



Hong Zhang, female, professor, master Instructor. Born in December 1971. Graduated from Dalian University of Technology School of Civil and Hydraulic Engineering Materials Science in December 2008, PhD. Review experts of Dalian City science and technology project. The backbone of Polymer materials and engineering application personnel training teaching team and functional fiber material research team.

The main academic direction is the chemical fiber and biomass fiber material molding and modification, synthesis and preparation of functional and intelligent polymer materials. In the past five years, she presided over five projects, including Liaoning Provincial Natural Science Foundation, Liaoning Provincial Department of Education Project, Dalian Science and Technology Research Project, Dalian Science and Technology Fund Project and Dalian City Construction Committee

project, presided over two horizontal cooperation development projects. Bear more than 10 items of longitudinal research projects and horizontal research projects, including the National Natural Science Foundation of China, Liaoning Key Laboratory Project, Dalian Science and Technology Project, etc.

Presided over the scientific research achievements:

1. Based on cross-linked network of phase change composite materials and industrialization of key technologies, 2015, China Light Industry Federation of Science and Technology Invention first prize.

2. Key Technology and Industrialization of Phase Change Composites Based on Crosslinked Networks, 2015, Dalian Technological Invention Second Prize.

3. Preparation of PNHMPA/PEG Interpenetrating Polymer Networks Gel and Its Application for Phase Change Fibers , 2014 , Liaoning Province Natural Science Academic Achievement Award second prize.

4. Preparation and characterization of heat-storage and thermo regulated composite material by reaction extrusion, 2014, Dalian Natural Science outstanding academic papers, third prize.

Presided over the research project:

(1) Liaoning Province Natural Science Foundation of China: Polyaniline / polypropylene conductive fiber reinforced concrete composite materials;

(2) Dalian Science and Technology Fund Project: Development of new thermal storage and thermoregulation fibers;

(3) Dalian Science and Technology Project: Research on industrialization of key technologies of multifunctional medical alginate-based fiber ;

(4) Dalian City Construction Committee Project: Research and development of phase change energy storage flexible thermal insulation coating;

(5) Horizontal development projects: Three-dimensional gel network carrier and a phase-change composite material, Wenzhou Fiber Technology Co., Ltd.;

(6) Horizontal development projects: Technology development of phase change energy storage flexible thermal insulation coating, Langfang Libang Coatings Co., Ltd.

Authorized invention patents:

(1) Three-dimensional gel network carrier and a phase-change composite material ZL200910187628.6

(2) A preparation method of double-terminal end-group-changing monomer ZL201010566078.1

(3) An preparation method of interpenetrating network type-changing phase-change material ZL201010563368.0

(4) Preparation of solid-solid phase change materials supported by

- chemical cross-linking ZL201110286793.4
- (5) An intelligent temperature regulating fiber and its preparation method ZL201110286863.6
- (6) A phase change temperature control, moisture absorption and perspiration multifunctional comfort fiber ZL201110286397.1
- (7) Preparation of a regenerative temperature regulating fiber ZL201110310334.5
- (8) Dual network reinforced calcium alginate fiber and its preparation method ZL201410014719.0
- (9) Acrylamide network enhanced calcium alginate fiber and its preparation method ZL201410015517.8
- (10) A Multivariate composite solid-solid phase change material and its preparation method ZL201110388277.2
- (11) Calcium Alginate / Polyethylene Glycol Ester Dual Network Phase Change Energy Storage Fibers and Its Preparation Method ZL201410016578.6

Published papers:

[1] Hong Zhang*, Dike Sun, Qianqian Wang, Jing Guo, Yumei Gong. Synthesis and Characterization of Polyethylene Glycol Acrylate Crosslinking Copolymer as Solid-Solid Phase Change Materials. Journal of Applied Polymer Science, 2014, 131 (6): 2524-2530

[2] Hong Zhang*, Shurui Yang, Hui Liu, Yanping Fang, Shuwen

Jiang, Jing Guo, Yumei Gong.Preparation of PNHMPA/PEG Interpenetrating Polymer Networks Gel and Its Application for Phase Change Fibers. Journal of Applied Polymer Science , 2013 , 129(3):1562-1568

[3] Miaomiao Li, Yumei Gong*, Aichao Lyu, Yuanfa Liu*, Hong Zhang*.The applications of populus fiber in removal of Cr(VI) from aqueous solution, Applied Surface Science, 2016, 383 133 - 141

[4] Hong Zhang*,Xiaohua Wu. Study on the Preparation of Polyaniline/Polypropylene Conductive Fibers. Rare Metal Materials and Engineering, 40 (3): 253-256

[5] Hong Zhang *, Xiaohua Wu, Qianqian Wang, Xiaolei Wang. Structure and properties of blends of PP / MMT phase change materials. Polymer Materials Science and Engineering, 2011,27 (7): 76-79

[6] Hong Zhang, Likuang Wang. Structure and properties of polyaniline / polypropylene composite conductive fibers. Macromolecular Materials Science and Engineering, 2008, 06: 132-1356

[7] Hong Zhang, Li-jiu Wang, Shan-yu Zhao, Hui Liu. Conductive mechanism of PANI / PP composite conductive fibers in asphalt concrete. Journal of Dalian University of Technology, 2010,04: 564-569

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