

# JOURNAL OF MECHANICAL ENGINEERING

*An International Journal*

Special Issue  
**Advances in Engineering and Technology Vol 6**

Vol SI 5 (6)	May 2018	ISSN 1823-5514	eISSN 2550-164X
--------------	----------	----------------	-----------------

1	<a href="#">Study of Multiple 2:1 and Single 1:1 Inlet/Outlet Ratio for Serpentine PEMFC Performance</a> <i>Khairul Imran Sainan*</i> , <i>Alhassan Salami Tijani</i> , <i>Irmie Azlin Zakaria</i> , <i>Wan Ahmad Najmi Wan Mohamed</i> , <i>Suhadiyana Hanapi</i> , <i>Abdol Hadi Abdol Rahim</i> , and <i>Shahrin Zikri Shahrizman</i>	1
2	<a href="#">Production And Applications Of Biodiesel From High Acid Value Feedstocks</a> <i>Zulkafli Hassan*</i> , <i>Shaharuddin H.</i> , <i>Wan Asma I.</i> , and <i>Siti Nur Ridhwah M.R.</i>	10
3	<a href="#">Experimental Investigations on the Performance of a Single Slope Solar Still Coupled With Flat Plate Solar Collector under Malaysian Conditions</a> <i>Zainal Abidin Kamarul Baharin*</i> and <i>Muhammad Hafiz Mohammad</i>	16
4	<a href="#">Study on Surface Roughness Quality of FDM and MJM Additive Manufacturing Model for Implementation as Investment Casting Sacrificial Pattern</a> <i>MN Hafsa*</i> , <i>N Kassim</i> , <i>S Ismail</i> , <i>SA Kamaruddin</i> , <i>TM Hafeez</i> , <i>M Ibrahim*</i> and <i>ZH Samsudin</i>	25
5	<a href="#">Tribological Effects of Additive Hybrid ZrO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> in Bio-Lubrication</a> <i>Mimi Azlina Abu Bakar*</i> , <i>Salmiah Kasolang</i> , <i>Mohamad Ali Ahmad</i> , and <i>Deadisaputra Herman</i>	35
6	<a href="#">Optimizing Sintering Process to Produce Highest Density of Porous Ti-6Al-4V</a> <i>Nor Hafeez Mohamad Nor*</i> , <i>Muhammad Husain Ismail</i> , <i>Hazran Husain</i> , <i>Juri Saedon</i> , and <i>Mohd Azman Yahaya</i>	44
7	<a href="#">Parameter Characteristic of Desktop Laser Engraving Kit Machine: A Review</a> <i>NS Badrishah</i> , <i>N Sa'ude*</i> , <i>M Ibrahim</i> , <i>MS Wahab</i> , <i>R Haq</i> , <i>OMF Marwah</i> , and <i>RK Khirotdin</i>	56
8	<a href="#">Strategy on the Production of Bead-Free Electrospun Gelatin Scaffolds</a> <i>Chung She Man</i> , <i>Weily Khoo</i> , <i>Lim Shing Chee</i> , <i>Mohd Faiz bin Zakaria</i> , and <i>Koh Ching Theng*</i>	69

9	Preliminary Analysis of Benzene, Toluene, Ethylbenzene, O-Xylene (BTEX) and Formaldehyde inside Vehicle Cabin <i>Noor Hafiz Noordin, Azli Abd Razak*, Sahril Kushairi, Mohd Faizal Mohamad, Qi Jie Kwong, and Sheikh Ahmad Zaki Shaikh Salim</i>	80
10	Parameter Optimization of Metal Injection Moulding: A Review <i>M Prathab Rao*, M H I Ibrahim, Sri Yulis M Amin, and M H Othman</i>	100
11	Effect of Sintering Temperatures on Microstructural Changes and Phase Transformation of Nearly Equiatomic Microporous NiTi Alloy Produced by Metal Injection Moulding <i>Mashitah Maso'od, Muhammad Hussain Ismail*, Rosliza Razali, and Istiqamah Subuki</i>	115
12	Epoxy-UHMWPE Acetabular Cup Performance Based on Finite Element Study <i>Solehuddin Shuib*, Muhammad Faris Abd Manap, Abdul Halim Abdullah, Mohd Zamrin Dimon, Ahmad Zafir Romli, and Amran Ahmed Shokri</i>	127
13	UAV Actuator Fault Detection Through Artificial Intelligent Technique <i>Zulhilmy Sahwee*, Aina Suriani Mahmood, Nazaruddin Abd. Rahman, and Khairul Salleh Mohamed Sahari</i>	141
14	The Length Scale Effect between Wall and Closes Field Point on a Single Turbine Blade Simulation <i>Mohd Hafiz Mohd Noh, Ahmad Hussein Abdul Hamid, and Koichi Mori</i>	155
15	Green Lean TQM Islamic Process Management Practices in Malaysian Food Companies <i>Nur Asiah Kuzaiman*, Argustina Zainuddin, Noor Azlina Mohd Salleh, Salmiah Kasolang, and Amirul Abd Rashid</i>	167
16	Relationship between time domain and frequency domain strain signal – Application to real data <i>A. A. A. Rahim, S. Abdullah*, S. S. K. Singh, and M. Z. Nuawi</i>	178
17	Design and Fabrication of Magnetorheological Elastomer Vibration Isolator <i>Ubaidillah, Syamsul Hadi*, Harjana, Khairunnisa Hairuddin, and Saiful Amri Mazlan</i>	192
18	Critical Experimental Issues of Cracked Aluminum Beam in Operational Modal Analysis <i>M. Azhan Anuar*, A.A.Mat Isa, Zamri A.R., and Rune Brincker</i>	211
19	Mathematical Modelling of Plastic Injection Molding Process Using Central Composite Design (CCD) Sampling and PRSM <i>Kausalyah V., Norfiza Athyrah B.M.F., and shasthri s</i>	226
20	Improvement of Mechanical Properties in Treated Spot Welded Joint <i>Farizah Adliza Ghazali *, Zuraidah Salleh, Yupiter HP Manurung, and Yakub Md Taib</i>	239