

University of Texas at San Antonio
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

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Areas of Expertise: electronic and optoelectronic materials and devices; ferroelectric, piezoelectric, pyroelectric, & dielectric ceramics and single crystals and their applications as electromechanical sensors and transducers, optic and nonlinear optical devices, and tunable microwave components.

Professional Memberships: ACerS (Fellow), SPIE (Fellow), IEEE (Senior Member), MRS, AAAS, ASEE, and SWE.

Prof. Guo has been an active researcher and educator working on the frontier of materials science and device engineering. She specializes in the areas of ferroelectric, piezoelectric, and nonlinear dielectric and optical materials. She has established her laboratories with state of the art and wide array of dielectric and optical synthesis and characterization capabilities, including single crystal growth stations versatile for both materials studies and device development. She is known for her research on ferroelectric relaxors, particularly on ferroelectric tungsten bronzes and the morphotropic phase boundary systems; and more recently for her work on resonance enhanced microwave optical interactions. She has given many invited talks at various domestic and international conferences. She is the author/co-author of 200+ refereed technical journal publications, the editor/co-editor of seven transaction books and seven proceedings volumes.

Over the years Dr. Guo, as a PI or a Co-PI, has been awarded multiple research grants by NSF, ONR, DARPA, and industries. She was the Director of a NSF funded Research Experience for Undergraduates Site program at the Dept. of EE, Penn State, 2003-2008. She currently serves as Interim Chair of the Dept. of Electrical and Computer Engineering, UTSA.

Dr. Guo led the Electronics Division of the American Ceramic Society, as elected Division Chair, in 2002-2003 and has been the elected Division Trustee since 2006. She served as an elected member of the Administrative Committee of IEEE-UFFC in '06-'08, representing the ferroelectric community. She has organized many scientific meetings in recent years under the auspice of SPIE, ACerS, and IEEE. She has been recognized as Fellow of the ACerS in 2003 and Fellow of the SPIE in 2009. Dr. Guo presently serves on the editorial boards of the international journal *Ferroelectrics Letters* and *Electroceramics*. She has been recently honored as Honorary Guest Professors of Shanghai University, Beijing University of Technology, and Wuhan University of Technology of China, respectively.

Prior to joining the faculty of UTSA as *Robert E. Clarke Endowed Chair Professor of Electrical Engineering* in the fall of 2007, Dr. Ruyan Guo served on the faculty of Electrical Engineering of The Pennsylvania State University as tenured Professor. She holds a Ph.D. in Solid State Science (Penn State, 1990) and a M.S. and a B.S. in Electrical Engineering (Xi'an Jiaotong University, China, 1984 and 1982). She was a faculty member of The Department of Electrical Engineering at Xi'an Jiaotong University in 1984-85 and a research faculty member of the Materials Research Laboratory, Penn State, from 1991 to 1999. In 2004 she became the first woman in the history of the Dept. EE, PSU, to hold the rank of full professor.