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ANALYSIS OF NATURAL AND SYNTHETIC MATERIALS BY MEANS OF ABSORPTION AND DIFFRACTION

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Abstract

About

DRA. MARÍA ELENA MONTERO CABRERA ENVIRONMENT AND ENERGY ADVANCED MATERIALS

María Elena Montero Cabrera has worked since 1998 at the Advanced Materials Research Center (CIMAV), in Chihuahua, in the department of environment and energy. She is currently conducting research on environmental radioactivity and applications of synchrotron radiation in the study of advanced and environmental materials. she is the leader of the environmental radiological surveillance laboratory in CIMAV. she has been advisor of 15 undergraduate, 31 master and 15 doctoral theses. she is the author of more than 80 articles in international journals. She was president of the Cuban Physical Society from 1994 to 1999.

DR. LUIS EDMUNDO FUENTES COBAS MATERIALS PHYSICS ADVANCED MATERIALS

The academic interest of Dr. Fuentes-Cobas has been focused on the teaching and research of electromagnetism, the structural analysis of materials by means of synchrotron light and the structure-properties relationship in functional solids. his CIMAV crystallography group (mainly graduate students) has solved with synchrotron light the crystal structures of various piezoelectrics and multiferroics, created computer programs two-dimensional diffractometric data and contributed novel algorithms for the prediction of the elasto-electro-magnetic properties of textured polycrystals for the interpretation via modeling of two-dimensional diffractometric data and contributed novel algorithms for the prediction of the elasto-electro-magnetic properties of textured polycrystals.

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