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البحوث المنشورة

Al Azzawi, W., Islam, M.M., Leng, J., Li, F. and Epaarachchi, J.A., 2017. *Quantitative and qualitative analyses of mechanical behavior and dimensional stability of styrene-based shape memory composites*. Journal of Intelligent Material Systems and Structures, 28(20), pp.3115-3126.

Al Azzawi, W., Epaarachchi, J.A., Islam, M. and Leng, J., 2017. *Implementation of a finite element analysis procedure for structural analysis of shape memory behaviour of fibre reinforced shape memory polymer composites*. Smart Materials and Structures, 26(12), p.125002.

Al Azzawi, W., Epaarachchi, J.A. and Leng, J., 2018. *Investigation of ultraviolet radiation effects on thermomechanical properties and shape memory behaviour of styrene-based shape memory polymers and its composite*. Composites Science and Technology, 165, pp.266-273.

Herath, H.M.C.M., Epaarachchi, J.A., Islam, M.M., Al-Azzawi, W., Leng, J. and Zhang, F., 2018. *Structural performance and photothermal recovery of carbon fibre reinforced shape memory polymer*. Composites Science and Technology, 167, pp.206-214.

Azzawi, Wessam Al. "Development and performance evaluation of a morphing wing design using shape memory polymer and composite corrugated structure." *Australian Journal of Mechanical Engineering* (2022): 1-15.‏

Mohammed, A. A., Haris, S. M., & Al Azzawi, W. (2020). Estimation of the ultimate tensile strength and yield strength for the pure metals and alloys by using the acoustic wave properties. *Scientific reports*, *10*(1), 1-12.‏

Al Azzawi, W., Epaarachchi, J.A. and Leng, J., Evaluating the temperature and glass fibre reinforcement effects on the damping properties of the shape memory polymers, 21st International Conference on Composite Materials Xi’an, 20-25th August 2017

Herath, M., Al-Azzawi, W., Epaarachchi, J., Islam, M., Robertson, S., Leng, J. and Zhang, F., 2018, February. Thermo-mechanical behaviour and shape memory characteristics of carbon fibre reinforced epoxy. In 2018 International Conference on Nanoscience and Nanotechnology Poster Session Abstracts (ICONN 2018). International Conference on Nanoscience and Nonaotechnology.

Mohammed, Arshed Abdulhamed, and Wessam Al Azzawi. "Drawing the Tensile Curve for Pure Metals and Alloys Depending On Crystal Structure and Acoustic Impedance." *IOP Conference Series: Materials Science and Engineering*. Vol. 1076. No. 1. IOP Publishing, 2021.‏

Kadhim, H. M., Al-Nassar, S. I., Al Azzawi, W., Shehab, A. A., Mahmoud, A. K., & Demiral, M. (2021, February). Evaluation of the Mechanical Characteristics of Hybrid Nanocomposite Materials (TiO2-SiO2-ZrO2). In *IOP Conference Series: Materials Science and Engineering* (Vol. 1076, No. 1, p. 012083). IOP Publishing.‏