

<b>个人信息</b>				
姓名	刘岳峰			
性别	男	出生年月	1985年11月	
出生地	安徽省安庆市	民族	汉族	
学历	博士	专业	工业催化	
联系方式	通讯地址：中国科学院金属研究所，沈阳材料科学国家实验室，催化材料部 沈阳市沈河区文化路72号，邮编110016 电话/传真：024 83970029/024 83970019 电子邮箱：yuefeng.liu@unistra.fr, yfliu@imr.ac.cn			
<b>教育背景及工作经历</b>				
2015.09-	副研究员（所优秀学者）	中科院金属研究所		
2013.10 - 2015.08	博士后，项目研究员	法国国家科学研究中心 (CNRS)		
2010.09 - 2013.09	物理化学（工业催化）	博士	斯特拉斯堡大学（法国）	
2007.09 - 2010.06	化学工艺	硕士	四川大学	
2003.09 - 2007.07	化学工程与工艺	学士	安徽工业大学	
<b>个人专长</b>				
<p>▶ 具有良好的英语听、说、读、写能力；撰写多篇英文科技论文，并发表于专业、学科顶级期刊（多次以通讯作者身份发表SCI论文）；在国际性的学术会议上做口头报告三次。</p> <p>▶ 能够承担和独立完成科研项目，并协助指导了博士研究生1名，硕士实习生4名。</p> <p>▶ 熟练操作多项的催化材料先进表征技术：傅里叶红外仪 (FT-IR), 扫描电镜 (SEM), <math>^{59}\text{Co}</math> 零场核磁共振仪 (<math>^{59}\text{Co}</math> zero field NMR), 程序升温化学仪 (TPO/TPR/TPD), X 射线衍射仪 (XRD), 氮气吸附脱附仪 (BET), 热重仪 (TGA)等。</p> <p>▶ 长期担任相关专业国际学术期刊审稿人, 如 ACS Catalysis, Applied Catalysis B: Environmental, ACS Sustainable Chemistry &amp; Engineering, Energy &amp; Fuel, Catalysis Today, Applied Surface Science, Fuel Processing Technology, I&amp;EC Research, Journal of Energy Chemistry 等</p>				
<b>奖励</b>				
<ul style="list-style-type: none"> <li>◆ 2015.6 获得 Fuel Processing Technology 杂志(Elsevier, 化学工程二区, SCI 3.35) <b>Outstanding Contribution in Reviewing (杰出贡献审稿人)</b></li> <li>◆ 2015.4 获得 Fuel Processing Technology 杂志(Elsevier, 化学工程二区, SCI 3.35) <b>Recognized Reviewer</b></li> <li>◆ 2014.9 获得 Catalysis Today 杂志(Elsevier, 化学工程二区, SCI 3.89) <b>Recognized Reviewer</b></li> <li>◆ 2011-2012 法国政府“国际交流奖学金”（2次）</li> <li>◆ 2010 四川大学“优秀毕业研究生”</li> <li>◆ 2008-2010 获校“优秀研究生”，“和氏璧”奖学金，校“二等奖学金”</li> <li>◆ 2006-2007 获校“二等奖学金”</li> <li>◆ 2005-2006 获校“学习优秀奖一等奖”，所在班级获校“先进班集体”</li> <li>◆ 2004-2005 获校“学习优秀奖一等奖”，“计算机单科二等奖”</li> <li>◆ 2003-2004 获校“一等奖学金”，“三好学生”，“迎评促建先进个人”</li> </ul>				

## 社会实践与经历

在本科、硕士期间长期参与学生实践工作，具有优秀的组织、交流和协调能力；很好的团体协作精神，能够迅速融入新的工作环境。2003年-2006年连续3年担任班级学习委员，于2005年加入安徽工业大学化工学院学生会，并担任院团委委员、院邓研会会长；参加校团委组织的大学生社会实践活动，于2005-2006年担任马鞍山市金家庄区居委会主任助理。2007-2009年担任四川大学化工学院研究生第三党支部委员、支部书记；催化研究实验室事务助理等。

## 科研经历及成果

师从斯特拉斯堡大学（世界Top 100高校，化学学科Top 20）能源、环境与健康化学过程所（ICPEES, CNRS UMR 7515）所长、国际知名工业催化专家 Cuong PHAM-HUU 主任研究员，于2013年9月获得博士学位；随后在法国国家科学研究中心(CNRS)从事博士后、项目研究员工作。主要承担欧盟联合项目(FP7)，Total国际公司项目，参与法国自然科学基金项目、国内自然科学基金973及面上项目等，并协助指导博士研究生1名，硕士实习生4名。发表SCI期刊论文24篇，**第一作者（含通讯作者，\*标示）论文17篇，其中影响因子（IF）>6论文8篇；第一作者期刊论文IF之和 >80**，包括专业、学科顶级期刊J Catal (化学工程1区), ACS Catal (化学2区, 专业顶级), ChemSusChem (化学2区, 专业顶级), Carbon (工程技术1区), Chem. Comm.等。参加国际性学术会议多次（包括2012年德国慕尼黑召开的15届国际催化大会，2013年法国里昂召开的11届欧洲催化大会），在国际会议口头报告3次，国内会议口头报告1次；**获得法国专利、欧洲EPO专利和国际PCT专利共3项，欧洲EPO申请专利2项**。详细情况如下：

### 期刊论文 (peer-reviewed)

#### 第一作者论文（含通讯作者 \*标示；共同第一作者 #标示）

- (1) **Y. Liu**,\* J. Luo, M. Girleanu, O. Ersen, C. Pham-Huu,\* C. Meny. Efficient Hierarchical Structured Composites Containing Cobalt Catalyst for Clean Synthetic Fuel Production from Fischer-Tropsch Synthesis. *Journal of Catalysis*, **2014**, 318, 179-192
- (2) H. Ba, **Y. Liu**,\* L. Truong-Phuoc, C. Duong-Viet, J.M. Nhut, D. L. Nguyen, O. Ersen, G. Tuci, G. Giambastiani,\* C. Pham-Huu.\* N-doped Food-grade derived 3D Mesoporous Foams as Metal-Free Systems for Catalysis. *ACS Catalysis*, **2016**, 6, 1408-1419
- (3) **Y. Liu**,\* B. de Tymowski, F. Vigneron, et al. Titania-decorated silicon carbide containing cobalt catalyst for the Fischer-Tropsch Synthesis. *ACS Catalysis*, **2013**, 393-404.
- (4) **Y. Liu**, O. Ersen, C. Meny, F. Luck, C. Pham-Huu. Fischer-Tropsch reaction on thermal conductive and re-usable silicon carbide support. *ChemSusChem*, **2014**, 7, 1218-1239
- (5) **Y. Liu**,\* H. Ba, L. D. Nguyen, O. Ersen, T. Romero, D. Begin, I. Janowska, C. Pham-Huu.\* Synthesis of porous carbon nanotubes foam composites with high accessible surface area and tunable porosity. *Journal of Materials Chemistry A*, **2013**, 1, 9508-9516.
- (6) H. Ba,<sup>#</sup> L. Truong-Phuoc<sup>#</sup> (Contributed equally), **Y. Liu**,\* C. Duong-Viet, J.-M. Nhut, D. L. Nguyen, P. Granger, C. Pham-Huu\*. Hierarchical carbon nanofibers/graphene composite containing nanodiamonds for direct dehydrogenation of ethylbenzene. *Carbon*, **2016**, 96, 1060-1069
- (7) H. Ba<sup>#</sup>, **Y. Liu**<sup>#</sup> (Contributed equally), L. Truong Phuoc, ... G. Giambastiani\*, C. Pham-Huu\*, A Highly N-Doped Carbon Phase "Dressing" of Macroscopic Supports for Catalytic Applications. *Chemical Communications*, **2015**, 51, 14393-14396
- (8) **Y. Liu**,\* I. Florea, O. Ersen, C. Pham-Huu,\* C. Meny. Silicon Carbide Coated with TiO<sub>2</sub> with

Enhancing Cobalt Active Phase Dispersion for Fischer-Tropsch Synthesis. *Chemical Communications* **2015**, 51, 145-148.

- (9) H. Ba, C. Duong-Viet, Y. Liu\*, J.-M. Nhut, P. Granger, M. J. Ledouxa, C. Pham-Huu.\* Nitrogen-doped carbon nanotube spheres as metal-free catalyst for partial oxidation of H<sub>2</sub>S. *Comptes rendus Chimie*, **2016**, doi:10.1016/j.crci.2015.09.022
- (10) H. Ba, C. Duong-Viet, Z. El-Berrichi, J.-M. Nhut, M. J. Ledoux, Y. Liu\*, C. Pham-Huu.\* Silicon carbide foam as a porous support platform for catalytic applications. *New Journal of Chemistry* (Invited review), **2016**, doi: 10.1039/C5NJ02847G
- (11) Y. Liu, C. Duong-Viet, J. Luo, A. Hébraud, G. Schlatter\*, O. Ersen, J.-M. Nhut, C. Pham-Huu\*, One-Pot Synthesis of a Nitrogen-Doped Carbon Composite by Electrospinning as a Metal-Free Catalyst for Oxidation of H<sub>2</sub>S to Sulfur, *ChemCatChem*, **2015**, 2957-2964
- (12) H. Ba, S. Podila, Y. Liu\*, X. Mu, J.-M. Nhu, V. Papaefthimiou, S. Zaferatos, P. Granger, C. Pham-Huu.\* Nanodiamond Decorated Few-Layer Graphene Composite as an Efficient Metal-Free Dehydrogenation Catalyst for Styrene Production. *Catalysis Today*, **2015**, 249 167-175
- (13) H. Ba, Y. Liu\*, X. Mu, W.-H. Doh, J.-M. Nhut, P. Granger, C. Pham-Huu.\* Nanodiamond/ $\beta$ -SiC Composite as an Efficient Metal-Free Catalyst for the Dehydrogenation of Ethylbenzene to Styrene. *Applied Catalysis A*, **2015**, 499, 217-226
- (14) C. Duong-Viet, H. Ba, Y. Liu\*, L. Truong-Phuoc, J. M. Nhut, C. Pham-Huu.\* Nitrogen-doped carbon nanotubes on silicon carbide as a metal-free catalyst. *Chinese Journal of Catalysis*, **2014**, 35: 906-913 (特邀专刊: Carbon in Catalysis)
- (15) Y. Liu\*, T. Dintzer, O. Ersen, C. Pham-Huu.\* Carbon nanotubes decorated  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> containing cobalt nanoparticles for the Fischer-Tropsch reaction. *Journal of Energy Chemistry*, **2013**, 22, 279-289. (特邀专刊: Carbon Materials for Energy Application)
- (16) Y. Liu, L. D. Nguyen, T. H. Tri, et al. Macroscopic shaping of carbon nanotubes with high specific surface area and full accessibility. *Materials Letters*, **2012**, 79, 128-131.
- (17) Y. Liu, F. Jiang C, W. Chu, et al. Novel F-V<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub> catalysts for oxidative dehydrogenation of propane. *Reaction Kinetics, Mechanisms and Catalysis*, **2010**, 101, 141-151.
- (18) Y. Liu, W. Chu, F. Qu, et al. Mesoporous zirconia supported CuO-based catalysts for methane catalytic combustion. *Chemical Reaction Engineering and Technology (in Chinese)*, **2009**, 25, 223-227

### 合作论文 (第二作者)

- (19) C. Duong-Viet, Y. Liu, H. Ba, L. Truong-Phuoc, W. Baaziz, D. L. Nguyen, J.-M. Nhut, C. Pham-Huu. Carbon nanotubes containing oxygenated decorating defects as metal-free catalyst for selective oxidation of H<sub>2</sub>S. *Appl Catal B: Environ*, **2016**, doi:10.1016/j.apcatb.2016.03.018
- (20) J. Luo, Y. Liu, W. Sun, C. Jiang, H. Xie, W. Chu. Influence of structural parameters on methane adsorption over activated carbon: Evaluation by using D-A model. *Fuel*, **2014**, 123, 241-247
- (21) I. Florea, Y. Liu, O. Ersen, C. Meny, C. Pham-Huu. Microstructural analysis and energy filtered TEM imaging to investigate the structure-activity relationship in Fischer-Tropsch catalysts. *ChemCatChem*, **2013**, 5, 2610-2620. (封面文章, back cover)
- (22) B. de Tymowski, Y. Liu, C. Meny, et al. Co-Ru/SiC impregnated with ethanol as an effective catalyst for the Fischer-Tropsch synthesis. *Applied Catalysis A: General*, **2012**, 419, 31-40.
- (23) J. Luo, Y. Liu, C. Jiang, et al. Experimental and modeling study of methane adsorption on

activated carbon derived from anthracite. *J Chem & Eng Data*, **2011**, 56, 4919-4926

## 待发表论文

- (1) **Y. Liu\***, J. Luo, Y. Shin, S. Moldovan<sup>2</sup>, O. Ersen, A.e Hébraud, G. Schlatter, C. Pham-Huu, C. Meny\* Sampling the structure and chemical order in assemblies of ferromagnetic nanoparticles by Nuclear Magnetic Resonance. *Nature Communications*, **2016**, Minor revision
- (2) H. Ba, **Y. Liu,\***... D.S. Su, C. Pham-Huu. Macroscopically Shaped Monolith of Nanodiamonds @ Nitrogen-enriched Mesoporous Carbon Decorated SiC as a Superior Metal-free Catalyst for the Styrene Production.. *Appl Catal B: Environ*, **2016**, Submitted

## 学术会议口头报告

- (1) **Y. Liu**, Low-Temperature Synthesis of Macroscopic Porous Nitrogen-Doped Carbon Composite with High Doping Content and Exclusive Localization. 6th International Symposium on Carbon for Catalysis (CarboCat-VI), June **2014**, Trondheim, Norway. (英文)
- (2) **Y. Liu**, O. Ersen, F. Luck, C. Pham-Huu. Titania-Decorated Silicon Carbide Containing Cobalt Catalyst for the Fischer-Tropsch Synthesis. 11th European Congress on Catalysis - EuropaCat-XI, September 1st - 6th, **2013**, Lyon, France (英文)
- (3) **C. Pham-Huu**, **Y. Liu**. Titania-based catalysts for synthetic fuel and H<sub>2</sub> production. 2nd International Symposium on Chemistry of Energy Conversion (2nd ChemEnergy), January 27-30, **2013**, Berlin, Germany (**Plenary Lecture**) (大会邀请报告, 英文)
- (4) **Y. Liu**, L.D. Nguyen, H. Ba, et al. Macroscopic carbon nanotubes foam with high specific surface area and full accessibility. 5th International Symposium on Carbon for Catalysis (CarboCat-V), June **2012**, Brixen, Italy (英文)
- (5) **Y. Liu**, W. Chu, F. Qu. Mesoporous zirconia supported CuO-based catalysts for methane catalytic combustion. 5th Chinese National Chemical and Biochemical Engineering Annual Meeting. October 2008, Xi'an, China (中文)

## 发明专利

- (1) **Y. Liu**, C. Pham-Huu, P. Nguyen, C. Pham. Supports de catalyseur à base de carbure de silicium recouvert de TiO<sub>2</sub> pour la synthèse de Fischer-Tropsch. (FR2992236, 法国专利)
- (2) **Y. Liu**, C. Pham-Huu, P. Nguyen, C. Pham. Catalyst supports made from silicon carbide covered with TiO<sub>2</sub> for Fischer-Tropsch synthesis. (WO2014001697 A1, 国际PCT专利)  
(EP2864044-A1, 欧洲 EPO 专利)  
(U.S. Patent Application 14/411,543)
- (3) C. Pham-Huu, G. Giambastiani, **Y. Liu**, H. Ba, L.D. Nguyen, J.-M. Nhut. Method for preparing highly nitrogen-doped mesoporous carbon composites.  
Application No. EP 15-152038, 欧洲 EPO 专利)
- (4) **Y. Liu**, L. Nguyen-Dinh, H. Ba, J.-M. Nhut, G. Giambastiani, C. Pham-Huu. Use of highly nitrogen-doped mesoporous carbon composites for catalytic advanced oxidation processes (AOP) for water and wastewater treatment. Application No. EP 15-152039, 欧洲 EPO 专利)

**Reference**

**Dr. Cuong PHAM-HUU** (Director of ICPEES)

Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES)

UMR 7515 CNRS-University of Strasbourg

E-mail: cuong.pham-huu@unistra.fr

**Prof. Guy SCHLATTER** (Co-director of ECPM)

Ecole Européenne de Chimie, Polymères et Matériaux de Strasbourg (ECPM)

UMR 7515 CNRS-University of Strasbourg

E-mail : guy.schlatter@unistra.fr