



Liam Nagle Cocco

Postdoctoral Scholar, Photon Science, SLAC

Bio

PROFESSIONAL EDUCATION

- Master of Science, University Of London (2019)
- Doctor of Philosophy, University of Cambridge (2024)

STANFORD ADVISORS

- Piero Pianetta, Postdoctoral Faculty Sponsor

LINKS

- lnaglecocco.github.io: [lnaglecocco.github.io](https://github.com/lnaglecocco)

Publications

PUBLICATIONS

- **Structural Elucidation of $\text{Na}_{2/3}\text{NiO}_2$, a Dynamically Stabilized Cathode Phase with Nickel Charge and Sodium Vacancy Ordering** *CHEMISTRY OF MATERIALS*
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- **Displacive Jahn-Teller Transition in NaNiO_2** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
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- **Spin-Glass States Generated in a van der Waals Magnet by Alkali-Ion Intercalation.** *Advanced materials (Deerfield Beach, Fla.)*
Khan, S., Aw, E. S., Nagle-Cocco, L. A., Sud, A., Ghosh, S., Subhan, M. K., Xue, Z., Freeman, C., Sagkovits, D., Gutiérrez-Llorente, A., Verzhbitskiy, I., Arroo, D. M., Zöllitsch, et al
2024: e2400270
- **Local Structure and Dynamics in $\text{MPr}(\text{CN})_6$ Prussian Blue Analogues.** *Chemistry of materials : a publication of the American Chemical Society*
Harbourne, E. A., Barker, H., Guérault, Q., Cattermull, J., Nagle-Cocco, L. A., Roth, N., Evans, J. S., Keen, D. A., Goodwin, A. L.
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- **Mechanochemically-induced glass formation from two-dimensional hybrid organic-inorganic perovskites.** *Chemical science*
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- **Jahn-Teller Distortions and Phase Transitions in LiNiO_2 : Insights from Ab Initio Molecular Dynamics and Variable-Temperature X-ray Diffraction.** *Chemistry of materials : a publication of the American Chemical Society*

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2024; 36 (5): 2289-2303

- **Van Vleck analysis of angularly distorted octahedra using VanVleckCalculator.** *Journal of applied crystallography*
Nagle-Cocco, L. A., Dutton, S. E.
2024; 57 (Pt 1): 20-33

- **Magnetic and Magnetocaloric Properties of the A₂LnSbO₆ Lanthanide Oxides on the Frustrated fcc Lattice.** *Inorganic chemistry*
Koskelo, E. C., Kelly, N. D., Nagle-Cocco, L. A., Bocarsly, J. D., Mukherjee, P., Liu, C., Zhang, Q., Dutton, S. E.
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- **Deciphering the *In Situ* Surface Reconstruction of Supercapacitive Bimetallic Ni-Co Oxyphosphide during Electrochemical Activation Using Multivariate Statistical Analyses** *ACS APPLIED ENERGY MATERIALS*
Saleh, A. A., Sayed, D. M., Nagle-Cocco, L. V., Divitini, G., Ghanem, L. G., Ducati, C., Allam, N. K.
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- **Pressure Tuning the Jahn-Teller Transition Temperature in NaNiO₂.** *Inorganic chemistry*
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