



## Enquan Chew

- Ph.D. Student in Mechanical Engineering, admitted Autumn 2022
- Ph.D. Minor, Aeronautics and Astronautics

### Publications

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#### PUBLICATIONS

- **Experimental and numerical study on the impact behavior of Double-Double laminates under high-speed penetration** *INTERNATIONAL JOURNAL OF IMPACT ENGINEERING*  
Xiao, L. J., Zhen, H., Tay, T. E., Shen, J., Zhi, J., Li, Y. N., Xu, W. L., Huang, J. Z., Chew, E., Fan, H. T., Liu, J. L.  
2026; 214
- **Effects of low-velocity impact on the quasi-static and fatigue performance of 3D woven composites** *COMPOSITE STRUCTURES*  
Huang, J., Zheng, T., Tay, T. E., Guo, L., Tan, V. C., Chew, E., Liu, J. L.  
2024; 346
- **Improving the impact performance of natural fiber reinforced laminate through hybridization and layup design** *COMPOSITES SCIENCE AND TECHNOLOGY*  
Liu, J. L., Pham, V. H., Mencattelli, L., Chew, E., Chua, P. Y., Shen, J., Tian, K., Zhi, J., Jiang, D., Tay, T. E., Tan, V. C.  
2024; 251
- **Improving the impact performance and residual strength of carbon fibre reinforced polymer composite through intralaminar hybridization** *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING*  
Tian, K., Tay, T. E., Tan, V. C., Haris, A., Chew, E., Pham, V. H., Huang, J. Z., Raju, K., Sugahara, T., Fujihara, K., Zushi, H., Liu, J. L.  
2023; 171
- **Bio-inspired helicoidal thin-ply carbon fiber reinforced epoxy laminates with nylon microparticles for improved toughness and healing** *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING*  
Liu, J. L., Pham, V. H., Tay, T. E., Huang, J., Chew, E., Tan, V. C.  
2023; 171
- **A new partially-infused fiber reinforced thermoplastic composite for improving impact resistance** *INTERNATIONAL JOURNAL OF IMPACT ENGINEERING*  
Huang, J., Tan, V. C., Chew, E., Chan, K. J., Tay, T. E., Guo, L., Liu, J. L.  
2022; 168
- **Improving the mechanical properties of natural fibre reinforced laminates composites through Biomimicry** *COMPOSITE STRUCTURES*  
Chew, E., Liu, J. L., Tay, T. E., Tran, L. N., Tan, V. C.  
2021; 258