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**AMCT 2017 | Malaysia**

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**Conference on Advanced Materials  
Characterization Technique 2017**

**16 - 17 August 2017 | Awana Hotel, Genting Highlands**

*Guest Editor*

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Int J Cur Res Eng Sci Tech, 1 (S1):336-341 | DOI: 10.30967/ijcrset.1.S1.2018.336-341

**57. Elucidation of Morphological Behavior on the Samarium Strontium Cobaltite Carbonate Composite Cathode for LTSOFC**

*Siti Fairus MOHAMMAD, Sufizar AHMAD, Hamimah ABDUL RAHMAN and Andanastuti MUCHTAR*  
Int J Cur Res Eng Sci Tech, 1 (S1):342-347 | DOI: 10.30967/ijcrset.1.S1.2018.342-347

**58. Enhancement of K<sub>0.5</sub>Na<sub>0.5</sub>Nb<sub>03</sub> (KNN) Properties through Optimization of Pressure Applied during Sintering Process via HIP Methods**

*Nor Fatin Khairah BAHANURDDIN, Julie Juliewatty MOHAMED and Zainal Arifin AHMAD*  
Int J Cur Res Eng Sci Tech, 1 (S1):348-353 | DOI: 10.30967/ijcrset.1.S1.2018.348-353

**59. Failure Analysis on Stud Bolts of Chock Valve**

*Rajaselan WARDAN, Shaiful Rizam SHAMSUDIN, Mohd Fitri MOHAMAD WAHID, Syazwan SANUSI and Amerul Azree JAMIL*  
Int J Cur Res Eng Sci Tech, 1 (S1):354-360 | DOI: 10.30967/ijcrset.1.S1.2018.354-360

**60. Fourier Transform Infrared Spectroscopy of Porous Zinc with Different Concentration of Potassium Hydroxide in Agar Binder**

*Siti Nur Athirah MUHAMMAD ZAMRI and Mohamad Najmi MASRI*  
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**61. Influence of Different Compositions of Fly Ash as Fluxing Agent in Porcelain**

*Nur Azureen ALWI KUTTY, Mohamad Zaky NOH, Mohd Zul Hilmi MAYZAN and Sani Garba DURUMIN IYA*  
Int J Cur Res Eng Sci Tech, 1 (S1):367-372 | DOI: 10.30967/ijcrset.1.S1.2018.367-372

**62. Influence of Slurry Rheology Behaviour for Fabricating Reticulated Macroporous Cordierite**

*Kok EING-KUAN, Johar BANJURAZAH, Li-Ngee HO and Zabar YAHIDAH*  
Int J Cur Res Eng Sci Tech, 1 (S1):373-377 | DOI: 10.30967/ijcrset.1.S1.2018.373-377

**63. Influence of Water Molar Ratio on Fabrication of Silica Ceramic Membranes via Sol-Gel Dip-Coating Method**

*Nor Amyra Zulianey KAHLIB, Wan Amirah WAN MAZLAN, Farah Diana MOHD DAUD, Maizirwan MEL, Ahmad Zahirani AHMAD AZHAR, NoorAzlina HASSAN and Assayidatul Laila NOR HAIRIN*  
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**64. Measurement of Pipe Strain Using an Ultrasonic System**

*Sallehuddin IBRAHIM, Nursyahiran ZAHIDIN, Mohd Amri MD YUNUS and Johari KASIM*  
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**65. Mechanical Properties of Mahang (Macaranga) Wood as a Core Material in Sandwich Composites**

*Noor Sharina Azrin ZAKARI, Julie Juliewatty MOHAMED, Nurul Basyirah Aryani ABDUL RAHMAN, Aslina Anjang ABDUL RAHMAN and Zairul Amin RABIDIN*  
Int J Cur Res Eng Sci Tech, 1 (S1):390-395 | DOI:10.30967/ijcrset.1.S1.2018.390-395

**66. Morphological Analysis of Silica-Nickel Oxide Foam Fabricated by Replication Method**

*Syazwani BAHAROM, Sufizar AHMAD and Hariati TAIB*  
Int J Cur Res Eng Sci Tech, 1 (S1):396-402 | DOI: 10.30967/ijcrset.1.S1.2018.396-402

**67. Morphological and Thermal Analysis of Retted Rattan Waste Fibers**

*Zuraida AHMAD, Insyirah YAHAYA and Maisarah TAJUDDIN*  
Int J Cur Res Eng Sci Tech, 1 (S1):403-409 | DOI: 10.30967/ijcrset.1.S1.2018.403-409

**68. Physical Properties of Edible Films Based on Tapioca Starch as Affected by the Glycerol Concentration**

*Dahiru Adamu AJIYA, Suzi Salwah Binti JIKAN, B.A. TALIP, H. M. MATIAS-PERALTA, N.A. BADARULZAMAN and S. YAHYA*

Int J Cur Res Eng Sci Tech, 1 (S1):410-415 | DOI: 10.30967/ijcrset.1.S1.2018.410-415

**69. Preparation and Characterization of Activated Carbon from Cocos nucifera L. (coconut) Shell and Sugarcane Bagasse**

*Muhammad Zharif JASNI, Nor Hakimin ABDULLAH, Suhaiza ABDULLAH, Mohammad Khairul Azhar ABDUL RAZAB, An'amt MOHAMED NOOR, Mazlan MOHAMED, Nik Alnur Auli NIK YUSUF, Mohamad Asyraf MOHD AMIN, Mohd Sukhairi MAT RASAT and Mohamad Faiz MOHD AMIN*

Int J Cur Res Eng Sci Tech, 1 (S1):416-421 | DOI: 10.30967/ijcrset.1.S1.2018.416-421

**70. Structural and Thermal Properties of Extracted Cellulose Treated with 1-Butyl-3-Methylimidazolium Chloride**

*Noor Sahirah MUHAZELI and Asanah RADHI*

Int J Cur Res Eng Sci Tech, 1 (S1):422-428 | DOI: 10.30967/ijcrset.1.S1.2018.422-428

**71. Structural Defect(s) in  $\text{CaCu}_{3+x}\text{Ti}_4\text{O}_{12}$ ? Solid Solution Estimated via Reitveld Refinement Method**

*Mohamad Johari ABU, Mohd Fadzil AIN, Julie Juliewatty MOHAMED and Zainal Arifin AHMAD*

Int J Cur Res Eng Sci Tech, 1 (S1):429-434 | DOI: 10.30967/ijcrset.1.S1.2018.429-434

**72. Structural Evolution of YIG during Microwave and Conventional Sintering at 1000 °C**

*Wan Fahmin Faiz WAN ALI, Maslinda KAMARUDIN Izman SUDIN, Nik Akmar REJAB, Mohd Fadzil AIN, Norazharuddin Shah ABDULLAH and Zainal Arifin AHMAD*

Int J Cur Res Eng Sci Tech, 1 (S1):435-440 | DOI: 10.30967/ijcrset.1.S1.2018.435-440

**73. Synergism Effects of Coating and Concrete Plaster to Reduce  $^{222}\text{Rn}$  Emanations from Red Brick**

*Mohammad Khairul Azhar ABDUL RAZAB, Asmat ZAHARIMAN, Mohd Ibrohim ABDULLAH, Khairul Anuar ABU BAKAR, Che Amir Haikal CHE ZAHARUDIN, Nik Alnur Auli NIK YUSOFF, Nor Hakimin ABDULLAH, An'amt MOHAMED NOOR, Zulhisyam ABDUL KARI @ ABDULLAH, Mohd Hafiz JAMALUDIN and Noraina ADAM*

Int J Cur Res Eng Sci Tech, 1 (S1):441-446 | DOI: 10.30967/ijcrset.1.S1.2018.441-446

**74. Thermal Stability of Plasticized Durian Skin Fibre Biocomposite**

*Siti Munirah Salimah ABD RASHID, Hazleen ANUAR, Noor Azlina HASSAN, Siti Nur E'zzati MOHD APANDI, Fathilah ALI and Mohd Romainor MANSHOR*

Int J Cur Res Eng Sci Tech, 1 (S1):447-451 | DOI: 10.30967/ijcrset.1.S1.2018.447-451

**75. The Relationship of Cutting Chip Type, Length and Thickness to Wear of Zirconia Toughened Alumina Added with Magnesium Oxide (ZTA-MgO) Cutting Tool**

*Afifah MOHD ALI, Nurul Nabihah JANAL, Nor Ezzati HAMIDON, Ahmad Zahirani AHMAD AZHAR, Suhaily MOKHTAR, Rubina BAHAR and Zainal Arifin AHMAD*

Int J Cur Res Eng Sci Tech, 1 (S1):452-457 | DOI: 10.30967/ijcrset.1.S1.2018.452-457

**76. Enhancement of Singgora Roof Tile Using Chemical Modification Method**

*Che Susmaliza CHE KAMARUDIN, Mohamad Najmi MASRI, Mohamad Bashree ABU BAKAR, Mohd Hazim MOHAMAD AMINI, Julie Juliewatty MOHAMED and Muhammad Azwadi SULAIMAN*  
Int J Cur Res Eng Sci Tech, 1 (S1):458-463 | DOI: 10.30967/ijcrset.1.S1.2018.458-463

**77. Comparison Studies on Phase Formation and Transformation Behavior between Ni-Ti and Ni-TiH<sub>2</sub> Synthesized via Solid State Sintering**

*Hafizah Hanim Mohd ZAKI, Mohamad Hanis Mohamad SHOLIHIN, Jamaluddin ABDULLAH and Norshahida SARIFUDDIN*  
Int J Cur Res Eng Sci Tech, 1 (S1):464-470 | DOI: 10.30967/ijcrset.1.S1.2018.464-470

**78. Effect of Alloying Element on Microstructure and Mechanical Properties of Sn-0.7Cu Solder**

*A.B. NABIHAH, K.L. JUN and M.S.NURULAKMAL*  
Int J Cur Res Eng Sci Tech, 1 (S1):471-476 | DOI: 10.30967/ijcrset.1.S1.2018.471-476

**79. Effect of pH in Production of Cu-Sn-Zn via Electroplating Using Less Hazardous Electrolyte**

*Rozainita ROSLEY, Suzi Salwah JIKAN, Nur Azam BADARUZAMAN, Misbahul Muneer Abd RAHMAN and Hazel Monica MATIAS-PERALTA*  
Int J Cur Res Eng Sci Tech, 1 (S1):477-481 | DOI: 10.30967/ijcrset.1.S1.2018.477-481

**80. Volumetric Study of Zinc in Various Concentration of Potassium Hydroxide**

*W.M.I.W. ISMAIL, M.A. SULAIMAN, M.B. ABU BAKAR, M.H.M. AMINI and M.N. MASRI*  
Int J Cur Res Eng Sci Tech, 1 (S1):482-486 | DOI: 10.30967/ijcrset.1.S1.2018.482-486

**81. Experimental Method on Solder Joint of Ball Grid Array Using Reflow Oven**

*Mazlan MOHAMED, Mohd Sharizal Abd.AZIZ, M.Z. ABDULLAH, Ayub Ahmed JANVEKAR, Mohammad Khairul Azhar Abdul RAZAB and C.Y KHOR*  
Int J Cur Res Eng Sci Tech, 1 (S1):487-492 | DOI: 10.30967/ijcrset.1.S1.2018.487-492

**82. Physiochemical Characterization of Sn-Zn Coatings Electrodeposited from an Acidic Chloride Bath in the Absence of Complexing Agent**

*Assayidatul Laila NOR HAIRIN, Raihan OTHMAN, Faireez REZAL and Farah Diana MOHD DAUD*  
Int J Cur Res Eng Sci Tech, 1 (S1):493-498 | DOI: 10.30967/ijcrset.1.S1.2018.493-498

**83. Potentiostatic Polarization of Immersed Austenitic Stainless Steel in 3.5 wt.% NaCl at Potential Zero Charge (EPZC)**

*Muhamad Syazwan SANUSI, Shaiful Rizam SHAMSUDIN, Azmi RAHMAT and Rajaselan WARDAN*  
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**84. Cryorolling of Al 5083 Alloy: Microstructure and Mechanical Properties at Various Post Annealing Temperatures**

*S.M. Noraini SAYED AHMAD, Hussain ZUHAILAWATI and Abu Seman ANASYIDA*  
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**85. The Effect of Milling Time on Properties of Magnesium-Based Composite Fabricated via Powder Metallurgy**

*Siti Nur Hazwani MOHAMAD RODZI and Zuhailawati HUSSAIN*  
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**86. The Effect of Reinforcement Amount and Sintering Temperature on Mg Matrix Composite Fabricated by Powder Metallurgy**

*Nazirah RASHID and Zuhailawati HUSSAIN*

Int J Cur Res Eng Sci Tech, 1 (S1):516-521 | DOI: 10.30967/ijcrset.1.S1.2018.516-521

**87. UV Performances and Corrosion Behavior of Nanocoating on Carbon Steel**

*Norhasnidawani JOHARI, Noor Azlina HASSAN and Norita HASSAN*

Int J Cur Res Eng Sci Tech, 1 (S1):522-528 | DOI: 10.30967/ijcrset.1.S1.2018.522-528

**88. Growth Behavior of TiO<sub>2</sub> Nanotube Arrays in Different Electrolyte pH**

*Roshasnorlyza HAZAN, Srimala SREEKANTAN and Ishak MAT*

Int J Cur Res Eng Sci Tech, 1 (S1):529-534 | DOI: 10.30967/ijcrset.1.S1.2018.529-534

**89. Morphological, Structural and Radon Concentration Properties of Two-Dimensional Titanium Carbide MXene, Ti<sub>3</sub>C<sub>2</sub>**

*Zarrul Azwan MOHD RASID, Mohammad Arshad ABDUL A'ZIZ, Mohd Firdaus OMAR, Muhammad Firdaus MOHD NAZERI and Syahrul Affandi SAIDI*

Int J Cur Res Eng Sci Tech, 1 (S1):535-539 | DOI: 10.30967/ijcrset.1.S1.2018.535-539

**90. Fabrication and Characterization of Room Temperature Hydrogen Gas Sensor Using ZnO Nanocrystalline Fibers Prepared by Electrospinning**

*Thye Foo CHOO, Nur Ubaidah SAIDIN, Kuan Ying KOK and Inn Khuan NG*

Int J Cur Res Eng Sci Tech, 1 (S1):540-545 | DOI: 10.30967/ijcrset.1.S1.2018.540-545

**91. Characterization of Bio-Polymer Composite Thin Film Based on Banana Peel and Egg Shell**

*Nik Alnur Auli NIK YUSUF, Mohammad Khairul Azhar ABDUL RAZAB, Nor Hakimin ABDULLAH, An'Amt MOHAMED NOOR, Mahani YUSOFF, Arlina ALI, Nurul'Ain MOHD KAMAL, Nadiah AMERAM, Mohd Nasha'aain NORDIN*

Int J Cur Res Eng Sci Tech, 1 (S1):546-550 | DOI: 10.30967/ijcrset.1.S1.2018.546-550

**92. Comparison of Different Types of Dispersing Agent on Zeta Potential and Particle Size Analysis of Sago Starch Dispersion as Bio-filler for Natural Rubber Latex Films**

*Mohd Fikri AB RAHMAN, En Pei NEO and Azura A. RASHID*

Int J Cur Res Eng Sci Tech, 1 (S1):551-555 | DOI: 10.30967/ijcrset.1.S1.2018.551-555

**93. Influence of Epoxidized Palm Oil on Polyhydroxyalkanoates Tensile Properties**

*A. AIDA, H. NORITA and H.N. AZLINA*

Int J Cur Res Eng Sci Tech, 1 (S1):556-559 | DOI: 10.30967/ijcrset.1.S1.2018.556-559

**94. Plasticizer for Liquid Polymeric Membrane of Ion Selective Electrode Based on Thiazole Derivatives as Ionophore**

*Noor Wahidah ZAINOL JAMIL, Mhd Zu AZHAN YAHYA, Juliana JUMAL and Noor Azilah MOHD KASIM*

Int J Cur Res Eng Sci Tech, 1 (S1):560-565 | DOI: 10.30967/ijcrset.1.S1.2018.560-565

**95. Preliminary Development of Laminated Nanocomposite from Nanocellulose-Kevlar for Military Application**

*Nurulaida TOHA, Wan Mohd Hanif WAN YAA'COB, Nur Amira MAMAT RAZALI, Rusaini Athirah AHMAD RUSDI, Ariffin ISMAIL, Ku Zarina KU AHMAD, and Fauziah ABDUL AZIZ*

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**96. Effects of Banana Skin Powder on Properties of Jackfruit Seed Starch/Poly(Vinyl Alcohol) PVA Film**

*Nur'aishah AHMAD SHAHRIM, Nur Najihah Solehah ABD RANI, Norshahida SARIFUDDIN, Hafizah Hanim MOHD ZAKI and Ahmad Zahirani AHMAD AZHAR1*

Int J Cur Res Eng Sci Tech, 1 (S1):571-577 | DOI: 10.30967/ijcrset.1.S1.2018.571-577

**97. Characterization and Preparation of Polyvinyl Alcohol (PVA) as Inhibitor in Formation of Hydrates**

*Najihah JAMIL, Hazlina HUSIN, Ahmad Waseem ALFIDA, Zachary AMAN and Zulkafli HASSAN*

Int J Cur Res Eng Sci Tech, 1 (S1):578-584 | DOI: 10.30967/ijcrset.1.S1.2018.578-584

**98. Effect of Single Walled Carbon Nanotube Addition to the Physical Properties of Monolithic Alumina**

*Ahmad Zahirani Ahmad AZHAR, Nor Amyra Zulianey, Hanisah MANSHOR, Wee Sing YEO, Afifah MOHD ALI, Nik Akmar REJAB and Zainal Arifin AHMAD*

Int J Cur Res Eng Sci Tech, 1 (S1):585-590 | DOI: 10.30967/ijcrset.1.S1.2018.585-590

**99. Deposition and Characteristics of Sputtered Coated CCTO Thin Layer on Silicon Wafer**

*Mohsen AHMADIPOUR, Mohd Fadzil AIN and Zainal Arifin AHMAD*

Int J Cur Res Eng Sci Tech, 1 (S1):591-595 | DOI: 10.30967/ijcrset.1.S1.2018.591-595

**100. Dielectric Resonator Antenna of Nd-doped BaTiO<sub>3</sub> for X-Band Applications**

*Nik Akmar REJAB, Mohamadariff OTHMAN, Mohd Fariz AB RAHMAN, Zainal Arifin AHMAD, Mohd Fadzil AIN*

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