

## Ben Isaac Poulter

Research Assoc-Experimental, SLAC National Accelerator Laboratory

### Publications

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#### PUBLICATIONS

- **Quantifying d-d and Metal–Ligand Interactions across Distant Metal Sites as a Function of Ligand Architecture and Solvent** *ChemPhysChem*  
Yang, Z., et al  
2025
- **Integrated Quantum-Classical Protocol for the Realistic Description of Solvated Multinuclear Mixed-Valence Transition-Metal Complexes and Their Solvatochromic Properties.** *Journal of chemical theory and computation*  
Prampolini, G., Andersen, A., Poulter, B. I., Khalil, M., Govind, N., Biasin, E., Pastore, M.  
2023
- **Uncovering the 3d and 4d Electronic Interactions in Solvated Ru Complexes with 2p3d Resonant Inelastic X-ray Scattering.** *Inorganic chemistry*  
Poulter, B. I., Biasin, E., Nowak, S. H., Kroll, T., Alonso-Mori, R., Schoenlein, R. W., Govind, N., Sokaras, D., Khalil, M.  
2023
- **Revealing core-valence interactions in solution with femtosecond X-ray pump X-ray probe spectroscopy.** *Nature communications*  
Weakly, R. B., Liekhus-Schmaltz, C. E., Poulter, B. I., Biasin, E., Alonso-Mori, R., Aquila, A., Boutet, S., Fuller, F. D., Ho, P. J., Kroll, T., Loe, C. M., Lutman, A., Zhu, et al  
2023; 14 (1): 3384
- **Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency.** *The journal of physical chemistry letters*  
Liekhus-Schmaltz, C., Fox, Z. W., Andersen, A., Kjaer, K. S., Alonso-Mori, R., Biasin, E., Carlstad, J., Chollet, M., Gaynor, J. D., Glowonia, J. M., Hong, K., Kroll, T., Lee, et al  
1800: 378-386
- **Resonant Inelastic X-ray Scattering Calculations of Transition Metal Complexes Within a Simplified Time-Dependent Density Functional Theory Framework.** *Journal of chemical theory and computation*  
Nascimento, D. R., Biasin, E., Poulter, B. I., Khalil, M., Sokaras, D., Govind, N.  
2021
- **Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering.** *Chemical science*  
Biasin, E., Nascimento, D. R., Poulter, B. I., Abraham, B., Kunnus, K., Garcia-Esparza, A. T., Nowak, S. H., Kroll, T., Schoenlein, R. W., Alonso-Mori, R., Khalil, M., Govind, N., Sokaras, et al  
2021; 12 (10): 3713-3725
- **A Highly Sensitive Nonenzymatic Glucose Biosensor Based on the Regulatory Effect of Glucose on Electrochemical Behaviors of Colloidal Silver Nanoparticles on MoS<sub>2</sub>.** *Sensors (Basel, Switzerland)*  
Anderson, K., Poulter, B., Dudgeon, J., Li, S. E., Ma, X.  
2017; 17 (8)