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

SHORT BIO:

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Nazir Monteiro dos Santos is a Research and Development Collaborator for the PROPHIPER Project at the Institute of Advanced Studies (IEAv) of the Department of Aerospace Science and Technology (DCTA), São José dos Campos, São Paulo, Brazil. He has a degree in Chemical Engineering (1989) and a PhD in Mechanical Engineering - Materials and Metallurgy (2010), Brazil. Acts as president of the Brazilian Vacuum Society (<http://www.sbvacu.org.br>), management from 2021 to 2025, annually promoting the Brazilian Congress of Vacuum Applications in Industry and Science (CBrAVIC - <https://www.cbравic.com.br>) with the local organization of institutions from several states in Brazil. He taught subjects related to Materials Science and Technology in the Undergraduate Course in Materials Engineering at the Federal University of Latin American Integration (UNILA) and in the Welding Technology, Mechanical Manufacturing Technology, Industrial Maintenance Technology courses at the State Faculty of Technology of São Paulo (FATEC). She served as a supervisor in the scientific initiation (PIBIC) and technological (PIBIT) programs, acted as coordinator of course completion work and also worked as an internship coordinator. Currently participating in the Hypersonic Propulsion Project (PROPHIPER), with a Research Team Strengthening Grant (FEP). Its research and development activities cover the specification of the thermal protection and management system for hypersonic vehicles, with technical performance in Science, Technology and Innovation (CT&I) projects associated with the processing and characterization of materials (hypersonic plasma tunnel, metallography, optics and scanning electron microscopy, laser and plasma materials processing, additive manufacturing, thermal, mechanical and microstructural testing, ultra-temperature synthesis or characterization of high-performance ceramics).

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