

# Curriculum Vitae

XIAOLONG (Bruce) LIU, PH.D.

Associate Professor of WIPM (Wuhan Institute of Physics and

Mathematics, Chinese Academic of Science) in China

Email: [xiaolong.liu@wipm.ac.cn](mailto:xiaolong.liu@wipm.ac.cn) or [liuxl2002cn@gmail.com](mailto:liuxl2002cn@gmail.com)

## Work Experiences:

March 1<sup>st</sup> 2013-now

Associate Professor of WIPM (Wuhan Institute of Physics and Mathematics, Chinese Academic of Science) in China

April 1<sup>st</sup> 2012 to December 31<sup>st</sup> 2012

Postdoctoral fellowship with Prof. Alain Tuel and Prof. Eric Puzenat at **IRCELYON** (Lyon, France)

Projects: Innovative routes to Catalysts based on Ta<sub>3</sub>N<sub>5</sub> and g-C<sub>3</sub>N<sub>4</sub>

April 1<sup>st</sup> 2009 to March 31<sup>st</sup> 2012

Postdoctoral fellowship with Prof. Alain Tuel at **IRCELYON** (Lyon, France)

Projects: Zeolites synthesis mechanism.

## EDUCATION:

August 25<sup>th</sup> 2004 to April 30<sup>th</sup> 2008

PHD in chemistry, **University of Guelph** (Guelph, Ontario, Canada)

Dissertation title: "NMR SPECTROSCOPY OF SILVER AND ARSENIC CONTAINING SOLIDS"

Advisor: Prof. Glenn H. Penner

September 1<sup>st</sup> 2000 to July 1<sup>st</sup> 2003

Master degree in chemistry, **Jilin University** (Changchun, P. R. China)

September 1<sup>st</sup> 1995 to July 1<sup>st</sup> 1999

Bachelor of Science in chemistry, **Jilin University** (Changchun, P. R. China)

### Research Interests:

1. Zeolites crystallization mechanisms;
2. Solid State NMR;
3. Microporous and mesoporous materials;
4. Heterogeneous catalysis materials and reaction mechanisms;
5. Photocatalyst

### PUBLICATIONS

1. G. H. Penner, X. Liu, "Silver NMR Spectroscopy", *Prog. in NMR Spectroscopy*, 2006,49 151-167.
2. Xiaolong Liu, Ugo Ravon, and Alain Tuel, "Evidence for F<sup>-</sup>/SiO<sup>-</sup> Anion Exchange in the Framework of As-Synthesized All-Silica Zeolites", *Angew. Chem. Int. Ed.*, 2011, 50, 5900–5903.
3. Xiaolong Liu, Ugo Ravon, and Alain Tuel, "Fluoride Removal from Double Four-Membered Ring (D4R) Units in As-Synthesized Ge-Containing Zeolites", *Chem. Mater.*, 2011, 23 (22), 5052–5057.
4. Xiaolong Liu, Ugo Ravon, and Alain Tuel, "Synthesis of all-silica zeolites from highly concentrated gels containing hexamethonium" *Microporous and Mesoporous Materials*, 2012, 156, 257-261.
5. Xiaolong Liu, Ugo Ravon, Françoise Bosselet, Gerard Bergeret, and Alain Tuel, "Probing Ge distribution in zeolite frameworks by post-synthesis introduction of fluoride in as-made materials", *Chem. Mater.*, 2012, 24 (15), pp 3016–3022.
6. Xiaolong Liu, Ugo Ravon, Alain Tuel, "EFFECT OF HF CONCENTRATION ON THE COMPOSITION AND DISTRIBUTION OF Ge SPECIES IN THE FRAMEWORK OF ITQ-13 AND ITQ-17 ZEOLITES", *Microporous and Mesoporous Materials*, 2013,170,194-199.