

**Format of the External Examiner's CV  
(Please do not exceed 3 pages)**

**CURRICULUM VITAE**

1. Name : PROF IR DR ABU BAKAR BIN SULONG
2. Date of Birth : 21/9/1977 and 770921-115445
3. Work Address :  
Dept. of Mechanical and Manufacturing Engineering,  
Faculty of Engineering & Built Environment  
Universiti Kebangsaan Malaysia  
43600 UKM BANGI, Selangor
4. Tel. No. : 03-89216678  
Fax No. : 03-89259659  
Mobile Phone No. : 013-3320909  
E-mail Address : [abubakar@ukm.edu.my](mailto:abubakar@ukm.edu.my); [sulongabubakar@gmail.com](mailto:sulongabubakar@gmail.com)
5. Academic Qualifications: PhD
6. Brief Career History :  
  
2000-2004 R&D Engineer  
2004-2008 PhD in Sejong University, South Korea (Mechanical)  
2008-2013 Senior Lecturer, Mechanical Dept, UKM  
2013-current Assoc Prof, Mechanical Dept, UKM
7. Field(s) of Specialization:  
Powder Injection Molding, Polymer Nanocomposite, Natural Polymer Composite, 3D Printing
8. Current Research Areas/Topics:  
Metal 3D Printing  
Powder Injection Molding of Metal-Ceramic Composite  
CNTs and HNTs Polymer Nanocomposite  
Kenaf Polymer Composite
9. Number of Postgraduate Students Supervised:

Program	Status	As a Chairman (Main Supervisor)	As a Member (Co-supervisor)
PhD	Graduated	13	12
	Ongoing	5	2
Masters (with thesis)	Graduated	6	11
	Ongoing	0	0
Masters (without thesis)	Graduated	17	0
	Ongoing	0	0

10. Achievements / Awards :
  - Anugerah Bitara Harapan UKM 2016
  - Anugerah Penyelidik Cemerlang FKAB 2014, 2015, 2016

- Excellent Lecturer Award UKM 2009,2010, 2015
- CATIA V5R20 Part Design Specialist
- Anugerah Anjakan Gaji 2013
- Research Proposal Evaluator IPT level MyGrants for Politeknik, UMP
- Research Proposal Evaluator for KPT Level MyGrants
- EAC accreditation panel evaluator
- Programme External Examiner for UniKL and GMI
- Visiting Professor at Universitas Sriwijaya, Indonesia
- Visiting Professor at IIT Guwahati, India
- Assigned as Guest Editor for IJMTM (Int J. of Manufacturing & Technology Management) SCOPUS 2017
- Involve in Bengkel Halatuju Graphene Kebangsaan under NDD, MOSTI
- Excellent Research Group UKM 2010,2011,2012, 2015
- MARQUIS Who's Who in The World 2012,2013,2014,2015
- Coordinator for Flight Science Course at PERMATAPintar Negara (Gifted Children Center)
- Cooperate member of MIEM
- Assigned as Chief Editor for special issue Jurnal Teknologi (SCOPUS ISSN0127-9696 2012:59) Advances in Processing & System in Manufacturing 2013
- Reviewer for international and local journals such as: Composite Part A, Ceramic International, Nano, Carbon, Iranian Polymer Journal, IJMME, Composite Part B, Journal Material Processing Technology, Materials and Design, Ceramics, Sains Malaysiana  
Jurnal Teknologi, Journal of Material Science
- Thesis examiner for international universities (IITG India, Soksa Uni India)
- Assigned as mentor for UMP for RACE grant under MOHE
- Thesis Examiner for local universities (UMP, UiTM, UTP, UTeM, UPM, USM, UNITEN UKM)
- Present as "Halatuju pelajar selepas SPM dan Matrikulasi" at Masjid Banting and Matrikulasi Selangor, Matrikulasi N. Sembilan
- Actively in involve as secretary for MPM2A (Malaysia Powder Metallurgy and Particulate Materials Association)
- Top 50 (no 42) UKM authors, by number of publication in 2011-2016.

11. Number of Publications :

H-index

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Publication	Quantity
Journal	232
Book	3

12. List 10 Significant **Journal Publications** (Latest):

Polymer Composite

1. Azam FAA, Razak Z, Radzi MFKM, Muhammad N, Haron CHC, **Sulong AB**. Influence of Multiwalled Carbon Nanotubes on the Rheological Behavior and Physical Properties of Kenaf Fiber-Reinforced Polypropylene Composites. *Polymers*. 2020; 12: 2083 (ISSN 2073-4360) (Q1)
2. Mohd Radzuan, NA, Tholibon, **Sulong, AB**, Muhamad, N., Haron, C.H.C. Effects of High-Temperature Exposure on the Mechanical Properties of Kenaf Composites. *Polymers*. 2020; 12:1643 (ISSN 2073-4360) (Q1)
3. Azam FAA, Royan NRR, Yuhana NYY, Radzuan NAM, Ahmad S, **Sulong AB**. Fabrication of Porous Recycled HDPE Biocomposites Foam: Effect of Rice Husk Filler Contents and Surface Treatments on the Mechanical Properties. *Polymers*. 2020; 12: 475, ISSN 2073-4360. (Q1)
4. Mohd Radzuan, NA, Tholibon, **Sulong, AB**, Muhamad, N., Haron, C.H.C. New processing technique for biodegradable kenaf composites: A simple alternative to commercial automotive parts. *Composites Part B: Engineering*, 2020; 184:107644 ISSN: 13598368 (Q1).
5. Radzuan NAM, **Sulong AB**, Somalu MR, Abdullah AT, Husaini T, Rosli RE, Majlan EH, Rosli MI. Fiber orientation effect on polypropylene/milled carbon fiber composites in the presence of carbon nanotubes or graphene as a secondary filler: Application on PEM fuel cell bipolar plate. *International Journal of Hydrogen Energy*. 2019; 44: 30618-30626. ISSN: 03603199 (Q1)
6. Rosli RE, **Sulong AB**, WDaud WR, Zulkifley MA, Rosli MI, Majlan EH, Haque MA, Radzuan NAM. The design and development of an HT-PEMFC test cell and test station. *International Journal of Hydrogen Energy*. 2019; 44: 30763-30771 ISSN: 03603199 (Q1)
7. Radzuan, NAM., Ismail, NF., Radzi, MKFM., **Sulong AB(...)**, Haron, C.H.C., Muhamad, N. Kenaf composites for automotive components: Enhancement in machinability and moldability. *Polymers*, 2019; 11: 1707 ISSN: 20734360 (Q1)
8. Radzuan NAM, **Sulong AB**, Somalu MR. Influence The Filler Orientation On The Performance Of Bipolar Plate. *Sains Malaysiana*. 48 (2019) 669-676. ISSN: 01266039 (Q4)
9. Razak Z, **Sulong AB**, Muhamad N, Haron CHC, Radzi MKFM, Ismail NF, Tholibon D, Tharazi I. Effects of thermal cycling on physical and tensile properties of injection moulded kenaf/carbon nanotubes/polypropylene hybrid composites. *Composites Part B: Engineering*, 168 (2019) 159–165, ISSN: 1359-8368 (Q1)
10. Radzuan NAM, **Sulong AB**, Hui D, Verma A. Electrical conductivity performance of predicted modified fibre contact model for multi-filler polymer composite. *Polymers*. 2019; 11(9): 1425. ISSN: 20734360 (Q1)

## Powder Metallurgy

1. Basir A., **Sulong AB**, Jamadon NH, Muhamad H. Bi-material micro-part of stainless steel and zirconia by two-component micro-powder injection molding. Rheological properties and solvent debinding behavior. *Metals*, 10(2020) 595. ISSN 2075-4701 (Q1)
2. Basir A., **Sulong AB**, Eshak E, Mas'ood NN, Jamadon NH & Muhamad N. Moldability of Nano Size Zirconia for Powder Injection Molding Process by Using PEG and PMMA Binders. *Jurnal Kejuruteraan (Journal of Engineering)*, 32(2) (2020), 335-339. ISSN: 0128-0198 (ESCI)
3. Basir, A., **Sulong, A.B.**, Jamadon, N.H. et al. Process Parameters Used in Macro/Micro Powder Injection Molding: An Overview. *Met. Mater. Int.* (2020). ISSN: 1598-9623 (ISI)
4. Gong Y, Wang F, Al-Furjan MSH, (...), Chen G, **Sulong AB**. Experimental investigation and optimal 3D bioprinting parameters of sa-gel porous cartilage scaffold. *Applied Sciences*, 10 (2020) 768 ISSN 2076-3417. (Q1)
5. Shan L, Kadhum AAH, Al-Furjan MSH, Weng W, Gong Y, Cheng K, Zhou M, Dong L, Chen G, Takriff MS and **Sulong AB**. In situ controlled surface microstructure of 3d printed Ti alloy to promote its osteointegration. *Materials*, 2019 (ISSN: 1996-1944). (Q2)
6. Hanizam H, Salleh MS, Omar MZ, **Sulong AB**. Effects of mechanical stirring and short heat treatment on thixoformed of carbon nanotube aluminium alloy composite. *Journal of Alloys and Compounds*, 2019; 788: 83-90 ISSN: 09258388 (Q1)
7. Hanizam H, Salleh MS, Omar MZ, **Sulong AB**. Optimisation of mechanical stir casting parameters for fabrication of carbon nanotubes-aluminium alloy composite through Taguchi method. *Journal of Materials Research and Technology*. 2019; 8: 2223-2231. ISSN: 2238-7854 (Q1)
8. Zakaria MY, **Sulong AB**, Muhamad N, Raza MR. Ramli MI. Incorporation of wollastonite bioactive ceramic with titanium for medical applications: An overview. *Materials Science & Engineering C*, 97 (2019) 884–895, ISSN: 0928-4931 (Q1)
9. Zakaria MY, **Sulong AB**, Muhamad N, Ramli MI. Rheological properties of titanium-hydroxyapatite with powder space holder composite feedstock for powder injection moulding. *International Journal of Advanced Manufacturing Technology*, 2019; 102: 2591-2599 ISSN: 14333015 (Q2)
10. Ramli MI, **Sulong AB**, Muhamad N, Muchtara A, Zakaria MY. Effect of Sintering on The Microstructure And Mechanical Properties Of Alloy Titanium-Wollastonite Composite Fabricated By Powder Injection Moulding Process. *Ceramics International*, 2019; 45(9): 11648-11653 ISSN: 0272-8842 (Q1)