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工作经历

时间	任职单位	职务
2014年-至今	上海交通大学航空航天学院	副教授、研究员
2008年-2014年	化学化工学院	副教授
2004年-2008年	上海交通大学化学化工学院	讲师

教育背景

时间	毕业院校	学历
2001年-2004年	上海交通大学	博士
1998年-2001年	南京化工学院	硕士
1994年-1998年	南京化工学院	本科

研究方向

- (1) 先进燃料；
- (2) 高分子复合材料；
- (3) 纳米材料；
- (4) 功能高分子。

主要科研项目

(1) 国家自然科学基金面上项目, 21274092、基于膦腈的有机无机杂化交联聚合物自组装及其功能化、2013/01-2016/12、80万元、在研、主持;

(2) 国家科技重大专项, 1100003、新能源研究、2012/01-2012/12、80万元、已结题、主持;

(3) 国家自然科学基金重点项目, 51133003、热固性树脂中纳米尺度上微结构形成及其材料结构与性能关系的基本问题研究、2012/01-2016/12、290万元、在研、第二参与者;

(4) 清华大学先进成形制造教育部重点实验室开放基金, 2010003、基于膦腈的新颖碳纳米管的制备及应用研究、2011/07-2013/06、2万元、在研、主持;

(5) 国家科技重大专项, 1100001、能源研究、2010/01-2012/12、120万元、已结题、主持;

(6) 上海市自然科学基金, 10ZR1416100、基于膦腈的新型纳米碳纤维制备及形成机理研究、2010/04-2012/03、10万元、已结题、主持。

代表性论文专著

(1) Chen, Kuiyong, Huang Xiaobin, Wan Chaoying, Liu Hong, Oxygen reduction catalysts formed of cobalt phosphide nanoparticles decorated heteroatoms-doped mesoporous carbon nanotubes. *Chemical Communications*. 2015; 51:7891-7894

(2) Chen, Kuiyong, Wan Chaoying, Wei Wei, Huang Xiaobin, Convenient one-pot approach for the preparation of novel atomically thin two-dimensional polymeric nanosheets, and its evolution in aqueous solution. *Materials Letters*. 2015; 139: 93-97

(3) Chang Fuqiang, Huang Xiaobin, Wei Hao, Chen Kuiyong, Shan Congcong, Tang Xiaozhen, Intrinsically fluorescent hollow spheres based on organic-inorganic hybrid polyphosphazene material: Synthesis and application in drug release, *Materials Letters*. 2014; 125: 128-131

(4) Huang Xiaobin, Wei Wei, Wei Hao, Li Yonghua, Gu Xiaojun, Tang Xiaozhen, Preparation of heat-moisture resistant epoxy resin based on phosphazene, *Journal of Applied Polymer Science*, 2013, 130(1):248-255

(5) Chen, Kuiyong, Huang Xiaobin, Wei Hao, Tang Xiaozhen, Fabrication of core/shell structured NaYF₄:Yb³⁺, Er³⁺/polyphosphazene upconversion nanophosphors functionalized with abundant active amino groups, *Materials Letters*, 2013, 101:54-56

- (6) QianJiping, Wei Wei, Huang Xiaobin, Tao Yiming, Chen Kuiyong, Tang Xiaozhen , A study of different polyphosphazene-coated carbon nanotubes as a Pt-Co catalyst support for methanol oxidation fuel cell , *Journal of Power Sources*, 2012, 210:345-349
- (7) Wei Wei, Huang Xiaobin, Tao Yiming, Chen Kuiyong, Tang Xiaozhen , Enhancement of the electrocapacitive performance of manganese dioxide by introducing a microporous carbon spheres network , *Physical Chemistry Chemical Physics*, 2012, 14(17):5966-5972
- (8) Wei Wei, Huang Xiaobin, Chen Kuiyong, Tao Yiming, Tang Xiaozhen , Fluorescent organic-inorganic hybrid polyphosphazene microspheres for the trace detection of nitroaromatic explosives , *Rsc Advances*, 2012, 2(9):3765-3771
- (9) Pan Tingjun, Huang Xiaobin, Wei Hao, Tang Xiaozhen , Controlled Fabrication of Uniform Hollow Bowl-Shaped Microspheres Based on Polyphosphazene Material , *Macromolecular Chemistry and Physics*, 2012, 213(24):2606-2610
- (10) Pan Tingjun, Huang Xiaobin, Wei Hao, Wei Wei, Tang Xiaozhen, Intrinsically Fluorescent Microspheres with Superior Thermal Stability and Broad Ultraviolet-Visible Absorption Based on Hybrid Polyphosphazene Material, *Macromolecular Chemistry and Physics*, 2012, 213(15):1590-1595
- (11) Liu Wei, Huang Xiaobin, Wei Hao, Tang Xiaozhen, Zhu Lu , Intrinsically fluorescent nanoparticles with excellent stability based on a highly crosslinked organic-inorganic hybrid polyphosphazene material , *Chemical Communications*, 2011, 47(41):11447-11449
- (12) Liu Wei, Huang Xiaobin, Wei Hao, Chen Kuiyong, Gao Jinxu, Tang Xiaozhen , Facile preparation of hollow crosslinked polyphosphazene submicrospheres with mesoporous shells , *Journal of Materials Chemistry*, 2010, 21(34):12964-12968
- (13) Chen Kuiyong, Huang Xiaobin, Tang Xiaozhen, Zhu Lu , Study on the Organic-Inorganic Hybrid Polyphosphazene Nanotube as a Flame Retardant for Polypropylene, *Journal of Macromolecular Science Part B-Physics*, 2011, 51(1-3):269-274
- (14) Gu Xiaojun, Huang Xiaobin, Wei Hao, Tang Xiaozhen , Synthesis of novel epoxy-group modified phosphazene-containing nanotube and its reinforcing effect in epoxy resin , *European Polymer Journal*, 2011, 47(5) : 903-910
- (15) Zhang Jiawei, Huang Xiaobin, Wei Hao, Fu Jianwei, Huang Yawen, Tang Xiaozhen , Enhanced electrochemical properties of polyethylene oxide-based composite solid polymer

electrolytes with porous inorganic-organic hybrid polyphosphazene nanotubes as fillers ,
Journal of Solid State Electrochemistry, 2011, 16(1):101-107

(16) Zhang Jiawei, Huang Xiaobin, Wei Hao, Fu Jianwei, Liu Wei, Tang Xiaozhen ,
Preparation and electrochemical behaviors of composite solid polymer electrolytes based on
polyethylene oxide with active inorganic-organic hybrid polyphosphazene nanotubes as fillers,
New Journal of Chemistry, 2011, 35(3); 614-621

(17) Huang Xiaobin, Wei Wei, Zhao Xiaoli, Tang Xiaozhen , Novel preparation
of polyphosphazene-coated carbon nanotubes as a Pt catalyst support ,
Chemical Communications, 2010, 46(46):8848-8850

(18) Liu Wei, Zheng Yuanli, Li Jing, Liu Li, Huang Xiaobin, Zhang Jiawei, Kang Xiaoqi, Tang
Xiaozhen , Novel polyurethane networks based on hybrid inorganic/organic phosphazene-
containing nanotubes with surface active hydroxyl groups , *Polymers for Advanced
Technologies*, 2010, 23(1):1-7

(19) Huang Xiaobin, Wei Wei, Li Jing, Zheng Yuanli, Zhou Yubo, Tang Xiaozhen ,
Synthesis and Characterization of Novel Polyurethanes Based on Fluorine-
Containing Polyphosphazene , *Journal of Applied Polymer Science*, 2010, 120(2):1145-1151

(20) Huang Xiaobin, Chen Kuiyong, Li Jing, Zheng Yuanli, Jiang Jingui, Tang Xiaozhen ,
Synthesis of biodegradable poly(methylparaben/glycine ethyl ester) phosphazene and further
research of its degradation in vitro , *Science China Chemistry*, 2010, 54(3):426-430

(21) Liu Fengfeng, Wei Hao, Huang Xiaobin, Zhang Jiawei, Zhou Yubo, Tang Xiaozhen ,
Preparation and Properties of Novel Inherent Flame-Retardant Cyclotriphosphazene-
Containing Epoxy Resins , *Journal of Macromolecular Science Part B-Physics*, 2010, 49(5):1002-
1011

(22) Gu Xiaojun, Wei Hao, Huang Xiaobin, Tang Xiaozhen , Synthesis and Characterization of
a Novel Curing Agent for Epoxy Resin Based on Phosphazene Derivatives , *Journal of
Macromolecular Science Part A-Pure and Applied Chemistry*, 2010, 47(8):828-832

(23) Liu Wei, Jin Jing, Huang Xiaobin, Zheng Yaochen, Zhang Jiawei, Fu Jianwei, Huang
Yawen, Tang Xiaozhen , A facile strategy for the functionalization of poly[cyclotriphosphazene-
co-(4,4'-sulfonyldiphenol)] materials , *Polymer International*, 2010, 59(9):1252-1257

(24) Zhang Jiawei, Huang Xiaobin, Wei Hao, Fu Jianwei, Huang Yawen, Tang Xiaozhen ,
Effect of surface modified porous inorganic-organic hybrid polyphosphazene nanotubes on

the properties of polyethylene oxide based solid polymer electrolytes , *Electrochimica Acta*, 2010, 55(20):5966-5974

(25) Zhang Jiawei, Huang Xiaobin, Wei Hao, Fu Jianwei, Huang Yawen, Tang Xiaozhen , Novel PEO-based solid composite polymerelectrolytes with inorganic-organic hybrid polyphosphazene microspheres as fillers , *Journal of Applied Electrochemistry*, 2010, 40(8):1475-1481

(26) Zhang Peng, Huang Xiaobin, Fu Jianwei, Huang Yawen, Tang Xiaozhen , Fabrication of Amino-Terminated Multiwalled Carbon Nanotubes via Layer-by-Layer Self-Assembly Approach , *Macromolecular Materials and Engineering*, 2010, 295(5):437-441

(27) Zhang Jiawei, Huang Xiaobin, Fu Jianwei, Huang Yawen, Liu Wei, Tang Xiaozhen , Novel PEO-based composite solid polymerelectrolytes incorporated with active inorganic organic hybrid polyphosphazene microspheres , *Materials Chemistry and Physics*, 2010, 121(3):511-518

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