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Materials Engineering



Employment

Senior Lecturer

Academic (Teaching & Research) Senior Lecturer
Materials Engineering
The University of Manchester
1 Aug 2019 → present

Research output

Ionic liquids modified CNTs and graphene as additive in vegetable lubricating oil: A route for sustainable tribology

Thyashan, N., Yu, H., Liu, X. & Abeykoon, C., 31 May 2023, In: Results in Surfaces and Interfaces. 11, 100119.

The role of artificial intelligence-driven soft sensors in advanced sustainable process industries: A critical review

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Mechanical and thermal properties of graphene nanoplatelets-reinforced recycled polycarbonate composites

Wijerathne, D., Gong, Y., Afroj, S., Karim, N. & Abeykoon, C., 1 Mar 2023, In: International Journal of Lightweight Materials and Manufacture. 6, 1, p. 117-128

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Composites for Electric Vehicles and Automotive Sector: A Review

Wazeer, A., Das, A., Abeykoon, C., Sinha, A. & Karmakar, A., 1 Dec 2022, (E-pub ahead of print) In: Green Energy and Intelligent Transportation.

Modelling and optimisation of a Kaplan turbine — A comprehensive theoretical and CFD study

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Numerical Simulation of Two-Phase Flow in Liquid Composite Moulding Using VOF-Based Implicit Time-Stepping Scheme

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The Design of a Savonius Wind Turbine with Guide Vanes - A Computational Approach

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Shanthar, R., Abeykoon, C. & Maithripala, D. H. S., 2 Jun 2022, *Proceedings of the 9th International Conference of Control, Dynamic Systems, and Robotics (CDSR'22): Niagara Falls, Canada – June 02-04, 2022*. Paper No. 180

Towards a sustainable energy future for Egypt: A systematic review of renewable energy sources, technologies, challenges, and recommendations

Salah, S. I., Eltaweel, M. & Abeykoon, C., 1 Jun 2022, In: *Cleaner Engineering and Technology*. 8, 100497.

The effects of extrusion parameters and blend composition on the mechanical, rheological and thermal properties of LDPE/PS/PMMA ternary polymer blends

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Prospects of Integrated Photovoltaic-Fuel Cell Systems in a Hydrogen Economy: A Comprehensive Review

Ogbonnaya, C., Abeykoon, C., Nasser, A., Turan, A. & Sunday Ume, C., 19 Oct 2021, In: *Energies*. 14, 20, 6827.

The Impact of the Performance Appraisal Process on Job Satisfaction of the Academic Staff in Higher Educational Institutions

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Energy efficiency in extrusion-related polymer processing: a review of state of the art and potential efficiency improvements

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The Effect of Materials' Rheology on Process Energy Consumption and Melt Thermal Quality in Polymer Extrusion

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Robust Code-Based Modeling Approach For Advanced Photovoltaics Of The Future

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Abeykoon, Y. M. C., 2018, In: Sensors Journal, IEEE. 10.1109/JSEN.2018.2885609.

Modelling of Heat Transfer and Fluid Flow in the Hot Section of Gas Turbines Used in Power Generation: A Comprehensive Survey
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A Novel Soft Sensor for Real-time Monitoring of Die Melt Temperature Profile in Polymer Extrusion

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