Stanford

Joseph Perryman

Postdoctoral Scholar, Chemical Engineering

Bio

STANFORD ADVISORS

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

Publications

PUBLICATIONS

- **Design Principles for Multinary Metal Chalcogenides: Toward Programmable Reactivity in Energy Conversion** *CHEMISTRY OF MATERIALS*
  Perryman, J. T., Velazquez, J. M.
  2021; 33 (18): 7133-7147
- **Direct solid-state nucleation and charge-transport dynamics of alkali metal-intercalated M2Mo6S6 (M = K, Rb, Cs) nanorods** *JOURNAL OF MATERIALS CHEMISTRY C*
  Perryman, J. T., Kulkarni, A. R., Velazquez, J. M.
  2020; 8 (31): 10742-10748
- **Metal-promoted Mo6S8 clusters: a platform for probing ensemble effects on the electrochemical conversion of CO2 and CO to methanol** *MATERIALS HORIZONS*
  Perryman, J. T., Ortiz-Rodriguez, J. C., Jude, J. W., Hyler, F. P., Davis, R. C., Mehta, A., Kulkarni, A. R., Patridge, C. J., Velazquez, J. M.
  2020; 7 (1): 193–202
- **X-ray absorption spectroscopy study of the electronic structure and local coordination of 1st row transition metal-promoted Chevrel-phase sulfides** *JOURNAL OF COORDINATION CHEMISTRY*
  Perryman, J. T., Hyler, F. P., Ortiz-Rodriguez, J. C., Mehta, A., Kulkarni, A. R., Velazquez, J. M.
  2019; 72 (8): 1322–35