

Curriculum Vitae

Sumrit Wacharasindhu Ph.D.

Department of Chemistry
Faculty of Science, Chulalongkorn University
Bangkok 10330, Thailand
Email: Sumrit.W@chula.ac.th
Tell: 02-218-7634, 084-3758009
Fax: 02-218-7598



Education:

2000-2005 Ph.D., Organic Chemistry, University of Missouri-Columbia
1996-2000 B.S. Chemistry, Chulalongkorn University.

Professional Experience:

Associate Professor

July 2015- Present

Research area: 1. Chemosensor based on conjugated polymer and BODIPY
2. Green synthetic methodology for nitrogen-containing heterocycle

July 2010- July 2015

Assistant Professor, Department of Chemistry, Faculty of Science, Chulalongkorn University

July 2007-July 2010

Lecturer, Department of Chemistry, Faculty of Science, Chulalongkorn University

July 2009- Aug 2009

JSPS Research Fellow, Institute for Molecular of Science, Okazaki, Japan

Supervisor: Professor Uozumi

Research area: Asymmetric cross coupling reaction in aqueous media

July 2005- April 2007

Postdoctoral Research, Wyeth Research (Pfizer), New York, USA

Supervisor: Dr. Tarek Mansour (President Discovery of Chemical Science)

Research area: Develop an efficient method for amination of amides and cyclic urea.

July 2000- July 2005

Graduate Research, University of Missouri-Columbia, Missouri, USA

Advisor: Professor Michael Harmata (Norman Rabjohn Distinguished Professor)

Research area: Studies of 4+3 cycloaddition reaction and approach the synthesis of tricyclocluvulone

Sep 1999- Mar 2000

Undergraduate Research, Chulalongkorn University, Bangkok, Thailand

Advisor: Professor Roderick Bates

Research area: Studies the synthesis of spiroketal via Michael addition

Apr 1999- July 1999

Summer Internship, Petroleum and Petrochemical Research and Development Institute, Wang Noi district of Ayutthaya, Thailand

Honors and Awards:

| | |
|-----------|---|
| 2016 | Chemical Society of Thailand (CST) Citation Award 2015 |
| 2015 | Wiley-Chemical Society of Thailand (CST) Award for Contributions to Green Chemistry 2014 |
| 2014 | Asian CORE Program (ACP) Lectureship Awards to Japan and Taiwan |
| 2014 | TRF-CHE-SCOPUS Researcher Award for Chemical & Pharmaceutical Sciences |
| 2013 | Polymer Society of Thailand (PST) Rising Star from Polymer Society of Thailand |
| 2012 | Thailand Young Researcher Award Foundation from the Promotion of Science and Technology under the Patronage of His Majesty the King |
| 2012 | Chulalongkorn University Young Researcher Award |
| 2012 | Chulalongkorn University Young Lecturer Award |
| 2011 | Asian CORE Program (ACP) Lectureship Awards to China |
| 2010 | Outstanding oral presentation: 10 th Annual Thailand Research Fund Meeting |
| 2005 | Breckenridge/Lyons Award for Outstanding Graduate Research University of Missouri-Columbia |
| 2002-2005 | Graduate Research Assistantships, University of Missouri-Columbia |
| 2000 | Graduate Student Fellowship, University of Missouri-Columbia |

Recent publications (**2019-2014**)

1. Thavornsin, T. Chamrasboon, Kiatmongkolkul K., Sakthanasait, R., Sukwattanasinitt M., Wacharasindhu S. :“Synthesis of Highly Pure Poly(aryleneethynylene)s Using Palladium Supported on Calcium Carbonate as an Eco-Friendly Heterogeneous Catalyst (2019) Journal of Polymer Science, Part A: Polymer Chemistry, 57, pp. 1556-1563.
2. Santra, S., Butta, P., Jithavech, P., Rojsitthisak, P., Palaga, T., Rashatasakhon, P., Sukwattanasinitt, M., Wacharasindhu, S. : “Turn on” orange fluorescent probe based on styryl-BODIPY for detection of hypochlorite and its application in live cell imaging (2019) Dyes and Pigments, 162, pp. 189-195.

3. Tankam, T., Srisa, J., Sukwattanasinitt, M., Wacharasindhu, S. Microwave-Enhanced On-Water Amination of 2-Mercaptobenzoxazoles to Prepare 2-Aminobenzoxazoles (2018) *Journal of Organic Chemistry*, 83 (19), pp. 11936-11943.
4. Thavornsin, N., Rashatasakhon, P., Sukwattanasinitt, M., Wacharasindhu, S. : Salicylaldehyde-functionalized poly(m-phenyleneethynylene) as turn-on chemosensor for ferric ion (2018) *Journal of Polymer Science, Part A: Polymer Chemistry*, 56 (11), pp. 1155-1161.
5. Rattanangkool, E., Sukwattanasinitt, M., Wacharasindhu, S. Organocatalytic Visible Light Enabled S_NAr of Heterocyclic Thiols: A Metal-Free Approach to 2-Aminobenzoxazoles and 4-Aminoquinazolines (2017) *Journal of Organic Chemistry*, 82 (24), pp. 13256-13262.
6. Saetan, T., Lertvachirapaiboon, C., Ekgasit, S., Sukwattanasinitt, M., Wacharasindhu, S. Palladium Nanoparticles Immobilized on Individual Calcium Carbonate Plates Derived from Mussel Shell Waste: An Ecofriendly Catalyst for the Copper-Free Sonogashira Coupling Reaction (2017) *Chemistry - An Asian Journal*, 12 (17), pp. 2221-2230.
7. Sukato, R., Sangpetch, N., Palaga, T., Jantra, S., Vchirawongkwin, V., Jongwohan, C., Sukwattanasinitt, M., Wacharasindhu, S. New turn-on fluorescent and colorimetric probe for cyanide detection based on BODIPY-salicylaldehyde and its application in cell imaging (2016) *Journal of Hazardous Materials*, 314, pp. 277-285.
8. Tankam, T., Poochampa, K., Vilaivan, T., Sukwattanasinitt, M., Wacharasindhu, S. Organocatalytic visible light induced S-S bond formation for oxidative coupling of thiols to disulfides (2016) *Tetrahedron*, 72 (6), pp. 788-793.
9. Rattanangkool, E., Vilaivan, T., Sukwattanasinitt, M., Wacharasindhu, S. An Atom-Economic Approach for Vinylation of Indoles and Phenols Using Calcium Carbide as Acetylene Surrogate (2016) *European Journal of Organic Chemistry*, 2016 (25), pp. 4347-4353.
10. Kaewchangwat, N., Sukato R., Vchirawongkwin, W., Vilaivan T., Sukwattanasinitt M., Wacharasindhu, S. Direct synthesis of aryl substituted pyrroles from calcium carbide: an underestimated chemical feedstock (2015) *Green Chemistry* 17, pp. 460-465.
11. Thavornsin, N., Sukwattanasinitt, M., Wacharasindhu, S. Direct synthesis of poly(p-phenyleneethynylene)s from calcium carbide (2014) *Polymer Chemistry*, 5 (1), pp. 48-52.
12. Rattanangkool, E., Krailat, W., Vilaivan, T., Phuwapraisirisan, P., Sukwattanasinitt, M., Wacharasindhu, S. Hypervalent iodine(III)-promoted metal-free S-H activation: An approach for the construction of S-S, S-N, and S-C bonds (2014) *European Journal of Organic Chemistry*, 2014 (22), pp. 4795-4804.