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15th International Conference on Surfaces,
Coatings and Nanostructured Materials
www.nanosmat2024.com

SHORT BIO:

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Elidiane C. Rangel is an Associate Professor at the Science and Technology Institute of Sorocaba, UNESP, Brazil. With a degree in Physics, from Paulista State University (1992), and a Ph.D. in Science, from Campinas State University (1999), she instructs physics classes in the Control and Automation Engineering course as well as disciplines related to Material Science and Technology in the Material Science and Technology Graduate Program, both at UNESP. Besides being a regular member of this program since 2006, she acted as its vice-coordinator from 2014 to 2017. She integrates the Laboratory of Technological Plasma at the Sorocaba unity of UNESP and the Plasma and Materials group, registered in the CNPq Brazilian agency. Her research interests encompass the processing of materials and the deposition of thin films using plasma techniques, including PECVD, PIII, PIID, sputtering and etching. A significant focus of her work lies in the comprehensive characterization of these materials, delving into their compositional, structural, mechanical, tribological, optical, electrochemical, and thermodynamic surface properties. To achieve this, techniques such as FTIR, XPS, RBS, nanoindentation, scratching tests, UV-visible spectroscopy, contact angle measurements, and EIS analysis are employed.