



## Tran Thi Kim Anh

### Education

Ph.D. in Chemical Engineering (2014)  
M.Sc. in Environmental Engineering (2008)  
B.Sc. in Environmental Engineering (2005)

### Lecture

Water treatment

### Field of interest

Resource recovery: phosphate recovery from wastewater and other sources using (s)electrodialysis and pellet crystallization.  
Concentrate treatment by using electrodialysis for water reuse  
Acid/base regeneration from wastewater by electrodialysis with bipolar membrane.  
Scaling of membrane.

### Contact

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## PUBLICATIONS

1. **Tran, A.T.K.**, Zhang, Y., Lin, J., Mondal, P., Ye, W., Meesschaert, B., Pinoy, L., Van der Bruggen, B. (2015). Phosphate pre-concentration from municipal wastewater by electrodialysis: Effect of competing components. *Separation and Purification Technology*, 141, 38 – 47.
2. **Tran, A.T.K.**, Mondal, P., Lin, J., Meesschaert, B., Pinoy, L., Van der Bruggen, B. (2015). Simultaneous regeneration of inorganic acid and base from a metal washing step wastewater by bipolar membrane electrodialysis after pretreatment by crystallization in a pellet reactor. *Journal of Membrane Science*, 473, 118 – 127.
3. **Tran, A.T.K.**, Zhang, Y., De Corte, D., Hannes, J-B., Ye, W., Mondal, P., Jullok, N., Meesschaert, B., Pinoy, L., Van der Bruggen, B. (2014). P-recovery as calcium phosphate from wastewater using an integrated selectrodialysis/crystallization process. *Journal of Cleaner Production*, 77, 140 – 151.
4. **Tran, A.T.K.**, Jullok, N., Meesschaert, B., Pinoy, L., Van der Bruggen, B. (2013). Pellet reactor pretreatment: A feasible method to reduce scaling in bipolar membrane electrodialysis. *Journal of Colloid and Interface Science*, 401, 107 - 115.
5. **Tran, A.T.K.**, Zhang, Y., Jullok, N., Meesschaert, B., Pinoy, L., Van der Bruggen, B. (2012). RO concentrate treatment by a hybrid system consisting of a pellet reactor and electrodialysis. *Chemical Engineering Science*, 79, 228 - 238.

6. Mondal, P., **Tran, A.T.K.**, Van der Bruggen, B. (2014). Removal of As (V) from simulated groundwater using forward osmosis: Effect of competing and coexisting solutes. *Desalination*, 348, 33 - 38.
7. Mondal, P., Hermans, N., **Tran, A.T.K.**, Zhang, Y., Fang, Y., Wang, X., Van der Bruggen, B. (2014). Effect of physico-chemical parameters on inorganic arsenic removal from aqueous solution using a forward osmosis membrane. *Journal of Environmental Chemical Engineering*, 2, 1309 – 1316.
8. Ye, W., Wu, J., Ye, F., Zeng, H., **Tran, A.T.K.**, Lin, J., Luis, P., Van der Bruggen, B. (2015). Potential of osmotic membrane crystallization using dense membranes for Na<sub>2</sub>CO<sub>3</sub> production in a CO<sub>2</sub> capture scenario. *Crystal Growth & Design*, 15, 695 – 705.

**Books (Chapter):**

1. Mondal, P., **Tran, A.T.K.**, Van der Bruggen, B. (2014). The use of Reverse Osmosis (RO) membrane technology for removal of arsenic, fluorine and uranium from drinking water. In: *Membrane technologies towards energy efficient trace metal water treatment processes*. CRC Press/Francis&Taylor Group.