

## Detailed Technical Program (Poster)

**Friday, June 28, 2024 16:00-16:30**

Title	Paper Ref.	Authors	Country
<b>Materials</b>			
The difference between phase change materials from the perspective of thermo-physical properties	ID115	I. Jmal, Z. Driss	Tunisia
Valorization of Grapevine fibers in biocomposites	ID162	M. Khlif, M. Frikha, F. Tounsi	Tunisia
Valorization of biomass to develop an eco-friendly packaging film	ID206	A. Fajraoui, A. Ghorbel, A. Elloumi	Tunisia
Development of intelligent biofilm made from starch/curcuma for food packaging	ID208	A. Fajraoui, A. Ghorbel, A. Elloumi	Tunisia
Effect of Layer thickness on friction and wear properties of FFF printed PLA samples	ID207	B. Ben Difallah, A. Ghorbel, O. Ghorbel, A. Elloumi, M. Kharrat	Tunisia
Durability of splint arm manufactured by the FFF 3D printing technology	ID194	A. Ghorbel, A. Traore, A. Elloumi	Tunisia
Study of the sensitivity of a brake lining material to sliding speed and contact pressure	ID135	M. Baklouti, A-L. Cristol, Y. Desplanques, R. Elleuch	Tunisia
Importance of drying for enhanced quality of recycled PA6 and PA66	ID154	I. Ben Amor, M. Baklouti, O.Klinkova, I. Tawfiq, R. Elleuch	Tunisia
Relevant parameters for morphological analysis of brake lining surface after friction	ID197	M. Baklouti, A. L. Cristol, Y. Desplanques, R. Elleuch	Tunisia
In vitro study of the tribological properties of an antibacterial dental composite	ID228	R. Chaaben, K. Elleuch	Tunisia
<b>Applied Mechanics</b>			
Mechanical behavior of Fe-TiB2 Steel matrix composite	ID27	H. Jrad, A. Bouhamed, M. Dammak	Tunisia
Exploring the hot-diffusion bonding of stainless steel/aluminum/stainless steel-clad plate: Microstructural insights and deep drawing simulation	ID209	Y. Gabsi, S. Zouari, M. Abdennadher, L. Dieng, R. Elleuch	Tunisia/France
Numerical investigation of hyperelastic behavior in recycled rubber/aluminum powder	ID75	A. Bouhamed, H. Jrad	Tunisia
Finite element analysis of hip stem implant biomechanical behavior	ID80	S. Elleuch, R. Nouira, H. Jrad	Tunisia
<b>Thermal Sciences and Renewable Energy</b>			
Theoretical and Experimental Study of the Combustion-Incineration of Atmospheric Effluents Generated by Wood Carbonization	ID189	T. Gargouri	Tunisia
<b>Industrial applications technology transfer</b>			
Ant colony optimization for the single machine scheduling problem with sequence dependent setup times	ID180	A. Mellouli, C. Wafi, R. Mellouli	Tunisia
<b>Machine Learning for Mechanical Systems</b>			
Implementation of digital twin in dimensional part inspection	ID220	B. Zghal, H. Dardouri	Tunisia
<b>Fluid Mechanics</b>			
Numerical simulation of PCM melting process in a rectangular enclosure: Application to buildings	ID 179	Amani Amamou, Nejla Mahjoub Said	Tunisia