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## CHALOR JARUSUTTHIRAK

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<b>Date of Birth:</b>	29 May 1969	<b>Mobile:</b>	(66)-86-380-0339
<b>Gender:</b>	Male	<b>Citizenship:</b>	Thailand
		<b>Language:</b>	Thai, English (Fluent)

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### Education

1997 - 2002	<b>University of Colorado at Boulder</b> Ph.D. (Civil Engineering) Majoring in Environmental Engineering	CO, USA.
1994 - 1995	<b>Asian Institute of Technology (AIT)</b> M.Sc. (Environmental Engineering) Majoring in Water and Wastewater Engineering	Thailand
1986 - 1990	<b>Mahidol University</b> B.Sc. (Public Health) Majoring in Occupational Health and Safety	Thailand

### Professional Experience

06/2020-Present	<b>Associate Professor</b> Dept. of Environmental Technology and Management, Faculty of Environment, Kasetsart University
08/2019-Present	<b>Associate Dean for Academic Services and Corporate Communication</b> Faculty of Environment, Kasetsart University
05/2013-06/2020	<b>Assistant Professor</b> Dept. of Environmental Technology and Management, Faculty of Environment, Kasetsart University
08/2015-07/2019	<b>Associate Dean for Planning and Development</b> Faculty of Environment, Kasetsart University
05/2009-04/2013	<b>Head of Department</b> Dept. of Chemistry, Faculty of Science, King Mongkut's Institute of Technology Ladkrabang
06/2006-04/2013	<b>Assistant Professor</b> Dept. of Chemistry, Faculty of Science, King Mongkut's Institute of Technology Ladkrabang
04/1997-06/2006	<b>Lecturer</b> Dept. of Chemistry, Faculty of Science, King Mongkut's Institute of Technology Ladkrabang
09/1995-03/1997	<b>Environmental Engineer</b> Pro-En Consultant Co.Ltd., Bangkok
05/1990-10/1993	<b>Safety and Environmental Officer</b> Thai Plastic and Chemical Co.Ltd., Rayong

## Special Training

2019	<b>Advancement in Water and Wastewater Treatment and Reuse</b> WEF-EESS Conference, Singapore
2016	<b>Development of IPCC emission factor database on waste sector</b> The 14 <sup>th</sup> Expert Meeting on Data (Waste Sector) for the IPCC Emission Factor Database (EFDB), Bali, Indonesia
2016	<b>Mini KU management 2016</b> Training Course for Management Team, Kasetsart University, Bangkok, Thailand
2016	<b>Capacity building for measurement, reporting and verification</b> The 14 <sup>th</sup> Workshop on GHG Inventories in Asia (WGIA14), Ulaanbaatar, Mongolia
2016	<b>Lean management for environment and innovative technology</b> Thailand Environment Institute, Bangkok, Thailand
2016	<b>Development of greenhouse gas emission inventory system</b> Thailand-Australia Cooperation on Greenhouse Gas Inventory Systems, Canberra, Australia
2014	<b>National inventory systems improvement, archive procedure, development of action plans</b> Session 2- Regional Training on National Greenhouse Gases Inventory, Bangkok, Thailand
2014	<b>Institutional arrangements, key categories analysis, method and data documentation, quality assurance/quality control</b> Session 1- Regional Training on National Greenhouse Gases Inventory, Pathumthani, Thailand
2010	<b>Carbon Footprint of Products</b> National Science and Technology Development Agency (NSTDA), Bangkok, Thailand
2010	<b>Life Cycle Assessment</b> National Science and Technology Development Agency (NSTDA), Bangkok, Thailand

## Expertise and Research

- Waste and wastewater technology: catalytic ozonation, advanced oxidation processes, membrane technology, methane recovery from wastewater treatment, etc.
- Greenhouse gas inventory and mitigation actions in waste sector

## Research and Project Management Experience

2019	<b>Greenhouse Gas Data Compilation and Inventory from 5 Sectors during 2000-2015 for Thailand Greenhouse Gas Emissions Inventory System (TGEIS)</b> Office of Natural Resources and Environmental Policy and Planning (ONEP)
2018	<b>Development of National Reference based on WaCCliM Roadmap for WWUs towards Carbon Neutrality in Thailand</b> GIZ
2017	<b>Development of Measurement, Reporting, and Verification (MRV) System for Thailand's Greenhouse Gas (GHG) Inventory (Phase 3)</b> Office of Natural Resources and Environmental Policy and Planning (ONEP)
2016	<b>Development of Measurement, Reporting, and Verification (MRV) System for Thailand's Greenhouse Gas (GHG) Inventory (Phase 2)</b> Office of Natural Resources and Environmental Policy and Planning (ONEP)
2015	<b>Development of Measurement, Reporting, and Verification (MRV) System for Thailand's Greenhouse Gas (GHG) Inventory</b> Office of Natural Resources and Environmental Policy and Planning (ONEP)
2014	<b>Thailand's Greenhouse Gas (GHG) Inventory and Mitigation for Biennial Update Report (BUR) and Third National Communication (TNC)</b> Office of Natural Resources and Environmental Policy and Planning (ONEP)

## Publication

- Her, N., Amy, G., **Jarusutthirak, C.** (2000) Seasonal variations of nanofiltration (NF) foulants: identification and control, *Desalination*, 132:143-160.
- **Jarusutthirak, C.**, and Amy, G.L. (2000) Influence of wastewater secondary effluent on NF and UF membrane filtration, *ACS Division of Environmental Chemistry, Preprints*, 40:2:289-291.
- **Jarusutthirak, C.**, and Amy, G. (2001) Membrane filtration of wastewater effluents for reuse: effluent organic matter rejection and fouling. *Water Science and Technology*. 43:10:225-232.
- **Jarusutthirak, C.**, Amy, G., and Crouè, J-P. (2002) Fouling characteristics of wastewater effluent organic matter (EfOM) isolates on NF and UF membranes, *Desalination*, 145:247-255.
- **Jarusutthirak, C.**, Amy, G., and Foss, D. (2003) Potable reuse of wastewater effluent through an integrated soil aquifer treatment (SAT) - membrane system, *Water Supply*, 3:3:25-33.
- **Jarusutthirak, C.** and Amy, G. (2006) Role of soluble microbial products (SMP) in membrane fouling and flux decline. *Environmental Science and Technology*, 40:3:969-974.
- **Jarusutthirak, C.**, Mattaraj, S., and Jiratananon, R. (2007) Influence of inorganic scalants and natural organic matter on nanofiltration membrane fouling, *J. Membrane Science*, 287:138-145.
- **Jarusutthirak, C.**, and Amy, G. (2007) Understanding soluble microbial products (SMP) as a component of effluent organic matter (EfOM), *Water Research*, 41:2787-2793.
- **Jarusutthirak, C.**, Mattaraj, S., and Jiratananon, R. (2007) Factors affecting nanofiltration performances in natural organic matter rejection and flux decline, *Separation Purification Technology*, 58:1:68-75.
- Mattaraj, S., **Jarusutthirak, C.**, and Jiratananon, R. (2008) A combined osmotic pressure and cake filtration model for crossflow nanofiltration of natural organic matter, *J. Membrane Science*, 332:2:475-483.
- Mattaraj, S., **Jarusutthirak, C.**, Charoensuk, C., and Jiratananon, R. (2011) A combined pore blockage, osmotic pressure, and cake filtration model for crossflow nanofiltration of natural organic matter and inorganic salts, *Desalination*, 274:1-3:182-191.
- **Jarusutthirak, C.**, Sangsawang, K., Mattaraj, S., and Jiratananon, R. (2012) Treatment of formaldehyde-containing wastewater using membrane bioreactor, *J. Environmental Engineering.*, 138:3:265-271.
- Hongthong, P., Mattaraj, S., **Jarusutthirak, C.**, and Jiratananon, R. (2012) Effects of solution pH and ion strength for removal of combined natural organic matter and copper (II) ion by membrane nanofiltration, *J. Environmental Research*, 34:2:39-56.
- Chantes, P., **Jarusutthirak, C.**, Kanchanapiya, P., and Danwittayakul, S. (2015) Treatment of textile dyeing wastewater by electrocoagulation, *Key Engineering Materials*, 659: 284-288.
- Kruanak, K. and **Jarusutthirak, C.** (2019) Degradation of 2,4,6-trichlorophenol in synthetic wastewater by catalytic ozonation using alumina supported nickel oxides, *Journal of Environmental Chemical Engineering*, 7:102825.
- Sukmilin, A., Boonchom, B. , and **Jarusutthirak, C.** (2019) Catalytic ozonation using iron-doped water treatment sludge as a catalyst for treatment of phenol in synthetic wastewater, *Environment and Natural Resources Journal*, 17(2): 87-95.
- Sukmilin, A., Boonchom, B., and **Jarusutthirak, C.** (2019) A novel catalyst from water treatment sludge for catalytic ozonation to degrade phenol, *EnvironmentAsia*, 12(2): 24-31.
- Niravanh, P. and **Jarusutthirak C.** (2020) Estimation of methane emission from solid waste landfill site, Savannakhet Province, Lao PDR. *EnvironmentAsia*, 13(special issue): 26-37.