

## CURRICULUM VITAE



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### Education

1. P.H.D Chemical Engineering, 2003, University of Birmingham
2. B. E.Sc. Chemical Engineering, 1997, University of Western Ontario.

### Areas of Interest

1. Particle Technology, Biochar and Nanotechnology, Carbonaceous particulates

### Professional Qualification/Membership/Affiliation

1. Lecturer, Carbon Particles, UPM, December 2003 – December
2. Senior Lecturer, Carbon Particles, UPM, January 2005 – present
3. Attachee, Design and fabrication of biochar pilot plan, Nasmech Technology Sdn Bhd, January 2009 – December 2009
4. Head of Laboratory, Material Processing and Technology, UPM, Mac 2012 - present

### Appointments

Position	Duration
1. Lecturer, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	December 2003
2. Head of Laboratory, Material Processing and Technology, ITMA, Faculty of Engineering, UPM	March 2012

### Publications

#### Journals (44 recent journals)

1. Najigivi, A., Rashid, S.A., Aziz, F.N.A., Salleh, M.A.M. Water absorption control of ternary blended concrete with nano-SiO<sub>2</sub> in presence of rice husk ash. *Materials and Structures/Materiaux et Constructions* 45 (7), pp. 1007-1017 (2012)
2. Esfahani, R.M., Wan Ab Karim Ghani, W.A., Mohd Salleh, M.A., Ali, S. Hydrogen-rich gas production from palm kernel shell by applying air gasification in fluidized bed reactor. *Energy and Fuels* 26 (2), pp. 1185-1191 (2012)
3. Sadegh Vishkaei, M., Yunus, R., Mohd Salleh, M.A., Ahmady, A., Biak, D.R.A. Innovative method to produce high-purity graphitic carbon nanospheres. *Fullerenes Nanotubes and Carbon Nanostructures* 20 (2), pp. 109-118 (2012).
4. Mahmoud, D.K., Salleh, M.A.M., Karim, W.A.W.A., Idris, A., Abidin, Z.Z. Batch adsorption of basic dye using acid treated kenaf fibre char: Equilibrium, kinetic and thermodynamic studies. *Chemical Engineering Journal* 181-182, pp. 449-457 (2012).
5. Mohammed, M.A.A., Salmiaton, A., Wan Azlina, W.A.K.G., Mohamad Amran, M.S., Omar, R.a, Taufiq-Yap, Y.H.b, Fakhru'l-Razi, A. Catalytic gasification of empty fruit bunch for enhanced production of hydrogen rich fuel gas. *Pertanika Journal of Science and Technology*, 20, (1), pp 139-149 (2012).
6. Mohammed, M.A.A., Salmiaton, A., Wan Azlina, W.A.K.G., Mohamad Amran, M.S. Gasification of oil palm empty fruit bunches: A characterization and kinetic study. *Bioresource Technology*, 110, pp 628-636 (2012).
7. Nur Zalikha Rebitanim, Wan Azlina Wan Ab Karim Ghani, Dali Khalid Mahmoud, Nur Akmal Rebitanim, Mohamad Amran Mohd Salleh. Adsorption Capacity of Raw Empty Fruit Bunch Biomass onto Methylene Blue Dye in Aqueous Solution. *Journal of Purity, Utility Reaction and Environment* 1, pp 45-60 (2012).

8. Dalia Khalid Mahmoud, Mohamad Amran Mohd. Salleh, Wan Azlina Wan Abdul Karim, Langmuir model application on solid liquid adsorption using agricultural wastes: Environmental application review. *Journal of Purity, Utility Reaction and Environment* Vol.1 No.4, pp 170-199 (2012).
9. Siti Thaiyiba Shafie, Mohamad Amran Mohd. Salleh, Lau Lek Hang, Md. Mukhlesur Rahman, Wan Azlina Wan Abdul Karim Ghani. Effect of pyrolysis temperature on the biochar nutrient and water retention capacity. *Journal of Purity, Utility Reaction and Environment*, 1(6) pp 293-307 (2012).
10. Nur Zalikha Rebitanim, Wan Azlina Wan Ab Karim Ghani, Dalia Khalid Mahmoud, Nur Akmal Rebitanim, Mohamad Amran Mohd Salleh. Adsorption of Methylene Blue by Agricultural Solid Waste of Pyrolyzed EFB biochar. *Journal of Purity, Utility Reaction and Environment*, 1(7) pp (2012).
11. Salleh, M.A.M., Mahmoud, D.K., Karim, W.A.W.A., Idris, A. Cationic and anionic dye adsorption by agricultural solid wastes: A comprehensive review. *Desalination* 280 (1-3) , pp. 1-13 (2011)
12. Givi, A.N., Rashid, S.A., Aziz, F.N.A., Salleh, M.A.M. Investigations on the development of the permeability properties of binary blended concrete with nano-SiO<sub>2</sub> particles. *Journal of Composite Materials* 45 (19), pp. 1931-1938 (2011).
13. Vishkaei, M.S., Mohd Salleh, M.A., Yunus, R., Awang Biak, D.R., Danafar, F., Mirjalili, F. Effect of short carbon fiber surface treatment on composite properties. *Journal of Composite Materials* 45 (18), pp. 1885-1891(2011).
14. Givi, A.N., Abdul Rashid, S., Aziz, F.N.A., Mohd Salleh, M.A. Particle size effect on the permeability properties of nano-SiO<sub>2</sub> blended Portland cement concrete. *Journal of Composite Materials* 45 (11), pp. 1173-1180 (2011).
15. Foo, C.T., Mahmood, C.S., Mohd Salleh, M.A. The study of aluminum loss and consequent phase transformation in heat-treated acid-leached kaolin. *Materials Characterization* 62 (4), pp. 373-377 (2011).
16. Naji Givi, A., Abdul Rashid, S., Aziz, F.N.A., Salleh, M.A.M. The effects of lime solution on the properties of SiO<sub>2</sub> nanoparticles binary blended concrete. *Composites Part B: Engineering* 42 (3) , pp. 562-569 (2011)
17. Yunus, R., Zahari, N.H., Salleh, M.A.M., Ibrahim, N.A. Mechanical properties of carbon fiber-reinforced polypropylene composites. *Key Engineering Materials* 471-472, pp. 652-657 (2011).
18. Danafar, F., Fakhru'l-Razi, A., Mohd Salleh, M.A., Awang Biak, D.R. Influence of catalytic particle size on the performance of fluidized-bed chemical vapor deposition synthesis of carbon nanotubes. *Chemical Engineering Research and Design* 89 (2), pp. 214-223 (2011).
19. Mohammed, M.A.A., Salmiaton, A., Wan Azlina, W.A.K.G., Mohammad Amran, M.S., Fakhru'L-Razi, A. Air gasification of empty fruit bunch for hydrogen-rich gas production in a fluidized-bed reactor. *Energy Conversion and Management* 52 (2), pp. 1555-1561 (2011).
20. Mohammed, M.A.A., Salmiaton, A., Wan Azlina, W.A.K.G., Mohammad Amran, M.S., Fakhru'L-Razi, A., Taufiq-Yap, Y.H. Hydrogen rich gas from oil palm biomass as a potential source of renewable energy in Malaysia. *Renewable and Sustainable Energy Reviews* 15 (2) , pp. 1258-1270 (2011).
21. Mahta Sadegh Vishkaei, Mohamad Amran Mohd Salleh, Robiah Yunus and Dayang Radhiah Awang Biak, Effect of short carbon fiber surface treatment on the properties of the Composite, *Journal of Composite Materials*, DOI: 10.1177/0021998310389090 (2011) Published online Dec 2010
22. M.A.A. Mohammed, A. Salmiaton , W.A.K.G. Wan Azlina, M.S. Mohamad Amran, A. Fakhru'l-Razi, T.Y.Y Hin, Hydrogen Rich Gas From Oil Palm Biomass as a Potential Source of Renewable Energy in Malaysia, *Renewable and Sustainable Energy Reviews*, accepted (2011)
23. M.A.A. Mohammed, A. Salmiaton , W.A.K.G. Wan Azlina, M.S. Mohamad Amran, A. Fakhru'l-Razi, Air Gasification of Empty Fruit Bunch for Hydrogen Rich Gas In a Fluidized Bed Reactor, *Energy Conversion and Management*, accepted (2011)
24. Lim Siang Ying, Mohamad Amran Mohd Salleh, Suraya Abdul Rashid, Hamdan Yusof, and Jeefferie Abdul Razak, Continuous Production of Carbon Nanotubes – A Review, *Journal of Industrial and Engineering Chemistry*, Accepted (2011)
25. Mahta Sadegh Vishkaei, Robiah Yunus, Mohamad Amran Mohd Salleh, Afshin Ahmady, Dayang Radhiah Awang Biak, Innovative method to produce High-Purity of Graphitic Carbon Nanospheres, Fullerenes, Nanotubes and Carbon Nanostructures, Accepted (2011) Available online
26. Alireza Naji Givi, Suraya Abdul Rashid, Farah Nora A. Aziz, and Mohamad Amran Mohd Salleh, Investigations on the permeability properties development of binary blended concrete with nano-SiO<sub>2</sub> particles, *Journal of Composite Materials*, Accepted (2011) Available online

27. Mohamad Amran Mohd Salleh, Nsamba Hussien Ksiki, Hamdan Mohd Yusoff, Wan Azlina Wan Abdul Karim, Effect Of Equivalence Ratio And Particle Size On EFB Char Gasification, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Accepted (2011)
28. R. Yunus, N.H. Zahari, M.A.M. Salleh, N.A. Ibrahim, Mechanical Properties of Carbon Reinforced Polypropylene Composite, Key Engineering Material vol 471-472, (2011) p652-657
29. Choo Thye Foo, Che Seman Mahmood, Mohamad Amran Mohd Salleh, The study of aluminum loss and consequent phase transformation in heat-treated acid-leached kaolin, Material Characterization 62 (2011) 373–377
30. Nadia Abdullah, Abd. Rahim Abu Talib, Abdul Aziz Jaafar, Mohamad Amran Mohd Salleh, Wen Tong Chong, The basics and issues of Thermochromic Liquid Crystal Calibrations, Experimental Thermal and Fluid Science, 34 (8), pp. 1089-1121 (2010)
31. Firoozeh Danafar, A. Fakhru'l-Razi, Mohammad Amran Mohd Salleh, Dayang Radiah Awang Biak Influence of Catalytic Particle Size on the Performance of Fluidized Bed Chemical Vapor Deposition Synthesis of Carbon Nanotubes Chemical Engineering Research and Design, In Press, Accepted Manuscript, Available online 27 May (2010)
32. M.A. Mohd Salleh, Nsamba Hussein, K. Hamdan Yusuf and W. A. Wan Ab Karim Ghani, Gasification Of Biochar From Empty Fruit Bunch In A Fluidised Bed Reactor, Energies, 3, 1344-1352 (2010)
33. Alireza Naji Givi, Suraya Abdul Rashid, Farah Nora A. Aziz, Mohamad Amran Mohd Salleh, Contribution of Rice Husk Ash to the Properties of Mortar and Concrete: A Review, Journal of American Science, 2010;6(3)
34. Alireza Naji Givi, Suraya Abdul Rashid, Farah Nora A. Aziz, Mohamad Amran Mohd Salleh, Ali Nazari, The effects of nanophase SiO<sub>2</sub> particles on the strength and workability of binary blended concrete, Journal of American Science 2010;6(4)
35. Nadia Abdullah, Abd. Rahim Abu Talib, Helmei Ramdhaney Mohd Saiah, Abdul Aziz Jaafar, Mohamad Amran Mohd Salleh, Film thickness effects on calibrations of a narrowband thermochromic liquid crystal, Experimental Thermal and Fluid Science, Volume 33, Issue 4, April (2009)
36. Nadia Abdullah, Abd. Rahim Abu Talib, Helmei Ramdhaney Mohd Saiah, Abdul Aziz Jaafar, Mohamad Amran Mohd Salleh, Comparison of Adhesive for Thermocouple Measurement, IEM journal vol 70, no 1 (2009)
37. Air Gasification of Agricultural Waste in a Fluidized Bed Gasifier: Hydrogen Production Performance, W. A. Wan Ab Karim Ghani, Alipour Reza Moghadam and M A Mohd Salleh, Energies 2009, 2(2), 258-268
38. Mahzad Hojat, Saari Mustafa, Mohamad Amran Mohd Salleh, Flocculation of POME from Acidification Pond, European Journal of Scientific Research, Volume 32 Issue 4, June (2009)
39. Fakhru'l-Razi, Firoozeh Danafar, Dayang Radiah Awang Biak, Mohd Amran Mohd Salleh, Fluidized Bed Catalytic Vapor Deposition Synthesis of Carbon Nanotube, Chemical Engineering Journal, Volume 155, Issues 1-2, 1 December (2009), Pages 37-48
40. Fakhru'l-Razi, Firoozeh Danafar, Dayang Radiah Awang Biak, Mohd Amran Mohd Salleh, An innovative procedure for CNT large scale synthesis by FBCVD, Fullerene, carbon nanostructure and nanotube, Volume 17 Issue 6 2009, pages 652-663
41. M.A. Mohd Salleh, J. Abd. Razak, N.A. Ibrahim, A. Fakhru'l Razi, A.R. Suraya, The influences of melt-compounding parameters on the tensile properties of low filler loading of untreated-mwcnts-polypropylene (pp) nanocomposites, Journal of Engineering Science and Technology, 3(1), 97-108, 2008
42. Helmi Zuhaidi Mohd Shafri, Mohamad Amran Mohd Salleh and Azadeh Ghiyamat, Hyperspectral Remote Sensing of Vegetation Using Red Edge Position Technique, American Journal of Applied Science 3(6): 1864-1871, 2006
43. Rafeah Wahi, Azni Idris, Mohamad Amran Mohd Salleh, Kaida Khalid, Low Temperature Microwave Pyrolysis of Sewage Sludge For Conversion As Fuel Material, International Journal of Engineering and Technology 3 (1) 131-138, 2006
44. AG. Liew Abdullah, M.A. Mohd Salleh, M.K. Siti Mazlina, M.J. Megat Mohd Noor, M.R. Osman, R. Wagiran, and S. Sobri, Azo Dye Removal By Adsorption Using Waste Biomass: Sugarcane Bagasse, International Journal of Engineering and Technology, Vol. 2, No.1, 2005
- Hoomans, B.P.B., Kuipers, J.A.M., Mohd Salleh, M.A., Stein, M., Seville, J.P.K., Experimental validation of granular dynamics simulations of gas-fluidised beds with homogeneous in-flow condition using Positron Emission Particle Tracking, Powder Technology 116 (2001) 166-177

### Awards/Recognition(Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Academic Awards	PRPI-Characterization of agrowaste for possible utilization in renewable energy production	UPM	Silver Medal Award	2007
2.		Compressed Natural Gas Direct Injection Passenger Vehicle	EUREKA International Exhibitions 2006, Brussels, Belgium	Special Award of Association of Polish Inventors	2006
3.		Compressed Natural Gas Direct Injection Passenger Vehicle	EUREKA International Exhibitions 2006, Brussels, Belgium	Gold Medal with Mention	2006
4.		CNG-DI Engine and Transmission (FUEL Storage)	I-TEX 2006, KLCC, Kuala Lumpur	Hendry Goh Special Award	2006
5.		CNG-DI Engine and Transmission (FUEL Storage)	I-TEX 2006, KLCC, Kuala Lumpur	I-TEX Gold Medal Award	2006
6.	Awards of Merit	Pengajar Cemerlang 2007	Fakulti Kejuruteraan UPM	Certificate	2008

### Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2008	Form UPM joint venture company (ACE Sdn Bhd).		-

### Student Supervision

#### PhD (Main Supervisor)

No.	Name	Title	Status
1.	Dahlia Khalid Mahmoud	Adsorptionstudy of biochar produced from biochar in industrial gasifier	On going
2.	Babak Alee Koudehi	Simulation of particle formation in pyrolysis reactor	On going

#### MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Jeeffeerie Abdul Razak	Low loading carbon nanotube in PP-CNT nanocomposite	Graduated
2.	MahtaSadeghViskaee	Carbon nanotube treated carbon fiber by pyrolysis for composite application.	Graduated (2010)

<b>No.</b>	<b>Name</b>	<b>Title</b>	<b>Status</b>
3.	Nsamba Hussein Ksiki	Gasification of biochar particles made from empty fruit bunch	Graduated (2011)
4.	Thamer Ahmad	New technique for catalyst delivery system in vertical pyrolysis reactor	Submitting
5.	ChooTye Foo	Method to produce rich kaolin phase clay	Submitting
6.	Lim Siang Ying	Carbon nanotube production in fluidized bed pyrolyzer	Submitting
7.	Lau Lek Hang	Pilot Plant Biochar production from EFB	On going