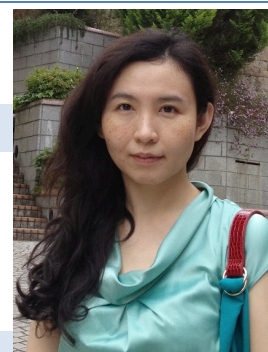


HSIAO-CHING YANG'S LAB

[Hsiao-Ching Yang's Lab](#)

PRINCIPLE INVESTIGATOR:



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EDUCATION/DEGREES:

B.S. in Chemistry, **1999**, National Sun Yat-Sen University, Taiwan,

PhD in Physical Chemistry, **2004**, National Sun Yat-Sen University, Taiwan.

PROFESSIONAL EMPLOYMENT

2020/08 – now: Dean of Research and Development

2019/02 – now: Professor, Department of Chemistry, Fu Jen Catholic University

2018/08 – 2020/07: Director, Center of Research Management

2012/02 – 2019/01: Associate Professor, Department of Chemistry, Fu Jen Catholic University

2006/08 – 2012/02: Assistant Professor, Department of Chemistry, Fu Jen Catholic University

2006/01 – 2006/08: Postdoctoral Research Associate, The Ohio State University

2004/08 – 2005/12: Postdoctoral Research Associate, National Taiwan University

SPECIALIZATION

Main field: Physical Chemistry, Computational Chemical Dynamics of Complexed Systems

Current research interests: Probing solution protein structure and dynamics by fluorescence lifetime methods and small angle X-ray/neutron contrast variation scattering techniques.

HONORS AND AWARDS

JST Sakura Science program, Japan (2018)

Ministry of Science and Technology, **Ta-You Wu Memorial Award**, Taiwan (2016).

Fu Jen Catholic University, **Outstanding Research Award**, Taiwan (2015).

The 62nd SPSJ, **Asia Excellence Award**, Japan (2013)

Science Editor's Choice, 2011, 333, 500.

C&EN Concentrates, 2011, 89 (30).

WORK OF DR. HSIAO-CHING YANG

Prof. Yang recently has focused on the SAXS/SANS analysis by incorporating innovated methodologies of computational chemical dynamics that allow one to meaningfully interpret the scattering data from monodisperse systems, from transient complexes as well as flexible and heterogeneous systems in terms of structural models. Her group's current interest has focused on the hybrid approaches utilizing SAXS/SANS with high-resolution molecular dynamics simulation techniques, but also with biochemical, biophysical, and numerical programming methods by a series of breakthrough experiments with the synchrotron/neutron beamline (TLS23A TPS13A at NSRRC/ QUOKKA at ANSTO; J-PARC) and developed computational techniques for solving the inverse mapping problems of X-ray/neutron scattering.

PUBLICATIONS OF DR. HSIAO-CHING YANG

Google Scholar: https://scholar.google.co.uk/citations?hl=en&user=zjk-oKcAAAAJ&view_op=list_works&sortby=pubdate

1. "Temperature Effect on Water Dynamics in Tetramer Phosphofructokinase Matrix and the Super-Arrhenius Respiration Rate" **Yang, H.-C.***; Ge Y.-C.; Su, K.-H.; Chang, C.-C.; Lin, K.-C.; Aquilanti, V.; Kasai, T.* *Sci. Rep.*, **2020**, accepted. IF: 3.998.
2. "Could Chemical Reaction at the Molecular Level Show Distinction between Two Liquid-Water States? Study of the Excited-State Water-Catalyzed Proton Transfer Reaction Provides a Clue" Cheng, Y.-H.; **Yang, H.-C.***; Chou, P.-T.* *J. Phys. Chem. Lett.*, **2020**, 11, 9468-9475. IF: 6.710 top 8%.
3. "Probing Interactions between Metal–Organic Frameworks and Freestanding Enzymes in a Hollow Structure." Chen, S.-Y.; Lo, W.-S.; Huang, Y.-D.; Si, X.; Liao, F.-S.; Lin, S.-W.; Williams, B. P.; Sun, T.-Q.; Lin, H.-W.; An, Y.; Sun, T.; Ma, Y.; **Yang, H.-C.***; Chou, L.-Y.*; Shieh, F.-K.*; Tsung, C.-K.* *Nano Lett.*, **2020**, 209, 6630–6635. IF: 11.238, top 7%.
4. "Substrate Channeling of Prostaglandin H2 on the Stereochemical Control of a Cascade Cyclization Route" **Yang, H.-C.***; Ge, Y.-C.; Yang, C.-H.; Chao, W.-C. *ACS Catal.* **2018**, 8, 2534-2545. IF: 12.350, top 7%.
5. "Homology Modeling and Molecular Dynamics Simulation Combined with X-ray Solution Scattering Defining Protein Structures of Thromboxane and Prostacyclin Synthases" **Yang, H.-C.***; Yang, C.-H.; Huang, M.-Y.; Lu, J.-F.; Wang, J.-S.; Yeh, Y.-Q.; Jeng, U. S. *J. Phys. Chem. B* **2017**, 121, 11229-11240. IF: 3.051