

TING WANG

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EDUCATION

Master in Analytical Chemistry, Department of Chemistry and Biochemistry, Baylor University, Waco, TX, USA
Dr. Touradj Solouki, August 2011 to present
GPA: 3.67/4.00

Bachelor in Applied Chemistry, Department of Chemistry, Xiangtan University, Hunan, China
September 2007 to July 2011
GPA: 3.35/4.00

RESEARCH EXPERIENCE

GC-Cryofocusing-MS Project

-Developed a post-column cryogenic trap coupled with gas chromatography-mass spectrometry (i.e., GC/PCCT/MS) to improve the sensitivity of detecting the volatile organic compounds (VOCs).

-Trace analysis and confirmation of various VOCs by applying GC/PCCT/MS in samples extracted from different resources such as the skin of orange peel, currency notes and human breath.

-Developed a pyrolyser after PCCT coupled with GC/MS for obtaining fragmentation information in addition to that of GC/MS.

Petroleum and Mass Deficient Derivatization Project

-Invented a novel approach to the detection of sulfur(S) containing compounds in petroleomics studies by the combination of the Kendrick plots and selective target molecule derivatives.

-Developed a novel organic synthesis method to identify the sulfur(S)-containing compounds in a standard mixture.

-Identified S-containing compounds in complex petroleum mixtures through the combination of different analytical techniques, such as GC/MS, Orbitrap MS (LTQ-MS) and Ion-mobility time-of-flight MS (IMS-TOF-MS).

-Analyzed data from a modified Kendrick mass software to simplify complicated mass spectrum.

TEACHING EXPERIENCE

-Lab instructor for general chemistry lab I & II (August 2011-present)

PRESENTATIONS

-Pyrimidine & purine derivatives (course presentation, April, 2012)

-Characterization of microbial biofilms through different analytical techniques (literature seminar, October, 2012)

-Identification of sulfur compounds in petroleum samples using derivatization with mass deficient reagents (poster presentation, June, 2013)

PROFESSIONAL SKILLS

Techniques Skills: GC/MS, LC/MS, UV-Vis, FT-IR, HPLC

Computer Skills: Origin, XCalibur, MS Word, PowerPoint, MS excel

Language Skills: English and Chinese