Rangsiman Ketkaew

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EDUCATIONS

Ph.D. Computational Chemistry — Zurich, Switzerland | June 2020 - Present
University of Zurich

M.Sc. Computational Chemistry — Bangkok, Thailand | July 2016 - Dec 2018
Thammasat University

B.Sc. Chemistry with Mathematics Specialization — Bangkok, Thailand | May 2012 - Jun 2016
Thammasat University

RESEARCH INTEREST

- *Ab initio* molecular dynamics, enhanced sampling, machine learning, software development
- Free energy calculation, water splitting, metal oxide catalyst, electron transfer

WORK EXPERIENCE

New Equilibrium Biosciences | Consultant — Boston, MA | Aug 2019 - June 2020

AWARDS

- CMSZH Travel Award, University of Zurich, Switzerland, 2024
- Best Oral Presentation, CMSZH Retreat, Savognin, Switzerland, 2022
- NCTU Taiwan Elite International Internship Program, Hsinchu, Taiwan, 2018
- Visiting Scholarship at International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2017
- Royal Winner Award of Thailand Computational Chemistry Challenge, Bangkok, 2016
- Visiting Scholarship at Tianjin University, Tianjin, China, 2016

RECENT PUBLICATIONS

- **R. Ketkaew**, F. Creazzo, K. Sivula and S. Luber. *Accepted to published in Chem Catalysis* 2024
- **R. Ketkaew** and S. Luber. *J. Chem. Inf. Model.* 2022, 62, 24, 6352-6364
- F. Creazzo, **R. Ketkaew**, S. Luber *Appl. Surf. Sci.* 2022, 601, 154203
- N. Weder, N. S Grundmann, B. Probst, O. Blacque, **R. Ketkaew**, F. Creazzo, S. Luber, R. Alberto *ChemSusChem* 2022
- **R. Ketkaew**, F. Creazzo, S. Luber. *J. Phys. Chem. Lett.* 2022, 13, 7, 1797−1805
- R. Han*, **R. Ketkaew***, S. Luber. *J. Phys. Chem. A* 2022, 126, 6, 801−812 *Selected as journal cover*
- **R. Ketkaew**, F. Creazzo, S. Luber. *Top Catal* 2021, 65, 1-17
- M. Schilling*, **R. Ketkaew***, S. Luber. *CHIMIA* 2021, 75, 3, 195-201(7)

CONFERENCE CONTRIBUTIONS

- Machine Learning of First Principles Observables, Berlin, Germany, 2024
- 59th Symposium on Theoretical Chemistry, ETH Zurich, Switzerland, 2023
- 58th Symposium on Theortical Chemistry, University of Heidelberg, Germany, 2022
- LightChEC Symposium, EMPA, Zurich, 2021

ACTIVITIES

Inside the university: Volunteer tutor for International Chemistry Olympiad 2022-2024 (UZH)
Frontend-volunteer for website development of the *Friends of Ukraine* project 2022
President of Association of Thai Students in Switzerland (ATSS) 2021

Outside the university: Organizer of HackZurich 2020 & 2021, Quantum chemistry and coding online courses on YouTube
Academic leader of Thailand Machine Learning for Chemistry Competition (TMLCC) 2021