

Kayla Green

Professor at Texas Christian University

Fort Worth, TX, US

Chemistry, treatment of oxidative stress (neurodegeneration, Alzheimer's). History of Chemistry (gas, atomic bomb).

Biography

Dr. Kayla N. Green is a native Texan, born and intellectually raised in the Lone Star State. Dr. Green obtained a Ph.D. in Inorganic Chemistry under the direction of Marcetta Darensbourg at Texas A&M University in 2007 studying resin bound synthetic models of Acetyl CoA Synthase and Hydrogenase enzymes. Her interests in applied inorganic chemistry led her to the Advanced Imaging Center where she completed post-doctoral studies under the direction of Dr. Dean Sherry at the UT Southwestern Medical Center in Dallas. In 2010, Dr. Green started her independent career at Texas Christian University in Fort Worth, and was promoted to the rank of associate professor in 2016 and full professor in 2022. Her research team focuses on the development of small molecules as therapeutics for diseases caused by oxidative stress, novel catalysts for challenging hydrocarbon transformations, and electrochemical biosensors. Her work has been supported by the National Institutes of Health, the Robert A. Welch Foundation, and ACS Petroleum Research Fund.

Areas of Expertise

Oxidative Stress, Alzheimer's Disease, Parkinson's Disease, Cataracts and Macular Degeneration, History of Chemistry, War, Atomic Bomb, Gas, STEM Outreach, Synthetic Organic, Synthetic Inorganic

Affiliations

Director, The Green Research Group

Education

UT Southwest Medical Center

Postdoctoral Research

Texas A&M University

Ph.D. Chemistry

Tarleton State University

B.S. Chemistry

Accomplishments

ACS Outreach Volunteer of the Year - DFW Section
2022

TCU Clark Society Endowed Faculty Award
2021-22

American Chemical Society, Women's Chemist Committee Rising Star Award
2020

Tarleton Alumni Academic Forum Honoree for the College of Science and Technology
2020

U.S. Senator Phil Gramm Doctoral Fellowship Award
Chemistry Biology Interface

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