

CV of Professor Chuyang Tang

1. Academic Qualification

- PhD (2007), Stanford University, U.S.A.
- MPhil (2002), Nanyang Technological University, Singapore
- BSc (1st Class Hon.; 2000), Nanyang Technological University, Singapore

2. Positions Held (Chronological Order)

- Professor (2018-present) and Associate Professor (2013-2018), Department of Civil Engineering, The University of Hong Kong (HKU) (2018-present)
- Associate Professor (2012-2013) and Assistant Professor (2006-2012), School of Civil & Environmental Engineering, Nanyang Technological University
- Deputy Director, Singapore Membrane Technology Centre, Nanyang Technological University (2012-2013)

3. Research Areas Related to Ocean Science, Technology and/or Policy

- Professor Tang is an environmental engineer and his research is focused on seawater desalination, pollution control, beneficial use of saline brine, and energy and resources harvest from the ocean (blue energy, precious metal recovery (e.g., lithium)).

4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

Professor Tang has completed a number of externally research projects with funding from Hong Kong, Singapore, Finland, Australia, and the Middle East (total value > HK\$50 m) and trained 16 PhD and 1 MPhil students as well as 20 postdoctoral researchers. Some of his recent projects related to Ocean Science, Technology and/or Policy include:

- Energy-efficient and environmentally-friendly smart seawater desalination system, HK\$6.2 million, Collaborative Research Fund, RGC, Hong Kong (Jun 2018-May 2021)
- Sub-consultant, Tseung Kwan O Desalination Plant (Apr 2016 – present)
- Sub-consultant, Study on the Brine Disposal Pipeline of the Red Sea - Dead Sea Phase I Project by the European Investment Bank (Jul 2017-Dec 2017)

5. Five Key Publications over the Past 5 Years (*Corresponding author)

- Mei, Y.; Liu, L.; Lu, Y.-C.; **Tang, C. Y.***, Reverse Electrodialysis Chemical Cell for Energy Harvesting from Controlled Acid–Base Neutralization. *Environmental Science & Technology* (IF: 7.149) 2019, 53, (8), 4640-4647.
- Yang, L.; Chen, X.; She, Q.; Cao, G.; Liu, Y.; Chang, V. W. C.*; **Tang, C.Y.***, Regulation,

formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. *Environment International* (IF: 7.943) 2018, 121, 1039-1057.

- Chang, J.; Shi, Y.; Wu, M.; Li, R.; Shi, L.; Jin, Y.; Qing, W.; **Tang, C.Y.**; Wang, P.*, Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. *Journal of Materials Chemistry A* (IF:10.733) 2018, 6, (19), 9192-9199.
- Mei, Y.; **Tang, C.Y.***, Co-locating reverse electrodialysis with reverse osmosis desalination: Synergies and implications. *Journal of Membrane Science* (IF: 7.015) 2017, 539, 305-312.
- She, Q.; Wei, J.; Ma, N.; Sim, V.; Fane, A. G.; Wang, R.; **Tang, C.Y.***, Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. *Journal of Membrane Science* (IF: 7.015) 2016, 504, 75-88.

6. Awards and Recognition

- >30 times recognition for Highly Cited Papers, Top Cited Authors, Best Presentations;
- Gold Medal, Geneva International Exhibition of Inventions, 2019;
- Desalter to Watch, Global Water Intelligence, 2015;
- Singapore Ministry for National Development R&D Merit Award, 2013;
- Finland Distinguished Professor Program Fellowship Award, 2010;
- International Desalination Association Fellowship, 2010