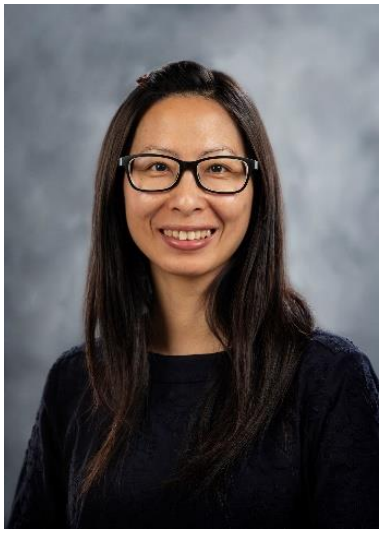

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Dr. Chu is a research engineer for the Institute for Imaging & Analytical Technologies (I^2AT) at Mississippi State University. I^2AT is a core facility in Mississippi State university and houses major instrumentation to serve the research community including both academic and industrial. Dr. Chu earned her doctoral degree in Chemistry at City University of New York.

Dr. Chu joined Mississippi State University in 2010 as a Postdoctoral researcher in the Department of Chemical Engineering and became a full-time researcher at I^2AT in 2013. She has experienced in both synthesis and analysis and characterization of materials using various characterization equipment including AFM, SEM, XRD and TEM.
She has collaborated with many research groups in various departments. Additionally, Dr. Chu serves as volunteer coordinator in the premier international Microscopy conference (Microscopy & Microanalysis Conference) for Microscopy Society of America since 2018.

Recent publications

1. Mohammad J. Hasan, Emily Westphal, Peng Chen, Abhishek Saini, I-Wei Chu, Sarah J. Watzman, Esteban Urena-Benavides, and Erick S. Vasquez, Adsorptive properties, and on-demand magnetic response of lignin@Fe_3O_4 nanoparticles at castor oil-water interfaces, RSC Adv., 2023, 13, 2768-2779.

2. Madhubhashini Lakdusinghe, Madison Mooney, Humayun Ahmad, Iwei Chu, Simon Rondeau-Gagné, and Santanu Kundu, Gels of Semiconducting Polymers in Benign Solvents, Langmuir, 2023, 39, 12283-12291.

3. Hasara Samaraweera, Shah Saud Alam, Samadhi Nawalage, Dinkar Parashar, Afzal Husain Khan, Iwei Chui, Felio Perez, Todd Mlsna, Facile synthesis and life cycle assessment of Iron oxide-Douglas fir biochar hybrid for anionic dye removal from water, J of Water Process Engineering 2023, 56 (104377).

4. Samaraweera, H., Andrena, D., Carter, K., Felder, T., Nawalage, S., Chui, I., Perez, F., Khan, A., Mlsna, T., Green iron oxide-modified biochar for methylene blue removal from aqueous solutions, Groundwater for Sustainable Development 2023, 21 (100945).

5. Almtiri, Mohammed; Dowell, Timothy; Chu, Iwei; Wipf, David; Scott, Colleen, Phenoxazine-containing polyaniline derivatives with improved electrochemical stability and processability, ACS Applied Polymer Materials, 2021, 3, 2988-2997.