

Curriculum Vitae

NAME: Yingchun Li, Ph.D.

Assistant Professor
Department of Chemistry & Physics
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EDUCATION

Postdoctoral Research Associate / Organic Chemistry and Enzymology
Department of Chemistry, Texas A&M University 2000-2008

Ph.D. / Organic Chemistry
University of Houston, Houston, TX 2000

M.S. / Medicinal Chemistry
Shandong University, Jinan, Shandong Province, P. R. China, 1988

B.S. / Chemistry
Sichuan University, Chengdu, Sichuan Province, P. R. China, 1985

PROFESIONAL EXPERIENCE

2020- Assistant Professor

2018-2020 Lecture II, Chemistry, Biochemistry and Forensic Chemistry

Department of Chemistry and Physics, Prairie View A&M University

2011-2018 Adjunct Assistant Professor, Chemistry

Department of Chemistry and Physics, Prairie View A&M University

2008-2011: Assistant Professor, Chemistry

Department of Chemistry and Physics, Southeastern Louisiana University

2000- 2008: Postdoctoral Research Associate: Prof. Frank M. Raushel's Group,

Department of Chemistry, Texas A&M University

1994-2000: Graduate Research Assistant

Department of Chemistry, University of Houston

1988-1994: Lecturer and Researcher

Department of Pharmacy, Shandong Medical University, P.R. China

1985-1988: Graduate Teaching and Research Assistant

Department of Pharmacy, Shandong Medical University, P.R. China

HONORARY RESEARCH FELLOW

2019-Present: Visiting Scholar

Prof. Frank M. Raushel's Group,

Department of Chemistry, Texas A&M University

HONORS

- **Excellent Researcher Award** (the Second Class) from Educational Committee of Shandong Province, P. R. China, 1994
- **Award for Excellence in Teaching** from Shandong Medical University, Shandong Province, P. R. of China, 1993
- **Excellent Poster Award** from Shandong Branch of Chinese Pharmaceutical Society at the Regional Meeting in Jinan, Shandong Province, P. R. China, 1992

AFFILIATION

American Chemical Society

PUBLICATIONS

1. Tsai, Ping-Chuan; Bigley, Andrew; **Li, Yingchun**; Ghanem, Eman; Cadieux, C. Linn; Kasten, Shane A.; Reeves, Tony E.; Cerasoli, Douglas M.; Raushel, Frank M.. "Stereoselective Hydrolysis of Organophosphate Nerve Agents by the Bacterial Phosphotriesterase" *Biochemistry* **2010**, 49(37), 7978-7987
2. Nguyen, Tinh T.; Fedorov, Alexander A.; Williams, LaKenya; Fedorov, Elena V.; **Li, Yingchun**; Xu, Chengfu; Almo, Steven C.; Raushel, Frank M. "The Mechanism of the Reaction Catalyzed by Uronate Isomerase Illustrates How an Isomerase May Have Evolved from a Hydrolase within the Amidohydrolase Superfamily", *Biochemistry* **2009**, 48(37), 8879-8890
3. Eman Ghanem, **Yingchun Li**, Chengfu Xu, and Frank M. Raushel. "Characterization of a Phosphodiesterase Capable of Hydrolyzing EA 2912, the most toxic degradation product of the Nerve agent VX." *Biochemistry* **2007**, 46, 9032-9040.
4. **Yingchun Li** and Frank M. Raushel. "Differentiation of chiral phosphorus enantiomers by ³¹P and ¹H NMR spectroscopy using amino acid derivatives as chemical solvating agent" *Tetrahedron: Asymmetry* **2007**, 18, 1391-1397.

5. Charity Nowlan; **Yingchun Li**; Johannes C. Hermann; Timothy Evens; Joseph Carpenter; Eman Ghanem; Brian K. Shoichet; Frank M. Raushel. "Resolution of Chiral Phosphate, Phosphonate, and Phosphinate Esters by an Enantioselective Enzyme Library" *Journal of the American Chemical Society* **2006**, 128, 15892-15902.
6. Johannes C. Hermann; Eman Ghanem; **Yingchun Li**; Frank M. Raushel; John J. Irwin; Brian K. Shoichet. "Predicting Substrates by Docking High-Energy Intermediates to Enzyme Structure" *Journal of the American Chemical Society* **2006**, 128, 15882-15891.
7. Lakenya Williams; Tinh Nguyen; **Yingchun Li**; Tamiko N. Porter; Frank M. Raushel. "Uronate Isomerase: A Nonhydrolytic Member of the Amidohydrolase Superfamily with an Ambivalent Requirement for a Divalent Metal Ion" *Biochemistry* **2006**, 4, 7453-7462.
8. **Yingchun Li**; Frank Raushel. "Inhibitors Designed for the Active Site of Dihydroorotase" *Bioorganic Chemistry* **2005**, 33, 470-483.
9. Tamiko N. Porter, **Yingchun Li**, and Frank M. Raushel. "Mechanism of the Dihydroorotase Reaction" *Biochemistry* **2004**, 43, 16285-16292.
10. Sarah D. Aubert, **Yingchun Li**, and Frank M. Raushel. "Mechanism for the Hydrolysis of Organophosphates by the Bacterial Phosphotriesterase" *Biochemistry* **2004**, 43, 5707-5715.
11. Min-Sun Park; Craig M. Hill; **Yingchun Li**; R. Kristoffer Hardy; Hemant Khanna; Yong-Ho Khong; Frank M. Raushel. "Catalytic Properties of the PepQ Prolidase from *Escherichia Coli*" *Archives of Biochemistry and Biophysics* **2004**, 429, 224-230.
12. **Yingchun Li**; Sara D. Aubert; Eugene G. Maes; and Frank M. Raushel. "Enzymatic Resolution of Chiral Phosphinate Esters" *Journal of the American Chemical Society* **2004**, 126, 8888-8889.
13. Karin T Lum; Henry J. Huebner; **Yingchun Li**; Timothy D. Phillips and Frank M. Raushel. "Organophosphate Nerve Agent Toxicity in Hydra Attenuata" *Chemical Research in Toxicology* **2003**, 16, 953-957.
14. **Yingchun Li**; Sarah D. Aubert and Frank M. Raushel. "Operational Control of Stereoselectivity during the Enzymatic Hydrolysis of Racemic Organophosphorus Compounds" *Journal of the American Chemical Society* **2003**, 125, 7526-7527.
15. Wen-Shan Li; **Yingchun Li**; Craig M. Hill; Karin T. Lum and Frank M. Raushel. "Enzymatic Synthesis of Chiral Organophosphothioate from Prochiral Precursors" *Journal of the American Chemical Society* **2002**, 124, 3498-3499.
16. Shen, Chengguo; Jin, Liufu; Ying, Wang; Xu, Lijun; Li, Yingchun. "Effect of Inabenfide on Growth of Soybean Seeding" *Zhiwu Shenglixue Tongxun*. **1996**, 32, 262-264.
17. Peiman Liu, **Yingchun Li**, Zhong Li, Ning Hou and Lijun Xu, "Antibacterial activity of a Schiff base, 4-amino-3-(□-furanlyl)-5-mercapto-1,2,4-triazole and its Cu(II) complex" *Modern Applied Pharmaceutics* **1993**, 10, 2-4.

18. Peiman Liu, **Yingchun Li**, Zhong Li, Xingpo Wang and Lijun Xu, “Antibacterial activity of thiosemicabazones and their transition metal coordination compounds” *Shandong Yike Daxue Xuebao* **1992**, 30, 340-342.
19. **Yingchun Li** and Lijun Xu, “Synthesis and bacteriostatic activity of thiosemicarbazones and their transition metal complexes” *Acta Pharmaceutica Sinica* **1990**, 25, 593-597.

PRESENTATIONS

1. Thao Huynh, Makobi Okolie, Tony Grady, Merlyn Pulikkathara and **Yingchun Li**, Design, Synthesis, Characterization and Assessment of Novel Graphitic Carbon Nitride Nanomaterials as Photocatalysts for Removal of Organic Pollutant or/and Hydrogen Production through Water Splitting under Solar Light 14th Annual Research Symposium, Faculty research presentation. April 10th, **2019** at Prairie View A&M University, Prairie View
2. Folami Williams, Abraham C. Parada-Medina and **Yingchun Li**, Ph.D. New Method Development for Synthesis of Aryloxyketones 14th Annual Research Symposium, April 11th, **2019** at Prairie View A&M University, Prairie View
3. Thao Huynh, Abraham Parada-Medina, Dr. **Yingchun Li, PhD**, Design, Synthesis, Characterization and Assessment of Novel Graphitic Carbon Nitride Nanomaterials as Photocatalysts for Removal of Organic Pollutant or/and Hydrogen Production through Water Splitting under Solar Light Thao Huynh, Abraham Parada-Medina, Dr. Yingchun Li, PhD, 14th Annual Research Symposium, April 11th, **2019** at Prairie View A&M University, Prairie View
4. Samuriel I. Jackson[†] and **Yingchun Li**. Synthesis and Assessment of Graphitic Carbon Nitride Nanomaterials as Photocatalysts for Removal of Organic Pollutant under Visible Light. 2019 Project Seed Poster Session, August 2nd **2019** at the University of St Thomas, Houston
5. Daniel Tran, Ian Shortt, Mykala Taylor, Odaro Adu, **Yingchun Li, Ph.D.**, Hua-Jun Fan, Ph.D. “Synthesis, characterization, and modeling of (E)-4,4'-(ethene-1,2-diyl) dianiline” Poster Presentation, 247 ACS National Meeting, March 16-20, **2014** in Dallas, Texas.
6. Kristen Michelle Hilliard, Chad Alexander Crochet and **Yingchun Li***, “Michael Addition of a Phosphorus Ylide” **Poster Presentation**, 66th Southwest and 62nd Southeastern Regional Meetings of the ACS, November 30 to December 4, **2010** in New Orleans

Paper in Preparation:

1. **Yingchun Li***, Makobi Okolie, Tony Grady, Merlyn Pulikkathara and Zhenhuan Yi.

“New Function of Graphitic Carbon Nitride: Photocatalytic Reduction of Azo Dyes with Hydrazine under Visible LED”

Aimed Journal: Journal of Photochemistry and Photobiology: Chemistry