

DAFTAR PUSTAKA

- Cheng, Y., Li, J., Qian, X., & Rudykh, S. (2021). 3D printed recoverable honeycomb composites reinforced by continuous carbon fibers. *Composite Structures*, 268. <https://doi.org/10.1016/j.compstruct.2021.113974>
- Ciecierska, E., Jurczyk-Kowalska, M., Bazarnik, P., Gloc, M., Kulesza, M., Kowalski, M., Krauze, S., & Lewandowska, M. (2016). Flammability, mechanical properties and structure of rigid polyurethane foams with different types of carbon reinforcing materials. *Composite Structures*, 140, 67–76. <https://doi.org/10.1016/j.compstruct.2015.12.022>
- Cruz, E. O., Vyörykkä, J. T., Luiz, R. V., Jhalaria, M., Vlasak, P. R., & Savastano, H. (2023). New method for graphitizing polyurethane (PU) prepolymers over cellulose fiber surface and physical properties assessment on cementitious composites. *Construction and Building Materials*, 364. <https://doi.org/10.1016/j.conbuildmat.2022.129935>
- Das, R. K., Nayak, B., Gautam, S. S., & Rana, N. K. (2023). Fabrication and characterisation of GFRP composite as skin material of sandwich structure. *Materials Today: Proceedings*, 76, 569–572. <https://doi.org/10.1016/j.matpr.2022.11.165>
- Farrokhhabadi, A., Ahmad Taghizadeh, S., Madadi, H., Norouzi, H., & Ataei, A. (2020). Experimental and numerical analysis of novel multi-layer sandwich panels under three point bending load. *Composite Structures*, 250. <https://doi.org/10.1016/j.compstruct.2020.112631>
- Helou, M., & Kara, S. (2018). Design, analysis and manufacturing of lattice structures: An overview. *International Journal of Computer Integrated Manufacturing*, 31(3), 243–261. <https://doi.org/10.1080/0951192X.2017.1407456>
- International, A., & indexed by mero, files. (t.t.). *Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials 1*. <https://www.researchgate.net/publication/330713407>
- Jin, Q., Wang, J., Chen, J., & Bao, F. (2022). Axial compressive behavior and energy absorption of syntactic foam-filled GFRP tubes with lattice frame reinforcement. *Composite Structures*, 299. <https://doi.org/10.1016/j.compstruct.2022.116080>
- Karsandik, Y., Sabuncuoglu, B., Yildirim, B., & Silberschmidt, V. V. (2023). Impact behavior of sandwich composites for aviation applications: A review. Dalam *Composite Structures* (Vol. 314). Elsevier Ltd. <https://doi.org/10.1016/j.compstruct.2023.116941>
- Lacki, P., Derlatka, A., & Winowiecka, J. (2019). Analysis of the composite I-beam reinforced with PU foam with the addition of chopped glass fiber. *Composite Structures*, 218, 60–70. <https://doi.org/10.1016/j.compstruct.2019.03.036>
- Li, H., Hu, Y., Huang, H., Chen, J., Zhao, M., & Li, B. (2021). Broadband low-frequency vibration attenuation in 3D printed composite meta-lattice sandwich structures. *Composites Part B: Engineering*, 215. <https://doi.org/10.1016/j.compositesb.2021.108772>
- Liu, W., Zhang, F., Wang, L., Qi, Y., Zhou, D., & Su, B. (2016a). Flexural performance of sandwich beams with lattice ribs and a functionally multilayered foam core. *Composite Structures*, 152, 704–711. <https://doi.org/10.1016/j.compstruct.2016.05.050>
- Liu, W., Zhang, F., Wang, L., Qi, Y., Zhou, D., & Su, B. (2016b). Flexural performance of sandwich beams with lattice ribs and a functionally multilayered foam core. *Composite Structures*, 152, 704–711. <https://doi.org/10.1016/j.compstruct.2016.05.050>
- Mani, M., Thiyaagu, M., & Kumar Krishnan, P. (2023). Experimental investigation of Kevlar/carbon/glass/polyurethane foam epoxy hybrid sandwich composites with nano silicon particles in low-velocity impact events. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.03.209>
- Merillas, B., Lamy-Mendes, A., Villafañe, F., Durães, L., & Rodríguez-Pérez, M. (2022). Polyurethane foam scaffold for silica aerogels: effect of cell size on the mechanical properties and thermal insulation. *Materials Today Chemistry*, 26. <https://doi.org/10.1016/j.mtchem.2022.101257>
- Muflikhun, M. A. (2020). The Progressive Development Of Multifunctional Composite Materials In Different Applications. *Angkasa: Jurnal Ilmiah Bidang Teknologi*, 12(2). <https://doi.org/10.28989/angkasa.v12i2.673>

- Muflikhun, M. A., & Chua, A. Y. (2020). Load-displacement experimental data from axial tensile loading of CFRP-SPCC hybrid laminates. *Data in Brief*, 29. <https://doi.org/10.1016/j.dib.2020.105306>
- Nugroho, A. D., Alandro, D., Herianto, Jamasri, Thirumalai, S., Nugraha, A. D., Kusumawanto, A., Prawara, B., & Muflikhun, M. A. (2023). Excellent Hybrid Polyurethane-Graphite Filler Micro Powder as a Lightweight Structure. *Journal of Composites Science*, 7(10), 433. <https://doi.org/10.3390/jcs7100433>
- Nuryanta, M. I., Sentanuhady, J., & Muflikhun, M. A. (2022). Moisture absorption behavior of hybrid composite laminates consist of natural and glass fiber. *Materials Today: Proceedings*, 66, 2924–2928. <https://doi.org/10.1016/j.matpr.2022.06.559>
- Pang, X. Y., Xin, Y. P., Shi, X. Z., & Xu, J. Z. (2019). Effect of different size-modified expandable graphite and ammonium polyphosphate on the flame retardancy, thermal stability, physical, and mechanical properties of rigid polyurethane foam. *Polymer Engineering and Science*, 59(7), 1381–1394. <https://doi.org/10.1002/pen.25123>
- Park, K. B., Kim, H. T., Her, N. Y., & Lee, J. M. (2019). Variation of mechanical characteristics of polyurethane foam: Effect of test method. *Materials*, 12(7). <https://doi.org/10.3390/ma12172672>
- Peng, X., Zhong, Y., Shi, J., & Shi, Z. (2022). Free flexural vibration analysis of composite sandwich plate with reentrant honeycomb cores using homogenized plate model. *Journal of Sound and Vibration*, 529. <https://doi.org/10.1016/j.jsv.2022.116955>
- Prajapati, M. J., Kumar, A., Lin, S. C., & Jeng, J. Y. (2022). Multi-material additive manufacturing with lightweight closed-cell foam-filled lattice structures for enhanced mechanical and functional properties. *Additive Manufacturing*, 54. <https://doi.org/10.1016/j.addma.2022.102766>
- Somlo, K., Chauhan, S. S., Niordson, C. F., & Poulios, K. (2022). Uniaxial tensile behaviour of additively manufactured elastically isotropic truss lattices made of 316L. *International Journal of Solids and Structures*, 246–247. <https://doi.org/10.1016/j.ijsolstr.2022.111599>
- Standard, A. (2016). D1621 Standard Test Method for Compressive Properties of Rigid Cellular Plastics. *ASTM B Stand*, 1–5.
- Subramaniam, S., Chaurasia, V., Verma, A., & Selwyn Jebadurai, D. (2022). Enhancement of mechanical properties of sandwich composites. *Materials Today: Proceedings*, 68, 2284–2291. <https://doi.org/10.1016/j.matpr.2022.08.495>
- Sun, H., Jia, M., Zhang, S., & Wang, Y. (2019). Study of buckling-restrained braces with concrete infilled GFRP tubes. *Thin-Walled Structures*, 136, 16–33. <https://doi.org/10.1016/j.tws.2018.10.040>
- Wang, K., Sun, C., Wiafe Biney, B., Li, W., Al-shiaani, N. H. A., Chen, K., Liu, D., & Guo, A. (2022). Polyurethane template-based erythritol/graphite foam composite phase change materials with enhanced thermal conductivity and solar-thermal energy conversion efficiency. *Polymer*, 256. <https://doi.org/10.1016/j.polymer.2022.125204>
- Wang, T., Yang, W., & Yin, C. (2023). Experimental studies on the axial compression behavior of hollow sandwich concrete GFRP-steel tube composite short columns. *Construction and Building Materials*, 378. <https://doi.org/10.1016/j.conbuildmat.2023.131160>
- Wi, S., Berardi, U., Loreto, S. Di, & Kim, S. (2020). Microstructure and thermal characterization of aerogel–graphite polyurethane spray-foam composite for high efficiency thermal energy utilization. *Journal of Hazardous Materials*, 397. <https://doi.org/10.1016/j.jhazmat.2020.122656>
- Zhang, Q., Fang, H., Zhu, L., Han, J., Zhang, X., Li, X., & Chen, B. (2022). Impact behavior of corrugated-core infilling foam sandwich composite structure. *Case Studies in Construction Materials*, 17. <https://doi.org/10.1016/j.cscm.2022.e01418>
- Zhang, Y., Seveyrat, L., & Lebrun, L. (2021). Correlation between dielectric, mechanical properties and electromechanical performance of functionalized graphene / polyurethane nanocomposites. *Composites Science and Technology*, 211. <https://doi.org/10.1016/j.compscitech.2021.108843>
- Zhu, C., Li, S., Li, J., Clement, M., Rudd, C., Yi, X., & Liu, X. (2020). Fie performance of sandwich composites with intumescent mat protection: Evolving thermal insulation, post-

