

	Current Position: Professor
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Research Interested	Marine Environmental Management, Marine Protected Area, Marine Pollution Prevention Technology, Marine Water Quality Monitoring and Management, Sea Water Desalination, Environmental Impact Assessment
Courses Offered	Marine Pollution, Marine Protected Area, Marine Resource Management and Policy, Marine Pollution Management and Policy
Services	1. Advisor of Master, PhD students in IOTMA 2. Committee member, Tainan City Marine Pollution Prevention Initiative

#### Representative Publications

##### A. Referred Paper

1. **Ta-Kang Liu\***, Chi-Hsin Chang, Ming-Li Chou (2014, Feb) “Management Strategies to Prevent the Introduction of Non-indigenous Aquatic Species in Response to the Ballast Water Convention in Taiwan”, *Marine Policy* 44:187-195. (SSCI)
2. **Ta-Kang Liu\***, Haw-Yang Sheu, Jhen-Yuan Tsai (2014, Feb) “Sulfur Dioxide Emission Estimate from Merchant Vessels in a Port Area and its Control Strategies”, *Aerosol and Air Quality Research* 14: 413–421. (SCI)
3. **Ta-Kang Liu\***, Haw-Yang Sheu, Chung-Ning Tseng (2013, Oct) “Environmental Impact Assessment of Seawater Desalination Plant under the Framework of Integrated Coastal Management”, *Desalination* 326: 10–18. (SCI)
4. Ping Chen , **Ta-Kang Liu\*** (2013, Oct) “Temporal and Spatial Variations of Heavy Metal Concentrations in Sediments of the Tainan Coastal Area, Anping Harbor and Tainan Canal, Southwestern Taiwan”, *Irrigation and Drainage* 62(S1): 1–9. (SCI)
5. Shao-Liang Hsu, **Ta-Kang Liu**, Kuan-Te Chen, Kwang-Tsao Shao, and I-Shiung Chen\* (2013, Oct) “Three newly recorded genera and species of

- Gobiid fishes (Teleostei: gobiidae) from the Dongsha Atoll (Pratas Islands), South China Sea”, *Journal of Marine Science and Technology-TW* 21(5):618–622. (SCI)
6. Ching-Ta Chuang, Jun-Yu Chen, Kuei-Chao Chang, Li-Wen Hung, Ta-Kang Liu (2013, Aug) “Critical success factors analysis of implementing MPA at the Yilan Gueishan Island, Taiwan”, *Journal of Marine Science and Technology-TW* 21(4): 423-429.
  7. **Ta-Kang Liu\***, Meng-Wei Wang, and Ping Chen (2013, Jul) “Influence of Waste Management Policy on the Characteristics of Beach Litter in Kaohsiung, Taiwan”, *Marine Pollution Bulletin* 72:99–106. (SCI)
  8. Chung-Ling Chen\*, **Ta-Kang Liu** (2013, Jul) “Fill the gap: Developing management strategies to control garbage pollution from fishing vessels” *Marine Policy* 40: 34–40. (SSCI)
  9. **Ta-Kang Liu\***, Jin-Li Yu, Chung-Ling Chen, and Ping-Sheng Wei (2012, Aug) “Information theoretic perspective on coastal water quality monitoring and management near an offshore industrial park”, *Environmental Monitoring and Assessment* 184: 4725–4735.
  10. **Ta-Kang Liu\***, Chung-Kung Tsai (2011, Mar) “Vessel traffic patterns in the Port of Kaohsiung and the management implication for preventing the introduction of non-indigenous aquatic species”, *Marine Pollution Bulletin* 62:602–608.
  11. **Ta-Kang Liu\***, Ching-Ju Chin (2009, May) “Improved coagulation performance using preformed polymeric iron chloride (PICl)”, *Colloids and Surface A: Physicochemical Engineering Applications* 339(1-3):192–198.
  12. **Ta-Kang Liu\***, Hwung-Hweng Hwung , Jin-Li Yu, and Ruey-Chy Kao (2008, Feb) “Managing deep ocean water development in Taiwan: Experiences and future challenges”, *Ocean & Coastal Management* 51(2): 126–140.
  13. Ching-Ju Monica Chin\*, Li-Chieh Shih, and **Ta-Kang Liu** (2007) “Adsorption of o- and p-xylene from water by single-walled carbon nanotubes”, *Carbon* 45 (6): 1254–1260
  14. **Ta-Kang Liu\*** and Edward S.K. Chian (2005), “Effect of Base Addition Rate on The Preparation of Partially Neutralized Ferric Chloride Solutions”, *Journal of Colloid and Interface Science* 284 (2): 542-547

## **B. Conference Paper**

1. **Ta-Kang Liu\***, Meng-Wei Wang (2011) “Characterization of beach litter in Cijin and its implications on solid waste management”, 5<sup>th</sup> International

Marine Debris Conference, Honolulu, Hawaii, March 19-25, 2011

2. **Ta-Kang Liu\***, Meng-Wei Wang (2010) “Characterization of Beach Litter in Cijin, Kaohsiung and Management Implication”, The 11th APEC Roundtable Meeting on the Involvement of the Business/Private Sector in the Sustainability of the Marine Environment, September 1, 2010, Taipei, Taiwan
3. **Ta-Kang Liu\***, Jin-Li Yu, Hwung-Hweng Hwung (2009) “Application of information theory for analyzing high-frequency environmental monitoring data from a coastal industrial park”, The 19th International, Offshore and Polar Engineering Conference Osaka, Japan, June 21-26, 2009
4. **Ta-Kang Liu\***, Hwung-Hweng Hwung, Jin-Li Yu, and Ruey-Chy Kao (2007) “Investigation of Potential Sites for Deep Ocean Water Development in Taiwan”, The 17th International, Offshore and Polar Engineering Conference Lisbon, Portugal, July 1-6, 2007
5. **Ta-Kang Liu\***, Kuo-Pei Tsai, Hsuan-Hsien Yeh, Ming-Chee Wu (2007) “Enhanced removal of boron from seawater reverse osmosis through polyol complexation”, Taiwan-Russia Bilateral Symposium on Water and Environmental Technology, Tainan, Taiwan, November 1-2
6. **Ta-Kang Liu\***, Ping Chen, and Jin-Li Yu (2005), “Coastal Water Quality Investigation Along The Shore of Tainan County”, 2005 Remote Sensing Symposium Across Taiwan Strait, Kunming, August 15-17

### **C. Technical Reports**

### **D. Books**

### **E. Patents and Technology Transfer**