

Personal Information

Name: Abdelhak Family name: BERKIA

Date of Birth: 21/02/1982 Place of Birth: Khenchela (Algeria)

Professor **Maitre de conférence -A-**

Specialization: **Mechanical Engineering**

Master's Degree :2009, Ph.D. 2022, Professorship :2024.

Professional Information

- Head of the Licence's Degree in Mechanical Construction (2017-2019).
- Head of Mechanical Departement (2019-2024)

Scientific Experience

- Member of the ISMA laboratory.

Published Academic Articles in the Last Year



1. K. Mansouri, S. Touati, H. Boumediri, H. Djebaili, M. Chitour, A. Zemmouri, F. Khadraoui, A. Berkia, **"Numerical Modeling and Optimization of Mechanical Properties in Porous Aluminum Matrix Composites Reinforced with SiC Particles"**, *Materials Research*. 2025; 28:e20240474.

2. Bilal LITOUCHE, Billel REBAI, Khelifa MANSOURI, **"Investigating the Impact of Flow Profile on Heat Transfer in Nanofluid Flow: A Numerical Study"**, *MECHANIKA*. Vol. 30, No. 2, 2024: 177-182

3. Mourad Chitour, Billel Rebai, Khelifa Mansouri, Faicel Khadraoui, Abdelak Berkia, Tidjani Messas, **"Investigating the Influence of Material Composition on Bending Analysis of Functionally Graded Beams Using a 2D Refined Theory"**, *Journal of Computational Applied Mechanics* 2024, 55 (1): 62-76.

4. F. Khadraoui, K. Mansouri, N. Sid, B. Hannachi, M. Chitour, A. Berkia, B. Rebai, N. Himeur, **"Effect of Particle Shape and Size on Behavior of Composite Material Using Finite Element Method"**, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, Vol. 16 No 5, 05029(5pp) (2024).

5. B. Chermime, K. Mansouri, H. Djebaili, H. Hadjela, O.A. Abbassi, O. Hamidane, **"Improvement by Heat Treatment of the Mechanical Properties of a Grooving Cutter"**, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, Vol. 16 No 2, 02025(5pp) (2024)

9. Abdelhak Berkia, Billel Rebai, Khelifa Mansouri, Mourad Chitour and Faicel Khadraoui, **"Using finite element modeling to predict stress concentration factors in tubular T, Y and K joints"**, *Engineering Solid Mechanics*, Vol. 12, No 2, 103-112 (2024),



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