

NSF NANOSCALE SCIENCE AND ENGINEERING GRANTEES CONFERENCE:

NANO AND AI CONVERGENCE

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Dr. Birgit Schwenzer

Program Director
Solid State and Materials Chemistry (SSMC)
Division of Materials Research
National Science Foundation



Bio: Birgit Schwenzer is a Program Director for the Solid State and Materials Chemistry (SSMC) program in the Division of Materials Research at the National Science Foundation (NSF). She received her MS in Chemistry from the University of Massachusetts Amherst and her Dr. rer. nat. in Chemistry from the University of Konstanz, Germany. Prior to joining NSF in 2016, Dr. Schwenzer was a staff scientist at the Pacific Northwest National Laboratory. Her research background includes synthesis and characterization of inorganic structures, composite materials and organometallic compounds predominantly for optoelectronic, energy conversion and storage, or catalytic applications. She has extensive experience in structure-property relationship investigations for inorganic nano- and microstructures with a focus on vibrational and optical spectroscopy as characterization tools. In addition to scientific publications and authoring a book chapter titled "Energy Conversion and Storage" in *Bioinspired Inorganic Materials: Structure and Function*, (ed. S. R. Hall, The Royal Society of Chemistry, 2019), Dr. Schwenzer holds five U.S. or international patents, was a co-recipient of an R&D 100 Award ("Graphene Nanostructures for Lithium Batteries") in 2012, and she received a NSF Director's Award for Superior Accomplishment in 2024.