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- Ph.D. Student in Chemistry, admitted Autumn 2017
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Publications

PUBLICATIONS

- **Tuning Fluorination of Linear Carbonate for Lithium-Ion Batteries** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*
Yu, Z., Yu, W., Chen, Y., Mondonico, L., Xiao, X., Zheng, Y., Liu, F., Hung, S. T., Cui, Y., Bao, Z.
2022; 169 (4)
- **Ultrafast Dynamics and Liquid Structure in Mesoporous Silica: Propagation of Surface Effects in a Polar Aprotic Solvent.** *The journal of physical chemistry. B*
Hung, S. T., Yamada, S. A., Zheng, W., Fayer, M. D.
2021
- **Complex Formation and Dissociation Dynamics on Amorphous Silica Surfaces.** *The journal of physical chemistry. B*
Yamada, S. A., Hung, S. T., Shin, J. Y., Fayer, M. D.
2021
- **Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries** *NATURE ENERGY*
Yu, Z., Wang, H., Kong, X., Huang, W., Tsao, Y., Mackanic, D. G., Wang, K., Wang, X., Huang, W., Choudhury, S., Zheng, Y., Amanchukwu, C., Hung, et al
2020
- **Effects of pore size on water dynamics in mesoporous silica.** *The Journal of chemical physics*
Yamada, S. A., Hung, S. T., Thompson, W. H., Fayer, M. D.
2020; 152 (15): 154704
- **Enhanced Menshutkin SN2 Reactivity in Mesoporous Silica: The Influence of Surface Catalysis and Confinement.** *Journal of the American Chemical Society*
Zheng, W., Yamada, S. A., Hung, S. T., Sun, W., Zhao, L., Fayer, M. D.
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- **Imidazole and 1-Methylimidazole Hydrogen Bonding and Nonhydrogen Bonding Liquid Dynamics: Ultrafast IR Experiments.** *The journal of physical chemistry. B*
Shin, J. Y., Wang, Y., Yamada, S. A., Hung, S. T., Fayer, M. D.
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