



CURRICULUM VITAE



Prof. Ir. Dr. Thomas Choong
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Education

1. Ph.D. Chemical Engineering, 2000, University of Cambridge, UK
2. M.Eng. Chemical Engineering, 1995, Universiti Teknologi Malaysia.
3. B. Eng. Chemical Engineering, 1991, Universiti Teknologi Malaysia.

Areas of Interest

1. Process Simulation, Adsorption Science and Technology, Separation Process

Professional Qualification/ Membership/ Affiliation

1. Fellow, The Institution of Chemical Engineers, UK (IChemE)
2. Advisor, Chemical Engineering Technical Division, 2012-2014
3. Member, The Institution of Engineers, Malaysia (IEM)
4. Member, Board of Engineers Malaysia (BEM)

Appointments

Position	Duration
1. Head, Unit of Industry & Community Relations, Faculty of Engineering, UPM	2011 - 2013

Publications

Journals (30 recent journals)

1. Nourouzi, M.M., Chuah, T.G., Choong, T.S.Y. and Rabiei, F. (2012) Modeling biodegradation and kinetics of glyphosate by artificial neural network, Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes, 47(5), 455-465.
2. Chang, T.S., Masood, Hassan, Yunus, R., Rashid, Umer, Choong, T.S.Y. and Biak, D.R.A. (2012). Activity of calcium methoxide catalyst for synthesis of high oleic palm oil-based trimethylolpropane triesters as lubricant base stock. Industrial & Engineering Chemistry Research, 51(5), 5438-5442.
3. Phuah, E.T., Lai, O.M., Choong, T.S.Y., Tan, C.P. and Lo, S.K. (2012). Kinetic study on partial hydrolysis of palm oil catalyzed by Rhizomucor miehei lipase, Journal of Molecular Catalysis B: Enzymatic, 78, 91-97.
4. Nurmaziah Mohammad, Thomas S.Y. Choong, Chiou-Moi Yeoh and Oi-Ming Lai (2012) Recent Patents on Diacylglycerol Production and Applications, Recent Patents on Chemical Engineering, 2012, 5, 103-109.
5. Soraya Hosseini, Thomas S.Y. Choong & Muhammad Hamid (2012): Adsorption of a cationic dye from aqueous solution on mesoporous carbon-based honeycomb monolith, Desalination and Water Treatment, 49:1-3, 326-336.
6. Muhammad, Moonis Ali Khan, T.G. Chuah, Thomas S.Y. Choong (2013) β -carotene adsorption onto mesoporous carbon coated monolith column: Dynamic studies, Chemical Engineering Communications, 200:10, 1322-1333
7. Hamidah Abd Hamid, Robiah Yunus, Umer Rashid, Thomas S.Y. Choong, Ala'a H. Al-Muhtaseb (2012) Synthesis of palm oil-based trimethylolpropane ester as potential biolubricant: Chemical kinetics modeling, Chemical Engineering Journal, 200-202, 532-540.

8. Mahendra Kumar, Moonis Ali Khan, Zeid A. Al-Othman and Thomas S. Y. Choong (2013) Recent Developments in Ion-Exchange Membranes and Their Applications in Electrochemical Processes for in situ Ion Substitutions, Separation and Water Splitting, Separation & Purification Reviews, 42,187–261.
9. Yi Peng Teoh, Moonis Ali Khan, Thomas S.Y. Choong (2013) Kinetic and isotherm studies for lead adsorption from aqueous phase on carbon coated monolith, Chemical Engineering Journal, 217, 248–255.

Conference Proceedings (30 recent Conference Proceedings)

1. Teoh, Y.P., Choong, T.S.Y. and Bayesti, I. (2011). Modeling of carbon dioxide adsorption in a monolithic column, 3rd International Congress on Green Process Engineering, 6-8 December 2011, Kuala Lumpur, Malaysia.
2. Ismail, R. and Choong, T.S.Y (2011). Preliminary studies of forward osmosis process, ICCEIB - SOMChE 2011, 28th November - 1st December 2011, Kuantan, Malaysia.
3. Choong, T.S.Y., Ahmadun, F.R., Chuah, T.G. and Norzilah Abdul Halif. (2012) The effect of reactor temperature and hydrogen flow rate on carbon nanofibers (CNFs) characterizations and their adsorption capacity, 6th Pacific Basin Adsorption Science & Technology (PBAST-6), 20-23 May 2012, Taipei, Taiwan.
4. C.K. How, Soraya Hosseini, T.G. Chuah and Thomas S.Y. Choong (2013) Adsorption of Beta-Carotene onto Mesoporous Carbon Coated Monolith Synthesized via Organic-organic Self-Assembly Approach by using Triblock Copolymer Pluronic F-127, 13th ANST International Symposium on Adsorption Nanoscience and Nanotechnology, October 20-23, 2013, Zhangzhou, China.

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Ordered Mesoporous Carbon Monolith via Triblock Copolymer-Template: Synthesis and Mechanism	90,000	2014-2015	FRGS
2.	Carbon Nanotube Monolith: Synthesis, Optimisation and Application	150,000	2014-2015	FRGS

Awards/Recognition (Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Silver Medal	Mesoporous polymer derived activated carbon monolith	Pameran Reka Cipta, Penyelidikan & Inovasi UPM 2010.	National	2010

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2012-13	Process calculations of an ester manufacturing plant	Kawan Dynamics Sdn Bhd	RM8,000
2.	2013	Chemical Engineering Design	Solution Bioforce Sdn Bhd	RM2,000

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Lai Ying Ling	Simulation of Single and Dual Layered Rapid Pressure Swing Adsorption	Graduated
2.	Hanizah binti Arifin	Application of Forward Osmosis in Palm Oil Mill Effluent	Ongoing

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Nima Zohdi	Adsorption of Boron using Modified Multiwalled Carbon Nanotubes	Graduated

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Uswatun Hasanah Ramli	Biodiesel Production from Palm Fatty Acid Distillate using Sugar Catalyst Monolith	Graduated