Curriculum Vitae

INTRODUCTION

Name : SYARIF JUNAIDI

Date of Birth : 21 June 1974

Place of Birth : Ujung Pandang, Indonesia

Gender : Male

Nationality : Indonesia

Present Position : Professor in University of Sharjah

Address : Department of Mechanical & Nuclear Engineering
College of Engineering, PO Box: 27272, Sharjah, UAE

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- ORCID : 0000-0002-2766-6596
- Scopus : 56113885800
- Google Scholar : bZYmrLkAAAAJ

FIELD OF SPECIALIZATION

Structural and Bio Materials Engineering

Research Interest

- Alloy design and Material processing
- Microstructure characterization and Physical Metallurgy
- Computational Materials
- Molecular Dynamics
- Corrosion of Materials

EDUCATION AND ACADEMIC QUALIFICATION

Kyushu University, Fukuoka	Ph. D.	2000 - 2003
Kyushu University, Fukuoka	M. Eng.	1998 - 2000
Kyushu University, Fukuoka	B. Eng.	1994-1998
International Student Institute, Tokyo	Japanese Language Program.	1993-1994
SMAN 28, Jakarta	Senior High School	1989-1992
SMPN 41, Jakarta	Junior High School	1986-1989
SDN Tanjung Barat 05, Jakarta	Elementary School	1980-1986

PROFESSIONAL AFFILIATIONS

Member, Institute of Materials, Malaysia M1244

Member, Malaysian Powder Metallurgy & Particulate Materials Association

CAREER HISTORY

Professor	Mechanical Engineering Department College of Engineering, University of Sharjah	2023 - present
Research Fellow	Materials for Environment Research Group (RG) Research Institute of Sciences and Engineering, UoS	2023 - present
Research Fellow	Nuclear Energy System Simulation and Safety RG Research Institute of Sciences and Engineering, UoS	2020 - present
Associate Professor	Mechanical Engineering Department College of Engineering, University of Sharjah	2015 - 2023
Associate Chair	Mechanical Eng. Dept., University of Sharjah	2016 – 2018, 2021-present
Associate Professor	Dept. of Mechanical & Materials Eng., UKM	2011 - 2014
Senior Lecturer	Dept. of Mech & Mat. Engineering, UKM	2007 - 2011
Investigator	Advanced Materials Processing & Integrity	2009 - 2014
Associate Senior Fellow	Institute of Fuel Cell, UKM	2014
Associate Fellow	Solar Energy Research Institute, UKM	2006 - 2008
Lecturer	Dept. of Mech. & Mat. Engineering Faculty of Engineering, UKM	2005 - 2007

Research Fellow	Venture Business Laboratory Kyushu University, Japan	2003 - 2005

VISITING PROFESSORSHIP

Visiting Researcher	National Research and Innovation Agency, Indonesia	June-July 2024
Visiting Professor	World Class Professor Program in Sepuluh November Institute of Technology, Indonesia	June 2023
Visiting Researcher	Steel Research, JFE Steel. Co, Japan	2004 - 2005

AWARDS

1. Scholarship Award, Science and Technology for Industrial Development, Indonesia — undergraduate, 1993-1998
2. Scholarship Award, Ministry of Education, Culture, Science and Technology, Japan — M.Eng and Ph.D, 1998-2003
3. Venture Business Laboratory, Kyushu University Research Grant 2003-2005
4. Award (Certificate) of Excellent Research Group (Advanced Material Processing and Integrity Group), Universiti Kebangsaan Malaysia 2010
5. Award of The Most Excellent Research Group (Advanced Material Processing and Integrity Group), Universiti Kebangsaan Malaysia 2011
6. Award of Excellent Service 2013, Universiti Kebangsaan Malaysia 2013
7. Award of Excellent Service for Indonesian Student Association-UKM branch, Indonesian Ambassador for Malaysia 2013

LANGUAGE

English

Japanese

Bahasa Melayu

Bahasa Indonesia

A. TEACHING AND LEARNING

A.1 List of courses taught (2005-present)

No.	Course Name	Level	Institution	Year
1	Materials Characterization	MSc	Univ. of Sharjah	2023
2	Advanced Thermodynamics	Bachelor	Univ. of Sharjah	2015 - present
3	Mechanical Metallurgy	Bachelor	Univ. of Sharjah	2020 - present
4	Engineering Thermodynamics	Bachelor	Univ. of Sharjah	2016 – 2019, 2022
5	Engineering Graphic Design	Bachelor	Univ. of Sharjah	2015 - present
6	Intro. to Mechanical Eng.	Bachelor	Univ. of Sharjah	2015, 216
7	Engineering Materials	Bachelor	Univ. of Sharjah	2016
8	Senior Design ProjectI (Coord.)	Bachelor	Univ. of Sharjah	2016, 2017
9	Senior Design Project II (Coord.)	Bachelor	Univ. of Sharjah	2016, 2017
10	Materials Science	Bachelor	UKM	2011 - 2014
11	Engineering Materials	Bachelor Degree	UKM	2006 - 2011
12	Corrosion and Corrosion Technology	Bachelor Degree	UKM	2005 - 2013
13	Finite Element Method	Bachelor Degree	UKM	2007, 2008, 2011, 2013
14	Manufacturing Process	Bachelor Degree	UKM	2007
15	Final Project I (Coord.)	Bachelor Degree	UKM	2006 - 2010
16	Project II (Coord.)	Bachelor Degree	UKM	2006 - 2010
17	Engineering Numerical Method	Master Degree	UKM	2006
18	Corrosion and Corrosion Control	Master Degree	UKM	2005, 2006, 2008, 2009, 2010
19	Materials for Manufacturing	Master Degree	UKM	2010, 2011
20	Advanced Engineering Alloy	Master Degree	UKM	2012, 2013

A.2 Supervision of Thesis/Dissertation/Practical Training

A.2.1 (a) Postgraduate (PhD) - Main Supervisor (except when stated)

Name Student	Thesis Title	Session
Khaled Suhail	Biomimicry of Termite Bio-cementation to Inspire Eco-Building Envelope	2017 (Graduated 2022)
Nor Fazilah Mohamad Selamat (*Co-Supervisor*)	Friction Stir Welding of Similar and Dissimilar Aluminum Alloys for Automotive Applications	2013 (Graduated 2019)
Omar bin Bapokutty (P 45954) (*Co-Supervisor*)	Effect of off-shore environment of material properties of pipe steel	2008 (Graduated 2015)
Noradila Abdul Latif (P60937) (*Co-Supervisor*)	Effect of Influent Velocity on Tensile Properties and Fracture Toughness of Magnesium Alloys	2011 (Graduated 2016)
Mohamed N. Abdul Razaq (P59493) (*Co-Supervisor*)	Metal Joint using Thixoforming	2011 (Graduated 2015)
Natasha A. Raof (P62734) (*Co-Supervisor)*	Synthesis of Nanostructured Surfaced Materials Through Machining Process.	2018 (Graduated)
Mohd Shukor Salleh (P62291) (*Co-Supervisor*)	Semi Solid Metal Processing, Testing and Characterization of M2 Tool Steel via Direct Partial Remelting and Cooling Slope Casting.	2011 (Graduated 2015)

A.2.1 (b) Postgraduate (Masters by Research)

Name Student	Thesis Title	Session
Mohammad Eisa Yousef	Optimizing Selective Laser Melting Process for Rapid Fabrication of CoCr alloy Medical Implant using Response Surface Methodology	2022
Abeer Adel Salih Al-Nuami (P53340) (*Co-Supervisor*)	Heat treatment and Hardness Measurement for SS440C	2010 (Graduated 2014)
Syed Roslee bin Sayd Bakar (P50753) (*Co-Supervisor*)	A Study of Welded AA6061 Aluminium Alloy Properties	2009 (Graduated 2013)

A.2.1 (c) Postgraduate (Masters by Course)

Name Student	Thesis Title	Session
Mehrdad Khanisanij	Development of Biodegradable Fe-Based Alloys Fe-Mn-C	2011/2012
Norhasikin Ismail	Effect of Holding Time on Microstructure and Tensile Properties of Dual Phase Steel for Automotive Application	2011/2012
Norwahdah Rahmat	Effect of Temperature and Time of Sintering on Microstructure During Sintering	2011/2012
Siti Ruziati Tomin	Effect of Different Cooling Rate and Oxygen Composition on the Microstructure and Hardness of Ti-6Al-4V Alloy	2011/2012
Asriana Ibrahim	Perincian Mikrostruktur Dan Karbida pada Keluli Tahan Karat AISI 440C	2010/2011
Mohd Azim Musthafa	Kesan Kadar Terikan Dan Penambahan Cu Dan Ni Terhadap Sifat Tegangan Pada Keluli Dua Fasa	2010/2011

A.2.2 Undergraduate (Final Year Project) Last THREE years

Name Student	Project Title	Session
Mahra Alketbi	Fabrication of a Component from a Water Desalination Plant using Reverse Engineering and Additive Manufacturing Techniques	2022-2023
Ghaya AlMarri		
Alya AlAli		
Laila Baseel		
Omar Saleh	Effect of Copper Nanoparticles on Water during Boiling Phase Transition	2022-2023
Abdel Aziz Abdalla		
Mohammed Sikh Taha		
Omerelfarouq Elgack	Prediction of High Entropy Alloy using Molecular Dynamics and Machine Learning	2021-2022
Mohammed Elazab		
Omar Zidan		
Mohammad Bilal		
Mohammed Nael	Mechanical Behaviors of Al-nanofiber TiC composite	2021-2022
Osama Msader		
Abrar Rifat		
Maryam Alqaydi	Mechanical Behaviors of Al-nanofiber TiC composite: Molecular Dynamics simulation and Representative Volume Elements (RVE)-Finite Elements Analysis (FEA)	2020-2021
Alya Alnuami		
Fateme Alharmoodi		
Mohammed Alhammadi	Toughness of Partially treated Stainless Steel: Experimental Study	2020-2021
Mohammad Naji		
Anas		

Mahmoud		
Mahmoud Bakr Rashid Ahmed Omar Abdelqader	Predicting Mechanical Properties of High Entropy Alloys using Artifical Neural network	2020-2021
Hanan Alsefri Noura Almaazmi	Selective Laser Melting Using Molecular Dynamics	2020-2021

A.2.3 Internal/External Thesis Examinator

Student Name	Thesis Title	Level	Institution	Year
Josephine Maria Windajanti	Characterization of RF-DC Hollow Cathode Discharge and Molecular Dynamic Study of Nitrogen Diffusion Behaviour into Titanium Crystal to Determine the Low Temperature Plasma Nitriding Mechanism	PhD	Univ. Brawijaya, Indonesia	July 2022
Mahmood Hameed Mahmood	Study of Copper Alloy in Flowing Water Environments at Temperature Between 20 and 45^{o}C	MSc	IIUM	May 2014
Seyed Mohsen Forghani	Wear And Corrosion Resistance Characteristics of Plasma Sprayed Titania Coatings Deposited on Mild Steel for Marine Structures	PhD	UKM	May 2014
Abdul Hakim Md Yusop	Synthesis and Functionality Assessments of Novel Polymers-Infiltrated Porous Iron for Temporary Medical Implants	MSc	UTM	December2013
Rusila Zamani Jusoh	Reduction Process of Low Grade Iron Ore using Palm Kernal Shell and Empty Fruit Bunch	MSc	IIUM	October 2013
Sushella edayu mat kamal	Kesan Salutan Aloi Berasaskan Kuprum Terhadap Sifat Aloi A7075 Menggunakan Kaedah Semburan Plasma	MSc	UKM	April 2013
Farihan Md. Azizan	Effect of silver and tin on the properties of zinc alloy	MSc	IIUM	October 2012

Mojgan Ahmadrezaei	Synthesis and Characterisation of $Ba_xSr_{1-x}Co_yFe_{1-y}O_{3-\delta}$ (BSCF) for Cathodes in Solid Oxide Fuel Cells	MSc	UKM	July 2012
Nor Fazilah Mohamad Selamat	Pre-Reduction of Low-Grade Iron Ore Using Biomass	MSc	IIUM	May 2012
Nik Hassanuddin Nik Yusof	Alumina-Titania Coating by Plasma Spray Method for Marine Structure Application	MSc	UKM	October 2011
Bulan Abdullah	Development of a Novel Heat Treatment Process with Optimized Mechanical and Physical Characterization	PhD	UiTM	November 2010
Ahamed Yaqdhan Musa	Thio and Triazole Compounds as Corrosion Inhibitors in Acid Medium	PhD	UKM	July 2010
Sufizar Ahmad	Kesan Parameter Persinteran Terhadap Sifat Mekanik Dan Fizikal Titanium Tulen Dan Titanium Berbusa	PhD	UKM	April 2010
Siti Khadijah binti Alias	The effects of Niobium Addition on Mechanical and Physical Properties of Austempered Ductile Iron	MSc	UiTM	March 2010
Muhammad Salihi bin Abdul Hadi	Fracture Simulation under Adaptive Dense Mesh Using Finite Element Parallel Processing	PhD	UKM	April 2008

B. RESEARCH AND CONSULTANCY

B.1 List of Research Project

No	Code&Title	Role	Funding		Duration	Status
			Agency	Amount In USD	Begin – End	Completed /Expected
1	Analysis of hydride formation effects and mechanical property changes in Zry-4 via RVE modelling	Principal Investigator	Competitive UoS	29,000	Dec 2023-Nov. 2025	On going

2	MD simulation and ML-based analysis of high-entropy FeNiCrCoCu alloys towards nuclear applications	Principal Investigator	Virtual Lab Inc.	5,000	Jan. 2023-Jun. 2023	Completed Dec. 2023
3	Fabrication of a Component from a Water Desalination Plant Using Reverse Engineering & Additive Manufacturing Techniques	Principal Investigator	Dewa R&D	5,500	Jan. 2023 – Dec. 2023	Completed March 2024
4	22020408199 Enhancing the Properties of Additive Manufactured Inconel 625 Via Atomistic-Continuum Modeling of Selective Laser Melting Process	Principal Investigator	UoS	44,000	September 2022	On going
5	284941-303367 High-Temperature Tensile and Creep Behavior of 316L Stainless Steel Fabricated by Additive Manufacturing	Investigator	Malaysian MOE	35,000	July 2019	Completed July 2023
6	1602040858-P Investigation of quasicrystal compound formation of Fe-Cu alloy using Molecular Dynamic modeling and experimental analysis: toward application to a mesoporous layer in the third generation photovoltaics and solar absorber	Principal Investigator	UoS	23,000	1 March 2017	Completed 01/09/2022
7	1602040832-P Influence of Multiple Carbides on Nucleation and Grain Growth of Austenitic Grain in a Martensitic Stainless Steel: Enhancing Grain Refinement to Submicron Level	Principal Investigator	Seed Fund-UoS	12,000	1/5/2016	Completed 01/09/2022
8	ERGS/1/2012/TK04/UKM/02/5 Development of Fabrication Method for Porosity-free Beta type Ti-10%Mo-10%Cr Alloy as Novel Metallic Biomaterial	Project Leader	MOHE	19,000	01/06/2012 - 31/05/2014	Completed 31/05/2014
9	03-01-02-SF0805 Synthesis and Fabrication of CNT/Metal Oxide Nanocomposite in Hybrid Junction Structure for	Researcher	MOSTI	66,000	01/07/2012-31/07/2014	Completed 31/07/2014

	Dye-Sensitized Solar Cell					
10	03-01-06-SF0958 Development of novel external bone fracture fixation system with innovative biodegradable anchorage to minimize surgical procedure	Researcher	MOSTI	83,000	01/01/2012-31/12/2013	Completed 31/12/2013
11	UKM-AP-NBT-14-2010 Development of Nanostructured Materials for Dental Applications	Researcher	UKM	83,000	01/10/2010 - 30/09/2012	Completed 01/10/2013
12	600-RMI/ST/FRGS 5/3/Fst (124/2010) New Heat Treatment Technique (Tempered-Austempered Treatment) for Matrix Transformation and Mechanical Properties of Ductile Iron	Researcher	MOHE	10,000	01/03/2010 - 29/02/2012	Completed 01/03/2012
13	03-01-02-SF0554 Development of a Novel Processing Method for Metal Matrix Composites (MMC)	Researcher	MOSTI	83,000	01/01/2009 - 31/12/2011	Completed 31/12/2011
14	UKM-KK-02-FRGS0012-2008 Wear Behaviour of Structural Materials Strengthened by Cu-Nanoparticles	Project Leader	MOHE	33,000	01/10/2008 - 31/03/2011	Completed 31/03/2011
15	UKM-GUP-NBT-08-26-089 Creep Rupture Properties of Welded Turbine Blade Materials	Researcher	UKM	71,000	01/06/2008 - 31/05/2011	Completed 31/05/2011
16	UKM-GUP-BTT-07-29-186 High Efficiency Dye-Sensitized Solar Cells (DSSC) based on TiO2 Ionic Liquid	Researcher	UKM	48,000	01/10/2007 - 30/06/2010	Completed 30/06/2010
17	03-01-02-SF0375 Structural And Tribological Characterisations Of Cu-Based Alloys As Coating Materials For Connecting Rod Bearings In Automotive Engine	Researcher	MOSTI	60,000	01/08/2007-01/08/2009	Completed 01/08/2009
18	03-01-02-SF0386 Development Of Nanocrystal Mesoporous ZnO For Dye	Researcher	MOSTI	67,000	01/08/2007 - 01/08/2009	Completed 31/12/ 2009

	Synthesized Solar Cell (DSSC)					
19	UKM-GUP-BTT-07-25-166 Improvement of Strength and Workability of Dual-Phase Ti-6%Al-4%V Alloys through Alloy Design Technique and Artificial Neural Network	Project Leader	UKM	71,000	01/10/2007 - 31/122010	Completed 31/12/2010
20	UKM-GUP-BTT-07-25-149 A New Methodology For Enhancing Component Re-Use In Locally Manufactured Automotive Component	Researcher	UKM	60,000	01/10/2007 - 30/06/2010	Completed 31/09/2010
21	UKM-RS-06-FRGS0001-2007 Properties of ZnO: Sn Protection Layer for Silicon Solar Cell	Researcher	MOHE	19,000	01/09/2007 - 31/08/2009	Completed 31/08/2009
22	UKM-KK-02-FRGS0031-2006 Development of Alumina Micro-Coated Stainless Steel For Surgical Tools	Researcher	MOHE	5,700	1-Mar-200728-Feb-2009	Completed 28/02/2009
23	03-01-02-SF0263 Development Of Novel Beta Titanium Alloys For Biomaterials	Project Leader	MOSTI	55,000	1-Dec.-200631-Oct.-2008	Completed 31/03/2008
24	03-01-02-SF0264 Development Of Novel Dual-Phase Steel For Automotive Body Via Substitutional Solid-Solution Mechanism	Project Leader	MOSTI	30,000	1-Dec.-200631-Oct.-2008	Completed 28/02/2008
25	03-01-02-SF0047 Development Of Semi-Solid Metal Processing For Automotive Components	Researcher	MOSTI	64,000	1-Dec.-200631-Oct.-2008	Completed 28/02/2008
26	03-01-02-SF0053 Rolling Contact Fatigue (Rcf) Studies Of Railway Track In Malaysia	Researcher	MOSTI	44,000	1-Dec-20061-Nov-2008	Completed 31/10/2008
27	03-01-02-SF0257 Bulk-Metallic Glasses And Its Applications: Constitutive Modeling, Finite Element Analysis And Experimental Investigation	Researcher	MOSTI	64,000	1-December-200631-November-2008	Completed 30/11/2008

B.2 List of Consultancy

No	Title	Place	Status of Consultancy	Status	Funding
1	Investigation on Fractured Crane Tower at Nusa Jaya	Shah Alam	Completed in December 2012	Consultant	Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP)
2	Ujian dan Analisis Barang Kes Kemalangan Kren Bergerak di Jeti Langkawi Port Sdn. Bhd.	Bangi	Completed in August 2010	Consultant	Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP)
3	Investigation on Mechanical Properties of Guidance Arm,	Kuala Lumpur	Completed in April 2010	Consultant	KLStarRail sdn. bhd

C. PUBLICATIONS

C.0 Brief Information

1. Number of Publications: Book, 2; Chapter in Book, 2; Journal, 111; Proceeding, 74.
2. Number of citations: Scopus, 1793; Google Scholar, 2516 (by August 2024)
3. H-index: Scopus, 19; Google Scholar, 23. (by August 2024)

C.1 Doctoral Thesis

Syarif Junaidi, *Effect of Solute Cu on Microstructure and Mechanical Properties of Steel*, Ph. D. thesis, **Kyushu University**, Japan. 2003. Supervisors: Prof. Dr. Setsuo Takaki and Assoc. Prof. Dr. Toshihiro Tsuchiyama, Kyushu University, Fukuoka, Japan.

C.2 Book

1. Zainuddin Sajuri, **Syarif Junaidi**; editors. (2013) **Transactions of Advanced Materials Research**, AMPI-UKM.
2. R. Shamsudin, Z. Sajuri, **Syarif Junaidi**, M.J. Ghazali, M.A. A. Hamid, F.K. Sahrani, S. Abdullah; editors. (2008) **Proceeding of Malaysian Metallurgical Conference**, UKM.

C.3 Chapter in Book

1. Z. Sajuri, **J. Syarif**, M.A.M. Daud, M.Z. Omar. (2013) *Dynamic Fracture Toughness of Magnesium Alloy Under Impact Loading Conditions,* **Transactions of Advanced Materials Research**, Z. Sajuri, J. Syarif (editors) AMPI-UKM, Bangi, pp.29-44.
2. **Syarif Junaidi**.(2010) *Ultra Grain Refinementof Steel Through Thermo Mechanical Proces*. ***Advances in Materials Processing volume2,*** Che Husna Azhari, Andanastuti Muchtar, Mohd Zaidi Omar, Mariyam Jameelah Ghazali (editors*)*,IMM, Shah Alam, pp. 171-194.

C.4 Journal

1. Ahmad Muhammad Aziz, Intan Fadhlina Mohamed, Zenji Horita, Mohd Zaidi Omar, Zainuddin Sajuri, Norinsan Kamil Othman, Junaidi Syarif, Mohamed Abdelgawad Gebril, Farhad Ostovan, Seungwon Lee, Kenji Matsuda, Manabu Yumoto, Yoichi Takizawa, Ammar Abdulkareem

Hashim Al-Ameri. (2024) Strengthening of A5052 aluminum alloy by high-pressure sliding process, **Journal of Materials Science**, 1-17

2. B Almomani, J Syarif, YS Chang. (2023) A Representative Volume Element Model for Investigating the Hydride Inclusion Effect on Ductility of Zry-Based Nuclear Fuel Cladding, **Arabian Journal for Science and Engineerin**g, 1-18.
3. Mohammad Azlan Aripin, Zainuddin Sajuri, Nashrah Hani Jamadon, Amir Hossein Baghdadi, Intan Fadhlina Mohamed, Junaidi Syarif, Ahmad Muhammad Aziz, Fathin Iliana Jamhari. (2023) Microstructure and mechanical properties of selective laser melted 17–4 PH stainless steel; Build direction and heat treatment processes, **Materials Today Communications** 36, 106479.
4. O Elgack, B Almomani, J Syarif, M Elazab, M Irshaid, M Al-Shabi. (2023) Molecular dynamics simulation and machine learning-based analysis for predicting tensile properties of high-entropy FeNiCrCoCu alloys, **Journal of Materials Research and Technology** 25, 5575-5585.
5. A. AlQabbani, KG Aghila Rani, J. Syarif, S. AlKawas, SS. Abdul Hamid, AR Samsudin, A. Azlina. (2023) Evaluation of decellularization process for developing osteogenic bovine cancellous bone scaffolds in-vitro, **PLOS One**, 18 (4), e0283922.
6. J. Syarif, MB. Albeltagy, AB. Nassif (2023) A machine learning framework for discovering high entropy alloys phase formation drivers, **Heliyon** 9 (1), e12859.
7. AH. Altoyuri, J. Syarif, Z. Sajuri (2022) Deformation behavior of single-crystal magnesium during Nano-ECAP simulation, **Heliyon** 8 (12), e11837
8. M Bakr, J Syarif, IAT Hashem (2022) Prediction of phase and hardness of HEAs based on constituent elements using machine learning models, **Materials Today Communications** 31, 103407.
9. J Syarif, V Gillette, HA Hussien, K Badawy, N Jisrawi (2022) Molecular Dynamics Simulation of the Amorphization and Alloying of Mechanically Milled Fe-Cu System. **Journal of Non-Crystalline Solids**, 580, 121410.
10. J Syarif, K Badawy, HA Hussien. (2021) Atomistic Simulation of the Diffusion Behavior in Al-Fe, **Nuclear Materials and Energy**, 29, 101073.
11. J Syarif, Y Pratesa, Y Prasetyo, S Harjanto. (2021) Ball Milling Effect on Corrosion and Biocompatibility Behavior of FeMnC Alloys Produced by Powder Metallurgy in Simulated Body Fluids Environment, **Metals**, 11(10), 1597.

12. K AlShuhail, A Aldawoud, J Syarif, IA Abdoun. (2021) Enhancing the performance of compressed soil bricks with natural additives: Wood chips and date palm fibers, **Construction and Building Materials,** 295, 123611.
13. J Syarif, K Badawy. (2021) Computational Modelling of Cold Rolling of Ferritic Iron Containing ε-Cu Precipitates, **Materials Today Communications**, 102253.
14. K Badawy, J Syarif. (2021) A multiscale approach for modeling metal laser welding, **AIP Advances**, vol.11(3), 035308.
15. K Badawy, M Hisham, S Junaidi. (2021) Analysis of Ultrashort Laser Pulses on Thin Metal Films Using the Hyperbolic Dual Phase Lag Model, **Computational Thermal Sciences: An International Journal**, vol.13 (3).
16. NFM Selamat, AH Baghdadi, Z Sajuri, S Junaidi, AH Kokabi. (2020) Rolling Effect On Dissimilar Friction Stir Welded Aa5083-Aa6061 Aluminium Alloy Joints, **Journal of Advanced Manufacturing Technology (JAMT)** , vol.14 (2) , pp.1.
17. J Syarif, M H Yousuf, Z Sajuri, AH Baghdadi, M Merabtene, MZ Omar. (2020) Effect of Partial Solution Treatment Temperature on Microstructure and Tensile Properties of 440C Martensitic Stainless Steel, **Metals** vol. 10 (5), pp. 694
18. NH Mat-Baharin, M Razali, S Mohd-Said, J Syarif, A Muchtar. (2020) Influence of alloying elements on cellular response and in-vitro corrosion behavior of titanium-molybdenum-chromium alloys for implant materials*,* **Journal of Prosthodontic Research**, vol. 64 (4), pp. 490.
19. Z Sajuri, NFM Selamat, AH Baghdadi, A Rajabi, MZ Omar, AH Kokabi, J Syarif. (2020) Cold-rolling strain hardening effect on the microstructure, serration-flow behaviour and dislocation density of friction stir welded AA5083, **Metals**, vol. 10(1), pp. 70.
20. J Syarif, N Handra, Z Sajuri, MZ Omar. (2018) Change in Tensile Properties of Dual-Phase Steels by Cu Addition, **Transactions of the Indian Institute of Metals,** 71, 513-519
21. J Syarif, E Kurniawan, TN Rohmannudin, MR Rasani, Z Sajuri. (2018) Alloying Behavior and Microstructural Changes of a Ti-10%Mo-10%Cr Alloy on Sintering Process, **Sains Malaysiana** 47 (4), 811-817.
22. NA Latif, Z Sajuri, J Syarif. (2017) Effect of tensile strain rates on flow stress for extruded AZ31 and AZ61 magnesium alloys, **International Journal of Automotive and Mechanical Engineering**, Vol. 14 (1), pp. 3812-3823.

23. RN Ahmad, N Muhamad, A Wahi, S Junaidi. (2017) *Parameter Optimization of Sintering Ti-6Al-7Nb Powder and Palm Stearin Binder System for the Highest Sintered Density using the Taguchi Method,* **J of Mech. Eng.**, Vol. 3(1), pp. 55-64.
24. AR Natasha, JA Ghani, CH Che Haron, **J. Syarif**, AH Musfirah. (2016) Temperature at The Tool-Chip Interface in Cryogenic and Dry Turning of AISI 4340 Using Carbide Tool, **International Journal of Simulation Modeling**, Vol. 15, pp. 201-212.
25. NA Latif, Z Sajuri, J Syarif, Y Miyashita. (2016) Effect of loading rate on fracture behaviour of Mg-Al-Zn alloys, **Jurnal Teknologi** , Vol. 78 (6-9), pp. 83-89.
26. JA Ghani, AR Natasha, CHC Hassan, J Syarif. (2016) TRIZ Approach For Machining Process Innovation In Cryogenic Environment, **International Journal of Materials and Product Technology**, Vol. 53 (3-4), pp. 286-297.
27. MS. Salleh, MZ. Omar, J. Syarif. (2015) The effects of Mg addition on the microstructure and mechanical properties of thixoformed Al–5% Si–Cu alloys, **Journal of Alloys and Compounds**, Vol. 621, pp. 121-130.
28. A. Arifin, AB. Sulong, N. Muhamad, J. Syarif, MI. Ramli. (2015) *Powder injection molding of HA/Ti6Al4V composite using palm stearin as based binder for implant material,* **Materials & Design, Vol.** 65, pp. 1028-1034.
29. ZA. Halim, N. Jamaludin, S. Junaidi, SYS. Yahya. (2015) *Pattern Recognition Approach of Stress Wave Propagation in Carbon Steel Tubes for Defect Detection,* **International Journal of Computer Theory and Engineering**, Vol. 7 (2), pp. 139.
30. ZA. Halim, N. Jamaludin, S. Junaidi, SYS. Yahya. (2015) Vibration impact acoustic emission technique for identification and analysis of defects in carbon steel tubes: Part A Statistical analysis, **Journal of Mechanical Science and Technology**, Vol. 29 (4), 1547-1557.
31. ZA. Halim, N. Jamaludin, S. Junaidi, SYS. Yahya. (2015) *Vibration impact acoustic emission technique for identification and analysis of defects in carbon steel tubes: Part B Cluster analysis*, **Journal of Mechanical Science and Technology**, Vol. 29 (4), 1559-1570.
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57. S.H.Salleh, M.Z.Omar, J**.Syarif**, A.G.Jaharah, S.Abdullah and M.J.Ghazali. (2007), *Carbide Precipitation In SS440C Stainless Steel During Tempering Treatment*, **Proceeding of Advanced Processes and Systems in Manufacturing (APSIM)**. CD ROM Version.
58. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2007), *Influence of Copper in Solid-Solution on Low Temperature Toughness in Ferritic Fe-Cu alloy.* **Proceeding of MJISAT 2007**, CD ROM Version.
59. Y. Burhanuddin, C.H. Che Haron, J.A. Ghani, G.A. Ibrahim and **S. Junaidi**. (2006), *Effects of Cutting Conditions and Chip Formation in Titanium Alloy Machining*. **Proceeding of 9th International Conference on Quality in Research**, 2, IMM-24.
60. **J. Syarif**, T. Tsuchiyama, S. Takaki. (2006), *Effect of Copper on Grain Refining of Austenite in Fe-8mass%Ni-Cu alloy*. **Proceeding of 5th International Materials Technology Conference and Exhibition**, CD ROM Version
61. M.J. Ghazali, **J. Syarif,** S. Abdullah, J.A. Ghani and D.A. Wahab. (2006), *Microstructural Evolution and Work Hardening Behaviour of Worn A2124 and A6092 Aluminium Alloys*. **Proceeding of 5th International Materials Technology Conference and Exhibition**, CD ROM Version.
62. R.Fadhila, A.G. Jaharah, C.H. Che Haron, M.Z. Omar, **J. Syarif**, A. Manaf and C.H. Azhari. (2006), *Microstructural Mapping of Hadfield Manganese Steel-3401 in Aging Treatment*. **Proceeding of 5th International Materials Technology Conference and Exhibition**, CD ROM Version.
63. N. Nakada, J. Syarif, T. Tsuchiyama, S. Takaki. (2005), *Effect of Cu addition on microstructure and mechanical properties in 9%Ni steels,* **Proceedings of an International Conference on Solid-Solid Phase Transformations in Inorganic Materials***,* 1, 449
64. S. Takaki, K. Fukunaga, J. Syarif, T. Tsuchiyama. (2005), *Phase stabilization by ultra grain refinement inmetastable austenite,* **Proceedings of an International Conference on Solid-Solid Phase Transformations in Inorganic Materials,** 2, 259
65. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Strengthening Mechanism of Martensitic 8%Ni Steels Containing Solute Cu,* **Proceeding of 2nd International Conference on Advanced Structural Steels**, 2, 600-603.
66. M. Suzuki, K. Nakashima, Y. Futamura, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Bailey-Hirsch Relationship in Deformed Iron and Martensitic Steels*, **Proceeding of 2nd International Symposium on Ultra-Fine Grain Structures**, (CD ROM version)

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68. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Effect Copper Particles on Softening Behavior During Tempering in 9% Nickel Martensitic Steel*, **Proceeding of 2nd International Symposium on Ultra-Fine Grain Structures**, (CD ROM version)
69. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Effect of Copper Addition on Low Temperature Toughness in Ferrite Iron*. **Proceedings of 7th Workshop on the Ultra Steel,** 294-295.
70. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2001), *Mechanism of Grain Refining of Austenite by Copper Addition in 8mass%Ni Martensite Steel.* **The 4th Pacific Rim International Conference in Advanced Materials and Processing,** 2, 1955-1958.
71. **J. Syarif**, T. Hoshino, T. Tsuchiyama and S. Takaki. (2000), *Effect of Solute Cu on Low Temperature Toughness of α-Iron.* **Proceeding of the 10th IKETANI Conference on Materials Research Toward the 21 Century,** 117-118.

C.6 Proceedings (National)

1. I. Agung, **J. Syarif**, M.J. Ghazali & Z. Sajuri. (2010) *Wear Behaviour of As-Quenched and Peak-Aged Ferritic Iron Containing Copper on Unlubricated Condition.* **Proceeding of Malaysian Metallurgical Conference 2010,** CD ROM version.
2. O. Bapokutty, Z. Sajuri, and J. Syarif. (2010) *Stress Relaxation Behaviour and Mechanism of Heat Treated Inconel 718 in High Temperature Environments*. **Proceeding of Malaysian Metallurgical Conference 2010,** CD ROM version.
3. Y.P. Detak, J. Syarif and R. Ramli. (2009) *Prediction the Effect of Heat Treatment in Tensile Properties of Ti-6Al-4V Alloys using Artificial Neural Network*, **Proceeding of Malaysian Metallurgical Conference 2009**. CD ROM version.
4. I. Agung, J. Syarif and M.J. Ghazali. (2009) *The Effect of Copper Particles on Dry Sliding Wear Behavior of Fe-3mass%Cu*, **Proceeding of Malaysian Metallurgical Conference 2009**. CD ROM version.
5. O. Bapokutty, Z. Sajuri and J. Syarif. (2009) *Effect of Standard Heat Treatment on Tensile Properties of Inconel 718*, **Proceeding of Malaysian Metallurgical Conference 2009**. CD ROM version.

6. A.A.A. Aziz, M.F.A. Ibrahim, A. Jalar, J. Syarif and N.M. Rashdi. (2009) *Effect of Different Filler (ER5356 and ER4043) Toward Mechanical and Microstructure Properties of the Joint Gas Metal Arc Welding AA6061-T6*, **Proceeding of Malaysian Metallurgical Conference 2009**. CD ROM version.
7. M.F.A Ibrahim , A.A.A. Aziz, A. Jalar , J. Syarif and M.N. Rashdi.(2009) *The Influence of Filler Metal on Porosity Formation of AA6061 Aluminium Alloy Joints*, **Proceeding of Malaysian Metallurgical Conference 2009**. CD ROM version.
8. Z. Zulkoffli, **J. Syarif**, Z. Sajuri. (2008) *Fabrication of AZ61/SiC Composites by Powder Metallurgy Process*, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
9. H. Nofriady, **J. Syarif**, M.Z. Omar. (2008) *Influence of Cu on Strength and Elongation of Dual Phase Steel*, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
10. A.R. Said, **J. Syarif**, Z. Sajuri. (2008) *Microstructural Study of HAZ of TIG Welded GTD 111 Nickel Based Superalloy*, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
11. S.H.Salleh, M.Z.Omar, **J.Syarif,** M.J.Ghazali, S.Abdullah, Z.Sajuri. (2008) *Investigation of Microstructures and Properties of 440C Martensitic Stainless Steel,* **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
12. A.Alfan, M.Z. Omar, **J. Syarif**. (2008) *Microstructural Evolution of XW-42 Tool Steel In Semi-Solid Temperature Intervals,* **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
13. Nuzul Ramdhani, **Junaidi Syarif**, Zainudin Sajuri, Mohd Zaidi Omar & Abdul Razak Daud. (2008)Effect of Solution Treatment on Stability of β Phase in New β Type Ti-15Cr-1Fe Alloy, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
14. A.Fahruddin, S.Abdullah, N.Syahila, **Syarif.J** & M.Z.Omar. (2008) Modelling of Fiber Metal Laminates (FML) Composites Using the Residual Stiffness and strength model, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
15. Tubagus Noor Rohmannudin, **Junaidi Syarif**, Mohd Zaidi Omar, Zainuddin Sajuri & Abdul Razak Daud. (2008) *Changes in Phase Stability on Ti-10at.%Mo Alloy by Alloying Elements*, **Proceeding of Malaysian Metallurgical Conference 2008**. CD ROM version.
16. **J. Syarif,** T. Tsuchiyama and S. Takaki (2007), *Effect of Solute Cu on Ductile-to-Brittle Behavior of Martensitic Fe-8%Ni Alloy.* **Proceeding of National Metallurgical Conference 2007**. CD

ROM Version.

17. Reza Fadhila, A.G.Jaharah, C.H.Che Haron, M.Z.Omar, **J. Syarif**, A.Manaf and C.H.Azhari (2006), *Microstructural Mapping of Hadfield Manganese Steel-3401 in Aging Treatment***, Proceeding of National Metallurgical Conference 2006**. CD ROM Version.
18. Y. Futamura, K. Imakawa, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Grain Growth Behavior of Austenite in Cu Bearing Steel,* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 17(4), 907.
19. D. Fukae, T. Kitaura, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Creep Property of Austenitic Stainless Steel with Lath Structure,* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 17(4), 1312.
20. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Effect of Cu Addition on Microstructure and Mechanical Properties in 9%Ni Steels,* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 17(4), 909.
21. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Microstructure and Mechanical Properties of Cu Bearing Cryogenic 9% Nickel Steels.* **Netsushori Gijutsukyoukai kouen Taikai Gaiyoushu,** 11.
22. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Microstructural Factors Affecting Strength-Ductility Balance in Cu Bearing 9%Ni Steel,* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 17(3), 489.
23. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2004), *Effect of Solute Copper on Yield Strength of Dislocation-strengthened iron,* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 17(3), 488.
24. K. Nakashima, Y. Futamura, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Contribution of Dislocation Strengthening to Yield Strength in Ultra-low Carbon Martensitic Steels.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 16(6), 1521.
25. M. Matsuki, T. Kitaura, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Precipitation and Age Hardening Behavior in Copper Bearing Ultra-Fined Grained Steels.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 16(6), 1477.
26. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Microstructure and Mechanical Properties of Cu Bearing 9% Nickel Steels.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 16(6), 1523.
27. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2003), *Effect of Cu Addition on Softening*

Behavior during Tempering in Cryogenic 9% Nickel Steels. **Current Advances in Materials and Processes Iron Steel Institute of Japan**, 16(3), 520

28. N. Nakada, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2002), *Strengthening by Cu Addition in Cryogenic 9% Nickel Steels.* **Current Advances in Materials and Processes Iron Steel Institute of Japan**, 16(3), P42
29. K. Fukunaga, **J. Syarif**, T. Tsuchiyama and S. Takaki. (2002), *Effect of Ultra Grain Refining on Martensitic Transformation in a Meta-Stable Austenitic Steel.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 15(6)**,** 1140
30. **J. Syarif**, Y. Futamura, T. Tsuchiyama and S. Takaki. (2002), *Strengthening Mechanism of Cu Bearing Martensitic Steel.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 15(3), 484.
31. **J. Syarif**, T. Y. Ono, Tsuchiyama and S. Takaki. (2001), *Effect of Cu Addition on Microstructure in Martensitic Fe-8%Ni Alloy.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 14(3), 615
32. **J. Syarif**, T. Tsuchiyama and S. Takaki. (2000), *Mechanism of Toughening at Low Temperature by Solute Cu in α-Iron.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,**13(6), 1237.
33. **J. Syarif**, Y. Ono, T. Tsuchiyama and S. Takaki. (2000), *Effect of Solute Cu on Microstructure and Toughness of Martensitic Steel.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 13(3), 613.
34. **J. Syarif,** T. Hoshino, T. Tsuchiyama and S. Takaki. (1998), *Effect of Cu Addition on Low Temperature Toughness of Ferritic Iron.* **Current Advances in Materials and Processes Iron Steel Institute of Japan,** 11(6), 1162.

C.9 Editorial Work for Academic Publications

1. Board of Editors, Jurnal Material dan Proses Manufaktur
2. International Advisory Board Members, International Journal of Applied Research and Smart Technology
3. International Members of Editorial Boards, Journal of Engineering and Technology, 2018-2021.
4. Referee, Journal of Mining and Metallurgy B, 2020, 2021

5. Referee, International Journal of Automotive and Mechanical Engineering, 2016
6. Referee, Journal Alloy and Compound, 2014, 2015
7. Referee, Makara Journal of Technology, 2015
8. Referee, International Journal of Technology, 2013
9. Referee, Sains Malaysiana, 2012 and 2010
10. Referee, Jurnal Teknologi, UTM, 2012
11. Referee, Book of "Ferrous Metals", Universiti Malaysia Perlis Publisher, 2011
12. Reviewer, Journal of The Japan Society for Heat Treatment, vol. 49(Special Issue), 2009
13. Editor, Proceeding of Malaysian Metallurgical Conference 2008 – MMC2008

D. CONFERENCES

D.1 Conferences Committee

Conference Title	Role	Date	Place
4th International Conference on Engineering Professional Ethics and Education	International Advisory Board	22-23 June 2021	Kuala Lumpur, Malaysia
Steering Committee of Engineering Physics International Conference (EPIC) 2018	Member	31 October-2 November 2018	Surabaya, Indonesia
Scientific Committee of Engineering Physics International Conference (EPIC) 2016	Member	7 September 2016	Bandung, Indonesia
3rd International Conference on Recent Advances in Automotive Engineering and Mobility Research (ReCAR) 2015	International Advisor	1-3 December 2015	Melaka, Malaysia
Regional Conference on Engineering Mathematics, Mechanics, Manufacturing & Architecture (EM3ARC) 2007	Committee	27-28 November 2009	Putra Jaya, Malaysia
Malaysian Metallurgical Conference (MMC) 2008	Committee	3-4 December 2008	Bangi, Malaysia
Seminar of Innovation of Nano Structure Control in Crystalline Materials, The 21st COE Kyushu University	Committee	14-15 February 2003	Fukuoka, Japan

D.2 Conference Attended

Title	Role	Date	Place
International Symposium on Advances and Innovation in Mechanical Engineering 2021	Invited Speaker	13 October 2021	Yogyakarta, Indonesia
Scientific Writing Workshop	Invited Speaker	20 August 2018	Jakarta, Indonesia
The International Conference on Advanced Materials Science and Technology (ICAMST 2013)	Presenter	17-18 September 2013	Yogyakarta, Indonesia
The 5th Powder Metallurgy Symposium and Exhibition	Presenter	14-15 December 2011	Kuala Lumpur, Malaysia
The International Conference on Applied Mechanics, Materials, and Manufacturing (ICAMMM 2010)	Presenter	13-15 December 2010	Muscat, Oman
The 2nd UKM-NUT Joint Seminar 2010	Presenter	11 October 2010	Bangi, Malaysia
3rd Powder Metallurgy Symposium & Exhibition 2009	Presenter	12-13 August 2009	Kuala Lumpur, Malaysia
International Coference on Natural and Material Sciences (NAMES 2009)	Presenter	1-4 July 2009	Banjarmasin, Indonesia
The 27th Coference of the Canadian Biomaterials Society	Presenter	20-23 May 2009	Quebec City, Canada
The 17th International Federation for Heat Treatment and Surface Engineering Congress 2008	Presenter	27-30 October 2008	Kobe, Japan
The 5th International Conference of Inorganic Materials 2008 (Organised by Elsevier)	Presenter	28-30 September 2008	Dresden, Germany
The 2nd Malaysia Tissue Engineering and Regenerative Medicine Scientific Meeting (2nd MTERMS)	Presenter	22-23 July 2008	Cheras, Malaysia
The 13th International conference of Applied Mechanics and Mechanical Engineering	Presenter	27-29 May 2008	Cairo, Egypt
Seminar on Development of Nanotechnology in Metallurgy and Materials	**Invited Speaker**	4 March 2008	Cilegon, Indonesia
National Metallurgical Conference 2007	Presenter	26-27 November 2007	Johor Bahru, Malaysia
Malaysia-Japan International	Presenter	12-15	Kuala Lumpur,

Symposium on Advanced Technology 2007		November 2007	Malaysia
5th International Materials Technology Conference & Exhibition	Presenter	17-20 July 2006	Kuala Lumpur, Malaysia
International Workshop on Nanoscience & Nanotechnology 2006	Participant	19-21 June 2006	Shah Alam, Malaysia
2nd International Conference on Advanced Structural Steels	Presenter	10-13 April 2004	Shanghai, China
Spring Annual Meeting of ISIJ 2004	Presenter	March 30, 2004	Tokyo, Japan
7th Workshop on the Ultra Steel	Presenter	1-3 July 2003	Tsukuba, Japan
Seminar of Innovation of Nano Structure Control in Crystalline Materials, The 21st COE Kyushu University	Participant	14-15 February 2003	Kyushu University
The 10th IKETANI Conference on Materials Research Toward the 21 Century,	Presenter	24-26 June 2000	Karuizawa, Japan
Autumn Annual Meeting of ISIJ 1998	Presenter	September 1998	Ehime, Japan

E. COURSES ATTENDED

Title	Role	Date	Place
Deep Learning by Matlab	Participant	27 February 2021	Matlab Online Learning
Machine Learning with Matlab	Participant	16 January 2021	Matlab Online Learning
Security Awareness Training	Participant	30 May 2019	Unversity of Sharjah
Central Lab Safety Training	Participant	12 June 2019	Unversity of Sharjah
Workshop on "Materials Selection and the Environment: CES Software	Participant	15 January 2018	University of Sharjah
Workshop "Developing a Course Assessment Plan"	Participant	12 January 2017	University of Sharjah
Workshop "Metacognition and Transfer - What Faculty Members Expect Their Students to Learn, but Never Teach"	Participant	14 January 2018	University of Sharjah
Workshop of SolidWork	Participant	6-9 December 2015	College of Engineering
Workshop of ANSYS-Mechanical	Participant	17, 24-25 May 2015	College of Engineering, Unversity of Sharjah
Workshop of ANSYS-Fluid	Participant	17May 2015	College of Engineering,

			Unversity of Sharjah
Workshop of BlackBoard	Participant	February 2015	College of Engineering, Unversity of Sharjah
Seminar of Forensic Engineering 2014	Participant	6-8 May 2014	Puri Pujangga, Bangi, Malaysia
Workshop of TRIZ Level 1	Participant	14-15 September 2011	Resident Hotel, Bangi, Malaysia
Course of Basic Counseling Skills	Participant	8-10 October 2010	Hotel Everly Resorts, Melaka, Malaysia
Workshop of Maple 11	Participant	3 January 2008	Faculty of Engineering, UKM, Bangi, Malaysia
Workshop of Confocal Laser Scanning Microscope for Materials Science	Organizer, participant	27 – 28 August 2007	Faculty of Engineering, UKM, Bangi, Malaysia
Short Course on Nanomaterials Synthesis and Applications	Participant	10-12 July 2007	Faculty of Engineering, UM, Kuala Lumpur, Malaysia
Workshop of High Temperature Thermal Analysis and Calorimetry	Participant	15 May 2007	Putra Jaya, Malaysia
MAPLE Fundamentals & Advanced MAPLE UsageTraining	Participant	27 November 2006	Bangi, Malaysia
MSC MasterKey	Participant	9 December 2005	Shah Alam, Malaysia
TEM with EDS operation	Participant	May 2002	Fukuoka, Japan
TEM operation	Participant	May 1998	Fukuoka, Japan

F. INVENTION/DESIGN

F.1 Patents

1. A Method For Forming Titanium Alloy (Patent file reference: IPS/UKM/AP/09.1)
2. An Orthopaedic Implant and Method for Producing the same (Patent file reference: IPS/UKM/AP/09.1)

G. PUBLIC SERVICE

G.1 International Level

1. Member, Steering Committee, the Engineering Physics International Conference (EPIC), 2018
2. Member, Scientific Committee, the Engineering Physics International Conference, 2016
3. Member, International Advisory Board, Third International Conference on Recent Advances in Automotive Engineering and Mobility Research (ReCAR), 2015
4. Assessor, Promotion for Faculty Member of National University of Malaysia, 2015
5. Member, Iron and Steel Institute of Japan, 1998 – 2012

G.2 National Level

1. Judge for Group Presentation Session in "World Future Leaders Program" (Conference of Solution for Better Life), 2016
2. Judge, EKSPO INOVASI ISLAM 2013 (4th i-INOVA'13), Universiti Sains Islam Malaysia (USIM), 2013
3. Chairman, Technical Committee on Malaysian Standards for Alloy Steels, 2008-present
4. Professional Member, Institute of Materials Malaysia, 2006-present
5. Member, Malaysian Powder Metallurgy and Particulate Materials Association, 2009-present
6. Academic Networking secretariat, Institute of Materials, Malaysia, 2006-2008
7. Committee**,** Seminar of Innovation of Nano Structure Control in Crystalline Materials, the 21st COE Kyushu University

G.3 Public Social Service

1. Secretary, Indonesian Student Association chapter Fukuoka, 1998-1999
2. Scientific Coordinator, Indonesian Student Association branch Kyushu, 2002-2003
3. Adviser, Indonesian Student Association chapter UKM, Malaysia, 2007 - 2014

H. ADMINISTRATION

H.1 Member of Committee

Committee	Level	Institution	Status	Duration
College Student Disciplinary Committee	College	UoS	Member	2018 - 2020

Social Affair Committee	College	UoS	Member	2017-2018, 2021
College Faculty Promotion Committee	College	UoS	Member	2015-2016
College Time Table Committee	College	UoS	Member	2015-2017
Department Academic Accreditation Committee	Department	UoS	Member	2018-present
Associate Chair	Department	UoS	Associate Chair	2016-2018
Department Teaching & Learning Committee	Department	UoS	Member	2021-2022
MNE Department Council	Department	UoS	Member	2015-present
CAA Report Preparation	Department	UoS	Coordinator	2016-2018
Department Senior Design Project Committee	Department	UoS	Member	2018-2020
Department ad-hoc SSR Preparation Committee for ABET Accreditation	Department	UoS	Member	2015-2017
Acting Chairperson of ME Department	Department	UoS	Acting Chairperson	July-August 2016
New Faculty Search Committee	Department	UoS	Coordinator	2015
Acting Chairperson of ME Department	Department	UoS	Acting Chairperson	November 2015
Preparation Committee for Department Budget 2016-2017 & 2017-2018	Department	UoS	Coordinator	2015, 2016
ME Department Annual Report Committee	Department	UoS	Coordinator	2015-2016
Technical committee in ME for purchasing lab equipment	Department	UoS	Member	2015-present
Committee of Selection of External Examiners for PhD/MSc Thesis	Faculty	UKM	Member	2011-2014
Committee of Preparation of Self-Assessment Report of EAC	Department	UKM	Member	20011-2013
Coordinator of	Department	UKM	Coordinator	2011 - 2014

Department's Laboratories				
Committee for Final Year project	Department	UKM	Coordinator	2010-2011
Committee of Department Colloquium	Department	UKM	Member	2011
Committee of Preparation of Self-Assessment Report of EAC	Department	UKM	Member	2009-2010
Committee of Preparation for Self-Assessment Report for EAC	Department	UKM	Member	2007 -2008
Webmaster of Department's website	Department	UKM	Member	2006-2008
Committee of Department Colloquium	Department	UKM	Secretary	2007
Committee of Department Colloquium	Department	UKM	Member	2006

I. Network

I.1 Industrial Network

6. KLStarRail Sdn. Bhd., Kuala Lumpur, Consultancy project, 2008 – 2014.

7. TNB Repair and Maintenance (REMACO) Sdn. Bhd., Klang, Research Project and Master Student Supervision, 2014.

8. Hicom Diecasting Sdn. Bhd., Shah Alam, Consultancy Project. 2011-2014.

9. Oryx Advanced Materials Sdn.Bhd., Pinang, Research Project and Master Student Supervision. 2014.

I.2 Academic Network

1. **Universiti Kebangsaan Malaysia,** Dr. Zainuddin Sajuri, 2015 – present.
   Program:
   - Research Collaboration on Additive Manufacturing
2. **Institute of Metallurgy and Metal Forming, University Duisburg-Essen, Germany**, Prof. Dr. Rüdiger Deike, 2009 – 2014. Program:
   - Seminar on Metal Casting
   - Research Collaboration on Aluminium Casting
   - Joint Supervision

3. **Nagaoka University of Technology (NUT)**, Japan, Prof. Dr. Yoshiharu Mutoh, 2007 – 2014. Program:
    - Joint Seminar UKM (AMPI) – NUT
    - Research Collaboration
4. **Department of Metallurgy and Material Engineering, University of Indonesia**, Dr. Sri Harjanto, 2010 – Present. Program:
    - Research Collaboration on Fe-Mn-C Alloy based Biodegradable Materials