

# JURNAL KEJURUTERAAN

Special Issue 1(3) 2018

e-ISSN : 2289-7526

Development and Performance Analysis of New Solar Dryer with Continuous and Intermittent Ventilation <i>Arina Mohd Noh*</i> , <i>Sohif Mat</i> & <i>Mohd Hafiz Ruslan</i>	1
Optimization of Phosphoric Acid-Based Emitter Formation on Silicon Wafer <i>Zon Fazlila Mohd Ahir*</i> , <i>Suhaila Sepeai</i> & <i>Saleem H. Zaidi</i>	9
P-type Cu <sub>2</sub> ZnSnS <sub>4</sub> as Multifunctional Material for Photovoltaic and Thermoelectric Application: Theoretical Investigation <i>Hassan Ahmoum*</i> , <i>Mourad Boughrara</i> , <i>Mohamed Kerouad</i> , <i>Puvaneswaran Chelvanathan</i> , <i>Kamaruzzaman Sopian</i> , <i>Mohd Sukor Su'ait*</i> , <i>Lee Tian Khoon</i> , <i>Baohai Jia</i> & <i>Guojian Li</i>	15
Ulasan Analisis Kecekapan Tenaga dan Eksergi Pengumpul Fotovoltan-Terma (PVT) ( <i>Review of Energy and Exergy Analysis of Photovoltaic-Thermal (PVT) Collector</i> ) <i>Muslizainun Mustapha*</i> , <i>Ahmad Fudholi</i> & <i>Nurul Syakirah Nazri</i>	23
Development of Roundabout Delay Models Using Traffic Simulation Programs: A Case Study at Al-Mansour City, Iraq <i>Ali H.A. Alwaeli*</i> , <i>Kamaruzzaman Sopian</i> , <i>Adnan Ibrahim</i> , <i>Sohif Mat</i> & <i>Mohd Hafidz Ruslan</i>	31
Indoor Thermal Performance of a Retrofitted Air-Conditioned Mosque: Case Study for Penang State Mosque <i>Azman Hussin*</i> , <i>Lim Chin Haw</i> , <i>Sohif Mat</i> , <i>Ahmad Fazlizan</i> & <i>Elias Salleh</i>	37
Analisis Tenaga Sistem Hibrid Pengumpul Udara Fotovoltan Terma-Termoelektrik (PVT-TE) ( <i>Energy Analysis of Hybrid Photovoltaic Thermal-Thermoelectric (PVT-TE) Air Collector System</i> ) <i>Nurul Syakirah Nazri*</i> , <i>Ahmad Fudholi</i> , <i>Muslizainun Mustapha</i>	47

Pulsed Laser Annealing of Ag-paste on n-doped Emitter <i>Siti Nor Fazlina Abdul Hamid*, Suhaila Sepeai, Saleem H. Zaidi &amp; Samir Mahmmod Ahmad</i>	57
Effects of Iodide/Triiodide ( $I^-/I_3^-$ ) Ratios on Palm Based Polyurethane Polymer Electrolyte for Solid-State Dye-Sensitized Solar Cell <i>Mohamad Faizzi, Norasikin Ahmad Ludin, Mohd Sukor Su'ait*, Norani Muti Mohamed, Muhammad Ameerullah Sahudin, Khairiah Haji Badri &amp; Azizan Ahmad</i>	63
Feasibility Study on Hybrid Solar Photovoltaic with Diesel Generator and Battery Storage Design and Sizing Using HOMER Pro <i>Amanda Halim*, Ahmad Fudholi, Stephen J. Phillips, Kamaruzzaman Sopian &amp; Mohd Hafidz Ruslan</i>	69