
Curriculum Vitae

Name: Dr. Sebastian Dayou

List of Research:

Internal Grant

1. Effects of surfactants on the dispersion stability and heat transfer performance of hybrid nanofluid containing graphene nanoplatelet and multi-walled carbon nanotube (UCTS/RESEARCH/3/2021/1)
2. Effects of dispersion stability on the viscosity of nanofluids containing multi-walled carbon nanotubes (UCTS/RESEARCH/4/2018/2)
3. Comparative study on heat transfer performance of carbon nanotube and graphene-based nanofluids in heat exchanger application (UCTS/RESEARCH/1/2018/3)

List of Consultancy:

1. Development of Malaysia Driving Cycle Phase 3 (Malaysia Automotive Robotics and IoT Institute) – Sept 2019 – Feb 2021

List of Publications:

1. Dayou, S. & Mohamed, A. R. (2020, February). Synthesis of carbon nanotube-MgO composite by chemical vapour deposition for thermal energy storage. In Riffat, S., Su, Y., Ismail, N. & Idayu Ahmad, M. (Eds.). Proceedings of the 18th International Conference on Sustainable Energy Technologies (pp. 391-397). Kuala Lumpur, Malaysia: University of Nottingham and World Society of Sustainable Energy Technologies.

2. Yek, P. N. Y., Osman, M. S., Ting, T. W., Dayou, S., Lau, S. Y., Lam, S. S. & Liew, R. (2020, February). Microwave air heater: Experimental investigation of a green and sustainable heat transfer in helical coil. In Riffat, S., Su, Y., Ismail, N. & Idayu Ahmad, M. (Eds.). Proceedings of the 18th International Conference on Sustainable Energy Technologies (pp. 353-359). Kuala Lumpur, Malaysia: University of Nottingham and World Society of Sustainable Energy Technologies.
3. Kairi, M.I., Dayou, S., Kairi, N.I., Bakar, S.A., Vigolo, B. & Mohamed, A.R. (2018). Toward high production of graphene flakes – A review on recent developments in their synthesis methods and scalability. *Journal of Materials Chemistry A*, 6(31), 15010 – 15026.
4. Lee, M.D., Dayou, S. and Karunakaran, P. (2018). Determinants of a pre-treatment model in achieving economic and environmental sustainability in membrane desalination. *Jurnal Kejuruteraan*, 30(2), 2018, 193-199.
5. Dayou, S., Vigolo, B., Desforges, A., Ghanbaja, J. & Mohamed, A. R. (2017). High-rate synthesis of graphene by a lower cost chemical vapor deposition route. *Journal of Nanoparticle Research*, 19, 336.
6. Dayou, S., Vigolo, B., Ghanbaja, J., Kairi, M. I., Mohd Zuhan, M. K. N. & Mohamed, A. R. (2017). Direct growth of graphene on MgO by chemical vapor deposition for thermal conductivity enhancement of phase change material. *Materials Chemistry and Physics*, 202, 352–357.
7. Nizam, M.K., Dayou, S., Kairi, M.I., Khavarian, M. & Mohamed, A.R. (2017) Synthesis of graphene flakes over recovered copper etched in ammonium persulfate solution. *Sains Malaysiana*, 46(7), 1039–1045.