

## Curriculum Vitae



### **Dr Chuah Chong Joon**

Senior Lecturer

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## Education Qualifications

2016	PhD (Geography), National University of Singapore (NUS), Singapore
2010	Master of Engineering (Environmental), NUS, Singapore
1994	Bachelor of Engineering (Civil), Universiti Teknologi Malaysia, Malaysia

## Memberships and Professional Activities/Publications

2024 – present	Topic Editor, Environmental Science and Technology (ES&T): Water, American Chemical Society (ACS) Publications
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## Research Interests

- Integrated water resources management
- Hydroclimatic disaster risk reduction
- Hydrological and environmental processes
- Environmental impact assessment
- Water sensitive urban design
- Sanitation and public health
- Food security

## Publications

### Journal Papers:

- Lee T.H.Y., **Chuah C.J.**, Snyder S.A., 2022. Occurrence of Emerging Contaminants in Southeast Asian Environments: Present Status, Challenges, and Future Prospects. *ACS ES&T Water*, 2 (6), 907-931
- Das S., Sheth A.N., Bansal P., **Chuah C.J.**, Wasson R.J., 2022. A statistical comparison of flood-related economic damage in Indian states with reflections on policy implications, *International Journal of Disaster Risk Reduction*, 72, 102835
- Ramchunder S.J., Voutchkova D.D., Estrada E.S., **Chuah C.J.**, Evaristo J., Ng D., Cai Y., Koh R.Y.T., Ziegler A.D., 2021. Flowpath influence on stream acid events in tropical urban streams in Singapore, *Hydrological Processes*, 36, e14467
- Pak H.Y., **Chuah C.J.**, Yong E.L., Snyder S.A., 2021. Effects of land-use configuration, seasonality and point-source on water quality in a tropical watershed: A case study of Johor River Basin, *Science of the Total Environment*, 780 (1), 146661
- Wasson R.J., Ziegler A.D., Lim H.S., Teo E., Lam D., Higgitt D., Rittenour T., Mohamed Ramdzan K.R., **Chuah C.J.**, Singhvi A.K., 2021. Episodically Volatile High Energy Non-Cohesive River-Floodplain Systems: New Information from the Ping River, Thailand, and a Global Review. *Geomorphology*, 382 (1), 107658
- Woon S.H.J., Srinuansom K., **Chuah C.J.**, Ramchunder, S.J., Promya J., Ziegler A.D., 2021. Pre-closure assessment of elevated arsenic and other potential environmental constraints to developing aquaculture and fisheries: The case of the Mae Moh mine and power plant, Lampang, Thailand. *Chemosphere*, 269, 128682
- Pak H.Y., **Chuah C.J.**, Tan M.L., Yong E.L., Snyder S.A., 2021. A framework for assessing the adequacy of Water Quality Index - Quantifying parameter sensitivity and uncertainties in missing values distribution. *Science of the Total Environment*, 751, 141982
- Wasson R., Saikia A., Bansal P., **Chuah C.J.**, 2020. Flood mitigation, climate change adaptation and technological lock-in in Assam. *Ecology, Economy and Society*, 3 (2): 83-104
- Qi Z., You S., Liu R., **Chuah C.J.**, 2020. Performance and mechanistic study on electrocoagulation process for municipal wastewater treatment based on horizontal bipolar electrodes. *Frontiers of Environmental Science & Engineering*, 14 (3): 40
- Xing J., Liang H., **Chuah C.J.**, Bao Y., Luo X., Wang T., Wang J., Li G., Snyder S.A., 2019. Insight into Fe(II)/UV/chlorine pre-treatment for reducing ultrafiltration (UF) membrane fouling: Effects of different natural organic fractions and comparison with coagulation. *Water Research*, 167, 115112
- Xing J., Liang H., Xu S., **Chuah C.J.**, Luo X., Wang T., Wang J., Li G., Snyder S.A., 2019. Organic matter removal and membrane fouling mitigation during algae-rich surface water treatment by powdered activated carbon adsorption pre-treatment: Enhanced by UV and UV/chlorine oxidation. *Water Research*, 159: 283-293
- Lebel L., Lebel P., **Chuah C.J.**, 2019. Water use by inland aquaculture in Thailand: stakeholder perceptions, scientific evidence and public policy. *Environmental Management*, 63 (4): 554-563
- Wasson R.J., Jain V., Lahiri S., Parkash S., Singhvi A.K., Varma N., Bansal P., **Chuah C.J.**, 2019. Riverine flood hazard: Disaster risk reduction in India. *Proceedings of the Indian National Science Academy*, 85 (1): 65-76
- **Chuah C.J.**, Ho B.H., Chow W.T.L., 2018. Trans-boundary variations in urban drought vulnerability and its impact on water resource management in Singapore and Malaysia (Johor). *Environmental Research Letters*, 13, 074011
- Lebel L., Lebel P., **Chuah C.J.**, 2018. Governance of aquaculture water use. *International Journal of Water Resources Development*, DOI: 10.1080/07900627.2018.1457513
- **Chuah C.J.** and Ziegler A.D., 2018. Temporal variability of faecal contamination from on-site sanitation systems in groundwater of Northern Thailand. *Environmental Management*, 61 (6): 939-953
- Chan F.K.S, **Chuah C.J.**, Ziegler A.D., Dabrowski M., Varis, O., 2018. Towards resilient flood risk management for Asian coastal cities: Lessons learned from Hong Kong and Singapore. *Journal of Cleaner Production*, 187 (20): 576-589
- **Chuah C.J.**, Tan E.K.H, Sermswan R.W., Ziegler A.D., 2017. Hydrological connectivity and *Burkholderia Pseudomallei* prevalence in wetland environments: Investigating rice-farming community's risk of exposure to melioidosis in North-East Thailand. *Environmental Monitoring and Assessment*, 189 (6):287
- Abdul Majid A.M., Mahboob T., Mong B.G.J., Jaturas N., Richard R.L., Tan T.C., Phimpila A., Mahaphonh P., Aye K.N., Aung W.L., **Chuah J.**, Ziegler A.D., Yasiri A., Sawangjaroen N., Lim Y.A.L., Nissapatorn V., 2016. Pathogenic waterborne free-living amoebae: An update from selected Southeast Asian countries. *PLOS ONE*, 12 (5): e0177564
- **Chuah C.J.**, Mukhaidin N., Choy S.H., Smith G.J.D., Mendenhall I.H., Lim Y.A.L., Ziegler A.D., 2016. Prevalence of *Cryptosporidium* and *Giardia* in the water resources of the Kuang River Catchment, Northern Thailand. *Science of the Total Environment*, 562: 701-713

- **Chuah C.J.**, Lye H.R., Ziegler, A.D., Wood S.H., Kongpun C., Rajchagool S., 2016. Fluoride: A naturally-occurring health hazard in drinking-water resources of Northern Thailand. *Science of the Total Environment*, 545-546: 266-279
- Ziegler A.D., Echaubard P., Lee Y.T., **Chuah C.J.**, Wilcox B.A., Grundy-Warr C., Sithithaworn P., Petney T.N., Laithevewat L., Ong X., Andrews R.H., Sripa P., Khuntikeo N., Poonpon K., Tungtang P., Tuamsuk K., 2016. Untangling the complexity of liver fluke infection and cholangiocarcinoma in northeast Thailand through transdisciplinary learning. *Ecohealth*, 13 (2): 316-327
- Manocha N. and **Chuah C.J.**, 2016. Water Leaders Summit 2016: Future of world's water beyond 2030 – A retrospective analysis. *International Journal of Water Resources Development*, DOI: 10.1080/07900627.2016.1244643
- Ziegler A.D., Terry J.P., Oliver G.J.H., Friess D.A., **Chuah C.J.**, Chow W.T.L., Wasson R.J., 2014. Increasing Singapore's resilience to drought. *Hydrological Processes*, 28 (15): 4543-45