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PhD 1994, Applied Physics Yale University and National Synchrotron Light Source, Brookhaven National Laboratory; Alexander von Humboldt Fellowship at the Fritz Haber Institut Max Planck Gesellschaft, Berlin, GE 1994-1996; President of University of California Postdoctoral Fellowship at the Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, CA, 1996-1997; Assistant Professor 1997-2002, Associate Professor 2002-2007, and Full Professor since 2008 at the University of Wisconsin-Milwaukee in Physics.

With 25 years of experience using IR Synchrotron Radiation for a wide variety of experiments, recently, I have, in collaboration with the Synchrotron Radiation Center, designed, constructed and commissioned a new infrared beamline, IRENI, extracting 340 mrad x 25 mrad to illuminate an infrared microscope equipped with a focal plane array detector. This development allows diffraction limited spatial resolution at all wavelengths, rapidly and simultaneously, for an sample area of 40 x 60 micron² to examine kinetics of living cells (phytoplankton), fungi and bacteria-mineral interactions.

Other main research interests include low frequency dynamics at surfaces and water interactions with oxide surfaces.