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出生年月： 1957 年 11 月
学 位： 博士
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个人介绍

长期从事高分子材料，超分子聚合物和可降解生物材料等方面的研究工作。在“七五”和“八五”期间作为课题负责人之一承担了国家“八六三”计划和总装备部预研项目“以环氧乙烷-四氢呋喃共聚醚为预聚物的聚氨酯高填充复合材料的研制”课题，该项目于 1997 年获兵器总公司科技进步一等奖。在此期间还先后获得国家科委“八六三”计划先进个人和兵器总公司优秀青年教师荣誉称号。自 2004 年以来，连续获得四项国家自然科学基金面上项目和一项国家自然科学基金国际合作基金的支持，在基于环糊精的超分子自组装领域开展了一系列创新性的工作。与此同时，在多项“863”计划和北京市科委重大计划的支持下，在可降解生物材料的合成，组织工程人工血管支架的制备等方面也开展了许多有价值的工作。

教育经历

1978.03~1982.08 合肥工业大学化工系高分子化工专业，大学本科
1982.09~1985.10 北京理工大学化工与材料学院材料学专业，硕士研究生
1985.09~1988.10 北京理工大学化工与材料学院材料学专业，博士研究生

工作经历

1988.11~ 北京理工大学，讲师，副研究员，研究员

研究领域

超分子聚合物
可降解生物材料的制备
响应型的水凝胶载药系统
组织工程支架制备

社会任职

Frontier. Mater. Sci. China, 编委

获奖情况

1997年，“环氧乙烷-四氢呋喃共聚醚为预聚物的聚氨酯高填充复合材料的研制”，中国兵器工业总公司部级科技进步一等奖，

1996年，国家科委“八六三”计划先进个人

1995年，兵器总公司优秀青年教师

科研项目

- 国家自然科学基金面上项目环糊精自组装超分子结构可降解水凝胶的研究(20374008)，2004-2006，项目负责人
- 国家自然科学基金面上项目采用巯基-乙烯基单体聚合反应制备环糊精聚轮烷的研究(20674006),2007-2009,项目负责人
- 国家自然科学基金面上项目 γ -环糊精双链包结聚轮烷的合成研究(20974015)，2010-2012，项目负责人
- 国家自然科学基金面上项目环二肽凝胶因子的分子设计、合成及其作为药物控释载体的研究(21174018)，2012-2015，项目负责人
- 国家自然科学基金国际交流合作项目，基于巯基化多糖和环糊精聚轮烷的刺激响应性水凝胶作为药物载体的研究(20711140361)，2007-2009，项目负责人
- 国家高技术研究发展计划(“863”计划)，小口径组织工程血管的基础及应用研究(2006AA02A134)，2006-2010，子项目负责人
- 国家高技术研究发展计划(“863”计划)，心血管修复用纳米生物材料研发(2007AA021905)，2007-2010，子项目负责人

论文专著

五年来的主要论文

2011年度

1. Heparin-Conjugated PCL Scaffolds Fabricated by Electrospinning and Loaded with Fibroblast Growth Factor 2
Lin Ye, Xin Wu, Qian Mu, Bing Chen, Yonghong Duan, Xue Geng, Yongquan Gu, Aiyong Zhang, Jian Zhang, Zeng-guo Feng*
Journal of Biomaterials Science, Polymer Edition. 2011, 22(1-3):389-406
2. Novel polyrotaxanes comprising γ -cyclodextrins and Pluronic F127 end-capped with poly(N-isopropylacrylamide) showing solvent-responsive crystal structures
Jin Wang, Peng Gao, Pei-jing Wang, Lin Ye, Ai-ying Zhang, Zeng-guo Feng*
Polymer 2011, 52 (2): 347-355
3. Novel triblock copolymers comprising a polyrotaxane middle block flanked by PNIPAAm blocks showing both thermo- and solvent-response
Jin Wang, Lin Ye, Ai-ying Zhang and Zeng-guo Feng*
Journal of Materials Chemistry, 2011, 21(9): 3243-3250
4. Dual thermo-responsive polyrotaxane-based triblock copolymers synthesized via ATRP of N-isopropylacrylamide initiated with self-assemblies of Br end-capped Pluronic F127 with β -cyclodextrins
Jin Wang, Peng Gao, Lin Ye, Ai-ying Zhang and Zeng-guo Feng*
Polymer Chemistry, 2011, 2(4):931-940
5. Electrospinning and biocompatibility evaluation of biodegradable polyurethanes based on L-lysine

diisocyanate and L-lysine chain extender

Jian Han (博士生), Run-Wu Cao, Bing Chen, Lin Ye, Ai-Ying Zhang, Jian Zhang and Zeng-Guo Feng*

Journal of Biomedical Materials Research Part A, 2011, 96(4): 705-714

2010 年度

1. 具有抗凝性能的肝素化 ϵ -己内酯/L-丙交酯共聚酯合成及其电纺丝加工

耿雪, 叶霖, 陈兵, 王培境, 张爱英, 张建, 冯增国*

高等学校化学学报 2010, 31(1):205-211

2. End-capping double-chain stranded polypseudorotaxanes using lengthily tunable poly(2-hydroxyethylmethacrylate) blocks via atom transfer radical polymerization

Xinming Tong, Peng Gao, Xiaowen Zhang, Lin Ye, Ai-ying Zhang and Zeng-guo Feng*

Polym Int 2010, 59: 917-922

3. 含碘聚甲基丙烯酸酯类 X 光显影材料的制备

王湘, 叶霖, 张爱英, 冯增国*

应用化学 2010, 27(4):413-417

4. Solvent- and Thermoresponsive Polyrotaxanes with β -Cyclodextrin Dispersed/Aggregated Structures on a Pluronic F127 Backbone

Jin Wang, Peng Gao, Lin Ye, Ai-ying Zhang and Zeng-guo Feng*

J. Phys. Chem. B, 2010, 114(16): 5342-53496.

5. Initiator-free photocrosslinking of electrospun biodegradable polyester fiber based tubular scaffolds and their cell affinity for vascular tissue engineering

Lin Ye, Xin Wu, Xue Geng, Yong-hong Duan, Yong-quan Gu, Ai-ying Zhang, Jian Zhang and Zeng-guo Feng*

Chinese Journal of Polymer Science 2010, 28(5): 829-840

2009 年度

1. Synthesis and characterization of block copolymers comprising a polyrotaxane middle block flanked by two brush-like PCL blocks

Xinming Tong, Xiaowen Zhang, Lin Ye, Ai-ying Zhang, Zeng-guo Feng*

Soft Matter, 2009, 5:1848-1855

2. Organo- and hydrogels derived from cyclo(L-Tyr-L-Lys) and its ϵ -amino derivatives

Zhiguo Xie, Aiyong Zhang, Lin Ye and Zeng-guo Feng*

Soft Matter, 2009, 5: 1474-1482

3. Long-Term Investigation on Hydrolytic Degradation and Morphology of Poly(ethylene glycol terephthalate)-b-Poly(butylene terephthalate) Copolymer Films

Aiyong Zhang*, Zeng-guo Feng, Zhiguo Xie

Journal of Applied Polymer Science, 2009, 111:1462-1470

4. Synthesis and characterization of poly(amino acid-urea)s comprising novel triblock copolymers of poly(tetrahydrofuran) and poly(γ -benzyl L-Glutamate)s

Hai-bin Li, Zhen Tian, Ai-ying Zhang, Zeng-guo Feng*

Chinese Journal of Polymer Science 2009, 27(3): 317-325

5. Synthesis and Characteristics of a Silicon-Containing Polymer, Manufacture of an Electrolyte

Membrane from the Polymer and Poly(vinylidene fluoride-co-hexafluoropropene), and Property Testing of the Membrane

- Lin Ye, Ling Ju, Chuan Wu, Ting Feng, Wei Mo, Feng Wu, Ying Bai, Zeng-guo Feng*
Journal of Applied Polymer Science, 2009, 114:1086-1093
6. Electrospinning of synthesized triblock copolymers of ϵ -caprolactone and L-lactide for the application of vascular tissue engineering
Rong-Xin Qiu, Chun-Min Li, Lin Ye, Jian-De Dong, Ai-Ying Zhang, Yong-Quan Gu, Zeng-Guo Feng*
Biomed. Mater. 2009, 4(4): 044105
7. Shear-assisted hydrogels based on self-assembly of cyclic dipeptide derivatives
Zhiguo Xie, Aiyong Zhang, Lin Ye, Xiang Wang, Zeng-guo Feng*
J. Mater. Chem. 2009, 19: 6100-6102
8. Preparation and self-assembly of amphiphilic triblock copolymers with polyrotaxane as a middle block and their application as carrier for the controlled release of Amphotericin B
Xiaowen Zhang, Xingqi Zhu, Fuyou Ke, Lin Ye, Er-qiang Chen, Ai-ying Zhang, Zeng-guo Feng*
Polymer 2009, 50: 4343-4351
9. Synthesis and characterization of novel glucose- and lactose-containing methacrylate-based radiopaque glycopolymers
Xiang Wang, Xue Geng, Lin Ye, Ai-ying Zhang, Zeng-guo Feng*
Reactive & Functional Polymers 2009, 69: 857-863
10. The self-aggregation behaviour of amphotericin B-loaded polyrotaxane-based triblock copolymers and their hemolytic evaluation
Xiaowen Zhang, Fuyou Ke, Jian Han, Lin Ye, Dehai Liang, Ai-ying Zhang, Zeng-guo Feng*
Soft Matter, 2009, 5, 4797-4803
- 2008 年度
1. Vesicular and Tubular Structures Prepared from Self-Assembly of Novel Amphiphilic ABA Triblock Copolymers in Aqueous Solutions
Zhen Tian, Haibin Li, Meng Wang, Aiyong Zhang, Zengguo Feng*
Journal of Polymer Science: Part A: Polymer Chemistry, 2008, 46: 1042-1050
2. Preparation and evaluation of novel amphiphilic glycopeptide block copolymers as carriers for controlled drug release
Zhen Tian, Meng Wang, Ai-ying Zhang, Zeng-guo Feng*
Polymer, 2008, 49: 446-454
3. Preparation and Evaluation of Two Kinds of Solid Polymer Electrolytes Made from Crosslinked Poly(ether urethane) Elastomers Consisting of a Comb-Like and a Hyperbranched Polyether
Lin Ye, Peng Gao, Yu-mei Zhao, Zeng-guo Feng*, Ying Bai, Feng Wu
Journal of Applied Polymer Science, 2008, 109(3):1955-1961
4. Novel Main-Chain Polyrotaxanes Synthesized Via ATRP of HPMA in Aqueous Media
Xiaowen Zhang, Xingqi Zhu, Xingming Tong, Lin Ye, Ai-Ying Zhang, Zeng-guo Feng*
Journal of Polymer Science: Part A: Polymer Chemistry, 2008, 46: 5283-5293
5. Novel main-chain polyrotaxanes synthesized via ATRP of HEMA initiated with polypseudorotaxanes comprising BriB-PEG-iBBr and -CDs
Xinming Tong, Xiaowen Zhang, Lin Ye, Ai-ying Zhang, Zeng-guo Feng*
Polymer 2008, 49:4489-4493
6. Synthesis and characterization of polyrotaxanes made from α -CDs threaded onto triblock copolymers

with PEG as a central axle and flanked by two low molecular weight polystyrenes as outer stoppers

Xin-ming Tong, Dan-dan Hou, Xiao-wen Zhang, Lin Ye, Ai-ying Zhang, Zeng-guo Feng*

Chinese Journal of Polymer Science 2008, 26 (6): 723-732

7. Preparation and evaluation of a linoleic-acid-modified amphiphilic polypeptide copolymer as a carrier for controlled drug release

Zhen Tian, Ai-Ying Zhang, Lin Ye, Meng Wang, Zeng-guo Feng*

Biomed. Mater. 2008,3 (4): 044116

8. 新型 X-光显影含糖聚合物的合成与表征研究

王湘, 耿雪, 叶霖, 张爱英, 冯增国*

高等学校化学学报 2008, 29(2):426-429

9. 通过麦克加成反应形成的三臂聚乙二醇丙烯酸酯可注射水凝胶的制备与表征

侯丹丹 (博士生), 郝彤, 叶霖, 张爱英, 王常勇, 冯增国*

高分子学报 2008, (4): 388-393

10. ϵ -己内酯与 L-丙交酯共聚物的合成及其电纺丝加工初步研究

邱荣鑫 (博士生), 齐立行, 彭丹丽, 韩健, 叶霖, 谷涌泉, 冯增国*

高分子学报 2008(12):1142-1148

11. 一类 Fmoc 保护二肽醇类凝胶因子的合成与凝胶化研究

谢志国 (博士生) 张爱英 叶霖 冯增国*

化学学报 2008, 66(23):2620-2624

2007 年度

1. Preparation and characterization of novel hybrid thermoplastic poly(ether urethane)/poly(vinylidene fluoride) elastomers, and their application as solid polymer electrolytes

Ye Lin, Qin Qian, Feng Zeng-Guo*, Zhang Xiao-Wen, Bai Ying and Wu Feng

Polymer International 2007, 56(5): 660-665

2. Synthesis and application as polymer electrolyte of hyperbranched copolyethers derived from cationic ring-opening polymerization of 3-{2-[2-(2-methoxyethoxy)ethoxy]ethoxy)methyl- and 3-hydroxymethyl-3'-methyloxetane

Lin Ye, Peng Gao, Feng Wu, Ying Bai and Zeng-guo Feng*

Polymer 2007, 48(6): 1550-1556

3. Composite hydrogels filled with inclusion complexes made from β -cyclodextrins with poly(propylene glycol) bisamine

Huaiqing Yu, Hongliang Wei, Dandan Hou, Ai-ying Zhang and Zeng-guo Feng*

Current Applied Physics 2007, 7(Supplement 1): e116-e119

4. A kind of novel biodegradable hydrogel made from copolymerization of gelatin with polypseudorotaxanes based on α -CDs

Dandan Hou, Xinming Tong, Huaiqing Yu, Ai-ying Zhang, Zeng-guo Feng*

Biomed. Mater. 2007, 2: S147-S152

专著与教材:

•Lin Ye and Zengguo Feng*. Polymer electrolytes as solid solvents and their application, Chapter. 14 of Polymer electrolytes-Fundamentals and applications edited by Cesar Sequeira and Diogo Santos.

Cambridge: Woodhead Publishing Limited, 2010

专 利

1. 冯增国, 韩健, 叶霖, 张爱英, 一种可降解无毒医用聚氨酯材料及其制备方法 (公开号: CN101654508A)
2. 冯增国, 李海宾, 田振, 张爱英. ABA 型聚肽-b-聚四氢呋喃-b-聚肽三嵌段共聚物的合成(授权号: CN100365043C)
3. 冯增国, 田振, 李海宾, 张爱英. 由聚肽-聚四氢呋喃-聚肽三嵌段共聚物制备纳米及微米级自组装体. (授权号: CN 100389140)

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