

Dr. William E. Kaden
 Associate Professor of Physics
 4111 Libra Drive
 Room 430
 Orlando, FL 32816
 William.kaden@ucf.edu

(a) Professional Preparation

SUNY Oswego	Oswego, NY	Chemistry	B.S. 2002
University of Utah	Salt Lake City, UT	Physical Chemistry	Ph.D. 2010
Fritz Haber Institute of the Max Planck Society	Berlin, Germany	Chemical-Physics	Postdoctoral Fellow 2010-2014

(b) Appointments

Associate Professor of Physics	University of Central Florida	2021-present
Assistant Professor of Physics	University of Central Florida	2014-2021
Postdoctoral Research Fellow	Fritz Haber Institute	2010-2014
Graduate Research Assistant	University of Utah	2003-2010
Undergraduate Research Assistant	SUNY Oswego	2002
REU Research Assistant	Princeton University	2002

(c) Publications

(i) List up to five (5) publications/products that are the **most current** ones related to your field

1. A. Khaniya, S. Ezzat, Q. Cumston, K.R. Coffey, and W.E. Kaden, "Ru(0001) and SiO₂/Ru(0001): XPS study," *Surface Science Spectra* **27**, 024009 (2020). DOI:[10.1116/6.0000172](https://doi.org/10.1116/6.0000172)
2. A. Khaniya, and W.E. Kaden, "Epitaxial Growth of δ -like MoN Films on Ru(0001)," *Topics in Catalysis* **62**, 1035-1043 (2019). DOI:[10.1007/s11244-019-01198-7](https://doi.org/10.1007/s11244-019-01198-7)
3. B. Dhar, J. Pollock, J. Gloria, and W.E. Kaden, "TPD characterization of Al-OD-Si sites at the interface of bilayer Al_{0.42}Si_{0.58}O₂/Ru(0001) thin-films," *Surface Science* **696**, 121595 (2020). DOI:[10.1016/j.susc.2020.121595](https://doi.org/10.1016/j.susc.2020.121595)
4. S.S. Ezzat, P.D. Mani, A. Khaniya, W. Kaden, D. Gall, K. Barmak, and K.R. Coffey, "Resistivity and surface scattering of (0001) single crystal ruthenium thin films," *Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films* **37**, 031516 (2019). DOI:[10.1116/1.5093494](https://doi.org/10.1116/1.5093494)
5. M. Sajid, W.E. Kaden, and A. Kara, "DFT Investigation of Ammonia Formation via a Langmuir-Hinshelwood Mechanism of Mo-Terminated δ -MoN(0001)," *ACS Omega* **7**, 4277 4285 (2022). DOI:[10.1021/acsomega.1c05967](https://doi.org/10.1021/acsomega.1c05967)

(ii) List up to five (5) other significant publications/products.

1. L. Hu, A. Khaniya, J. Wang, G. Chen, W.E. Kaden, and X. Feng, "Ambient electrochemical ammonia synthesis with high selectivity on Fe/Fe oxide catalyst," *ACS Catalysis* **8**, 9312 9319 (2018). DOI:[10.1021/acscatal.8b02585](https://doi.org/10.1021/acscatal.8b02585)
2. K. Barmak, S. Ezzat, R. Gusley, A. Jog, S. Kerdsonpanya, A. Khaniya, E. Milosevic, W.

