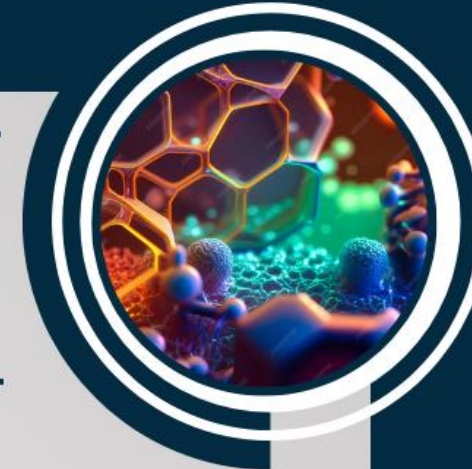




VI INTERNATIONAL WORKSHOP OF
THE GRADUATE PROGRAM ON
PHYSICS ENGINEERING



CERTIFICATE

Hereby we certify that the work **Granulometric Analysis of Mineral Ashes from Thermoelectric Power Plants**, submitted by **Vanderson Cardoso de Lima, Fabíola da Silva Ferreira, Pedro Lucas Silva Lima, Alice de Melo Vieira, Maristela Maris Moura Silva, Adriana Chagas Borges, Mohand Benachour, Dinaldo Cavalcanti de Oliveira, Yana Batista Brandão** was presented as a Poster Communication by **Vanderson Cardoso de Lima** at the VI International Workshop of the Graduate Program on Physics Engineering at UFRPE, hosted in-person, from November 12th to 13th, 2025.

Cabo de Santo Agostinho – PE, 18th of November 2025.

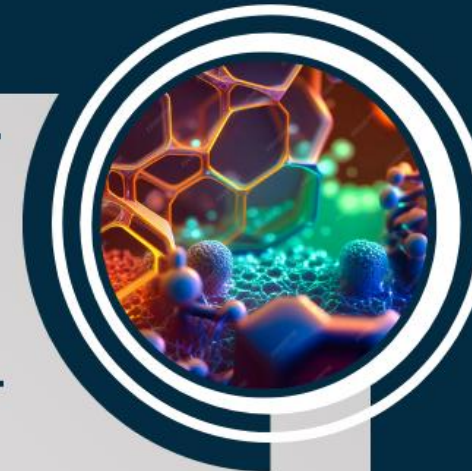



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Hereby we certify that the work **Structural Characterization by X-Ray Diffraction Techniques in Mineral Ash Samples from Thermoelectric Power Plants**, submitted by **Vanderson Cardoso de Lima, Fabíola da Silva Ferreira, Pedro Lucas Silva Lima, Alice de Melo Vieira, Grazianne Andrade Leite, Gisele Adelita Matias, Mohand Benachour, Dinaldo Cavalcanti de Oliveira, Yana Batista Brandão** was presented as a Poster Communication by **Vanderson Cardoso de Lima** at the VI International Workshop of the Graduate Program on Physics Engineering at UFRPE, hosted in-person, from November 12th to 13th, 2025.

Cabo de Santo Agostinho – PE, 18th of November 2025.

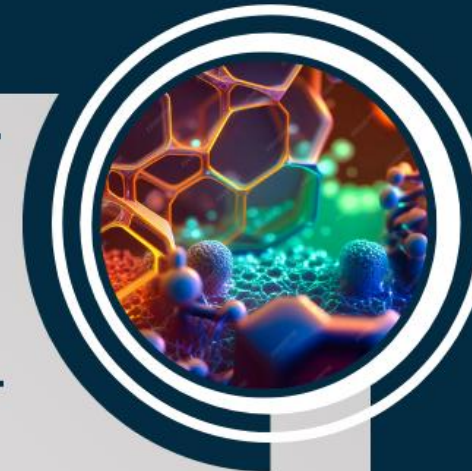



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CERTIFICATE

Hereby we certify that the work **Physico-chemical characterization of thermoelectric power plant ashes: elemental analysis, environmental implications, and reuse recommendations**, submitted by **Vanderson Cardoso de Lima, Pedro Lucas Silva Lima, Fabiola da Silva Ferreira, Alice de Melo Vieira, Grazianne Andrade Leite¹, Cristiane Marcelina de Moraes, Mohand Benachour, Dinaldo C. Oliveira, Yana B. Brandão.** was presented as a Poster Communication by **Vanderson Cardoso de Lima** at the VI International Workshop of the Graduate Program on Physics Engineering at UFRPE, hosted in-person, from November 12th to 13th, 2025.

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