



PERSONAL DETAILS

Name: Dr. Hj. Khairul Anuar bin Shariff

Address: School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia (USM), Engineering Campus, 14300, Nibong Tebal, Pulau Pinang, Malaysia.

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Area of specialization: Bioceramic, Ceramic coating, Calcium Phosphate, Bone remodeling, Ceramic Material

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EDUCATION

Department of Biomaterials, Faculty of Dental Science, Kyushu University, Japan. Doctor of Philosophy (Ph.D.) in Biomaterials	2016
School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia, Engineering Campus, Pulau Pinang, Malaysia. Master of Science (M.Sc.) Materials Engineering	2011
School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia, Engineering Campus, Pulau Pinang, Malaysia. Bachelor of Engineering (B. Eng.) Materials Engineering	2008

SCHOLARSHIP AWARDS

Academic Staff Training Scheme (ASTS) Universiti Sains Malaysia	2012-2016
JICA/AUN-SEED Net Scholarship (Long Term Training Programme)	2012-2016
USM Fellowship (M.Sc. study)	2009-2010
Penchem Technologies Sdn Bhd Scholarship (M.Sc. study)	2009-2010

WORKING EXPERIENCE

R&D Engineer Penchem Technologies Sdn Bhd - <i>Leader Flagship Program for Conductive Adhesive (Epoxy Based Conductive Adhesive)</i> - <i>Leader Flagship Program for Silicone and Epoxy Thermal Interface Materials (TIM)</i> - <i>Coordinator for Quality Management System (QS 16949-Automotive Industry)</i> - <i>Coordinator for MATRADE SME Awards</i>	2010-2012
Application Engineer Enge Plas Automation Sdn Bhd - <i>Designing silo tank for chemical plant or production lines in factories. Able to use Solidworks software (3D Drawing) for engineering part.</i>	2008
Research Assistant SIRIM (AMREC) - <i>Involved in developing pressure vessel made from fiberglass chopping fiber and epoxy. Also learn how to use filament winding.</i>	2007

LIST OF PUBLICATIONS

1. **S. Khairul Anuar Shariff**, M. Mariatti, A. Azizan, N. Chee Mang, W.T. Tham. Effect of different types of silver and epoxy system on the properties of silver/epoxy conductive adhesives. *Journal of Materials Science: Materials in Electronics* vol. 22(7) (2011) pp. 757-764.
2. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Fabrication of interconnected pore forming α -tricalcium phosphate foam granules cement. *Journal of Biomaterials Application* vol. 30(6) (2016) pp. 838-845.
3. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Regulation of DCPD formation on β -TCP granular surface by exposing different concentration of acidic calcium phosphate solution. *Key Engineering Materials* vol. 696 (2016) pp. 27-31.
4. Siti Noorzidah Mohd Sabri, Syazana Abu Bakar, Abdul Yazid Abdul Manaf, Siti Farhana Hisham, Mohd Azmirrudin Ahmad, K. Jamuna Thevi, Kartini Noorsal, **Khairul Anuar Shariff**, Kunio Ishikawa. Phase transformation of biphasic granules of gypsum and carbonate apatite at low temperatures. *Advanced Materials Research* vol. 1133 (2016) pp. 50-54.
5. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Fabrication of dicalcium phosphate dihydrate-coated β -TCP granules and evaluation of their osteoconductivity using experimental rats. *Materials Science and Engineering C* vol. 75 (2017) pp. 1411-1419.
6. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Micro-CT evaluation on osteoconductivity of DCPD-coated β -TCP granule using experimental rats. *Journal of Physics: Conference Series* vol 1082 (2018) pp. 012069.
7. Mohamad Hafizi Abu Bakar, Mohamad Nurul Azmi, **Khairul Anuar Shariff**, Joo Shun Tan. Withaferin A Protects Against High-Fat Diet–Induced Obesity Via Attenuation of Oxidative Stress,

Inflammation, and Insulin Resistance. *Applied Biochemistry and Biotechnology* vol. 188 (2019) pp. 241-259.

8. M. Chuthatip, M.N. Ahmad Fauzi, B.I. Yanny Marliana, **S. Khairul Anuar**, K. Masakazu, I. Banhan. Effect of Magnesium Oxide on Physical and Biological properties in β -tricalcium phosphate ceramic. *Journal of Physic: Conference Series* vol 1082 (2018) pp. 012026

9. Hossein Mohammadi, Yanny Marliana Baba Ismail, **Khairul Anuar Shariff**, Ahmad Fauzi Mohd Noor. Synthesis and characterization of akermanite by Mechanical Milling and subsequent Heat Treatment. *Journal of Physic: Conference Series* vol 1082 (2018) pp. 012021.

10. T.T. Swe, H. Mohamad, **K.A. Shariff**, A.F.M. Noor, K.Ishikawa, A.A. Thant. Synthesis and characterization of bioactive Quaternary Silicate Gel-glasses. *Journal of Physic: Conference Series* vol 1082 (2018) pp. 012070.

11. Muhammad Syahir Juhari, Lynette Wei Ling Chin, Abdul Rashid Jamaludin, **Khairul Anuar Shariff**, Shah Rizal Kasim. High Solar reflectance of ceramic tiles engobe. *AIP Conference Proceedings* vol 2068 (2019) pp. 020087.

12. Thet Thet Swe, Hasmaliza Mohamad, **Khairul Anuar Shariff**, Aye Aye Thant. Fabrication of sol-gel derived new quaternary silicate Bioglass S55P4. *AIP Conference Proceedings* vol 2068 (2019) pp. 020070.

13. Ashiru Sani, Mohd Rosli Hasan, **Khairul Anuar Shariff**, Ali Jamshidi, Ali Huddin Ibrahim, Sharvin Poovaneshvaran. Engineering and microscopic characteristics of natural rubber latex modified binders incorporating silane additive. *International Journal of Pavement Engineering*. (doi: <https://doi.org/10.1080/10298436.2019.1573319>).

14. Hossein Mohammadi, Myat Myat-Htun, Yanny Marliana Baba Ismail, **Khairul Anuar Shariff**, Ahmad Fauzi Mohd Nor. Structural, physicomechanical, and in vitro biodegradation studies on Sr-doped bioactive ceramic. *Ceramic International* vol 45 (11) (2019) pp. 14090-14097.
15. Hossein Mohammadi, Yanny Marliana Baba Ismail, **Khairul Anuar Shariff**, Ahmad Fauzi Mohd Noor. Effect of substitutional Strontium on Mechanical Properties of Akermanite Ceramic Prepared by Solid-State Sintering. *Materials Today: Proceedings* vol 17 (2019) pp. 929-936.
16. Thet Thet Swe, **Khairul Anuar Shariff**, Ahmad Fauzi Mohd Noor, Kunio Ishikawa, Hasmaliza Mohamed. Effect of silver on the apatite formation of Bioactive Silicate Glass. *Materials Today: Proceedings* vol 17 (2019) pp. 884-888.
17. Thet Thet Swe, **Khairul Anuar Shariff**, Ahmad Fauzi Mohd Noor, Kunio Ishikawa, Hasmaliza Mohamed. Effect of aging time on the crystals structure of new quaternary silicate gel-glasses. *Materials Today: Proceedings* vol 17 (2019) pp. 1668-1672.
18. Ashiru Sani, Mohd Rosli Mohd Hasan, **Khairul Anuar Shariff**, Sharvin Poovaneshvaran, Ilham Ibrahim. Morphological Identification of Latex Modified Asphalt Binder Prepared with Surfactants. *AWAM International Conference on Civil Engineering* (2019) pp. 1175-1185.
19. Haifaa' Auni Mohammad Zaki, **Khairul Anuar Shariff**, Mohamad Hafizi Abu Bakar, Mohamad Nurul Azmi. Effect of Different Granular Size on the Properties of Porous β -Tricalcium Phosphate Foam Granular Cements. *Key Engineering Materials* vol. 829 (2020) pp. 23-27.
20. Mohamad Hafizi Abu Bakar, Pui Yee Lee, Mohamad Nurul Azmi, Nurul Syifa'Lotfiamir, Mohamad Shamil Faris Mohamad, Nor Shafiqah Nor Shahril, **Khairul Anuar Shariff**, Harisun Ya'akob, Khalijah Awang, Marc Litaudon. In vitro anti-hyperglycemic, antioxidant activities and intestinal glucose uptake evaluation of Endiandra kingiana extracts. *Biocatalysis and Agricultural Biotechnology* vol. 25 (2020) pp. 101594.

21. Thet Thet Swe, **Khairul Anuar Shariff**, Hasmaliza Mohamad, Kunio Ishikawa, Koichiro Hayashi, Mohamad Hafizi Abu Bakar. Behavioural response of cells and bacteria on single and multiple doped Sr and Ag S53P4 sol-gel bioglass. *Ceramic International* (2020) <https://doi.org/10.1016/j.ceramint.2020.04.094>
22. Thet Thet Swe, Hasmaliza Mohamad, **Khairul Anuar Shariff**. Effect of SrO Doping on Structural and Morphological Properties of Sol-Gel Derived Bioglass. *Malaysian Journal of Microscopy* Vol. 19 (1) (2020) pp. 1-7.
23. Nur Atikah Ab. Ghani, Zuryati Ab-Ghani, Yanny Marliana Baba Ismail, **Khairul Anuar Shariff**, Ahmad Nazeer Che Mat, Zaihan Ariffin, Tang Liszen, Ahmad Fauzi Mohd Noor. Non-aqueous sol-gel derived calcia partially stabilized zirconia: Synthesis and characterizations. *Malaysian Journal of Microscopy* Vol. 16 (1) (2020) pp. 67-74.
24. Ashiru Sani, Mohd Rosli Hasan, **Khairul Anuar Shariff**, Ali Jamshidi, Sharvin Poovaneshvaran, Khairul Anuar Shahid. Physico-Mechanical and Morphological Properties of Wax Latex- Modified Asphalt Binder. *Iranian Journal of Science and Technology, Transactions of Civil Engineering* (2020) <https://doi.org/10.1007/s40996-020-00422-9>

LIST OF PRESENTATIONS

1. **S. Khairul Anuar Shariff**, M. Mariatti, A. Azizan, N. Chee Mang, W.T. Tham. Influence of amine adduct powder ratio on the properties of cured diglycidyl ether of bisphenol F (DGEBF) resin. 4th Colloquium on Postgraduate Research: National Postgraduate Colloquium on Materials, Minerals and Polymers (MAMIP 2010), Penang, Malaysia, 27-28 January, 2010.
2. **S. Khairul Anuar Shariff**, M. Mariatti, A. Azizan, N. Chee Mang, W.T. Tham. Effects of silver fillers shapes on the electrical and crosslink density of silver filled epoxy composites. National

Symposium on Polymeric Materials 2010 (NSPM 2010), Langkawi, Kedah, Malaysia, 8-10 November, 2010.

3. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Interconnected porous calcium phosphate forming cement consisting of α -TCP foam granules and calcium phosphate acidic solution. 26th Annual Conference European Society of Biomaterials, Liverpool, United Kingdom, 31 August-3 September, 2014.

4. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Fabrication and characterization of interconnected porous calcium phosphate forming cement consisting of α -TCP foam granules. International Union of Materials Research Societies- The IUMRS International Asia, Fukuoka, Japan, 24-30 August, 2014.

5. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Regulation of DCPD formation on β -TCP granular surface by exposing different concentration of acidic calcium phosphate solution. The 27th Symposium and Annual Meeting of International Society for Ceramics in Medicine (Bioceramics 27), Bali, Indonesia, 27-29 October, 2015.

6. Kanji Tsuru, **Khairul Anuar Shariff**, Riki Toita, Kunio Ishikawa. Introduction of interconnected porous structure to calcium phosphate forming bone cements. 64th General Session of the Japanese Societies for Dentals and Devices, Hiroshima, Japan, 4-5 October, 2014.

7. Kanji Tsuru, **Khairul Anuar Shariff**, Riki Toita, Kunio Ishikawa. Fabrication of bone cement with interconnected porous structure using α -TCP foam granules. 27th Fall Meeting the Ceramic Society of Japan, Kagoshima, Japan, 9-11 September, 2014.

8. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Fabrication of dicalcium phosphate dihydrate coated β -TCP granules for improved osteoconductivity. Kyushu University Midterm Presentation, Fukuoka, Japan, 5 February, 2015.

9. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Calcium phosphate forming cement with interconnected porous structure. Japanese Society for Dental Materials and Devices, Kyushu Summer Seminar, Kagoshima, Japan, 8-9 August, 2014.
10. **Khairul Anuar Shariff**, Kanji Tsuru, Kunio Ishikawa. Micro-CT evaluation on osteoconductivity of dicalcium phosphate dehydrate coated β -TCP granule using experimental rats. Regional Conference on Materials and ASEAN Microscopy Conference (RCM& AMC) 2017, Penang, 12-13 December, 2017.
11. Haifaa' Auni Mohammad Zaki, **Khairul Anuar Shariff**, Mohamad Hafizi Abu Bakar, Mohamad Nurul Azmi. Effect of Different Granular Size on the Properties of Porous β -Tricalcium Phosphate Foam Granular Cements. 12th AUN/SEED-Net Regional Conference on Materials Engineering (RCME) & 2019 International Symposium on Materials Science and Engineering (ISMSE 2019), Ho Chi Minh City, Vietnam.

ACHIEVEMENTS/RECOGNITIONS

1. Reviewer: Journal of Australian Ceramic Society (ISI Journal –IF: 0.587)
2. Advisory Board Committee for International Conference on Biomedical Engineering (2019)
3. Invited Lecture at Universiti Putra Malaysia (2017)
4. Invited Speaker for Asian Bioceramic Symposium, Indonesia (2018)
5. Member of X-Ray Application Malaysia Society (XAPP) (2017-now)
6. Committee member for Department of Standard Malaysia (Ceramic) (2018-now)

AWARDS

1. Best oral presentation for Kyushu University Midterm Presentation, Fukuoka, Japan, 5 February, 2015.
2. Best Blending Learning Awards for School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia. (EBB 212, EBB 344, EBB 250, EBS 110).
3. Gold Medal - European Exhibition of Creativity and Innovation 2020 (EUROINVENT 2020- IASI, ROMANIA)
4. Travelling Award for AUN/SEED-Net Alumni Reunion (AUN/SEED-Net & JICA, Bangkok), 2020.

PROFESSIONAL MEMBERSHIPS

1. Graduate Engineer (G.Eng.), Board of Engineers Malaysia (BEM) – **GE57357A**
2. Ordinary Member Institute of Materials Malaysia (IMM) – **O-02520**
3. Ordinary Member Tissue Engineering & Regenerative Medicine Society of Malaysia (TESMA)-
TESMA/O/2016/0002

ACADEMIC CONTRIBUTIONS

TEACHING SUBJECT:

1. EBB 212 – Raw Materials and Structural Ceramics
2. EBB 113 – Engineering Materials
3. EBB 344- Mechanical Metallurgy
4. EBB 155- Engineering Materials Introduction Laboratory
5. EBB 551- Material Laboratory

6. EBB 250- Computer Methods for Engineers
7. EBS 110- Engineering Drawings
8. EBB 317-Materials Processing Laboratory

RESEARCH GRANTS:

1. **Principal Investigator**. Improvement of osteoconductivity of β -TCP granule by coating its surface with dicalcium phosphate dihydrate, RM 38650.40, USM Short Term Research Grant (15/1/2017-14/7/2019)
2. **Co-Investigator**. Sol-gel derived Ag/Sr Bioglass for Bone Implant, RM 19995.00, AUN/SEED-Net International Research Grant (1/4/2017-31/5/2020)
3. **Co-Investigator**. Effect of Metallic Ion Therapeutic Agent (MITA) in Novel co-doped Akermanite Bioceramics on Response Mechanism of Osteoimmunomodulation in New Bone Formation, RM 96,990.00, Fundamental Research Grant Scheme-Ministry of Higher Education (15/8/2017-14/8/2020).
4. **Co-Investigator**. Development of Three-dimensional Gradient Scaffolds for Bone Tissue Engineering Applications, RM 65,000, USM Research University Grant, (1/1/2020-30/6/2023).
5. **Co-Investigator**. Assessments on Hydrophobic Modified Paper Mill Sludge Containing Cellulose and Calcium Carbonate for the Application as Alternative Modifier in Asphalt Mixture, RM 70,000, USM Research University Grant, (1/1/2020-30/6/2023).
6. **Co-Investigator**. Unravelling mechanistic crosstalk between immunometabolic regulation and metabolic pathway reorganization induced by celastrol in adipocyte-macrophage co-culture systems, RM 65,000, USM Research University Grant, (1/1/2020-31/12/2021).

7. **Co-Investigator**. Metabolic mechanism of inter-tissue crosstalk for excess nutrient flux in the biofluids of Type 2 Diabetes (T2D) individuals using an integrated multi-omics approach, RM 150,000, Fundamental Research Grant Scheme-Ministry of Higher Education (1/9/2019-31/8/2021).

SUPERVISION:

Graduate

1. Thet Thet Swe (PhD). Sputter Deposited Hydroxyapatite Thin Films to enhance osseointegration
(**On going- Co SV**)
2. Hossein Mohammadi (PhD). Preparation and Characterization of a Novel Modified Silicate-based Scaffold for bone tissue repair application (**Graduated- Co SV**)
3. Chuthatip Mangkonsu (PhD). Study of sintering of β -TCP by comparing between using $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$ + hydroxyapatite as raw materials by microwave sintering (**On going- Co SV**)
4. Muhammad Syahir Juhari (M.Sc). Development of solar reflective ceramic tiles for cooling purposes (**Graduated- Co SV**)
5. Ashiru Sani (PhD). Effects of Zycotherm and Gripper as anti-stripping in the rubberized foamed WMA Mixture Incorporating Lime Kiln Dust (**On going- Co SV**)
6. Haifaa' Auni Mohamad Zaki (MSc-mix mode). Fabrication of porous beta-tricalcium phosphate foam granular cement (**Graduated 2018- Main SV**)
7. Nurul Zawani Zainal Abidin (MSc-mix mode). Influence of Acidic Calcium Phosphate Solution Concentration on the Properties of Dicalcium Phosphate Dihydrate Coated on β -Tricalcium Phosphate Pellets (**Graduated 2019 – Main SV**)
8. Anis Syamimi binti Johari (M.Sc.). Physical and mechanical properties of novel nano Zirconia Calcia for dental application (**On-going- Co SV**)

9. Nur Ain Adila binti Abd Wahab (M.Sc.). Preparation and Characterization of Zirconia Calcium Oxide ($ZrCaO_3$) Using Bioglass for Dental Application (**On-Going- Co SV**)
10. Tuan Nur Izzah binti Tuan Ab Rashid (PhD). Mechanism of Ca^{2+} ion attachment on the cordierite for bioactivity improvement of cordierite-bioglass scaffold (**On-going- Co SV**)
11. Mamun Khan Sujon (PhD). Combined Application of Dental Pulp Stem Cell with 3D Biomaterial Scaffolds for Dental Pulp Tissue Regeneration (**On-going- Co SV**)

Undergraduate

1. Ooi Chia Ying. Fabrication and characterization of tri-layer lightweight ceramic tile (**Completed-2017**)
2. Nurul Asyiqin Binti Abdul Halim Hafiz. Fabrication of porous beta-tricalcium phosphate granules cements by using beta-tricalcium phosphate granules as starting materials (**Completed- 2017**)
3. Muhammad Syahir Bin Juhari. Preliminary study on the fabrication and characterization of lightweight porcelain tiles via tri-layer pressing method (**Completed-2017**)
4. Lee Jia Sheng. Fabrication and characterization of low thermal conductive glazed ceramic (**Completed-2018**)
5. Mohamad Fadhlin bin Mohamed Ariffin. Effect of acidic calcium phosphate solution concentration on the setting properties of porous β -tricalcium phosphate granular cement (**Completed- 2018**)
6. Lim Jun Wei. Effect of Citric Acid Concentration on the Properties of β - Tricalcium Phosphate Granular Cement (**Completed-2019**)
7. Nur Raihan Ridzwan. Fabrication and Characterization of Dicalcium Phosphate Dihydrate Layer-Coated β -Tricalcium Phosphate Pellets (**Completed-2019**)

8. Muhammad Azrin bin Abd Jamil. Effect of Various Parameters on the Black Coring Formation in ceramic tile (**Completed-2019**)

INTERNAL EXAMINER:

1. Siti Ayuni Hamka (**M.Sc. Mix-mode**). Development of carbonate apatite scaffold for biomedical application. 2016
2. Iliya Ezekiel (**MSc**) Pembangunan dan Pencirian Pelbagai Hidroksiapatit Karbonat Multidop (Mg, Si, Cu, Fe) melalui kaedah Nanoemulsion. 2018.
3. Khor Jia Yen (**M.Sc. Mix-mode**). Investigation of Surface Properties For Self-Cleaning Coating on Ceramic Wall. 2019

REVIEWER (SELECTED):

1. Sahar Vahabzadeh, Susmita Bose. Lithium Doped β -Tricalcium phosphate: Effects of Physical, Mechanical and *In Vitro* Osteoblast Cell-Material Interactions. Journal of Biomedical Materials Research: Part B- Applied Biomaterials (Manuscript ID: JBMR-B-15-0075)
2. Siti Hafizah Mohamad, Mohamad Al Amin Muhamad Nor. Effect of Na₂O and K₂O on the solubility and Chemical Properties of P₂O₅-CaO-Na₂O-K₂O-Al₂O₃ glass. Proceeding of International Conference on X-Ray & Related Techniques in Research and Industry. (Manuscript ID: 978-3-0357-1029-8_550)
3. Banjuraizah Johar, Tinesha a/p Selvaraj, Zainal Arifin Ahmad. Elemental, Thermal, And Structural Characterization of ZnO Doped 8 Mol% Ytria-Stabilized Zirconia (8YSZ) Ceramics. Proceeding of International Conference on X-Ray & Related Techniques in Research and Industry. (Manuscript ID: 978-3-0357-1029-8_970)

4. I. Abdullahi, I. Zainol. Synthesis and characterization of novel chitosan-hydroxyapatites composites doped with zinc. Proceeding of International Conference on Advances in Mechanical Engineering 2017..(Manuscript ID: 978-3-0357-1029-8_970)
5. Chung She Man, Weily Khoo, Lim Shing Chee, Mohd Faiz Zakaria, Koh Ching Theng. Strategy on the Production of Bead Free Electrospun Gelatin Scaffolds. Proceeding of International Conference on Advances in Mechanical Engineering (ICAME) 2017 (Manuscript ID: 234)
6. N.S. Mohamed, C.T. Koh. Preparation of Siam Weed Extracts. Proceeding of International Conference on Advances in Mechanical Engineering (ICAME) 2017 (Manuscript ID: 246)
7. K. Mohd, H. Mohamad. Effect of Milling Time to the Porous Oxide Based Cordierite. Proceeding of International Conference of Global Network for Innovative Technology (IGNITE) 2016 (Manuscript ID: 38)
8. MF Ab Rahman, ZA Ahmad, JJ Mohamed, MF Ain, M Ahmadipour and NA Rejab. Effect of glass addition on the phase formation, microstructures evolution and dielectric properties of CCTO ceramics for energy storage capacitor. Journal of Physics: Conference Series (Manuscript ID: 2017-01-03-1768)
9. Mazlam M.I, Ho. H.H., and A. Nurazreena. Fabrication and Characterisation of Gelatine/Hydroxyapatite Porous Scaffold. Journal of Physics: Conference Series (Manuscript ID: 2017-01-07-1701)
10. Siti Noorzidah Mohd Sabri , Rohaya Othman and Anuar Othman. Synthesis of Precipitated Calcium Carbonate at Low Temperature. Materials Today: Proceedings (Manuscript ID: Bio-CAM2017_078-091_9)

11. Siti Noorzidah Mohd Sabri , Rohaya Othman and Anuar Othman. Synthesis of Precipitated Calcium Carbonate at Low Temperature. Materials Today: Proceedings (Manuscript ID: Bio-CAM2017_078-091_9)

CONSULTATION & TESTINGS (PROFESIONAL WORKS)

1. Principal Investigator. XRD and XRF analyses, RM 6500, Modhka Marine Sdn Bhd. (2018)
2. Principal Investigator. Water of plasticity + pH+ water absorption analyses, RM 7500, Modhka Marine Sdn Bhd. (2018)
3. Principal Investigator. XRD and XRF analyses, RM 2700, Modhka Marine Sdn Bhd. (2018)
4. Principal Investigator. XRD analysis, RM 350, Modhka Marine Sdn Bhd. (2019)
5. Principal Investigator. Consultation on Feldspar case, RM 800, Modhka Marine Sdn Bhd. (2019)
6. Principal Investigator. Pull Out Test, RM 1500, Persatuan Primatologi Malaysia (2019)
7. Principal Investigator. GI Steel Pipe, RM 950, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
8. Principal Investigator. Epoxy resin for coating, RM 950, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
9. Principal Investigator. Defect metal pipe, RM 950, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
10. Principal Investigator. Fiberglass epoxy coating, RM 950, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
11. Principal Investigator. Fiberglass sheet, RM 650, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
12. Principal Investigator. Epoxy coating, RM 950, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
13. Principal Investigator. Defect metal pipe, RM 1700, Pusat Pengajian Kejuruteraan Elektrik dan Elektronik (2019)
14. Principal Investigator. TGA-DTA analysis, RM 954, Jabatan Mineral Dan Geosains Malaysia (2017)

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1. Principal Investigator. (2019) Acidic Calcium Phosphate Solution For Injectable Bone Cement (Copyright- CRLY00019573)
2. Principal Investigator. (2020) BONE FORMATION AND ANTIBACTERIAL ACTIVITY ON MULTIPLE DOPED SR AND AG S53P4 SOL-GEL BIOGLASS (Notification of works-LY2020002323)