

Yung Chang

Contact details:

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Education/Career:

2023-now Industry-University Operation Officer, Chung Yuan Christian University, Taiwan

2022-2023 Deputy R&D Officer, Chung Yuan Christian University, Taiwan

2017-now Director, R&D Center for Membrane Technology, Chung Yuan Christian University

2016-now Principle Founder, PuriBlood Biotechnology, Taiwan

2013-now Distingusiged Professorship, Chung Yuan Christian University, Taiwan

2009-2013 Associate Professor, Dept. of Chemical Engineering, Chung Yuan Christian University

2006-2009 Assistant Professor, Dept. of Chemical Engineering, Chung Yuan Christian University

2000-2004 Ph.D., Dept. of Chemical Engineering, National Taiwan University

1998-2000 M.S., Dept. of Chemical Engineering, National Taiwan University

1994-1998 B.S., Dept. of Chemical Engineering, Chung Yuan Christian University

Research Interests

- Scientific research interests include advanced biomaterials, biomolecular engineering, biomedical interface science, biopolymer physical chemistry, biomimetic material science, and biomedical healthcare membranes.
- The development of universal anti-(bio)fouling principles for the design of sustainable interfaces and membranes. His membrane research activities involve the application of advanced membrane materials, process technologies, and engineering systems for industries in water treatment (membrane bioreactor) and health care (blood transfusion).
- Teaching in physical chemistry, quantum science, bio-interface science, and biomaterials science

Representative Publications

Author or co-author of more than 265 publications in international journal (including >80 with international co-authors), 42 international patent, 5 chapter in books, 70+ invited conferences, more than 330 seminar communications - number of citations > 10,800 (h-index:58)

- (1) Chen-Hua Hsu, Antoine Venault, Yung Chang* (2022) "Facile zwitterionization of polyvinylidene fluoride microfiltration membranes for biofouling mitigation", Journal of Membrane Science, 648, 120348. (SCI, Impact factor: 9.5)
- (2) Antoine Venault, Yi-Tung Chin, Irish Maggay, Chih-Chen Yeh, Yung Chang* (2022) "Poly(vinylidene fluoride)/poly(styrene-co-acrylic acid) nanofibers as potential materials for blood separation", Journal of Membrane Science, 641, 119881. (SCI, Impact factor: 9.5)
- (3) Antoine Venault, Shi-Jie Chen, Hao-Tung Lin, Irish Maggay, Yung Chang* (2021) "Bi-continuous positively-charged PVDF membranes formed by a dual-bath procedure with bacteria killing/release ability", Chemical Engineering Journal, 417, 128910. (SCI, Impact factor: 15.1)
- (4) Hao-Tung Lin, Antoine Venault, Yung Chang* (2020) "Reducing the pathogenicity of wastewater with killer vapor-induced phase separation membranes", Journal of Membrane Science, 614, 118543. (SCI, Impact factor: 9.5)