF=10.652) [**简介:缓释肥晶体包合物**]
3. **J. Yang**, X. Zhu, C. T. Hu, M. Qiu, Q. Zhu, M. D. Ward*, B. Kahr*. Inverse Correlation between Lethality and Thermodynamic Stability of Contact Insecticide Polymorphs. ***Cryst. Growth Des***. 2019, *19*, 1839. (IF=4.089) [**简介:基于晶体工程的农药增效**]
4. **J. Yang**, C. T. Hu, Qiuxiang Yin*, B. Kahr*. *L*-Malic Acid Crystallization: Polymorphism, Semi-Spherulites, Twisting, and Polarity. ***CrystEngComm***, 2018, *20*,1383. (IF=3.117)
5. **J. Yang**, C. T. Hu, X. Zhu, Q Zhu, M.D. Ward*, and B. Kahr*. DDT Polymorphism and the Lethality of Crystal Forms. ***Angew. Chem. Int. Ed***. 2017, *56*, 10165. (IF=12.959) [**简介:基于晶体工程的农药增效**]

   ***Highlighted in The New York Times(纽约时报), The U.S. National Science Foundation (NSF), Chemical & Engineering News (ACS), EurekAlert!(AAAS), Chemistry World (RSC), phys.org, NYU News, ScienceDaily, The Science Times, ChemistryViews, Medicalnewser.*

6. **J. Yang**, M.D. Ward*, and B. Kahr*. Abuse of Rachel Carson and Misuse of DDT Science in the Service of Environmental Deregulation. ***Angew. Chem. Int. Ed.*** 2017, *56*, 10026. (IF=12.959) [简介:**基于晶体工程的农药增效**]
7. **J. Yang**, Y. Wang*, H. Hao*, C. Xie, Y. Bao, Q. Yin, J. Gong, C. Jiang, B. Hou, Z. Wang. Spherulitic Crystallization of *L*-Tryptophan: Characterization, Growth Kinetics, and Mechanism. ***Cryst. Growth Des***. 2015, *15*, 5124. (IF=4.089)
8. **J. Yang**, H. Wu, Y. Wang*, Q. Luan, J. Zhang, G. Wang, H. Hao*. Thermodynamics of 4'-Bromomethyl-2-cyanobiphenyl in Different Solvents. ***J. Chem. Thermodyn***. 2015, *83*, 77. (IF=2.888)

共同作者

9. M. Sun, S. Du, **J. Yang**, L. Wang, Z. Gao, J. Gong*. Understanding the effects of upstream impurities on the oiling-out and crystallization of γ-aminobutyric acid. ***Org. Process. Res. Dev.*** 2020, *24*, 398-404. (IF=3.584)
10. X. Zhu, C. T. Hu, **J. Yang**, L.A. Joyce, M. Qiu, M. D. Ward*, B. Kahr*. Manipulating Solid Forms of Contact Insecticides for Infectious Disease Prevention. ***J. Am. Chem. Soc.*** 2019, *141*, 16858. (IF=14.612)
11. A. G. Shtukenberg*, M. Tan, L. Vogt-Maranto, E. J. Chan, W. Xu, **J. Yang,** M. E. Tuckerman, C. T. Hu, B. Kahr*. Melt Crystallization for Paracetamol Polymorphism. ***Cryst. Growth Des***. 2019, *197*, 4070. (IF=4.089)
12. J. Bi, J. Wang, **J. Yang**, H. Lu, T. Wang, X. Huang, H. Hao*. Double-layered Hierarchical Titanate and Its Attaching and Splitting Mechanism. ***Ceram. Int.*** 2019, *45*, 12290. (IF=3.640)
13. W. Li, T. Zhao, Y. Wang, X. Zheng*, **J. Yang**. How Does Foreign Direct Investment Influence Energy Intensity Convergence in China? Evidence From Prefecture-level Data. ***J. Clean. Prod.*** 2019, *219*, 57. (IF=7.246)
14. H. Ye, J.H. Freudenthal, M.Tan, **J. Yang**, and B. Kahr*. Chiroptical Differentiation of Twisted Chiral and Achiral Polymer Crystals. **Macromolecules**, 2019, *52*, 8514-8520. (IF=5.914)
15. Q. Zhu, A.G. Shtukenberg, D. J. Carter, T. Yu, **J. Yang**, M. Chen, P. Raiteri, A. R. Oganov, B. Pokroy, I. Polishchuk, P. J. Bygrave, G. M. Day, A. L. Rohl*, M. E. Tuckerman*, B. Kahr*. Resorcinol Crystallization from the Melt: A New Ambient Phase and New "Riddles". ***J. Am. Chem. Soc.*** 2016, *138,* 4881. (IF=14.612)
16. Y. Zhou, H. Hao*, **J. Yang**, P. Zhu, T. Wang, B. Hou, C. Xie, J. Wang*. Solid−liquid Phase Equilibrium and Mixing Properties of 2-cyano-4′-methylbiphenyl in Pure Solvents. ***J. Chem. Thermodyn.*** 2016, *103*, 134. (IF=2.888)
17. L. Xiao, Y. Wang*, **J. Yang,** F. Yuan, C. Jiang, B. Hou, C. Xie*. Determination and Correlation of Solubility of 4′-bromomethyl-2-cyanobiphenyl in Acetone+ (ethanol, n-propanol, n-butanol) Mixtures. ***J. Chem. Thermodyn***. 2016, *102*, 199. (IF=2.888)
18. C. Jiang, J. Yan, Y. Wang*, J. Zhang, G. Wang, **J. Yang**, and H. Hao*. Isolation Strategies and Transformation Behaviors of Spironolactone Forms. ***Ind. Eng. Chem. Res.*** 2015, *54,*11222. (IF=3.573)
19. C. Jiang, Y. Wang*, J. Yan, **J. Yang**, L. Xiao, H. Hao*. Formation Mechanism and Phase Transformation Behaviors of Pantoprazole Sodium Heterosolvate. ***Org. Process Res. Dev.*** 2015, *19,* 1752. (IF=3.584)

20. Q. Luan, Y. Wang, G. Wang, **J. Yang**, and H. Hao*. Measurement and Correlation of Solubility of Calcium-l-lactate Pentahydrate in Ethanol+ water and Acetone+ water Systems. ***J. Chem. Eng. Data*** 2014, *59*, 2642. (IF=2.196)

专利

1. **J. Yang**, X. Zhu, M. D. Ward, B. Kahr. Crystalline Forms of Deltamethrin and Methods of Use Thereof. (US patent, Provisional Patent Application filed, 62/906,346).
2. 王永莉, **杨景翔,** 郝红勋, 侯宝红，鲍颖，谢闯，王静康，尹秋响，龚俊波，张美景. 制备高纯度溴代沙坦联苯的结晶方法（已授权，专利号：ZL20131 0658495.2）.

科研项目

1. Engineering the Interface Between Contact Insecticides and Mosquitoes. (United States-Israel Binational Science Foundation, 30 万美元，子课题负责人, 2020)
2. Materials Research Science and Engineering Center (MRSEC) program -Molecular Crystal Growth Mechanisms (National Science Foundation, 1200 万美元，课题骨干成员，2015)
3. Growth Induced Crystal Curvature (National Science Foundation，46.5 万美元，主要完成人, 2016)
4. 核燃料后处理厂关键设备方案研究-连续沉淀反应器方案研究（中核集团，主要完成人, 2015）
5. L-色氨酸球形结晶技术开发研究(山东鲁抗，第一完成人, 2015)
6. 高纯度溴代沙坦联苯结晶过程研究与控制（江苏施美康，第一完成人, 2013）

国际会议与邀请报告

1. 邀请报告“球晶生长及其应用”,（天津大学，国家工业结晶工程技术研究中心，天津，中国）
2. 邀请报告, “晶体工程在媒介传播疾病控制方面的应用 *Crystal Engineering for Vector-borne Disease Control*”, (哈佛大学 Harvard T.H. Chan School of Public Health ,波士顿，美国) 2019
3. 邀请报告“昆虫与晶体的界面交互机理”,（西安交通大学，西安，中国） 2019
4. 2018 戈登科学会议-晶体工程（Gordon Research Conference-Crystal Engineering，纽里，缅因州，美国）——**最佳报告奖** 2018
5. 美国材料研究科学与工程中心（MRSEC）-微流体（2016 MRSEC Course- Microfluidics Technology, 布兰迪斯大学 Brandeis University，波士顿，美国） 2016
6. 纽约大学 X-ray 研讨会（NYU X-Ray Workshop，纽约，美国） 2016
7. 第 19 届工业结晶国际研讨会（ISIC19-International Symposium on Industrial Crystallization，法国，图卢兹）——**应邀口头报告** 2014

获奖与社会工作

1. 纽约科学院会员（Science Alliance Membership）
2. 戈登科学会议-晶体工程 最佳报告奖
3. MRSEC Research Award (10000.00 USD)
4. 国家留学基金委公派出国奖学金
5. 天津大学宝舜奖学金
6. 天津大学优秀学生干部
7. 天津大学三好学生
8. CrystEngComm, Fluid Phase Equilibri 等期刊审稿人
9. Frontiers in Chemistry 编委