# **RESEARCH INTEREST**

Many body theory Bayesian modeling of single molecule FRET and fluorescence imaging data

## **PUBLICATIONS**

- 1. **Tomoaki Yagi** and Hirofumi Sato "Self-consistent construction of grand potential functional with hierarchical integral equations and its application to solvation thermodynamics" *J. Chem. Phys.* 156(5), 054116 (2022).
- 2. Kaori Fujii, **Tomoaki Yagi**, Hiroshi Nakano, Hirofumi Sato, and Yoshifumi Kimura "Experimental and theoretical study on p-aminophenylthyil radical geminate recombination in ionic liquids; analysis using the Smoluchowski-Collins-Kimball equation" *J. Chem. Phys.* 154(15), 154504 (2021).
- 3. **Tomoaki Yagi** and Hirofumi Sato "Self-consistent construction of bridge functional based on the weighted density approximation" *J. Chem. Phys.* 154(12), 124113 (2021).
- 4. **Tomoaki Yagi** and Hirofumi Sato "Density functional theory for molecular liquids based on interaction site model and self-consistent integral equations for site-site pair correlation functions" *J. Chem. Phys.* 153(16), 164102 (2020).
- 5. **Tomoaki Yagi** and Hirofumi Sato "A Simple Model of Planar Membrane: An Integral Equation Investigation" *J. Comp. Chem.* 39(31), 2576-2581 (2018).
- 6. **Tomoaki Yagi** and Hirofumi Sato "An Integral Equation Theory for Two Dimensional Molecular Fluids" *Chem. Lett.* 47(7), 901-904 (2018).

#### WORK EXPERIENCE

- 1. April 2020 March 2022, Research Fellow of Japan Society for the Promotion of Science (DC2) (Host: Prof. Hirofumi Sato at Kyoto University, Japan)
- 2. April 2022 Now, Research Fellow of Japan Society for the Promotion of Science (PD) (Host: Chief Scientist Tahei Tahara at RIKEN, Japan)

## **EDUCATION**

2014-2022 BA, MA & Ph.D at Kyoto University, Japan Supervisor: Prof. Hirofumi Sato

### CONTACT

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