

## Austin Cristobal Flick

Postdoctoral Scholar, Materials Science and Engineering

### Bio

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , MATSC-PHD (2024)
- Master of Science, Stanford University , MATSC-MS (2021)
- Bachelor of Science, Stanford University , MATSC-BS (2019)
- Master of Science, Stanford University , Materials Science and Engineering (2021)
- Bachelor of Science, Stanford University , Materials Science and Engineering (2019)

#### STANFORD ADVISORS

- Reinhold Dauskardt, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Indirect Liftoff Mechanism for High-Throughput, Single-Source Laser Scribing for Perovskite Solar Modules** *ADVANCED ENERGY MATERIALS*  
Flick, A. C., Rolston, N., Dauskardt, R. H.  
2024
- **An open-source environmental chamber for materials-stability testing using an optical proxy** *DIGITAL DISCOVERY*  
Keeseey, R., Tiihonen, A., Siemenn, A. E., Colburn, T. W., Sun, S., Hartono, N., Serdy, J., Zeile, M., He, K., Gurtner, C. A., Flick, A. C., Batali, C., Encinas, et al  
2023; 2 (2): 422-440
- **Machine learning with knowledge constraints for process optimization of open-air perovskite solar cell manufacturing** *JOULE*  
Liu, Z., Rolston, N., Flick, A. C., Colburn, T. W., Ren, Z., Dauskardt, R. H., Buonassisi, T.  
2022; 6 (4): 834-849
- **Low-temperature sprayed SnOx nanocomposite films with enhanced hole blocking for efficient large area perovskite solar cells** *JOURNAL OF MATERIALS CHEMISTRY A*  
Zhang, J., Ding, Y., Jiang, G., Flick, A. C., Pan, Z., Scheideler, W. J., Zhao, O., Chen, J. P., Yang, L., Rolston, N., Dauskardt, R. H.  
2021
- **Perspectives of Open-Air Processing to Enable Perovskite Solar Cell Manufacturing** *FRONTIERS IN ENERGY RESEARCH*  
Rolston, N., Sleugh, A., Chen, J. P., Zhao, O., Colburn, T. W., Flick, A. C., Dauskardt, R. H.  
2021; 9
- **Rapid Open-Air Processing of Low-Cost Perovskite Solar Modules**  
Rolston, N., Scheideler, W. J., Flick, A., Chen, J. P., Elmaraghi, H., Sleugh, A., Zhao, O., Woodhouse, M., Dauskardt, R. H., IEEE  
IEEE.2021: 88-91
- **Rapid Open-Air Fabrication of Perovskite Solar Modules** *JOULE*  
Rolston, N., Scheideler, W. J., Flick, A. C., Chen, J. P., Elmaraghi, H., Sleugh, A., Zhao, O., Woodhouse, M., Dauskardt, R. H.  
2020; 4 (12): 2675-92