

Curriculum Vitae

Name

Yung CHANG (張雍)

Education

Ph.D., Department of Chemical Engineering, National Taiwan University, Taiwan.

(台灣大學化學工程學 博士)

Professional Career

Distinguished Professor, Department of Chemical Engineering, Chung Yuan University (CYCU), Taiwan

Director, R&D Center for Membrane Technology, CYCU, Taiwan

Director, Executive Operation Office for Industry-Academia Collaboration, CYCU, Taiwan

Honor

Prof. Chang has been awarded prestigious honors for his past efforts and achievements, including the Wu Da-You Memorial Award from the National Science and Technology Council (國科會吳大猷獎), the Outstanding Research Award from the National Science and Technology Council (國科會傑出研究獎), the Executive Yuan Award for Outstanding Science and Technology Contribution from the Executive Yuan (行政院傑出科技貢獻獎), the 30th TECO Science and Technology Award from the TECO Technology Foundation(東元獎), the Outstanding Polymer Academic Research Award from The Polymer Society(高分子傑出研究獎), National Invention Award from the Ministry of Economic Affairs(國家發明獎), Outstanding International Research Award from the Asian Chemical Engineering Society, Academic Promotion Award from the Taiwan Institute of Chemical Engineers(化工學術勵進獎), Chemical Engineering Technology Award from the Taiwan Institute of Chemical Engineers(化工技術獎), Outstanding Research Award from Chung Yuan Christian University(中原大學傑出研究獎), Outstanding Industry-Academia Collaboration Award from Chung Yuan Christian University(中原大學傑出產學合作獎), and Lifetime Achievement Award in Technology Transfer from Chung Yuan Christian University(中原大學技轉終生成就獎).

Selected Recent Publications

Dr. Yung Chang has published over 265 academic papers and has received more than 11,300 citations, with an H-index of 59.

1. Venault, A.*; Tang, S.-H.; Lin, H.-F. ; Liu, C.-L.; **Yung Chang*** Spray-coating of

- a hydrophobic poly(tetrafluoroethylene) membrane with a copolymer containing sulfobetaine methacrylamide to boost hydration and reduce biofouling in view of improving diabetic wound management and alleviate the immune response. *Journal of Membrane Science*, **2023**, 685, 121962. (Impact Factor: 9.5)
2. Venault, A.*; Chang, KY; Maggay, IV; Yung Chang*; Assessment of the DCMD performances of poly(vinylidene difluoride) vapor-induced phase separation membranes with adjusted wettability via formation process parameter manipulation. *Desalination*, **2023**, 560, 116682. (Impact Factor: 9.9)
 3. Maggay, IV; Lin, HP; Geleta, TA; Yung Chang*; Huang, YT; Venault, A. 3 stage filtration system utilizing 3 distinct membranes derived from one single dope solution and finely-tuned phase inversion processes. *Separation And Purification Technology*, **2023**, 311, 123275. (Impact Factor: 8.6)
 4. Chiao, YH; Lin, HT; Ang, MBMY; Teow, YH; Wickramasinghe, SR; Yung Chang*. Surface Zwitterionization via Grafting of Epoxylated Sulfobetaine Copolymers onto PVDF Membranes for Improved Permeability and Biofouling Mitigation. *Industrial & Engineering Chemistry Research*, **2023**, 62(6), 2913-2923. (Impact Factor: 4.2)
 5. Tang, YJ; Zhang, D; Yung Chang; Zheng, J. Atrial Natriuretic Peptide Associated with Cardiovascular Diseases Inhibits Amyloid-beta Aggregation via Cross-Seeding. *ACS Chemical Neuroscience*, **2023**, 14(2), 312-322. (Impact Factor: 5.0)
 6. Irish Valerie Maggay, Ming-Lun Yu, Da-Ming Wang, Ching-Hsueh Chiang, Yung Chang, Antoine Venault. Strategy to prepare skin-free and macrovoid-free polysulfone membranes via the NIPS process. *Journal of Membrane Science*. **2022**, 655, 120597. (Impact Factor: 9.5)
 7. Antoine Venault, Yi-Tung Chin, Irish Maggay, Chih-Chen Yeh, Yung Chang*. Poly(vinylidene fluoride)/poly(styrene-co-acrylic acid) nanofibers as potential materials for blood separation. *Journal of Membrane Science*. **2022**, 641, 119881. (Impact Factor: 9.5)
 8. Venault, Antoine; Zhou, Rui-Jie; Galeta, Tesfaye Abebe; Yung Chang*. Engineering sterilization-resistant and fouling-resistant porous membranes by the vapor-induced phase separation process using a sulfobetaine methacrylamide amphiphilic derivative. *Journal of Membrane Science*, **2022**, 658, 120760. (Impact Factor: 9.5)
 9. C.-Y. Chiu, T.-J. Yen, Yung Chang*. Intelligent sterilizable self-cleaning membranes triggered by sustainable counterion-induced bacteria killing/releasing procedure. *Chemical Engineering Journal*, **2022**, 440, 135798. (Impact Factor: 15.1)

10. 30. Gian Vincent Dizon, Yu-Sheng Lee, Antoine Venault, Irish Valerie Maggay, **Yung Chang***. Zwitterionic PMMA-r-PEGMA-r-PSBMA copolymers for the formation of anti-biofouling bicontinuous membranes by the VIPS process. *Journal of Membrane Science*. **2021**, 618, 118753. (Impact Factor: 9.5)
11. Antoine Venault, Kuan-Han Lin, Shuo-Hsi Tang, Gian Vincent Dizon, Chen-Hua Hsu, Irish Valerie B. Maggay, and **Yung Chang***, Zwitterionic electrospun PVDF fibrous membranes with a well-controlled hydration for diabetic wound recovery, *Journal of Membrane Science*, **2020**, 598, 117648. (Impact Factor: 9.5)