

البحوث المنشورة – سكوبس – لقسم التقنيات الميكانيكية

NO.	Title	Authors	Link
1.	FATIGUE BEHAVIOUR OF TEMPERED AND ISOTHERMAL HEAT TREATED AISI 5160 LEAF SPRING STEEL	Sultan, J.N., Karash, E.T., Najim, M.K. Jurnal Teknologi , 2023, 85(3), pp. 15–24	<a href="http://dx.doi.org/10.11113/jurnalteknologi.v85.18640">http://dx.doi.org/10.11113/jurnalteknologi.v85.18640</a>
2.	A Mathematical Model for Non-Linear Structural Analysis Reinforced Beams of Composite Materials	Kassim, M.T.E., Karash, E.T., Sultan, J.N. Mathematical Modelling of Engineering Problems., 2023, 10(1), pp. 311–333	DOI: <a href="https://doi.org/10.18280/mmep.100137">https://doi.org/10.18280/mmep.100137</a>
3.	State Stress Analysis of Dental Restoration Materials Using the ANSYS Program	Emad Toma Karash, Muna Y Slewa, Bushra Habeeb AL-Maula Journal of Composite & Advanced Materials/Revue des Composites et des Matériaux, 2023/6/1	DOI: <a href="https://doi.org/10.18280/rcma.330306">https://doi.org/10.18280/rcma.330306</a>
4.	The Influence of Repeated Heat Treatments on The Propagation of Fatigue Cracking of Medium Carburized Steel	Majid Khaleel Najem, Jamal Nayief Sultan , Emad Toma Karash*, Adel M. Ali, Hssein A. Ibrhim Universiti Teknologi MARA (UiTM), Malaysia, 2023	<a href="https://doi.org/10.24191/jmeche.v20i2.22050">https://doi.org/10.24191/jmeche.v20i2.22050</a>
5.	MATHEMATICAL MODEL FOR THE TEMPERATURE DISTRIBUTION ON THE SURFACE OF TWO ALUMINUM ALLOYS WELDED BY FRICTION STIR WELDING	Karash, E.T., Ali, H.M., Hamid, A.F. Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology., 2022, 33, pp. 47–58	<a href="http://dx.doi.org/10.35219/awet.2022.04">http://dx.doi.org/10.35219/awet.2022.04</a>
6.	The Effect of Carburization and Repeated Heat Treatment with Different Solutions on the Fatigue Resistance of Medium Carbon Steel	Sultan, J.N., Karash, E.T., Kassim, M.T.E., Ali, A.M., Ibrhim, H.A. International Journal of Heat and Technology., 2022, 40(6), pp. 1478–1484	<a href="http://dx.doi.org/10.18280/ijht.400616">http://dx.doi.org/10.18280/ijht.400616</a>
7.	Study the Machining Accuracy in Hole Reaming of Medium Carbon Steel Using Ultrasonic Vibration Method	Ali, H.M., Karash, E.T., Elias, M.T. Journal Europeen des Systemes Automatisees., 2022, 55(4), pp. 527–533	<a href="http://dx.doi.org/10.18280/jesa.550412">http://dx.doi.org/10.18280/jesa.550412</a>
8.	Comparison of the Influence of Temperature Change Distribution of Three Surface Regions on the Hardness of Two Dissimilar Aluminum Alloys Welded by Friction Stir Welding	Karash, E.T., Sultan, J.N., Najem, M.K., Hamid, A.F. International Journal of Heat and Technology., 2022, 40(4), pp. 1013–1023	<a href="http://dx.doi.org/10.18280/ijht.400419">http://dx.doi.org/10.18280/ijht.400419</a>
9.	The Effect of Multi-Walled Carbon Nanotubes Additives on the Tribological Properties of Austempered AISI 4340 Steel	Sultan, J.N., Karash, E.T., Abdulrazzaq, T.K., Elias Kassim, M.T. Journal Europeen des Systemes Automatisees., 2022, 55(3), pp. 387–396	<a href="http://dx.doi.org/10.18280/ijht.400419">http://dx.doi.org/10.18280/ijht.400419</a>
10.	The Difference in the Wall Thickness of the Helicopter Structure Are Made of Composite Materials with Another Made of Steel	Karash, E.T., Sultan, J.N., Najem, M.K. Mathematical Modelling of Engineering Problems., 2022, 9(2), pp. 313–324	<a href="http://dx.doi.org/10.18280/mmep.090204">http://dx.doi.org/10.18280/mmep.090204</a>

11.	<b>The Amount of Excess Weight from the Design of an Armored Vehicle Body by Using Composite Materials Instead of Steel</b>	Najem, M.K., Karash, E.T., Sultan, J.N. Revue des Composites et des Materiaux Avances., 2022, 32(1), pp. 1–10	<a href="http://dx.doi.org/10.18280/rcma.320101">http://dx.doi.org/10.18280/rcma.320101</a>
12.	<b>The Effect of Stress Ratio on Fatigue Cracks Growth Rate in Aluminum Alloy</b>	Karash, E.T. WSEAS Transactions on Applied and Theoretical Mechanics., 2022, 17, pp. 235–244, 28	<a href="http://dx.doi.org/10.37394/232011.2022.17.28">http://dx.doi.org/10.37394/232011.2022.17.28</a>
13.	<b>A Comparison Between a Solid Block Made of Concrete and Others Made of Different Composite Materials.</b>	Karash, Emad Toma; Alsttar Sediqer, Tymor Abed; Elias Kassim, Mohammad Takey Journal of Composite & Advanced Materials / Revue des Composites et des Matériaux Avancés . Dec2021, Vol. 31 Issue 6, p341-347. 7p.	<a href="http://dx.doi.org/10.18280/rcma.310605">http://dx.doi.org/10.18280/rcma.310605</a>