



CURRICULUM VITAE

DR. HAMDAN MOHAMED YUSOFF

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Research Interest

- Process Engineering
- Nanomaterials
- Process Safety

Academic Qualification

- PhD. Chemical Engineering, 2008, University of Canterbury, New Zealand
- B.Sc. Chemical Engineering, 1995, Universiti Teknologi Malaysia, Malaysia

Professional Qualification / Membership / Affiliation

- Member, Institute of Engineer, New Zealand (IPENZ)
- Member, Board of Engineers Malaysia (BEM)

Appointments

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|---|----------------|
| • Senior Lecturer, Dept. of Chemical and Environmental Engineering, UPM | 2008 – to date |
| • Program Coordinator, Master in Process Safety & Loss Prevention, UPM | 2011 – 2013 |
| • Research Assistant, University of Canterbury, New Zealand | 2004 – 2006 |
| • Process Engineer, Esterol Sdn Bhd, Shah Alam | 1995 – 2002 |

List of Publications

Journals

1. Mohd Amirul Syafiq Mohd Yunos, Mark Dennis Anak Usang, Hanafi Ithnin, Siti Aslina Hussain, **Hamdan Mohamed Yusoff**, Susan Sipaun Reconstruction Algorithm of Calibration Map for RPT Techniques in Quadrilateral Bubble Column Reactor Using MCNPX Code EJERS, European Journal of Engineering Research and Science Vol. 3, No. 1, January 2018
2. M.A.S.M. Yunos, N.K.A. Halim, S.A. Hussain, **H.M. Yusoff**, S. Sipaun. Investigations of Bubble Size, Gas Hold-Up, and Bubble Rise Velocity in Quadrilateral Bubble Column Using High-Speed Camera American Journal of Engineering, Technology and Society 2017; 4(1): 5-15
3. Buthainah Ali, Dayang R. A. Biak, Sapuan S. M., Zaidan A. W., Alnuami W., **Mohamed Yusoff H.**, Siti Masrinda T. Preparation of Carbon Nanotubes via Chemical Technique (Modified Staudenmaier Method) Nanoscience and Nanotechnology - Asia 7(1):113-122 March 2017

4. N. Kure, M.N. Hamidon, S. Azhari, N.S. Mamat, **H.M. Yusoff**, B.M.Isa, and Z. Yunusa Simple Microwave-Assisted Synthesis of Carbon Nanotubes Using Polyethylene as Carbon Precursor Journal of Nanomaterials Vol 2017:1-4 January 2017
 5. M.A.S.M. Yunus, N.K.A. Halim, S.A. Hussain, **H.M. Yusoff**, S. Sipaun Design and Fabrication of Quadrilateral Bubble Column Test Rig for Multiphase Flow Investigations Sch. J. Eng. Tech., 2017; 5(2):34-43 vv
 6. F. Ostovan, K. A Matori, **H.M. Yusoff**, R. Yunus, A. H. M. Ariff, M. Toozandehjani, M. R. Meschian Investigation of the Structure and Hardness of Quenched Sintered Materials Produced from Iron-Base Alloyed Powders (Astaloy E) Metal Science and Heat Treatment Volume 58, Issue 7–8, pp 431–4342016
 7. Kure Nicodemus, Nizar Mohd Hamidon, Nizar Shuhazlly, Isa Mohd Maryam, **Yusoff Mohamed Hamdan**, Intan Helina Hasan Synthesis Of Carbon Nanosturctures (CNS) Using Domestic Microwave Oven International Journal of Advances in Science Engineering and Technology Spl-Issue 3 2016
 8. Farhad Ostovan, Khamirul Amin Matori, Meysam Toozandehjani, Arshin Oskoueian, **Hamdan Mohamed Yusoff**, Robiah Yunus and Azmah Hanim Mohamed Ariff Nanomechanical Behavior of Multi-Walled Carbon Nanotubes Particulate Reinforced Aluminum Nanocomposites Prepared by Ball Milling Materials 9 140, 2016
 9. C. K. Chai, C.T. Ratnam, L.C. Abdullah, **H.M. Yusoff** Tensile Properties and Thermal Stability of Gamma Irradiated Epoxidized Natural Rubber Latex with the Presence of Sensitizer J. Polym. Mater. Vol. 33, No. 1, 2016, 223-232
 10. Khaled Shahot, Azni Idris, Zulkifli Rosli, Rozita Omar, **Hamdan Yusoff**, Suraya Abdul Rashid, Ahmed Ekhmaj, Rabaah Azis, Ismail Abd Ghani Microstructure of Activated Carbon Particles Coated on High Density Polyethylene (HDPE) for Wastewater Treatment Application Advanced Materials Research, Vol. 1134, pp. 88-95, 2016
 11. Mohd Amirul Syafiq Mohd Yunus, Siti Aslina Hussain, **Hamdan Mohamed Yusoff**, Jaafar Abdullah Industrial Radiotracer Technology for Process Optimizations in Chemical Industries—A Review Pertanika Journal of Scholarly Research Reviews Vol 2(3) Pages 20-46
 12. T.T. Dele-Afolabia, M.A. Azmah Hanim, M.Norkhairunnisa, **H.M. Yusoff**, M.T.Suraya Investigating the effect of Isothermal Aging on the Morphology and Shear Strength of Sn-5Sb Solder Reinforced with Carbon Nanotubes Journal of Alloys and Compounds Volume 649, 15 November 2015, Pages 368-374
 13. Farhad Ostovan, Khamirul Amin Matori, Meysam Toozandehjani, Arshin Oskoueian, **Hamdan Mohamed Yusoff**, Robiah Yunus, Azmah Hanim Mohamed Ariff, Hock Jin Quah, Way Foong Lim Effects of CNTs content and milling time on mechanical behavior of MWCNT-reinforced aluminum nanocomposites Materials Chemistry and Physics Volume 166, 15 September 2015, Pages 160-166
 14. Dele-Afolabi, T.T., Azmah Hanim, M.A., Norkhairunnisa, M., **Yusoff, H.M.**, Suraya, M.T. Growth kinetics of intermetallic layer in lead-free Sn–5Sb solder reinforced with multi-walled carbon nanotubes Journal of Materials Science: Materials in Electronics October 2015, Volume 26, Issue 10, pp 8249–8259
 15. F. Ostovan, K.A. Matori, M. Toozandehjani, A. Oskoueiana, **H.M. Yusoff**, R. Yunus, A.H. Mohamed Arif Microstructural evaluation of ball-milled nano Al₂O₃ particulate-reinforced aluminum matrix composite powder Int. J. Mater. Res. (formerly Z. Metallkd.) 106 (2015)
 16. Mohd Yunus, M.A.S., Hussain, S.A., **Yusoff, H.M.**, Abdullah, J. Preparation and quantification of radioactive particles for tracking hydrodynamic behaviour in multiphase reactors Applied Mechanics and Materials Volume 625 Pages 509-516 2014
 17. Mohd Yunus, M.A.S., Hussain, S.A., **Yusoff, H.M.**, Abdullah, J. Preparation and quantification of radioactive particles for tracking hydrodynamic behaviour in multiphase reactors Applied Radiation and Isotopes Volume 91, September 2014, Pages 57-61
 18. F. Ostovan, K.A. Matori, **H.M. Yusoff**, M. Toozandehjani, A. Oskoueiana, R. Yunus, A.H. Mohamed Arif F. Fadaeifard, M.R. Meschian Occurrence of Pattern Formation of Microstructural, Physical and
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Mechanical Properties of Sintered PM Steels Containing Pre-Alloyed Astaloy E Powder Trans Indian Inst Met (2014) 67(6):881–888

19. T.T. Dele-Afolabi, M.A. Azmah Hanim, M. Norkhairunnisa, **H.M. Yusoff** Physical and Mechanical Properties Enhancement of Lead Free Solders Reinforced with Carbon Nanotubes: A Critical Review Advances in Environmental Biology, 8(8) 2014, Pages: 2600-2608
20. Khaled Shahot, Azni Idris, Rozita Omar and **Hamdan M. Yusoff** Review on Biofilm Processes for Wastewater Treatment Life Science Journal 2014;11(11)
21. Mohamaddoost, F. and **Mohd Yusoff, Hamdan** and Matori, Khamirul Amin and Ostovan, F. and Vahedi, Bio ceramic Zirconia/Hydroxyapatite nano composite extracted from bovine bone Australian Journal of Basic and Applied Sciences, 2014 8 (15). pp. 302-306
22. Rahmanian, S., Thean, K.S., Suraya, A.R., Shazed, M.A., Mohd Salleh, M.A., **Yusoff, H.M.** Carbon and glass hierarchical fibers: Influence of carbon nanotubes on tensile, flexural and impact properties of short fiber reinforced composites Materials and Design Volume 43, 2013, Pages 10-16
23. M.R. Atiyah, D.R. Awang Biak, F. Ahmadun, I.S. Ahamad, F. Mohd Yasin, **H. M Yusoff** Low Temperature Growth of Vertically Aligned Carbon Nanotubes via Floating Catalyst Chemical Vapor Deposition Method Journal of Materials Science & Technology Volume 27, Issue 4, April 2011, Pages 296–300
24. Lim Siang Ying, Mohamad Amran bin Mohd Salleh, **Hamdan b. Mohamed Yusoff**, Suraya Binti Abdul Rashid, Jeefferie. Abd. Razak Journal of Industrial and Engineering Chemistry Volume 17, Issue 3, 25 May 2011, Pages 367–376
25. Mohd Salleh, M.A.; Kisiki, N.H.; **Yusoff, H.M.**; Ab Karim Ghani, W.A.W. Gasification of Biochar from Empty Fruit Bunch in a Fluidized Bed Reactor. Energies 2010, 3, 1344-1352.
26. Shastry, R., Abrahamson, J., **Yusoff, H.**, Querrioux, T. Parameters affecting deposition of multiwalled carbon nanotubes on a continuously fed substrate using arc discharge Nanoscience and Nanotechnology, 2006.
27. **Hamdan Mohamed Yusoff**, Abrahamson, J. and Rahul Shastry. Influence of anode surface temperature in a continuously-fed arc discharge depositing carbon nanotubes Nanoscience and Nanotechnology, 2006.
28. **Hamdan M. Yusoff**, Rahul Shastry, Thomas Querrioux and John Abrahamson. Nanotube deposition in a continuous arc reactor for varying arc gap and substrate temperature Current Applied Physics Volume 6, Issue 3, June 2006, Pages 422-426

Chapter in Books

1. Abidin, Zurina Zainal, Awang Biak, Dayang Radiah, Mohamed, Hamdan and Harun, Mohd Yusof Solid–Liquid Extraction in Biorefinery in Shri Ramaswamy, Hua-Jiang Huang, Bandaru V. Ramarao, Separation and Purification Technologies in Biorefineries, John Wiley & Sons, 2013

Proceedings

1. Lokman, E.A, Hussain, S.A, Syam, S, and Yusoff, HM Loss of primary containment: A structured LOPC control framework in managing process safety hydrocarbon leakages Asia Pacific Confederation of Chemical Engineering Congress 2015: APCChE 2015, incorporating CHEMECA 2015
 2. F. Mohammaddoost, H. M. Yusoff, Khamirul Amin, F.Ostovan, Gh.R. Vahedi, Bio ceramic Zirconia/Hydroxyapatite nano composite extracted from bovine bone ICM MMM 2014 October 24-25, 2014, Kuching, Malaysia
 3. T.T Dele-Afolabi, M.A Azmah Hanim, N.Ghamarian, M.Norkahirunnisa and H.M. Yusoff, Effect Of CNT Addition On The Physical, Microstructural And Mechanical Properties Of Lead Free Solders: A Critical Review, The Postgraduate Symposium On Composites Science And Technology 28 Jan 2014 Putrajaya, Malaysia.
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4. H. M. Yusoff, R. Shastry and J. Abrahamson “Mass production of carbon nanotubes using arc discharge” World Engineering Congress 2010, 2nd – 5th August 2010, Kuching, Sarawak, Malaysia
5. H. M. Yusoff, R. Shastry and J. Abrahamson “Effect of Arc parameters on CNT growth using a continuous reactor” Second International Conference on Advanced Materials and Nanotechnology (AMN-2), Queenstown, New Zealand, 6-11 Feb 2005. Oral Presentation

Past Research Projects

Project Title	Role	Year	Source of Fund	Status
Development of safety guidelines for Photovoltaic Fire.	Member	2020-2022	Akaun Amanah Industri Bekalan Elektrik (AAIBE)	Ongoing
Effects of concentration and purification of coating on the properties of CNTs-coated film and cable	Project leader	2018-2019	UPM	Completed
Low Temperature Floating Catalyst Chemical Vapour Deposition (FC-CVD): Study of Carbon Nanotubes growth mechanism and CFD modelling	Project leader	2010-2012	FRGS	Completed
CFD simulation of continuous reactor producing CNTs	Project leader	2010-2012	RUGS	Completed
Continuous Production of Carbon Nanotubes: Effect of Anode Surface Temperature and CFD Modeling	Research student	2003-2007	Mc Diamard Institute New Zealand	Completed

Honours and Awards

Name of Awards	Title	Award Authority	Award Type	Year
Academic Awards	Silver Award, Putra Innovative Carnival of Teaching and Learning PICTL 2019	Universiti Putra Malaysia	National	2019
Academic Awards	Pengajaran Cemerlang	Faculty of Engineering UPM	Institution	2009
Academic Awards	Skim Pengajian Pasca Siswazah - program HRD MOSTI	MOSTI	National	2003

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