

SHORT BIO

Alessandra Lanzara is the Charles Kittel Professor of Physics at the University of California Berkeley since 2002 and also hold an appointment with the Kavli Energy Nanoscience Institute and the Lawrence Berkeley National Laboratory. She is the Founder and Director of the Center for Sustainable Materials and Innovation at UC Berkeley and is an elected member of the American Academy of Arts and Science.

Lanzara has made groundbreaking contributions in the field of quantum materials, materials where quantum phenomena drive exceptional electronic and magnetic properties and which holds great potential to revolutionize the energy-, information technology-, medical- and transportation sectors. She is recognized for her discovery of new interactions in high temperature superconductors including electron-phonon interaction and strong spin orbit coupling, and for her seminal work in characterizing the band structure of graphene, the effect of symmetry breaking and highlighting the important role of electron correlation. She is also known for pushing the frontier of angle resolved photoemission spectroscopy to the spin realm, with the design of a new method for spin detection based on exchange scattering and time of flight energy analyzer, and for her seminal work in applying high resolution time resolved ARPES to the study of high temperature superconductors.

Lanzara received Laurea in Physics in 1995 from University of Rome La Sapienza, and a Ph.D. in Physics and Materials Science from the same university in 1999. She was then a post-doctoral fellow at Stanford University till 2002.