个 人 简 历

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出生年月	1967.08	籍　　贯	福建南安
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毕业学校	新加坡国立大学	专业	化学

教育经历

1984.09-1987.07　福建化工学校，化工专业， 中专

1994.09-1997.07　厦门大学化学系，化学专业，硕士

1998.07-2002.12　新加坡，新加坡国立大学，化学专业， 博士

工作经历

1987.09-1994.07　厦门大学化学系，实验课教学辅助人员

1997.07-1998.07　厦门大学化学系，任教老师

2002.12-2003.10　新加坡国立大学化学系，研究助理。

2003.10-2005.07　美国爱荷华大学，博士后

2005.07-2006.07　美国密西根大学，博士后

2006.08-2007.09　美国普渡大学 ，博士后

2007.09-2014.04　新加坡科技研究局医学生物成像研究中心，Scientist/Senior Scientist

2014.04-今　　新加坡，南洋理工大学李光前医学院，Senior Research Fellow and Radiochemist

以往工作业绩:

领导或参与过的项目:

1. 主要参与人, 执行人， PET 分子医学影像探针 Ga-68 在帮助诊断糖尿病中的应用， 500 万新加坡元，新加坡政府，南洋理工大学李光前医学院与奥地利维也纳医科大学（2015-2019）。

2. 负责人，Project Principle Investigator，Development of novel Ga-68 labeled polymer nanoparticles for tumor targeting PET radiotracer。Ga-68 标记聚合物纳米材料作为帮助诊断肿瘤的正电子发射断层扫描探针。100 万新加坡元，新加坡科技研究局， 2012-2015。

3. 负责人, Project Principle Investigator，Non-invasive Imaging in Cancer Diagnosis and Cell Therapy with Quantum dot-Sized Conjugated Polymer-Based Biocompatible Dots. 100 万新加坡元，新加坡科技研究局 2013-2015。

4.负责人，Project Director and Project Principle Investigator， Development of Intravascular Contrast

Agent.血管内核磁共振成像造影剂的研发，40 万新加坡元，新加坡科技研究局（2010-2012）。

5. 主要参与人，Development of new target-specific radiotracers for early diagnosis of cancer，100 万美元，2005-2008, NIH，美国国立卫生研究院。在普渡大学 (Purdue University)。

6. 主要参与人，项目: New W3, Ta3, Bi9, Gdn(n = 12, 14, 15), and large Y60 clusters as new paradigms for multiplied X-ray contrast and/or magnetic resonance relaxivity in noninvasive biomedical imaging. 200 万美元，2002-2005, NIH，美国国立卫生研究院。在爱荷华大学 (The University of Iowa and Hospital）.

代表性论文（著):

1. **Chang-Tong Yang***, Krishna Ghosh, Parasuraman Padmanabhan, Christer, Halldin, Balazs Gulyas "PET Probes for Imaging Pancreatic Islet Cells" Clinical and translational imaging, 2017,Accepted. **Invited review**
2. **Chang-Tong Yang***, Parasuraman Padmanabhan, Balazs Gulyas "Gadolinium(III) Based Nanoparticles for T1-weighted Magnetic Resonance Imaging Probes" RSC Advances, Review Article, 2016, 6, 60945-66.（**IF：3.1**）
3. Alexander W. Jackson, Prashant Chandrasekharan, Jian Shi, **Chang-Tong Yang***, Tao He "Synthesis and in vivo MRI Evaluation of Biocompatible Branched Copolymer Nanoparticles Prepared by RAFT Polymerization" International J Nanomedicine, 2015, 10, 5895-5907. （**IF：4.3**）
4. Prashant Chandrasekharan, **Chang-Tong Yang***, Fatima Ali Nasrallah, Hui Chien Tay, Kai-Hsiang Chuang, Edward G. Robins, "Pharmacokinetics of Gd(DO3A-Lys) and MR imaging studies in an orthotopic tumor model" Contrast Media & Molecular Imaging. 2015, 237-244.（**IF：3.3**）
5. Jie Fang, Prashant Chandrasekharan, Xiao-Li Liu, Yong Yang, Yun-Bo Lv, **Chang-Tong Yang,*** Jun Ding,* "Manipulating the Surface Coating of Ultra-Small Gd2O3 Nanoparticles for Improved T1-weighted MR Imaging" Biomaterials, 2014, 35, 1636-1642. （**IF：8.4**）
6. **Chang-Tong Yang***, Prashant Chandrasekharan, Tao He, Zihan Poh, Kai-Hsiang Chuang, Edward G. Robins "Gadolinium Chelate as an Intravascular MRI Contrast Agent for Tumor Angiography" Biomaterials, 2014, 35, 327-336. （**IF：8.4**）
7. Kai Li, Dan Ding, Chandrasekharan Prashant, Wei Qin, **Chang-Tong Yang**, Ben Zhong Tang, Bin Liu "Gadolinium-Functionalized Aggregation-Induced Emission (AIE) Dots as Dual-Modality Probes for Cancer Metastasis Study" Adv. Healthcare Mater. 2013, 2, 1600-1605. （**IF：5.76**）
8. Jie Liu, Kai Li, Junlong Geng, Li Zhou, Chandrasekharan Prashant, **Chang-Tong Yang**, Bin Liu, "Single Molecular Hyperbranched Nanoprobe for Fluorescence and Magnetic Resonance Dual Modal Imaging" Polymer Chemistry, 2013, 4, 1517-1524. （**IF：5.4**）
9. Eugene Shi Guang Choo, Erwin Peng, Reshmi Rajendran, Prashant Chandrasekharan, **Chang-Tong Yang**, Jun Ding, Kai-Hsiang Chuang, and Junmin Xue "Superparamagnetic Nanostructures for Off-Resonance Magnetic Resonance Spectroscopic Imaging", Advanced Functional Materials. 2013, 23(4), 496-505. （**IF：12.1**）
10. **Chang-Tong Yang,*** Kai-Hsiang Chuang "Gd(III) chelates for MRI contrast agents: from high relaxivity to "smart", from blood pool to blood-brain barrier permeable" MedChemComm, 2012,3(5), 552-565. Invited Review. （IF：**2.6**）
11. Erwin Peng, Eugene Shi Guang Choo, Prashant Chandrasekharan, **Chang-Tong Yang**, Jun Ding, Kai-Hsiang Chuang, Jun Min Xue "Synthesis of Manganese Ferrite/Graphene Oxide Nanocomposites for Biomedical Applications". Small, 2012, 8, 3620-3630. （**IF：8.64**）
12. Prashant Chandrasekharan, Cai-Xian Yong, Zihan Poh, Tao He, Zhengjie He, Shuang Liu, Edward G. Robins, Kai-Hsiang Chuang **Chang-Tong Yang***, "Gadolinium Complex with DO3A Conjugated

2-(Diphenylphosphoryl)-ethyldiphenylphosphonium Cation as Potential Tumor-Selective MRI Contrast Agents". Biomaterials. 2012, 33, 9225-9231. （**IF：8.4**）

13. Happy Tan, Miao Wang, **Chang-Tong Yang**, Shilpa Pant, Kishore K. Bhakoo, Siew Yee Wong, Zhi-Kuan Chen, Xu Li, John Wang "Silica Nanocapsules of Fluorescent Conjugated Polymers and Superparamagnetic Nanocrystals for Dual-Mode Cellular Imaging" Chem-A Eur J. 2011, 17, 6696-6706. （**IF：5.3**）

14. Krisada Kittigowittana, **Chang-Tong Yang,*** Kai-Hsiang Chuang, Xavier Golay, and Roderick W. Bates. "Development of Novel Intravascular Contrast Agents for MRI Using Gadolinium Chelate" ChemMedChem.2011, 6, 781-787. （**IF：3.2**）

15. Prashant Chandrasekharan, Dipak Maity, **Chang-Tong Yang**, Ding Jun, Kai-Hsiang Chuang, Feng Si-Shen. "Superparamagnetic iron oxide - Loaded poly (lactic acid)–D-a-tocopherol polyethylene glycol 1000 succinate copolymer nanoparticles as MRI contrast agent" Biomaterials. 2010, 31, 5588-5597. （**IF：8.4**）

16. Dipak Maity, Prashant Chandrasekharan, **Chang-Tong Yang**, Kai-Hsiang Chuang, Feng Si-Shen, Ding Jun. "Facile Synthesis of Water-Stable Fine Magnetite Nanoparticles for MRI and Magnetic Hyperthermia Applications" Nanomedicine. 2010, 5(10), 1571-1584. （**IF：4.7**）

17. **Chang-Tong Yang**, Young-Seung Kim, Jianjun Wang, Lijun Wang, Zi-Bo Li, Xiaoyuan Chen, Ming Fan, Jian-Jian Li and Shuang Liu,"64Cu-Labeled 2-(Diphenylphosphoryl)ethylphenyl-phosphonium Cations as Highly Selective Tumor Imaging Agents: Effects of Linkers and 64Cu Chelates on Biodistribution Characteristics" Bioconjugate Chem. 2008, 19, 2008-2022. （**IF：4.8**）

18. Young-Seung Kim, **Chang-Tong Yang**, Jianjun Wang, Lijun Wang, Zi-Bo Li, Xiaoyuan Chen and Shuang Liu, "Effects of Targeting Moiety, Linker, Bifunctional Chelator and Molecular Charge on Biodistribution Characteristics of 64Cu-Labled Triphenylphosphonium Cations" J. Med. Chem. 2008, 51, 2971-2984. （**IF：6.3**）

19. **Chang-Tong Yang**, Subramanya G. Sreerama, Wen-Yuan Hsieh and Shuang Liu, "Synthesis and Characterization of a Novel Macrocyclic Chelator with 3-Hydroxy-4-Pyrone Chelating Arms and Its Complexes with Medicinally Important Metals" Inorg. Chem. 2008, 47, 2719-2727. （**IF：4.86**）

20. Jianjun Wang, **Chang-Tong Yang**, Young-Seung Kim, Subramanya G. Sreerama, Qizhen Cao, Zi-Bo Li, Zhengjie He, Xiaoyuan Chen and Shuang Liu, "64Cu-Labled Triphenylphosphonium and Triphenyl arsonium Cations as Highly Tumor-Selective Imaging Agents" J. Med. Chem. 2007, 50, 5057-5069. （**IF：6.3**）

21. **Chang-Tong Yang**, and Shuang Liu, "Synthesis and Structural Charactreization of Complexes of a DO3A-Conjugated Triphenylphosphorium Cation with Diagnostically Important Metal Ions" Inorg. Chem. 2007, 46, 8988-8997. （IF：4.86）

22. **Chang-Tong Yang**, Muthalagu Vetrichelvan, Xiandong Yang, Daqing Wu, Keith S. Murray, John D. Ranford and Jagadese J. Vittal "Synthesis, Structural Properties and Catecholase Activities of Copper(II) Complexes with Reduced Schiff Base N-(2-Hydroxybenzyl)-Amino Acids". Dalton Trans. 2004, 113-121. （**IF：4.02**）

23. Daming Fan, **Chang-Tong Yang,*** John D. Ranford and Jagadese J. Vittal, "Chemical and Biological Studies of Gold(III) Complexes with Uninegative Bidentate N-N Ligands" Dalton Trans. 2003, 4749-4753. （**IF：4.02**）

24. Daming Fan, **Chang-Tong Yang,*** Peng Foo Lee, John D. Ranford and Jagadese J. Vittal, "Synthesis, Characterization, and Biological Activities of 2-Phenylpyridine Gold(III) Complexes with Thiolate Ligands" Dalton Trans. 2003, 3376-3381. （**IF：4.02**）

25. Daming Fan, **Chang-Tong Yang,*** Jagadese J. Vittal, John D. Ranford, Peng Foo Lee "Chemical and Biological Studies of Dichloro-(2-Phenylpyridine) Gold(III) Complex and Its Derivatives". Dalton

Trans. 2003, 2680-2685. （**IF：4.02**）

26. **Chang-Tong Yang**, Boujemaa Moubaraki, Keith S. Murray, and Jagadese J. Vittal "Synthesis, Characterization and Properties of Ternary Copper (II) Complexes Containing Reduced Schiff Base N-(2-Hydroxybenzyl) α-Amino Acids and 1,10-Phenanthroline". Dalton Trans. 2003, 880-889. （**IF：4.02**）

27. **Chang-Tong Yang**, Boujemaa Moubaraki, Keith S. Murray, John D. Ranford, and Jagadese J. Vittal " Interconversion of Monomer and Two Coordination Polymers of a Copper(II)-Reduced Schiff Base Ligand-1,10-Phenanthroline Complex Based on Hydrogen and Coordinative Bonding". Inorg. Chem, 2001, 40, 5934-5941. （**IF：4.86**）

论著：

Prashant Chandrasekharan, **Chang-Tong Yang**, "Nanobiomaterials for Molecular Imaging" Chapter 11, in Nanobiomaterials: Classification, Fabbrication and Biomedical Applications, (2017) First Edition, Wiley-VCH Verlag Gmbh & Co. KGaA.

申请的专利：

Intravascular contrast agents for MRI using Gadolinium chelates. United States. (2009) P/05283/01/PCT. By Chang-Tong Yang, Xavier Golay, Roderick W. Bates.

其他：

从 2009 年起，连续每年至少在本专业大型国际学术会议比如 World Molecular Imaging Congress（世界分子成像大会）， European Association of Nuclear Medicine （欧州核医学协会年会）作研究报告。