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2025**Improving the impact resistance of basalt fiber-reinforced polymer composites via a biomimetic nacre structure.**Huang X, Xiang D, Xie G, Gong Y, Harkin-Jones E, Wang M, Liu L, Wu Y, Mu M and Liu H. *Composites Communications* vol. 53, Elsevier.**2024****Tannic acid and aminopropyltriethoxysilane modified basalt fiber/epoxy resin composites with enhanced interfacial and mechanical properties.**Xiang D, Chen C, Xie G, Gong Y, Harkin Jones E, Liu H, Wang M, Liu L, Wu Y, Zhao C and Li H. *Polymer Composites*. Wiley.**Analytical vibration modelling and solution of bars with frictional clamps.**Tfekci M, Sun Y, Yuan J, Maharaj C, Liu H, Dear JP and Salles L. *Journal of Sound and Vibration* vol. 577, Elsevier.**Integrating convolutional neural network and constitutive model for rapid prediction of stress-strain curves in fibre reinforced polymers: A generalisable approach.**Ding Z, Attar HR, Wang H, Liu H and Li N. *Materials & Design* vol. 241, Elsevier.**The Relationship Between the Extent of Indentation and Impact Damage in Carbon-Fibre Reinforced-Plastic Composites after a Low-Velocity Impact.**Brooks RA, Liu J, Hall ZEC, Joesbury AM, Harper LT, Liu H, Kinloch AJ and Dear JP. *Applied Composite Materials* vol. 31, (6) 1869-1888. Springer Nature.**Damage and energy absorption behavior of CFRP/aluminum hybrid open-section thin-walled columns subjected to quasi-static loading.**Mou H, Chen Y, Feng Z and Liu H. *Thin-Walled Structures* vol. 197, Elsevier.**Experimental characterisation and constitutive modelling of the intra-ply tensile and shear properties of unidirectional fibre reinforced thermoplastics (UD FRTPs) under solid-state stamp forming conditions.**Wang H, Ding Z, Chen X, Liu H and Li N. *Composites Part A Applied Science and Manufacturing* vol. 179, Elsevier.**Experimental and numerical studies on filled-hole compression of FRP laminates considering different countersunk hole configurations.**Zhang D, Zhang C, Qi J, Zhou J, Zheng X and Liu H. *Construction and Building Materials* vol. 417, Elsevier.**Nonlinear behaviour of epoxy and epoxy-based nanocomposites: an integrated experimental and computational analysis.**Tfekci M, Baytak T, Bulut O, Pir , Arat SA, Özkal B, Liu H, Dear JP and Salles L. *Mechanics Based Design of Structures and Machines* vol. 52, (9) 6858-6888. Taylor & Francis.**2023****Numerical investigation of the low-velocity impact damage resistance and tolerance of composite laminates with preloads.**Zhang D, Zhang W, Zhou J, Zheng X, Wang J and Liu H. *Aerospace Science and Technology* vol. 142, Elsevier.

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