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研究方向	1. 阻燃、抑燃、防火耐高温材料； 2. 生物可降/环保/医用材料； 3. 重金属/有机污染物吸附分离材料； 4. 光催化材料及新能源；								
主要科研项目及代表性成果(包括项目、论文、专著、获奖、专利等):									
科研项目： <ol style="list-style-type: none"> 全生物降解新型三嵌段共聚酯 X-PBA-X：自组装微相分离结构调控的 PBA 纳米受限、多晶型态及材料性能，天津市自然科学基金一般(面上)项目，主持，2020.4-2023.3，在研。 天津市自然科学基金多元投入面上项目：建筑防火封堵用宽温域陶瓷化阻燃硅橡胶泡沫的构筑及机理，参与，2022.10-2005.9，在研。 环境友好高分子材料聚己二酸丁二酯（PBA）的应用化制备及其多晶结构-球晶形貌-生物降解性的关系及调控机理，国家自然科学基金，主持，2014.1-2016.12，已结题。 PBA 聚集态结构对晶体形态、性能的影响及复合材料制备，天津市自然科学基金，主持，2015.4-2018.3，已结题。 日本废弃物处理处置技术及我国环保对策与出路，天津市高校聘请外专特色项目，主持，2014.5-2015.12，已结题。 纳米复合材料吸附水体重金属离子及机理探析，农业农村部产地环境污染防治重点实验室重点项目，主持，2018. 1-2020.12，已结题。 阻燃材料的成型加工及微观形貌分析，横向课题，主持，2019. 8 -2020.6，已结题。 新型功能材料对 Cd 污染土壤钝化修复效应与机制研究，横向课题，主持，2018.11-2019.12，已结题。 废铅膏直接悬浮电解技术及装备，国家重点研发计划项目，项目研究骨干，2020.1-2022.1，已结题。 									

代表性论文、著作、专利等:

SCI 英文论文 (按时间倒序):

56. Shang Ke, Lin Guide, Jiang Huijing, Jin Xing, Zhao Jin, Liu Dan, Zhao Bi, Yang Jinjun, Fu Teng, Wang Junsheng. Flame retardancy, combustion and ceramization behavior of ceramifiable flame retardant RTV silicone rubber foam. *Fire and Materials*. 2023, In press (DOI:10.1002/fam.3154)
55. Zhang Xiaolei, Yang Yubin, Li Meitong, Wu Jingxuan, Zhu Zhe, Bi Chengliang, Xie Yuhong, Wang Taoyun, Sun Yongyan Sun, Yin Jing Yin, Xie Zhanghua, Liu Fude, Wang Junsheng, Yang Jinjun (通讯作者). Modified β -cyclodextrin microspheres towards the application in intumscence fire resistance and smoke-suppressing of bio-based poly(L-lactic acid). *International Journal of Biological Macromolecules*. 2023, 234, 123666.
54. Wu Jingxuan, Yin Zhe, Sun Xiaoyu, Zhang Xiaolei, Zhu Zhe, Xu Zhen, Yang Jinjun (通讯作者), Xie Zhuanghua, Li Yanbo, Yang Xuemei, Huang Qianrui, Liu Juan, Wang Junsheng. Enhanced fire-proofing performance and crystallizability of bio-based poly(L-lactic acid): Dual functions of a Schiff base-containing synergistic flame retardant. *International Journal of Biological Macromolecules*. 2022, 222, 305-324.
53. Zhu Zhe, Guo Xiangyu, Rosendahl Lasse, Sohail Toor Saqib, Zhang Shuo, Sun Zhiqiang, Lu Sensen, Zhao Junying, Yang Jinjun, Chen Guanyi. Fast hydrothermal liquefaction of barley straw: Reaction products and pathways. *Biomass & Bioenergy*. 2022, 165, 106587.
52. Zhang Xiaolei, Wu Jingxuan, Xie Zhanghua, Zhang Qiaoqing, Wang Chen, Liu Fude, Yang Jinjun (通讯作者). Transcrystal, polymorphism, thermal stability and biodegradation of poly(1,4-butylene adipate) modulated by a nucleobase. *Journal of Polymers and the Environment*. 2022, 30: 3665–3676
51. Wu Jingxuan, Zhang Xiaolei, Xie Zhanghua, Zhang Qiaoqing, Wang Chen, Jiao Gangzhen, Yang Jinjun (通讯作者). Tunable polymorphic crystal modification, phase transition and biodegradability of poly(1,4-butylene adipate) by a bio-derived metabolite with low molecular weight. *Polymer Degradation and Stability*. 2022, 200, 109935
50. Wei Ziyu, Yi Yu, Luo Zhen, Gong Xiaoyun, Jiang Yuxing, Hou Dayong, Zhang Li, Liu Zimo, Wang Mandi, Wang Jie, Guo Ruochen, Yang Jinjun (通讯作者), Wang Lei, Wang Hao, Zhao Yuliang. Selenopeptide nanomedicine activates natural killer cell for enhanced tumor chemo-immunotherapy. *Advanced Materials*. 2022, 34, 2108167
49. Sun Xiaoyu, Li Lingling, Yang Yubin, Jia Chunfeng, Zhang Xiaolei, Wu Jingxuan, Zhu Zhe, Wang Junsheng, Yang Jinjun (通讯作者). Flame retardant effect of

hyperbranched phosphazene-based microspheres in poly(L-lactic acid). *Journal of Materials Science*. 2022. 57, 1516-1535

48. Zhou Shanshan, Yang Yubin, Zhu Zhe, Xie Zhanghua, Sun Xiaoyu, Jia Chunfeng, Liu Fude, Wang Junsheng, Yang Jinjun (通讯作者). Preparation of a halogen-free flame retardant and its effect on the poly(L-lactic acid) as the flame retardant material. *Polymer*. 2021, 229, 124027.

47. Yang Yubin, Zhu Zhe, Xie Zhanghua, Liu Fude, Yin Jing, Sun Xiaoyu, Jia Chunfeng, Yang Jinjun (通讯作者). Epitaxial nucleation, modulated structure of molecular aggregation and enhanced thermal degradation temperature of poly(ethylene adipate): Effects of the naturally occurring uracil as a nucleator. *Journal of Vinyl & Additive Technology*. 2021, 27, 757-767.

46. Sun Xiaoyu, Zhu Zhe, Xie Zhanghua, Liu Juan, Yin Jing, Yang Yubin, Jia Chunfeng, Liu Fude, Yang Jinjun (通讯作者). Self-assembly crystal, manipulated polymorphic crystalline structure and elevated thermal degradation temperature of poly(1,4-butylene adipate): Effects of an aryl bisamide-based compound. *Composites Communications*. 2021, 25, 100765.

45. Zhou Shanshan, Sun Yongyan, Ma Huimin, Jia Chunfeng, Sun Xiaoyu, Yang Yubin, Liu Juan, Yang Jinjun (通讯作者). Linear diamides derivative-nucleated biodegradable poly(ethylene succinate) polyester: Crystallization kinetics and aggregated structure manipulated by hydrogen bond interaction. *Journal of Polymers and the Environment*. 2021, 29, 3605–3617 (DOI: 10.1007/s10924-021-02141-2)

44. Jia Chunfeng, Zhou Shanshan, Xie Zhanghua, Wang Lukai, Yang Yubin, Sun Xiaoyu, Xie Yuhong, Yang Jinjun (通讯作者). Crystallization kinetics, aggregated structure and thermal stability of biodegradable poly(ethylene succinate) manipulated by a biocompatible layered metal phosphonate as an efficient nucleator. *Polymer International*. 2021, 70, 1264-1272.

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37. Tang Jingjing, Li Lingling, Wang Xiaomin, **Yang Jinjun** (通讯作者), Liang Xueqing, Li Yuqin, Ma Huimin, Zhou Shanshan, Wang Junsheng. Tailored crystallization behavior, thermal stability and biodegradability of poly(ethylene adipate): Effects of a bio-compatible diamide nucleating agent. *Polymer Testing*. 2020, 81, 106116.
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23. Hua Lei, Chen Qixian, Yin Jing, Zhang Chunqiu, Wang Xiaoli, Yin Jiandao, Feng Xin, Yang Jinjun (通讯作者). Fabrication and physical properties of poly(ϵ -caprolactone)/modified graphene nanocomposite. *Macromolecular Materials and Engineering*. 2017, 302, 1600328-1600338.
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polymorphic crystalline structure and enzymatic degradation of poly(butylene adipate): Effects of layered metal phosphonate. *European Polymer Journal*. 2015, 72: 222-237.

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1. **Yang Jinjun**, Li Zhenguo, Pan Pengju, Zhu Bo, Dong Tungalag, Inoue Yoshio. Temperature-dependent polymorphic crystalline structure and melting behavior of poly(butylene adipate) investigated by time-resolved FTIR spectroscopy. *Journal of Polymer Science, Part B: Polymer Physics*. 2009, 47(20): 1997-2007.

著作:

《食品包装学》(负责编写食品绿色包装材料等章节), 普通高等教育“十二五”规划教材, 食品科学与工程系列教材; 科学出版社, ISBN: 978-7-03-043801-0

专利:

1. 一种用于红外光谱仪样品附件的沥青涂抹取样装置。谢樟华, 杨进军; ZL 202120740173.2
2. 红外光谱模块自动识别装置。谢樟华, 杨进军; ZL 202120739949.9
3. 一种红外光谱仪用新型压片机。谢樟华, 杨进军; ZL 202120740160.5
4. 一种新型红外光谱仪防潮箱。谢樟华, 杨进军; ZL 202120739863.6

5. 一种超灵敏响应活性氧的自组装硒肽及其制备方法和应用，杨进军，张丽，
张桥清，王晨；申请号：202310396653.5

6. 一种靶向线粒体的自组装硒肽纳米材料及其制备方法和应用，杨进军，张丽，
张桥清，王晨；申请号：202310396873.8

7. 一种聚(对苯二甲酸丁二醇-co-己二酸丁二醇)酯(PBAT)基复合材料的制备方
法。杨进军，梁榕，陈依纯，孔睿，王晓敏；201710159232.5

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法》（中国工程建设标准化协会标准），标准编号：T/CECS 10218-2022，2023 年 2
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主要获奖及荣誉：

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2. 天津市第八届教学成果二等奖：《资源循环科学与工程》创新应用型人才培养
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5. 天津市工程专业优秀硕士学位论文指导教师（2020-2021 年度）；
6. 天津理工大学优秀硕士毕业论文指导教师，2016/2018/2021/2022 年；
7. 天津理工大学优秀本科毕业论文（一等奖）指导教师，2014/2016/2021 年；
8. 天津理工大学优秀本科毕业论文（二等奖）指导教师，2019 年；