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人才队伍

- 院士专家
- 名誉教授和客座教授
- 杰出青年
- 百人计划
- 研究员
- 博士后流动站
- 人才招聘



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姓名:	张丽萍	性别:	女
职务:	所长	职称:	研究员
学历:	理学博士	通讯地址:	中国科学院理化技术研究所
电话:	010-82543761 (o)	邮政编码:	100190
传真:	无	电子邮件:	lpzhang@mail.ipc.ac.cn
主页:	无		



简历:

张丽萍 女, 1964年出生于吉林省长春市。1987年毕业于北京师范大学化学系, 1990年进入原中国科学院感光化学研究所学习, 93年获物理化学理学硕士学位、96年获有机化学理学博士学位。96至98年, 在韩国化学研究所医学药学部做博士后, 主要从事治疗心脑血管疾病与抗癌药物中间体的光化学合成新方法与新技术的研究与开发工作。2000年应日本学术振兴会的邀请赴日本广岛大学理学部做高级访问教授。现任中国科学院理化技术研究所所长、博士生导师并担任所科技委员会委员、所学位委员会委员、所人才招聘小组成员。长期从事有机光化学与合成光化学方面的研究工作。其中包括特殊微反应器中光化学与光物理行为的研究、利用特殊微反应器等手段提高光化学反应选择性的研究、分子内远程光诱导电子转移和能量传递的研究、光化学合成新方法和新技术的研究等, 取得一系列创新性成果。在“J. Am. Chem. Soc.”、“J. Phys. Chem.”等国内外核心期刊发表论文六十余篇, 受到国内外同行专家的广泛关注。并出色参加和完成国家自然科学基金项目4项、科学院“九五”重大项目1项、科学院重点创新项目1项、973项目1项、863项目1项。

研究领域:

本研究室多年从事有机光化学和光物理过程的研究, 在光化学反应中的微环境效应和磁场效应、疏水作用和疏脂作用, 分子聚集体中的光化学和光物理、主客体化合物的光化学以及光诱导电子转移和能量传递等方面进行了系统研究, 取得许多创新性结果。重点研究领域包括: (1) 超分子体系内远程光诱导电子转移和能量传递的研究; (2) 纳米反应器中光化学反应立体选择性的研究; (3) 光化学合成新方法和新技术的应用开发研究; (4) 有机光功能材料的分子设计及应用研究。

社会任职:

获奖及荣誉:

代表论著:

主要代表论著目录: 1、C.-H. Tung, L.-P. Zhang, Y. Li, H. Cao, Y. Tanimoto, “Benzophenone-Initiated Photoisomerization of the Norbornadiene Group in a Benzophenone- Steroid-Norbornadiene System via Long-Distance Intramolecular Triplet Energy Transfer”, J. Phys. Chem., 1996, 100, 4480. 2、C.-H. Tung, L.-P. Zhang, Y. Li, H. Cao, Y. Tanimoto, “Intramolecular Long-Distance Electron Transfer and Triplet Energy Transfer. Photophysical and Photochemical Studies on a Norbornadiene-Steroid-Benzidine System”, J. Am. Chem. Soc., 1997, 5348. 3、Ming Xu, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Enhancement of Photoinduced Intramolecular Cross-Cycloaddition of a-(9-Anthryl)-w-(1-Naphthoyl) End-labeled Poly(ethylene glycol) via Lipophobic Interactions and Complexation with Metal Cations”, Tetrahedron Letters, 2001, 42, 9249-9252. 4、Xiao-Hong Li, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, Chi-Ming Che, “Luminescence and Photocatalytic Properties of a Platinum(II)-Quaterpyridine Complex Incorporated in Nafion Membrane”, Chemical Communications, 2001, 2280-2281. 5、Da-Yong Wu, Li-Ping Zhang, Li-Zhu Wu, Bo-jie Wang, Chen-Ho Tung, “Water-in-Oil Microemulsions as Microreactors to Control the Regioselectivity in the Photocycloaddition of 9-Substituted Anthracenes” Tetrahedron Lett., 2002, 43(7), 1281-1283. 6、Xiao-Hong Li, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung “Controlled Photocyclization, Photodimerization and Photoisomerization of Stilbazole Salts within Nafion Membranes”. Org. Lett. 2002, 4, 1175-1177. 7、Ming Xu, Xiao-Gang Fu, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Photocontrollable Ion Transport across a Liquid Membrane by Anthracene End-Labeled Oligo-Oxyethylenes”, Phys. Chem. Chem. Phys. 2002, 4, 4030-4035. 8、Jiu-Yan Li, Ming-Li Peng, Li-Ping Zhang, Li-Zhu Wu, Chen-Ho Tung “Long-lived Photoinduced Charge Separation in Carbazole-Pyrene-Viologen System Incorporated in Langmuir-Blodgett Films of Substituted Diazacrownether”, J. Photochem. Photobiol. A: Chem. 2002, 150, 101-108. 9、Qing - Zheng Yang, Li - Zhu Wu, Zi-Xin Wu, Li - Ping Zhang, Chen - Ho Tung, “Long-Lived Emission from Platinum(II) Terpyridyl Acetylide Complexes”, Inorg.

Chem., 2002, Vol. 41, 22, 5653-5655. 10、 Kai Song, Ming-Li Peng, Ming Xu, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “A Comparative Study on Photosensitized Oxidation of trans-2-Vinylthiophenes with trans-3-Vinylthiophenes” , Tetrahedron Lett., 2002, 43(37), 6633 - 6636. 11、 Xin-Jing Tang, Li-Zhu Wu, Li-Ping Zhang and Chen-Ho Tung, “Two-photon-pumped Frequency-Upconverted Lasing and Optical Power Limiting Properties of Vinylbenzothiazole-Containing Compounds in Solution” , Phys. Chem. Chem. Phys. 2002, 4 (23), 5744 - 5747. 12、 Chen-Ho Tung, Li-Zhu Wu, Li-Ping Zhang, Bin Chen, “Supramolecular Systems as Microreactors: Control of Product Selectivity in Organic Phototransformation” , Acc. Chem. Res., 2003, Vol.36, 39-47. 13、 Li-Ping Zhang, Bin Chen, Li-Zhu Wu, Chen-Ho Tung, Hong Cao, Yoshifumi Tanimoto, “Remote Activation of the Quadricyclane Group in a Quadricyclane-Steroid- {Dibenzoylmethanato-boron Difluoride} System by Intramolecular Electron Transfer” , J. Phys. Chem. A., 2003, 107(18), 3438-3442. 14、 Da-Yong Wu, Bin Chen, Xiao-Gang Fu, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Nanosized Particles of Organically Modified Silica as Microreactors to Enhance the Regioselectivity in the Photocycloaddition of 9-Substituted Anthracenes” , Org. Lett. 2003, 5(7), 1075-1077. 15、 Dong Zhang, Li-Zhu Wu, Qing-Zheng Yang, Xiao-Hong Li, Li-Ping Zhang, Chen-Ho Tung “Versatile Photosensitization System for 1O₂-Mediated Oxidation of Alkenes Based on Nafion-Supported Platinum (II) Terpyridyl Acetylde Complex” , Org. Lett. 2003, 5 (18) , 3221-3224. 16、 Dong Zhang, Li - Zhu Wu, Li Zhou, Xue Han, Qing-Zheng Yang, Li - Ping Zhang, Chen - Ho Tung, “Photocatalytic Hydrogen Production from Hantzsch 1,4-Dihydropyridines by Platinum (II) Terpyridyl Complexes in Homogeneous Solution” , J. Am. Chem. Soc., 2004, 126(11), 3440-3441. 17、 You-Wei Wang, Qing - Zheng Yang, Li - Zhu Wu, Li - Ping Zhang and Chen - Ho Tung, “Synthesis and Luminescent Properties of Acetylde-bridged Dinuclear Platinum(II) Terpyridyl Complex” , Chin. J. Chem., 2004, 22(1), 114-116. 18、 Qing - Zheng Yang, Li - Zhu Wu, Zi-Xin Wu, Li - Ping Zhang and Chen - Ho Tung, “A Novel Proton-Controlled Molecular Switch with Luminescence and Color Signaling Based on Platinum(II) Terpyridyl Acetylde Complex” , Chin. J. Chem. 2004, 22(1), 1-3. 19、 Qing - Zheng Yang, Qing-Xiao Tong, Li - Zhu Wu, Zi-Xin Wu, Li - Ping Zhang and Chen - Ho Tung, “Switch of the Lowest Excited-States of Terpyridylplatinum(II) Acetylde Complexes Bearing Amino or Azacrown Moieties by Proton and Cations” , Eur. J. Inorg. Chem. 2004, 1948-1954. 20、 Yue Yang, Dong Zhang, Li-Zhu Wu,* Bin Chen, Li-Ping Zhang, and Chen-Ho Tung*, “Photosensitized Oxidative Deprotection of Oximes to Their Corresponding Carbonyl Compounds by Platinum(II) Terpyridyl Acetylde Complex” , J. Org. Chem. 2004, 69(14), 21 - 4788-4791. Chun-Chang Zhao, Qing-Xiao Tong, Zhan-Ting Li, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Inner-assembly singlet energy transfer in naphthalene-anthracene system linked by 2-ureido-4[1H]-pyrimidinone binding module” , Tetrahedron. Lett., 2004, 45 (36), 6807-6811. 22、 Qing - Zheng Yang, Li - Zhu Wu, He Zhang, Bin Chen, Zi-Xin Wu, Li - Ping Zhang and Chen - Ho Tung, “A Luminescent Chemosensor with Specific Response for Mg²⁺” , Inorg. Chem., 2004, 43, 5195-5197. 23、 Yu-Zhe Chen, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Confined Space Controlled Hydroperoxidation of Trisubstituted Alkenes Adsorbed on Pentasil Zeolites” , J. Org. Chem. 2005, 70(12), 4676-4681. 24、 Hai Xue, Xin-Jing Tang, Li-Zhu Wu, Li-Ping Zhang and Chen-Ho Tung, “Highly Selective Colorimetric and Electrochemical Pb²⁺ Detection Based on the Intramolecular Charge Transfer Transition of TTF- π -Pyridine Derivatives.” J. Org. Chem. 2005, 70(24), 9727-9734. 25、 Yao-Peng Zhao, Chun-Chang Zhao, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, Yuan-Jiang Pan, “First Fluorescent Sensor for Fluoride Based on 2-Ureido-4[1H]-Pyrimidinone Quadruple Hydrogen-bonded AADD Supramolecular Assembly” , J. Org. Chem. 2006, 71, 2143-2146. 26、 Li Zhou, Li-Zhu Wu, Li-Ping Zhang, Chen-Ho Tung, “Photochemical Rearomatization and Dearomatization of Tricarbonyl(η -5-cyclohexadienyl)manganese Complexes” , Organometallics, 2006, 25, 1707-1711. 27、 Xiao-He Xu, Xiao-Gang Fu, Li-Zhu Wu, Bin Chen, Li-Ping Zhang, Chen-Ho Tung, Hai-Feng Ji, Kirk S. Schanze, Rui-Qin Zhang, “Intramolecular Triplet Energy Transfer in Donor-Acceptor Molecules Linked by Crown-Ether Bridge” , Chem. Eur. J. 2006, ASAP.

承担科研项目情况:

目前承担项目情况: (1) 国家自然科学基金面上项目一负责人 “光敏氧化生成脲羰基化合物反应的研究” (2005-2007年) (2) 国家自然科学基金面上项目一负责人 “芳烃三羰基锰络合物的光化学反应及其在合成化学中的应用” (2006-2008年) (3) 国家自然科学基金重点项目一主要参加人 “光电子功能材料中的几个基本光化学问题” (2004-2007年) (4) 国家重点基础研究发展规划973项目一主要参加人 “分子聚集体的化学-有机功能微结构及其组装” (2001-2005年)

