

Publications

Mechanical Engineering Department

Year 2019

Journals

Cleaner production of thermal insulation boards utilizing buffing dust waste

W Hittini, AHI Mourad, B Abu-Jdayil

Journal of Cleaner Production 236, 117603

Fracture toughness, vibration modal analysis and viscoelastic behavior of Kevlar, glass, and carbon fiber/epoxy composites for dental-post applications

H Fouad, AHI Mourad, BA ALshammari, MK Hassan, MY Abdallah, ...

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F Alnaimat, B Mathew, M Ziauddin

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Flutter of Telescopic Span Morphing Wings

RM Ajaj, FK Omar, TT Darabseh, J Cooper

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Friction Stir Welding of T-Joints: Experimental and Statistical Analysis

I Sabry, AM El-Kassas, AHI Mourad, DT Thekkuden, J Abu Qudeiri

Journal of Manufacturing and Materials Processing 3 (2), 38

Characteristics of external furnace combustion of used lube oil with different percentages of diethyl ether additives burned with liquefied petroleum gas

E Elnajjar, SAB Al Omari, MO Hamdan, M Ghannam, MYE Selim

Biofuels, 1-11

Impact of co-mixing technique and surface modification of ZnO nanoparticles using stearic acid on their dispersion into HDPE to produce HDPE/ZnO nanocomposites

FZ Benabid, N Kharchi, F Zouai, AHI Mourad, D Benachour

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A Hassan, AHI Mourad, Y Rashid, N Ismail, MS Laghari

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Development of date pit-polystyrene thermoplastic heat insulator material: Mechanical properties

W Hittini, B Abu-Jdayil, AH Mourad

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[Production of aluminum alloy-based metal matrix composites using scrap aluminum alloy and waste materials: Influence on microstructure and mechanical properties](#)
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Journal of Alloys and Compounds 784, 1047-1061

[Design of a sustainable reverse supply chain in a remanufacturing environment: A case study of proton-exchange membrane fuel cell battery in Riyadh](#)
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[3D focusing of micro-scale entities in dielectrophoretic microdevice](#)
F Alnaimat, S Krishna, A Hilal-Alnaqbi, A Alazzam, S Dagher, B Mathew
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G Ospina, MYE Selim, SAB Al Omari, MIH Ali, AMM Hussien
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[Innovative Design of Heat Exchanger using Airfoil Fins for Concentrated Solar Power Plants](#)
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2019 Advances in Science and Engineering Technology International ...

[Processing and Mechanical Performance of Hydroxyapatite-UHMWPE Composites](#)
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[Quarter vs. Half Car Model Energy Harvesting Systems](#)
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[Fabrication of Porous Bone Scaffolds Using Alginate and Bioactive Glass](#)

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S Krishna, F Alnaimat, B Mathew

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R Arunachalam, S Piya, PK Krishnan, R Muraliraja, JV Christy, ...

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Traditional, state-of-the-art and renewable thermal building insulation materials: An overview

B Abu-Jdayil, AH Mourad, W Hittini, M Hassan, S Hameedi

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Parametric Study of Pin-Fins Microchannel Heat Exchanger

M Ziauddin, F Alnaimat, B Mathew

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Vision Monitoring of Half Journal Bearings

I Abulwaheed, S Sivaloganathan, K Harib

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Combustion and exhaust emissions of a direct-injection diesel engine burning jojoba ethyl ester and mixtures with ethanol

MYE Selim, MT Ghannam, ASA Awad, MSA Sabek

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Long-term durability of thermoset composites in seawater environment

AHI Mourad, AH Idrisi, MC Wrage, BM Abdel-Magid

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Intelligent Sequence Optimization Method for Hole Making Operations in 2M Production Line

A Ziout, F Safieh

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Book Chapters

Patents