

## Yiren Shen

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### Publications

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#### PUBLICATIONS

- **Graph Neural Network-Guided Aerodynamic Shape Optimization for Conceptual Design of Supersonic Transport Wings**  
Shen, Y., Alonso, J. J., AIAA  
AMER INST AERONAUTICS & ASTRONAUTICS.2025
- **Application of Multi-Fidelity Transfer Learning with Autoencoders for Efficient Construction of Surrogate Models**  
Shen, Y., Patel, H. C., Xu, Z., Alonso, J. J., AIAA  
AMER INST AERONAUTICS & ASTRONAUTICS.2024
- **Quantitative investigation of sooting dynamics in droplet combustion using an automated image analysis algorithm** *FUEL*  
Xu, Y., Shen, Y., Avedisian, C., Hicks, M. C., Choi, M. Y.  
2023; 354
- **Soft Robot Skin With Conformal Adaptability for On-Body Tactile Perception of Collaborative Robots** *IEEE ROBOTICS AND AUTOMATION LETTERS*  
Ye, Z., Pang, G., Xu, K., Hou, Z., Lv, H., Shen, Y., Yang, G.  
2022; 7 (2): 5127-5134
- **Burning of Algae-Derived Biofuel Droplets and Their Mixtures with Jet Fuel** *ENERGY & FUELS*  
Xu, Y., Brunson, J. D., Avedisian, C., Shen, Y., Keresztes, I., Condo, A. M., Phillips, D.  
2020; 34 (1): 929-935