

Faculty Vitae

1. Name
<ul style="list-style-type: none">- TRAN THI TUONG VI- Lecturer cum Researcher (Full-time)
2. Education
<ul style="list-style-type: none">- Doctor of Philosophy: Chemistry<ul style="list-style-type: none">● Major: Chemistry● Academic institutions: Thammasat University, Thailand● Year: 2020- Master of Science: Chemistry<ul style="list-style-type: none">● Major: Chemistry● Academic institutions: Thammasat University, Thailand● Year: 2016- Bachelor of Engineering: Chemical Engineering<ul style="list-style-type: none">● Major: Petrochemical● Academic institutions: Industrial University of HoChiMinh City, Viet Nam● Year: 2014
3. Academic experience
<ul style="list-style-type: none">- 01/2021 – Ongoing- Nguyen Tat Thanh University- Address: 300A Nguyen Tat Thanh Street Ward 13, District 4, Ho Chi Minh City, Viet Nam- Faculty : Environmental and Food Engineering- Administrative position: Lecturer cum Researcher
4. Non-academic experience
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5. Certifications or professional registrations
<ul style="list-style-type: none">- Informatics certificate (A,B)- Professional certificate of teaching
6. Membership in professional organizations
<ul style="list-style-type: none">- Quality Assurance and Accreditation ISC/IEC 17025 and ISO/IEC 17020, April 2016, Thammasat University, Thailand.- ACS/CST BOOST Skills Workshop for Young Thai Scientists and Engineers, July 2015, Thammasat University, Thailand.
7. Honors and awards
<ul style="list-style-type: none">[1] Best Oral Presentation Award for Oral Presentation in the 31st International Symposium on Chemical Engineering (ISChE) on Dec 30–2, 2018, Chiang Mai, Thailand.[2] Scholarship for youth chemists participating at the 8th IUPAC International Conference on Green Chemistry (ICGC) on Sep 9–14, 2018, Bangkok, Thailand.

[3] Best Oral Presentation Award for Oral Presentation in the 30 th International Symposium on Chemical Engineering (ISChE) on Dec 1–3, 2017, Deajeon, Korea.
[4] Best Student Paper Award for Oral Presentation in the 3 rd Asian Conference on Biomass Science (ACBS) on January 19, 2016, Niigata, Japan.
[5] Best Master Thesis Award in Science and Technology, Thammasat University, 2016
8. Service activities
- Teaching activities: Physical chemistry, Chemical reaction engineering, Organic chemistry - Scientific research: Principal Investigator (PI) of the project funded by NTTU
9. Areas of research
- Synthesis and application of nano materials - Synthesis and application of heterogeneous catalyst for biomass conversion - Biofuel - Renewable Energy - Petrochemical
10. Publications, presentations, creative works
<i>International Journals (ISI):</i>
[1] T.T.V. Tran , D-V.N. Vo, S.T. Nguyen, S.D.N Luu, M. Mofijur, C.M. Vu (2021), In situ sintered silver decorated 3D structure of cellulose scaffold for highly thermoconductive electromagnetic interference shielding epoxy nanocomposites, <i>Journal of Applied Polymer Science</i> , e51193. <i>Accepted</i> . ISSN: 1097-4628
[2] T.T.V. Tran , D-V.N. Vo, S.T. Nguyen, C.M. Vu (2021), Silver nanowires decorated recycled cigarette filters-based epoxy composites with high through-plane thermal conductivity and efficient electromagnetic interference shielding, <i>Composites Part A: Applied Science and Manufacturing</i> , <i>In Press, Journal Pre-proof</i> , 106485, ISSN: 1878-5840
[3] L.K. Hoang Pham, T.T.V. Tran , S. Kongparakul, P. Reubroycharoen, M. Ding, G. Guan, D.-V.N. Vo, P. Jaiyong, N. Youngvises, C. Samart (2021), Data-driven prediction of biomass pyrolysis pathways toward phenolic and aromatic products, <i>Journal of Environmental Chemical Engineering</i> , 9, 104836, ISSN: 2213-3437
[4] P. Panpian, T.T.V. Tran , S. Kongparakul, L. Attanatho, Y. Thanmongkhon, P. Wang, G. Guan, N. Chanlek, Y. Poo-arporn, C. Samart (2021), Production of bio-jet fuel through ethylene oligomerization using NiAlKIT-6 as a highly efficient catalyst, <i>Fuel</i> , 287, 119831, ISSN: 0016-2361
[5] T.T.V. Tran , M. Obpirompoo, S. Kongparakul, S. Karnjanakom, P. Reubroycharoen, G. Guan, N. Chanlek, C. Samart (2020), Glycerol valorization through production of di-glyceryl butyl ether with sulfonic acid functionalized KIT-6 catalyst, <i>Carbon Resources Conversion</i> , 3, 182-189, ISSN: 2588-9133

- [6] N.T. Dat, **T.T.V. Tran**, C.N. Van, D.-V.N. Vo, S. Kongparakul, H. Zhang, G. Guan, C. Samart (2020), Carbon sequestration through hydrothermal carbonization of expired fresh milk and its application in supercapacitor, *Biomass and Bioenergy*, 143, 105836, ISSN: 0961-9534
- [7] P. Waribam, S.D. Ngo, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, N. Chanlek, L. Wei, H. Zhang, G. Guan, C. Samart (2020), Waste biomass valorization through production of xylose-based porous carbon microspheres for supercapacitor applications, *Waste Management* 105, 492-500, ISSN: 0956-053X
- [8] S.D. Ngo, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, P. Kidkhuntod, N. Chanlek, J. Wang, G. Guan, C. Samart (2020), Catalytic pyrolysis of Napier grass with nickel-copper core-shell bifunctional catalyst, *Journal of Analytical and Applied Pyrolysis* 145, 104745, ISSN: 1873-250X
- [9] **T.T.V. Tran**, S. Kongparakul, S. Karnjanakom, P. Reubroycharoen, G. Guan, N. Chanlek, C. Samart (2020), Selective production of green solvent (isoamyl acetate) from fusel oil using a sulfonic acid-functionalized KIT-6 catalyst, *Molecular Catalysis* 484, 110724, ISSN: 2468-8231
- [10] W. Kettum, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, J. Wang, G. Guan, M. Ding, C. Samart (2020), High selective monoaromatic hydrocarbon production via integrated pyrolysis and catalytic upgrading of Napier grass over Ca/Ni/boronic acid/KIT-6, *Biomass Conversion and Biorefinery* 10, 423 – 434, ISSN: 2190-6823
- [11] L.K.H. Pham, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, S. Karnjanakom, G. Guan, C. Samart (2019), Formation and activity of activated carbon supported Ni₂P catalysts for atmospheric deoxygenation of waste cooking oil, *Fuel Processing Technology* 185, 117-125, ISSN: 1873-7188
- [12] L.K.H. Pham, S.D. Ngo, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, C. Chaiya, D.-V.N. Vo, G. Guan, C. Samart (2019), Integrated catalytic hydrodeoxygenation of Napier grass pyrolysis vapor using a Ni₂P/C catalyst, *Journal of Analytical and Applied Pyrolysis* 140, 170 – 178, ISSN: 1873-250X
- [13] **T.T.V. Tran**, S. Kongparakul, S. Karnjanakom, P. Reubroycharoen, G. Guan, N. Chanlek, C. Samart (2019), Highly productive xylose dehydration using a sulfonic acid functionalized KIT-6 catalyst, *Fuel* 236, 1156-1163, ISSN: 0016-2361
- [14] W. Kettum, **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, G. Guan, N. Chanlek, C. Samart (2018), Heavy metal sequestration with a boronic acid-functionalized carbon-based adsorbent, *Journal of Environmental Chemical Engineering* 6 (1), 1147-1154, ISSN: 2213-3437
- [15] **T.T.V. Tran**, S. Kongparakul, P. Reubroycharoen, G. Guan, M.H. Nguyen, N. Chanlek, C. Samart (2018), Production of furan-based biofuel with an environmental benign carbon catalyst, *Environmental Progress & Sustainable Energy* 37(4), 1455-1461, ISSN: 1944-7450
- [16] T.T.V. Tran, S. Kaiprommarat, S. Kongparakul, P. Reubroycharoen, G. Guan, M.H. Nguyen, C. Samart (2016), Green biodiesel production from waste cooking oil using an environmentally benign acid catalyst, *Waste Management* 52, 367-374, ISSN: 0956-053X

National Journals:

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International Conference proceedings:

- [1] Oral presentation in topic: "Esterification of Fusel Oil and Acetic Acid via Sulfonated KIT-6 Mesoporous Silica" in the 1st Thailand Biorefinery Conference on July 25-26, 2019, Suranaree University of Technology, Nakhon Ratchasima, Thailand.
- [2] Oral and poster presentation in topic: "Esterification of Fusel Oil by Heterogeneous Sulfonated KIT-6 Mesoporous Catalyst" in the 8th International Symposium on Catalysis and Fine Chemicals (C&FC) on December 10-14, 2018, Chulalongkorn University, Bangkok, Thailand.
- [3] Oral presentation in topic: "Esterification of Fusel Oil by Sulfonated KIT-6 Mesoporous Silica Catalyst" in the 31st International Symposium on Chemical Engineering (ISChE) on November 30 – December 2, 2018, ChiangMai, Thailand.
- [4] Oral presentation in topic: "Dehydration of D-xylose into Furfural Production over KIT-6 Mesoporous Sulfonic Acid Catalyst" in the 8th IUPAC International Conference on Green Chemistry (ICGC) on September 9-14, 2018, Shangri-La Hotel, Bangkok, Thailand.
- [5] Poster presentation in topic: "Furfural Production with MPr-SO₃H-KIT-6 Mesoporous Catalyst via Xylose Dehydration Process" in the PACCON 2018 on February 7-9, 2018, Songkla University, Hat Yai, Thailand.
- [6] Oral presentation in topic: "Dehydration of D-xylose into Furfural Production over KIT-6 Mesoporous Sulfonic Acid Catalyst" in the NSYSU-TU Bilateral Workshop on Chemical Science on January 15-18, 2018, National Sun Yat-sen University, Kaohsiung, Taiwan.
- [7] Oral presentation in topic: "Preparation of KIT-6 Mesoporous Catalysts for Furfural Production from Xylose Dehydration" in the 30th International Symposium on Chemical Engineering (ISChE) on December 1-3, 2017, KAIST Daejeon, Korea.
- [8] Oral presentation in topic: "Development Sulfonated Carbon Microsphere for the Catalyst of Biodiesel Production" in the 3rd Asian Conference on Biomass Science (ACBS 2016), January 19, 2016, Niigata, Japan.
- [9] Oral presentation in topic: "Cleaner Biodiesel Production from Waste Cooking Oil using a Carbon Solid Acid Catalyst" in the 5th International Conference on Green and Sustainable Innovation (ICGSI 2015), November 8 – 10, 2015, Pattaya, Thailand.
- [10] Oral presentation in topic: "Sulfonated Carbon Microsphere Catalyst for Biodiesel Production from Waste Cooking Oil" in the AUN/SEED-NET Regional Conference on Materials Engineering (RCME 2015), October 29 – 30, 2015 Bangkok, Thailand.
- [11] Oral presentation in topic: "Green Production of Carbon Microsphere by Hydrothermal Carbonization of Xylose" in Biotechnology International Congress (BIC 2015), TU-TSB Special Session on Biomass Utilization, September 10, 2015, BITEC, Bangkok, Thailand.

11. Professional development activities

- Participating in reports on scientific research.

- Participating in international conferences
- Participating as a Guest Reviewer for several special issues in ISI/Scopus journals such as Molecular Catalysis (Elsevier), Waste and Biomass Valorization (Springer), Scientific Reports (Springer Nature) and Biomass Conversion and Biorefinery (Springer).

12. Teaching competence

- Fulfilling effective teaching activities, including lecturing and improving teaching methods.
- Participating in the design of teaching programs and syllabuses.
- Instructing students in scientific research in the major of Environmental Chemistry and Chemical Engineering.