CURRICULUM VITAE

Hsiao-Ching Yang (楊小青) ORCID: 0000-0002-7970-1357
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Education

1999 - 2004	Ph.D., Physical Chemistry, National Sun Yat-Sen University, Taiwan
1995 - 1999	B.S., Department of Chemistry, National Sun Yat-Sen University, Taiwan

Professional Experience

2025/8-	Professor, Department of Engineering and System Science, National Tsing Hua University
2022 - 2025	Distinguished Professor, Fu Jen Catholic University
2020 - 2023	Dean, Office of Research and Development, Fu Jen Catholic University
2019 -present	Professor, Department of Chemistry, Fu Jen Catholic University
2018- 2020	Director, Center of Research Management, Fu Jen Catholic University
2012 - 2019	Associate Professor, Department of Chemistry, Fu Jen Catholic University
2006 - 2012	Assistant Professor, Department of Chemistry, Fu Jen Catholic University
2005 - 2006	Postdoctoral Research Associate, The Ohio State University
2004 - 2005	Postdoctoral Research Associate, National Taiwan University

Academic Honors

2022	Student Outstanding Paper Award, National Center for Theoretical Sciences –Physics Division (NCTS Physics)
2018	Japan Science and Technology Agency (JST) Sakura Science Program, Japan
2016	Ta-You Wu (吳大猷) Memorial Award, Ministry of Science and Technology, Taiwan
2015	Outstanding Research Award, Fu Jen Catholic University, Taiwan
2013	Asia Excellence Award, The 62nd SPSJ Annual Meeting, the Society of Polymer Science, Japan.
2011	***C&EN*** *Concentrate*s, July 25, **2011**, *89* (30).
2011	***Science*** *Editors' Choice*, July 29, **2011**, *333*, 500.

Short Bio

Dr. Hsiao-Ching Yang specializes in Chemical Physics and Computational Chemical Dynamics, integrating multiscale modeling, all-atom MD simulations with time-resolved UV-Vis spectroscopy, operando small- to wide-angle X-ray scattering (SWAXS), and neutron contrast variation scattering. She enables precise SWAXS analysis, accurately transforming between reciprocal and real space with atomic resolution and high temporal accuracy. Her work explores self-assembly interactions, electron/proton/energy transfer and structure-dynamics-function relationships in complex systems.

2019-2024 Selected Teaching and Service

Mentor of Graduated Students Recognized in National and International Prizes

2024	“Excellent Poster Presentation” at the XIX edition of the International Small-Angle Scattering Conference (SAS2024).
2024	“Excellent Oral Presentation” at the 2024 Graduate Students Symposium of The ACS International Chemical Science Chapter of Taiwan.
2024	“Excellent Poster Presentation” at the 2024 Graduate Students Symposium of The ACS International Chemical Science Chapter of Taiwan
2023	“Best Poster Award" at the Annual Meeting and Neutron Scattering Workshop of the Taiwan Neutron Science Society.
2023	"Excellent Poster Award in Physical Chemistry" at the 29th Users' Annual Meeting and Symposium of the National Synchrotron Radiation Research Center.
2022	“Outstanding Poster Award” at the Annual Meeting of the Chinese Chemical Society.
2022	"Third Place Poster Competition Award" at the Annual Meeting and Neutron Scattering Workshop of the Taiwan Neutron Science Society.
2022	" Student Outstanding Paper Award " at the National Center for Theoretical Sciences - Physics Division (NCTS Physics)
2021	"Outstanding Poster Award" at the Taiwan Neutron Science Society.
2020	"Outstanding Poster Award" at the Taiwan Neutron Science Society.
2019	"Best Poster Award" at the Asia-Oceania Neutron Scattering Association.
2019	"Best Poster Award" at the Taiwan Theoretical and Computational Molecular Sciences Association.
2019	"Sakura Scientist Fellowship" by the Japan Society for the Promotion of Science.

Service on Academic Societies and Committees

2023-present	Member of the Supervisory Committee, Taiwan Theoretical and Computational Molecular Science Society
2023-2024	Board Member, Taiwan Neutron Science Society
2020-2022	Vice Chairman, Taiwan Neutron Science Society
2020-2023	Ex-officio Member, National Synchrotron Radiation Research Center
2019-2023	Board Member, Taiwan Theoretical and Computational Molecular Sciences Association (T2CoMSA)
2019	Preparatory Committee Member, Taiwan Neutron Science Society
2018-2020	Board Member, Taiwan Theoretical and Computational Molecular Science Society
2013-2017	Secretary-General, Taiwan Theoretical and Computational Molecular Science Society
2018-present	Project Review Committee Member, Japan Proton Accelerator Research Complex (J-PARC)
2015-present	Project Review Committee Member, National Synchrotron Radiation Research Center
2016- present	Project Review Committee Member, Australian Nuclear Science and Technology Organisation (ANSTO)

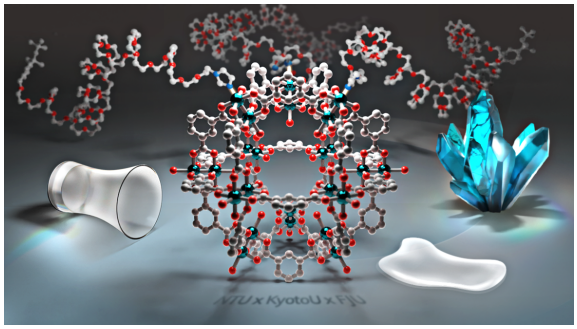
2015-present	Project Review Committee Member, National Synchrotron Radiation Research Center
2011-present	Project Review Committee Member, National Science and Technology Council
2010-present	SCI peer review (Journal of Physical Chemistry B, Journal of Chemical Physics, Journal of Computational Chemistry, Spectrochimica Acta Part A, etc.)

Organizing National and International Conferences

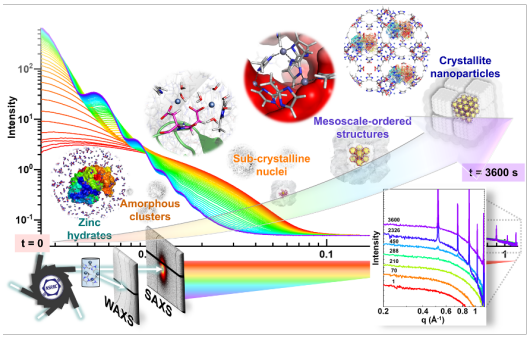
2024	the XIX edition of the International Small-Angle Scattering Conference (SAS2024).
2022	The 12th Annual Meeting of Research and Development Directors of Colleges and Universities (第 12 屆全國大專校院研發主管會議)
2022	Annual Meeting and Student Symposium of the Taiwan Theoretical and Computational Molecular Science Society
2021	Taiwan-Japan Biomedical Technology Online Forum (International Conference)
2019	Asia-Pacific Association of Theoretical and Computational Chemists (International Conference)

Research Highlight

Proton Coupled Electron Transfer and Opto-Electronic Properties — *Electronic Materials* Structure Control and Driving Force

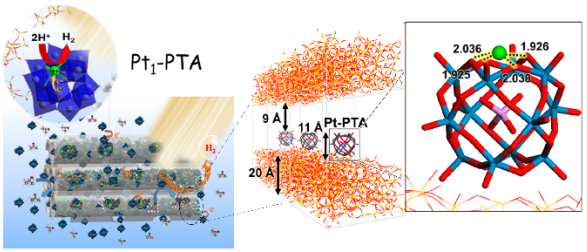


【*Nat Commun* **2024**, *15*, 9523.】

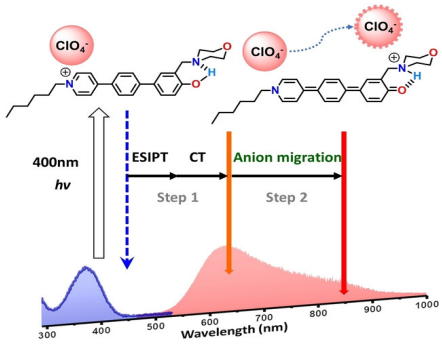


【*ACS Nano* **2024**, *18 (36), 25170–25182*】

ACSNANO

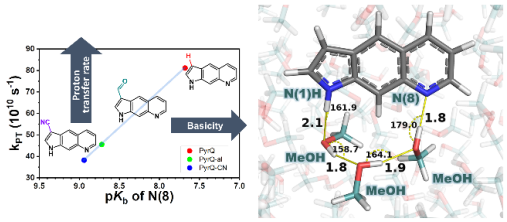


【*ACS Nano*, **2024**,*18(2)*, 1611–1620】

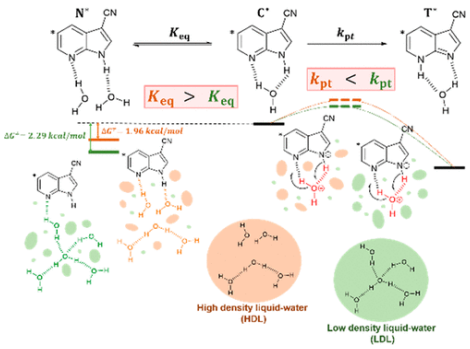


【*Angew. Chem. Int. Ed. 2024, 63(23), e202403317*】

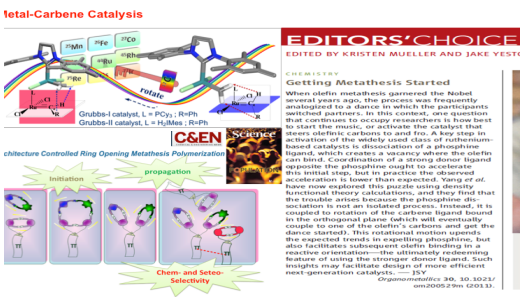
ROYAL SOCIETY OF CHEMISTRY Chemical Science



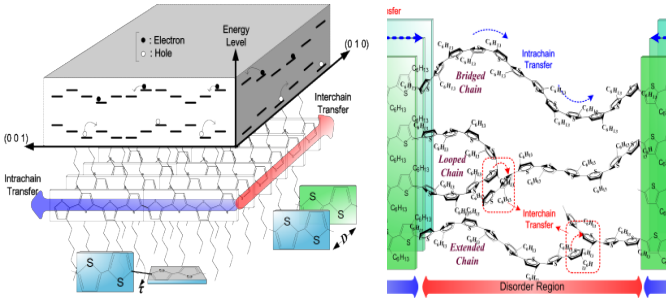
【*Chem. Sci.* **2023**,*14*, 7237-7247.】



【*J. Phys. Chem. Lett.* **2020**, *11(21)*, 9468–9475】

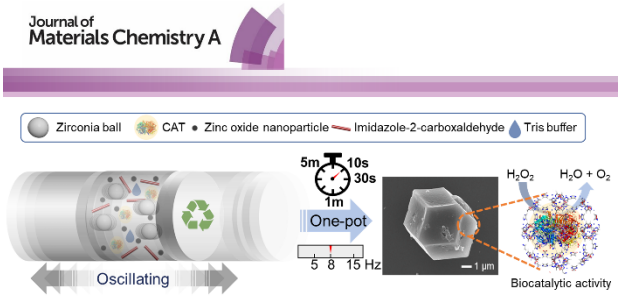


【Science Editors' Choice, 2011, 333, 500.】

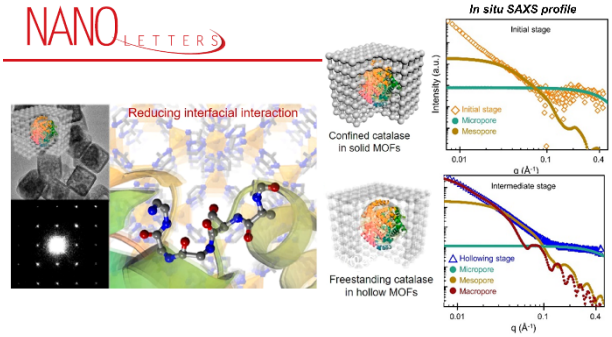


【*Polymer International* 2010, 59 (1), 16-21.】

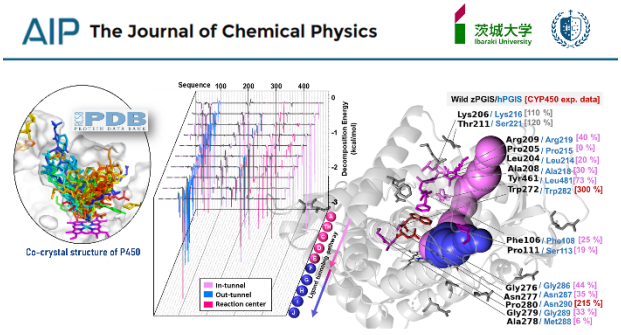
Proton Coupled Electron Transfer Hybrid Bio Water Protein Envelop Structure and Kinetics



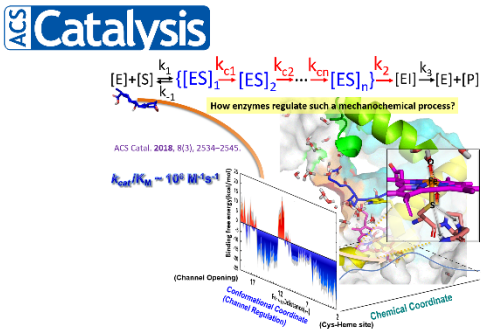
【*J. Mater. Chem. A*, **2023**,*11*, 24678-24685.】



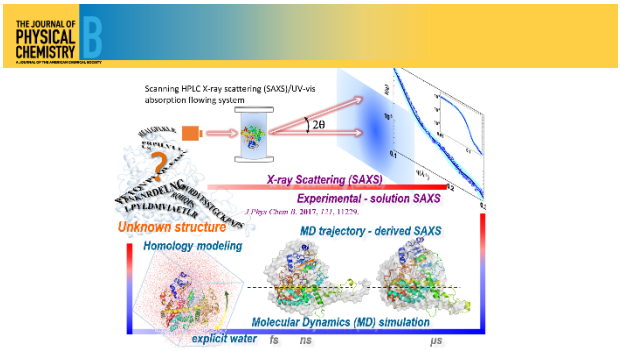
【*Nano Letters*, **2020**, *20* **(9), 6630–6635.**】



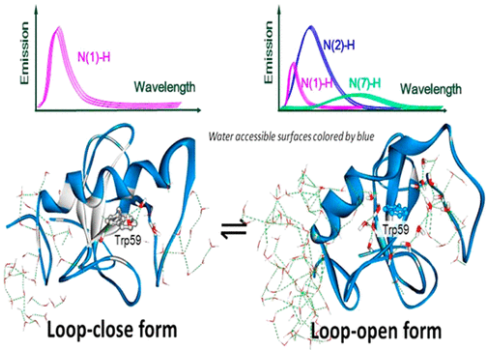
【*J. Chem. Phys.*, **2021**, *155 (2)*, 025101.】



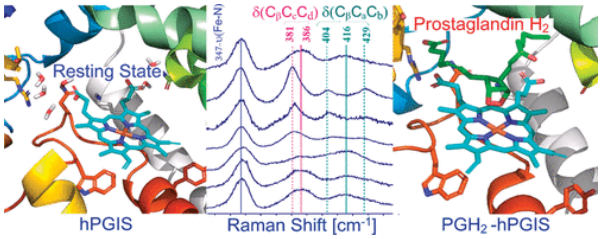
【*ACS Catal.* **2018**, *8*, 2534-2545.】



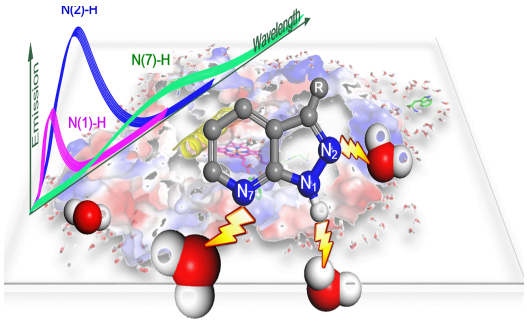
【*J. Phys. Chem. B* . **2017,** *121* (50), 11229-11240.】



【J. Phys. Chem. B 2015, 119(6), 2157 – 2167】



【*J. Am. Chem. Soc.* **2011**, *133 (46)*, 18870–18879.】



【*Nat. Commun* **2013**, *4*, 2611.】

SCI Paper Publications: ***overall h-index = 20, citations = 1493***

Cited by		VIEW ALL
	All	Since 2019
Citations	1493	508
h-index	20	12
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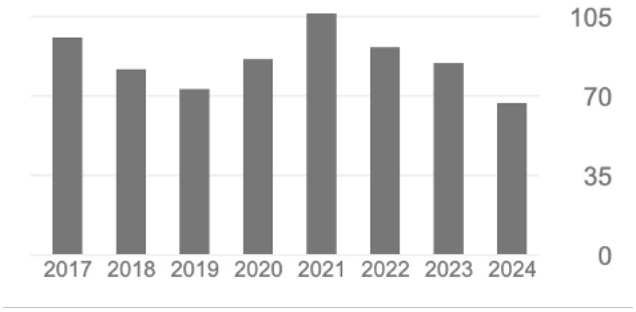

1. "*Phase-transformable metal-organic polyhedra for membrane processing and switchable gas separation.*" Po-Chun Han, Chia-Hui Chuang, Shang-Wei Lin, Xiangmei Xiang, Zaoming Wang, Mako Kuzumoto, Shun Tokuda, Tomoki Tateishi, Alexandre Legrand, Min Ying Tsang, **Hsiao-Ching Yang**, Kevin C.-W. Wu*, Kenji Urayama, Dun-Yen Kang* and Shuhei Furukawa*, Nature Communications, **2024**, *15*, 9523. IF:14.7, Multidisciplinary Sciences, Q1, rank:8/134.
2. "*Exploring Enzyme Encapsulation Efficiency in MOFs Using Eco-Friendly Approaches.*" Trung Hieu Vo, Shang-Wei Lin, Miao-Chun Lin, Pu-Yun Kuan, Jing-Hui Chen, Hsin-Kai Huang, Wen-Tzu Liu, Hui Xu, Ao Li, Yu-An Hsu, Lei Wan, Phuc Khanh Lam*, Lien-Yang Chou*, **Hsiao-Ching Yang***, Fa-Kuen Shieh*, ChemSusChem, **2024**, e202401568. IF: 7.5, Chemistry, Multidisciplinary, Q1, rank: 41/231.
3. *"Decoding the Biomimetic Mineralization of Metal–Organic Frameworks in Water."* Shang-Wei Lin, Phuc Khanh Lam, Chin-Teng Wu, Kuan-Hsuan Su, Chi-Fang Sung, Sen-Ruo Huang, Je-Wei Chang, Orion Shih, Yi-Qi Yeh, Trung Hieu Vo, Heng-Kwong Tsao, Haw-Ting Hsieh, U-Ser Jeng*, Fa-Kuen Shieh*, **Hsiao-Ching Yang***, ACS Nano **2024**, *18(36)*, 25170. IF: 18.027, Chemsitry, Multidisciplinary, Q1, rank: 12/178.(web)
4. *"Light Induced Proton Coupled Charge Transfer Triggers Counterion Directional Translocation."* Kai-Hsin Chang, Yu-Hsuan Yang, Kuan-Hsuan Su, Yi Chen, Ta-Chun Lin, Jian-Liang Li, Zong-Ying Liu, Jing-Han Shi, Tzu-Fang Wang, Yi-Tyng Chang, Alexander P. Demchenko, **Hsiao-Ching Yang***, Pi-Tai Chou*, Angew. Chem. Int. Ed. **2024**, 63(23), e202403317 IF: 16.6, Chemistry, Multidisciplinary, Q1, rank: 13/178.(web)
5. *"Arrayed Pt Single Atoms via Phosphotungstic Acids Intercalated in Silicate Nanochannels for Efficient Hydrogen Evolution Reactions."* Je-Wei Chang, Kuan-Hsuan Su, Chih-Wen Pao, Jin-Jia Tsai, Chun-Jen Su, Jeng-Lung Chen, Lian-Ming Lyu, Chun-Hong Kuo, An-Chung Su, **Hsiao-Ching Yang***, Ying-Huang Lai*, and U-Ser Jeng*, ACS Nano, **2024**, 18 (2), 1611-1620. IF: 18.027, Chemsitry, Multidisciplinary, Q1, rank: 12/178.(web)
6. *"A green and ultrafast one-pot mechanochemical approach for efficient biocatalyst encap-*

sulation in MOFs: insights from experiments and computation." Phuc Khanh Lam, Trung Hieu Vo, Jing-Hui Chen, Shang-Wei Lin, Chiao-Ling Kuo, Jian-Jie Liao, Kuan-Yu Chen, Sen-Ruo Huang, Dong Li, Yun-Hsiang Chang, Hsuan-Yi Chen, Haw-Ting Hsieh, Yu-An Hsu, Heng-Kwong Tsao, **Hsiao-Ching Yang*** and Fa-Kuen Shieh*, J. Mater. Chem. A, **2023**. IF: 11.9, Chemsitry, Physical, Q1, rank: 24/161.(web)(pdf)

7. *"An integrative approach unveils a distal encounter site for rPTPε and phospho-Src complex formation."*Nadendla EswarKumar, Cheng-Han Yang, Sunilkumar Tewary, Wen-Hsin Peng, Guang-Chao Chen, Yi-Qi Yeh, **Hsiao-Ching Yang***, and Meng-Chiao Ho*, Structure, **2023**, *31(12)*, 1567-1577. IF:5.7, Biophysic, Q1, rank: 10/70.(web)(pdf)
8. *"Long-range hydrogen-bond relay catalyses the excited-state proton transfer reaction."* Kai-Hsin Chang, Yu-Chiang Peng, Kuan-Hsuan Su, Yi-Hsien Lin, Jiun-Chi Liu, Ying-Hsuan Liu, Chao-Hsien Hsu, **Hsiao-Ching Yang*** and Pi-Tai Chou*, Chem. Sci., **2023**,14, 7237-7247. IF: 8.4, Chemistry - Multidisciplinary, Q1, rank: 26/230.(web)(pdf)
9. *"Calculation of CYP450 Protein Ligand Binding and Dissociation Free Energy Paths."* Kuan-Hsuan Su, Chin-Teng Wu, Shang-Wei Lin, Seiji Mori, Wei-Min Liu*, and **Hsiao-Ching Yang***, J. Chem. Phys. **2021**, *155(2)*, 025101. IF: 3.488, Physics, atomic, molecular & chemical, Q1, rank: 9/37. (web)(pdf)
10. *"Temperature Effect on Water Dynamics in Tetramer Phosphofructokinase Matrix and the Super-Arrhenius Respiration Rate"* **Hsiao-Ching Yang***, Yung-Chi Ge, Kuan-Hsuan Su, Chia-Cheng Chang, King-Chuen Lin, Vincenzo Aquilanti, and Toshio Kasai*, Sci. Rep. **2021**, *11*(1), 1-14. IF: 3.998, Multidisciplinary Sciences, Q1, rank: 17/71. (web)(pdf)
11. *"Molecular Dynamics Simulation Combined with small-angle X-ray/Neutron Scattering Defining Solution State Protein Structures."*Shang-Wei Lin, Kuan-Hsuan Su, Yi-Qi Yeh, U-Ser Jeng, Chun-Ming Wu, **Hsiao-Ching, Yang***. *J Chin Chem Soc.*, **2020,** *20(9)*, 403-408. This paper is special issue dedicated to Prof. Chung-Yuan Mou. IF:1.554, Chemistry, Multidisciplinary, Q3, rank: 120/177. (web)(pdf)
12. *"Probing Interactions between Metal–Organic Frameworks and Freestanding Enzymes in a Hollow Structure."* Sheng-Yu Chen, Wei-Shang Lo, Yi-Da Huang, Xiaomeng Si, Fu-Siang Liao, Shang-Wei Lin, Benjamin P. Williams, Ting-Qian Sun, Hao-Wei Lin, Yuanyuan An, Tu Sun, Yanhang Ma, **Hsiao-Ching Yang***, Lien-Yang Chou*, Fa-Kuen Shieh*, and Chia-Kuang Tsung*, Nano Lett., **2020**, *20*(9), 6630–6635. IF: 11.238, Physics Applied, Q1, rank: 11/155, top 7%. (web)(pdf)
13. *"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"* Yu-Hsuan Cheng, **Hsiao-Ching Yang***, and Pi-Tai Chou*, J. Phys. Chem. Lett., **2020**, *11*(21), 9468-9475. IF: 6.710, Chemistry Physical, Q1, rank: 3/37,top 8%. (web)(pdf)

14. *"[1-(4-chloro-3-nitrobenzenesulfonyl)-1H-indol-3-yl]-methanol, an indole-3-carbinol derivative, inhibits glutamate release in rat cerebrocortical nerve terminals by suppressing the P/Q-type Ca2+ channels and Ca2+/calmodulin/protein kinase A pathway."* Cheng-Wei Lu, Tzu-Yu Lin, **Hsiao-Ching Yang**, Chi-Feng Hung, Jing-Ru Weng, Der-Chen Chang, Su-Jane Wang*. Neurochemistry International, **2020**, *140*: 104845. IF: 3.811, Neuro Science, Q2, rank: 95/272. (web)(pdf)
15. *"Substrate Channeling of Prostaglandin H2 on the Stereochemical Control of a Cascade Cyclization Route"* **Hsiao-Ching Yang***, Yung-Chi Ge, Cheng-Han Yang , and Wei-Chih Chao, ACS Catalysis **2018**, *8*, 2534-2545. IF: 12.350, Chemistry Physical, Q1, rank: 12/159, top 7%. (web)(pdf)
16. *"Unveiling the water-associated conformational mobility in the active site of ascorbate peroxidase"*Wei-Chih Chao, Li-Ju Lin, Jyh-Feng Lu*, Jinn-Shyan Wang*, Tzu-Chieh Lin, Yi-Han Chen, Yi-Ting Chen, **Hsiao-Ching Yang**, Pi-Tai Chou. BBA-General Subjects **2018**, *1862* (3), 451-459. IF:3.422, Biophysics, Q2, rank: 19/71. (web)(pdf)
17. *"Homology Modeling and Molecular Dynamics Simulation Combined with X-ray Solution Scattering Defining Protein Structures of Thromboxane and Prostacyclin Synthases"* ***Hsiao-Ching Yang****, Cheng-Han Yang, Ming Yi Huang, Jyh-Feng Lu, Jinn-Shyan Wang, Yi-Qi Yeh, U-Ser Jeng, J. Phys. Chem. B **2017**, *121*(50), 11229-11240. IF: 3.051, Chemistry Physical, Q2, rank: 76/159. (web)(pdf)
18. *"The In Situ Tryptophan Analogue Probes the Conformational Dynamics in Asparaginase Isozymes"* Wei-Chih Chao, Jiun-Yi Shen, Cheng-Han Yang, Yi-Kang Lan, Jui-Hung Yuan, Li-Ju Lin, **Hsiao-Ching Yang***, Jyh-Feng Lu, Jinn-Shyan Wang, Kevin Wee, You-Hua Chen, Pi-Tai*, Biophysical Journal **2016**, *110*(8), 1732–1743. IF: 3.854, Biophysics, Q1, rank: 15/71. (web)(pdf)
19. *"Probing the polarity and water environment at the protein-peptide binding interface using tryptophan analogues"*Yi-Ting Chen, Wei-Chih Chao, Hsiou-Ting Kuo, Jiun-Yi Shen, I-Han Chen, **Hsiao-Ching Yang**, Jinn-Shyan Wang, Jyh-Feng Lu, Richar d P Cheng*, Pi-Tai Chou*.Biophysics Reports **2016**, *7*, 113-118. IF: 4.105, Cell Biology, Q2, rank: 77/195. (web)(pdf)
20. *"Probing Water Environment of Trp59 in Ribonuclease T1: Insight of the Structure−Water Network Relationship"* Wei-Chih Chao, Jiun-Yi Shen, Jyh-Feng Lu,*,Jinn-Shyan Wang,*, **Hsiao-Ching Yang,***, Kevin Wee, Li-Ju Lin, Yi-Ching Kuo, Cheng-Han Yang, Shih-Hui Weng, Huai-Ching Huang, You-Hua Chen, and Pi-Tai Chou*, J. Phys. Chem. B ,**2015**, *119*(6), 2157.
IF: 3.051, Chemistry Physical, Q2, rank: 76/159. (web)(pdf)
21. *"Probing Water Micro-solvation in Proteins by Water Catalyzed Proton-Transfer Tautomerism."* Jiun-Yi Shen, Wei-Chih Chao, Chun Liu, Hsiao-An Pan, **Hsiao-Ching Yang***, Chi-Lin Chen, Yi-Kang Lan, Li-Ju Lin, Jinn-Shyan Wang, Jyh-Feng Lu, Steven Chun-Wei Chou,

Kuo-Chun Tang and Pi-Tai Chou* Nature Communication **2013**, *4*, 2611. IF:12.121, Multidisciplinary Sciences, Q1, rank: 6/71, top 8%. (web)(pdf)

22. *"On the Stereoselectivity of Ring-Opening Metathesis Polymerization (ROMP) of N-Arylpyrrolidine-Fused Cyclobutenes with Molybdenum– and Ruthenium–Alkylidene Catalyst"* Nai-Ti, Lin, Yuan-Zhen, Ke, Kamani Satyanarayana, Shou-Ling Huang, Yi-Kang Lan, **Hsiao-Ching Yang**, and Tien-Yau Luh* Macromolecules **2013**, 46, 18, 7173–7179. IF:5.918, polymer science, Q1, rank:7/89. (web)(pdf)
23. *"Probing Ligand Binding to Thromboxane Synthase"* Wei-Chih Chao, Jyh-Feng Lu, Jinn-Shyan Wang,* **Hsiao-Ching Yang**, Tai-An Pan, Steven Chun-Wei Chou, Lee-Ho Wang, and Pi-Tai Chou Biochemistry **2013**, *52*(6), 1113. IF:2.865, Biochemistry & Molecular Biology, Q3, rank: 169/297. (web)(pdf)
24. *"Vitamin E Facilitates the Inactivation of the Kinase Akt by the Phosphatase PHLPP1"*Po-Hsien Huang, Hsiao-Ching Chung, Chih-Chien Chou, Huiling Wang, Su-Lin Lee, **Hsiao-Ching Yang**, Hao-Chieh Chiu, Naval Kapuriya,Dasheng Wang, Samuel K. Kulp, and Ching-Shih Chen,* Science Signaling (AAAS) **2013**, *6* (267), ra19. IF:6.378, Biochemistry & Molecular Biology, Q1, rank: 39/297. (web)(pdf)
25. *"Ambipolar carrier transport properties in a built-indonor–acceptor discogen"* Li-Yin Chen, Fei-Hsiung Chien*, Yen-Wei Liu, Wenjun Zheng, Cheng-Yan Chiang, Chia-Yi Hwang, Chi-Wi Ong, Yi-Kang Lan, **Hsiao Ching Yang**, Organic Electronics **2013**, *14* (8), 2065-2070. IF:3.310, Physics Applied, Q2, rank: 41/155. (web)(pdf)
26. *"Identification of Kazinol Q, a Natural Productfrom Formosan Plants, as an Inhibitor of DNAMethyltransferase"* Jing-Ru Weng*, I-Lu Lai, **Hsiao-Ching Yang**, Chun-Nan Lin, and Li-Yuan Bai PHYTOTHERAPY RESEARCH Phytother. Res. **2013**, *28* (1), 49-54. IF:4.087, Chemistry Medicinal, Q1, rank: 15/61. (web)(pdf)
27. *"Sp1 phosphorylation by cyclin-dependent kinase 1/cyclin B1 represses its DNA-binding activity during mitosis in cancer cells"*Jian-Ying Chuang, Susan A Wang, Wu-Bin Yang, **Hsiao-Ching Yang**, Chiung-Yu Hung, Tsung-Ping Su, Wen-Cheng Chang, Jan-Jong Hung*.Oncogene **2012**, *31*, 4946-4959. IF:7.971, Genetics & Heredity, Q1, rank: 14/178, top:7%. (web)(pdf)
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