

# Stanford

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Yi Xu

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## Bio

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### PROFESSIONAL EDUCATION

- Ph.D, University of Toronto , Mechanical and Industrial Engineering (2020)
- B.A.Sc, University of Toronto , Mechanical and Industrial Engineering (2016)

### STANFORD ADVISORS

- Thomas Jaramillo, Postdoctoral Faculty Sponsor
- Thomas Jaramillo, Postdoctoral Research Mentor

### PATENTS

- Yi Xu. "United States Patent US10001435B1 Methods and apparatuses for measuring material phase properties", Interface Fluidics Ltd, Jul 4, 2017

## Publications

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### PUBLICATIONS

- **A microchanneled solid electrolyte for carbon-efficient CO<sub>2</sub> electrolysis** *JOULE*  
Xu, Y., Miao, R., Edwards, J. P., Liu, S., O'Brien, C. P., Gabardo, C. M., Fan, M., Huang, J., Robb, A., Sargent, E. H., Sinton, D.  
2022; 6 (6): 1333-1343
- **Low coordination number copper catalysts for electrochemical CO<sub>2</sub> methanation in a membrane electrode assembly** *NATURE COMMUNICATIONS*  
Xu, Y., Li, F., Xu, A., Edwards, J. P., Hung, S., Gabardo, C. M., O'Brien, C. P., Liu, S., Wang, X., Li, Y., Wicks, J., Miao, R., Liu, et al  
2021; 12 (1): 2932
- **Self-Cleaning CO<sub>2</sub> Reduction Systems: Unsteady Electrochemical Forcing Enables Stability** *ACS ENERGY LETTERS*  
Xu, Y., Edwards, J. P., Liu, S., Miao, R., Huang, J., Gabardo, C. M., O'Brien, C. P., Li, J., Sargent, E. H., Sinton, D.  
2021; 6 (2): 809-815
- **Oxygen-tolerant electroproduction of C-2 products from simulated flue gas** *ENERGY & ENVIRONMENTAL SCIENCE*  
Xu, Y., Edwards, J. P., Zhong, J., O'Brien, C. P., Gabardo, C. M., McCallum, C., Li, J., Dinh, C., Sargent, E. H., Sinton, D.  
2020; 13 (2): 554-561
- **The Full Pressure-Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Xu, Y., Riordon, J., Cheng, X., Bao, B., Sinton, D.  
2017; 56 (45): 13962-+