

CURRICULUM VITAE

PERSONAL DETAIL



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BIBLIOMETRIC DATA

Total Articles in Publication List	84 (http://www.researcherid.com/citation/A-5854-2010)
Articles With Citation Data	84 (http://www.researcherid.com/citation/A-5854-2010)
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h-index	14 (http://www.researcherid.com/citation/A-5854-2010)
Co-authors	Collaboration Network (http://labs.researcherid.com/mashlets/rid/mashletsServer.jsp?rid=A-5854-2010&mid=CollaborationNetwork)
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ACADEMIC QUALIFICATION

(Qualification), (Institution).

PHD(1992) (UK), BIRMINGHAM UNIVERSITY, BIRMINGHAM, UK
MSC(1987) (US), PENNSYLVANIA STATE UNIVERSITY
BSC(1985) (US), TEXAS A & M UNIV, COLLEGE, STATION

PROFESSIONAL

(Organisation), (Role), (Year), (Level).

Malaysian Water Association (MWA), Member, 2002-2009, (National)
Board of Engineers Malaysia (BEM), Graduate Member, 1998-2009, (National)
Institution of Chemical Engineers, UK (IChemE), Associate Member, 1991-2009, (International)

ADMINISTRATIVE DUTIES

(Role), (Level), (Start date),(End Date).

PELANTIKAN SEBAGAI AHLI MAJLIS ICT UNIVERSITI MALAYA / APPOINTMENT AS A ICT COUNCIL MEMBER OF UNIVERSITY MALAYA, University Malaya, 2017-03-31 - 2018-12-31 (Majlis Ict Untuk Menentukan Hala Tuju Perkhidmatan Ict Di Um Bagi Mencapai Misi Dan Visi Um)
JAWATANKUASA PENILAI PENGKORMERSIALAN UNIVERSITI MALAYA, University Malaya, 2016-01-04 - 2018-01-03 (Perlantikan Sebagai Jawatankuasa Penilai Pengkormersialbn Universiti Malaya)
Assistant Vice Chancellor, Pejabat Tnc (penyelidikan & Inovasi), Deputy Vice Chancellor's Office (research & Innovation), Deputy Vice Chancellor(research & Innovation), 2015-10-01 - 2017-09-30
Head, Unit Dasar & Strategi (uds), Pejabat Pengarah, Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2014-01-02 - 2016-12-31
Head Of Unit, University Malaya, 2014-01-02 - 2016-12-31
Acting Deputy Vice-chancellor (research & Innovation), University Malaya, 2016-12-16 - 2016-12-30 (Deputy Vice-chancellor (research & Innovation) Mengerjakan Umrah)
Acting Deputy Vice-chancellor (research & Innovation), University Malaya, 2016-08-08 - 2016-08-10 (Deputy Vice-chancellor (research & Innovation) Menghadiri Chiang Mai-um Innovation Green And Sustainability Research Symposium)
Acting Deputy Vice-chancellor (research & Innovation), University Malaya, 2016-01-19 - 2016-01-29 (Deputy Vice-chancellor (research & Innovation) Menghadiri Malaysia Higher Education Showcase (mhes) 2016 Di Washington Dan Lawatan Rasmi Ke Baylor College Of Medicine)
Acting Director, Institut Pengurusan Dan Perkhidmatan Penyelidikan (ipp), Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2015-08-24 - 2015-12-31
Head, Unit Dasar & Strategi (uds), Pejabat Pengarah, Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2013-04-15 - 2013-12-31
Deputy Director, Unit Dasar & Strategi (uds), Pejabat Pengarah, Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2013-01-08 - 2013-12-31
Deputy Director, Unit Pengurusan Geran Penyelidikan, Institut Pengurusan Dan Perkhidmatan Penyelidikan (ipp), Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2011-07-01 - 2011-08-31
Deputy Director, Unit Pengurusan Geran Penyelidikan, Institut Pengurusan Dan Perkhidmatan Penyelidikan (ipp), Institute Of Research Management And Services, Deputy Vice Chancellor(research & Innovation), 2009-08-01 - 2011-06-30
Head, Pusat Pengurusan & Penambahbaikan Kualiti (qmec), Quality Management & Enhancement Centre (qmec), Vice Chancellor, 2009-06-01 - 2010-05-31
Deputy Dean, Institute Of Postgraduate Studies, 2004-05-31 - 2006-03-31

AREAS OF EXPERTISE

(Area).

Multiphase Mixing and Hydrodynamics Studies (Stirred Tanks, Agitators, Solid-Liquid Mixing, Gas Dispersion, Rheologically Complex Fluids, Process Intensification)

Water and Wastewater Processes (Adsorption, Metal Removal, Biohydrogen Production, Dye Removal)

Cleaner Production Assessment (Waste Minimization, Energy Saving)

RECENT SELECTED PUBLICATIONS

(Publication).

Book

2006

Norhanom Abdul Wahab, Shaliza Ibrahim, Azizah Kassim and Md Yusoff Musa (eds.). 2006. Postgraduate Education: Trends and Future Directions: Institute of Postgraduate Studies (IPS)

2002

Idris, A., R. Abdul Raman, S. Ibrahim, M. R. Salim, G. Shaaban, Water Pollution Control , Master Course Module, The Malaysian University Consortium for Environment and Development (MUCED) Industry and Urban Areas, DANIDA project, Nov 2002


2000

B. SEN GUPTA AND S. IBRAHIM (EDS.) 2000 MIXING AND CRYSTALLIZATION APRIL KLUWER PUBLISHERS

Chapter In Book

2016

Kah Hon Leong, Lan Ching Sim, Saravanan Pichiah, and Shaliza Ibrahim Nanoscience in Food and Agriculture 3 Light Driven Nanomaterials for Removal of Agricultural Toxins.

 (file/publication/00002687_145662.pdf)

Article In Academic Journals

2017

Ms. Ref. No.: JBB-D-16-00344R2 Title: An anaerobic hybrid bioreactor of granular and immobilized biomass for anaerobic digestion (AD) and dark fermentation (DF) of palm oil mill effluent: Mass transfer evaluation in granular sludge and role of internal packing Biomass and Bioenergy (*ISI-Indexed*)

2016

Akbar Zinatizadeh, Shaliza Ibrahim, Nasrin Aghamohammadi, Abdul Rahman Mohamed, Hadis Zangeneh & Parviz Mohammadi Polyacrylamide induced coagulation process removing suspended solids from palm oil mill effluent Ali (*ISI-Indexed*)

Payam Moradi Birgani a, Navid Ranjbar a, Rosniah Che Abdullah a, Kien Tiek Wong ,Gooyong Lee a , Shaliza Ibrahim


<p>a, Chulhwan Park c, Yeomin Yoon d, Min Jang a, An efficient and economical treatment for batik textile wastewater containing high levels of silicate and organic pollutants using a sequential process of acidification, magnesium oxide, and palm shell based activated carbon application (<i>ISI-Indexed</i>)</p>
<p>Masoumeh Moayeri Kashani, Lai Sai Hin, Shaliza Binti Ibrahim, Nik Meriam Binti Nik Sulaiman, 2016. Design factors affecting the dynamic performance of soil suspension in an agitated, baffled tank, Chinese Journal of Chemical Engineering. Elsevier, ISSN: 1004-9541. http://dx.doi.org/10.1016/j.cjche.2016.07.011. (<i>ISI-Indexed</i>)</p>
<p>Baharak Sajjadi a, Perumal Asaithambi a, A.R. Abdul Aziz a, Shaliza Ibrahim b Mathematical analysis of the effects of operating conditions and rheological behaviour of reaction medium on biodiesel synthesis under ultrasound irradiation (<i>ISI-Indexed</i>)</p>
<p>Mohsen Vafaeifard, Gooyong Lee, Shatirah Akib, Shaliza Ibrahim, Yeomin Yoon & Min Jang Facile and economic one-pot synthesis of rigid functional-polyurethane for the effective treatment of heavy metal-contaminated urban storm water run-off (<i>ISI-Indexed</i>)</p>
<p>Kien Tiek Wong a, Nguk Chin Eu a, Shaliza Ibrahim a, Hyunook Kim b, Yeomin Yoon c, Min Jang a, d, *Recyclable magnetite-loaded palm shell-waste based activated carbon for the effective removal of methylene blue from aqueous solution (<i>ISI-Indexed</i>)</p>
<p>Masoumeh Moayeri Kashani, Lai Sai Hin, Shaliza Binti Ibrahim, Nik Meriam Binti Nik Sulaiman, Teo Fang Yenn, 2016. An investigation into the effects of particle texture, water content and parallel plates diameters on rheological behaviour of fine sediment, International Journal of Sediment Research, Elsevier, Volume 31(2), pp120-130, ISSN: 1001-6279. (<i>ISI-Indexed</i>)</p>
<p>Baharak Sajjadi, A.R. Abdul Aziz, Shaliza Ibrahim Mechanistic analysis of cavitation assisted transesterification on biodiesel characteristics (<i>ISI-Indexed</i>)</p>
<p>Masoumeh Moayeri Kashani, Lai Sai Hin, Shaliza Binti Ibrahim, Nik Meriam Binti Nik Sulaiman. 2016. Tracking the Hydrodynamic Behavior of Fine Sediment Using Particle Image Velocimetry, Environmental Earth Sciences. Springer, ISSN: 1866-6280 (Print), 1866-6299 (Online), Vol. 75(8), pp. 1-13, Doi:10.1007/s12665-015-5227-4 (<i>ISI-Indexed</i>)</p>
<p>Masoumeh Moayeri Kashani, Lai Sai Hin, Shaliza Binti Ibrahim, Nik Meriam Binti Nik Sulaiman, 2016. "A Study on Hydrodynamic Behavior of Fine Sediment in Retention Structure Using PIV", Water Environment Research. Ingentaconnect, ISSN 1061-4303, Online ISSN: 1554-7531, Volume 88(12), pp. 2309-2320(12) (<i>ISI-Indexed</i>)</p>
<p>Farahin Mohd Jais a, Shaliza Ibrahim a, Yeomin Yoon b, Min Jang Enhanced arsenate removal by lanthanum and nano magnetite composite incorporated palm shell waste based activated carbon (<i>ISI-Indexed</i>)</p>
<p>A.N Rosdi, Y.L. Kang, P. Monash, S. Ibrahim, P. Saravanan (2016) Preparation and Characterization of Zeolite Polymer Composite Proton Exchange Membrane. Desalination and Water Treatment, 57(1)13-21. (<i>ISI-Indexed</i>)</p>
<p>R.K. Ibrahim, M. Hayyan, M.A. AlSaadi, A. Hayyan, S. Ibrahim, Environmental application of nanotechnology: air, soil, and water. Environmental Science and Pollution Research, 23(14), 13754-13788, 2016. (<i>ISI-Indexed</i>)</p>
<p>2015</p>
<p>Lan Ching Sim, Kah Hon Leong, Pichiah Saravanan, Shaliza Ibrahim, Rapid thermal reduced graphene oxide/Pt TiO₂ nanotube arrays for enhanced visible-light-driven photocatalytic reduction of CO₂, Applied Surface Science, Volume 358, Part A, 15 December 2015, Pages 122-129, ISSN 0169-4332, http://dx.doi.org/10.1016/j.apsusc.2015.08.065. (<i>ISI-Indexed</i>)</p>
<p>Kah Hon Leong, Sze Ling Liu, Lan Ching Sim, Pichiah Saravanan, Min Jang, Shaliza Ibrahim, Surface reconstruction of titania with g-C₃N₄ and Ag for promoting efficient electrons migration and enhanced visible light photocatalysis, Applied Surface Science, Volume 358, Part A, 15 December 2015, Pages 370-376, ISSN 0169-4332, http://dx.doi.org/10.1016/j.apsusc.2015.06.184. (<i>ISI-Indexed</i>)</p>
<p>Kang Yee Li, Shaliza Ibrahim and Pichiah Saravanan (2015) Synergetic effect of conductive polymer poly(3,4-ethylenedioxythiophene) with different structural configuration of anode for microbial fuel cell application, Bioresource Technology, 189, 364-369. (<i>ISI-Indexed</i>)</p>
<p>Poh Leong Loo, Ving Ching Chong, Shaliza Ibrahim, Vikineswary Sabaratnam. 2015. Manipulating Culture Conditions and Feed Quality to Increase the Survival of Larval Marble Goby <i>Oxyeleotris marmorata</i>. North American Journal of Aquaculture Vol. 77, Iss. 2 (<i>ISI/SCOPUS Indexed Publication</i>)</p>

Loo, P. L., Chong, V. C., Vikineswary, S. and Ibrahim, S. .2015, Waste-grown phototrophic bacterium supports culture of the rotifer, *Brachionus rotundiformis*. *Aquaculture Research*. (ISI-Indexed)

2014

Azrina A.A, Yau, Y.H, Puma, G.L., Fischer.C.,Ibrahim,S., Saravanan,P., (2014)Highly Efficient Magnetically Separable TiO₂-Graphene Oxide Supported SrFe₂O₉ for Direct Sunlight-Driven Photoactivity. *Chemical Engineering Journal*.235(1),264- 274 (ISI/SCOPUS Indexed Publication)

Baharak Sajjadi, Abdul Aziz Abdul Raman, Saeid Baroutian, Shaliza Ibrahim & Raja Shazrin Shah Raja Ehsan Shah. 2014. 3D Simulation of fatty acid methyl ester production in a packed membrane reactor. *Fuel Processing Technology* 118: 7-19. (ISI-Indexed)

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L.C. Sim,K.H.Leong,S.Ibrahim, P. Saravanan(2014) Graphene oxide and Ag engulfed TiO₂ nanotube arrays for enhanced electrons mobility and visible-light- driven photocatalytic performance.*Journal of Materials Chemistry A*. 2(15), 5315 - 5322. (ISI/SCOPUS Indexed Publication)

Leong,K.H., Gana,B.L., Ibrahima,S.,Saravanan.P., (2014)Synthesis of Surface Plasmon Resonance (SPR) Triggered Ag/TiO₂ photocatalyst for degradation of Endocrine Disturbing Compounds, *Applied Surface Science*, 319,128 135. (ISI/SCOPUS Indexed Publication)

Kah Hon Leong, Bee Ling Gan, Shaliza Ibrahim, Pichiah Saravanan.2014.Synthesis of surface plasmon resonance (SPR) triggered Ag/TiO₂photocatalyst for degradation of endocrine disturbing compounds.*Applied Surface Science* 319 (2014) 128 135. (ISI-Indexed)

Mohammadi, P., et al., High-rate fermentative hydrogen production from palm oil mill effluent in an up-flow anaerobic sludge blanket-fixed film reactor. *Chem. Eng. Res. Des.* (2014), <http://dx.doi.org/10.1016/j.cherd.2014.04.023> (ISI-Indexed)

Hern, T. K., Hin, L. S., Ibrahim, S., Sulaiman, N. M. N., Sharifi, M., & Abe, S. (2014). Impact of Fine Sediment on TSS and Turbidity in Retention Structure. *Journal of Geoscience and Environment protection*, 2, 1-8. <http://dx.doi.org/10.4236/gep.2014.24001> (ISI-Indexed)

Kah Hon Leong, Purushothaman Monash, Shaliza Ibrahim , Pichiah Saravanan.2014.Solar photocatalytic activity of anatase TiO₂ nanocrystals synthesized by non- hydrolytic sol gel method.*Solar Energy* 101(2014) 321 332 (ISI-Indexed)

Lan Ching Sim, Kai Wern Ng, Shaliza Ibrahim, Pichiah Saravanan.2014. Synthesis, Features and Solar-Light- Driven Photocatalytic Activity of TiO₂ Nanotube Arrays Loaded with SnO₂.*Journal of Nanoscience and Nanotechnology* Vol. 14, 7001 7009, 2014.

Mingcan Cui, Min Jang, Shaliza Ibrahim, Beomguk Park, Eunju Cho, Jeehyeong Khim.2014.Arsenite removal using a pilot system of ultrasound and ultraviolet followed by microfiltration.*Ultrasonics Sonochemistry* 21 (2014) 1527 1534. (ISI-Indexed)


Lan Ching Sim, Kah Hon Leong, Shaliza Ibrahim, Pichiah Saravanan.2014.Graphene oxide and Ag engulfed TiO₂ nanotube arrays for enhanced electron mobility and visiblelight-driven photocatalytic performance .*J. Mater. Chem. A*, 2014, 2, 5315. (ISI-Indexed)

Ibrahim, S., et al., Influence of geometry and slurry properties on fine particles suspension at high loadings in a stirred vessel. *Chem. Eng. Res. Des.* (2014), <http://dx.doi.org/10.1016/j.cherd.2014.08.008> (ISI-Indexed)

2013


A.A. Aziz , G.L. Puma , S. Ibrahim, P. Saravanan (2013) Preparation, characterization and solar photoactivity of titania supported strontium ferrite nanocomposite photocatalyst. *Journal of Experimental Nanoscience*. Vol.8(3)295-310. (ISI/SCOPUS Indexed Publication)

Reza Afshar Ghotli , Abdul Aziz Abdul Raman , Shaliza Ibrahim & Saeid Baroutian. 2013. LLiquid-liquid Mixing in Stirred Vessels: A Review. *Chemical Engineering Communications* 200(5): 595-627. (ISI-Indexed)


 (file/publication/00003241_83632.pdf)

L.C.Sim, K.W. Ng, S.Ibrahim, P. Saravanan (2013)Preparation of improved p-n junction NiO/TiO₂ nanotubes for Solar-

Energy-Driven Light Photocatalysis. International Journal of Photoenergy. Volume 2013 (2013), Article ID 659013, 10 pages. (ISI/SCOPUS Indexed Publication)

 (file/publication/00011268_88322.pdf)


Baharak Sajjadi, Abdul Aziz Abdul Raman, Raja Shazrin Shah Raja Ehsan Shah et al. 2013. Review on Applicable Breakup/Coalescence Models in Turbulent Liquid-liquid Flows. Reviews in Chemical Engineering 29(3): 131-188. (ISI-Indexed)

 (file/publication/00003241_101104.pdf)


B. Sajjadi, A.R.A. Aziz, S. Baroutian, S. Ibrahim, Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation, Journal of Industrial and Engineering Chemistry (2013), <http://dx.doi.org/10.1016/j.jiec.2013.07.038>

Y.L. Kang, M.Y. Poon, P. Monash S. Ibrahim P. Saravanan (2013) Surface chemistry and adsorption mechanism of cadmium ion on activated carbon derived from Garcinia Mangostana shell. Korean Journal of Chemical Engineering. 30(10)1904-1910 (ISI/SCOPUS Indexed Publication)

Baharak Sajjadi, Abdul Aziz Abdul Raman, Saeid Baroutian & Shaliza Ibrahim. 2013. Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation. Journal of Industrial and Engineering Chemistry. (ISI-Indexed)

 (file/publication/00003241_101253.pdf)

Reza Afshar Ghotli, Abdul Aziz Abdul Raman, Shaliza Ibrahim, Saeid Baroutian & Arash Arami-Niya. 2013. Study of Various Curved-blade Impeller Geometries on Power Consumption in Stirred Vessel using Response Surface Methodology. Journal of the Taiwan Institute of Chemical Engineers 44(2): 192-201. (ISI-Indexed)

 (file/publication/00003241_101106.pdf)

Yap, P. S., Ibrahim, S., & Ang, K. B. (2013). TREATMENT OF RUBBER GLOVE WASTEWATER BY ULTRAFILTRATION. Malaysian Journal of Science, 32(1), 61-65.

2012


A.A. Azrina., C.K. Cheng., S. Ibrahim., M. Matheswaran b, P. Saravanan (2012) Visible Light Improved, Photocatalytic Activity of Magnetically Separable Titania Nanocomposite. Chemical Engineering Journal. 183, 349-356 (ISI/SCOPUS Indexed Publication)

Azrina A.A, Soon, Y.K., Ibrahim, S., Saravanan, P., (2012) Enhanced Magnetic Separation and Photocatalytic activity of Nitrogen doped Titania Photocatalyst supported on Strontium Ferrite. Journal of Hazardous Materials. 199-200, 143-150. (ISI-Indexed)

Parviz Mohammadi, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar, 2012. Effects of biomass, COD and bicarbonate concentrations on fermentative hydrogen production from POME by granulated sludge in a batch culture. Int Journal of Hydrogen Energy, in press (ISI-Indexed)

Parviz Mohammadi, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar, Comparative study on the effect of various pretreatment methods on the enrichment of hydrogen producing bacteria in anaerobic granulated sludge from brewery wastewater, Korean J. Chem. Eng., 29(10), 1347-1351 (2012) (ISI-Indexed)

Zadariana Jamil, Mohamad Suffian Mohamad Annuar, Shaliza Ibrahim, and S. Vikineswary (2012). Kinetic modeling of batch photofermentation hydrogen gas production by Rhodospseudomonas palustris PBUM001. Journal of Renewable and Sustainable Energy 4(4): 043105 (ISI-Indexed)


 (file/publication/00004426_83210.pdf)

Sequential nitrification and denitrification in a novel palm shell granular activated carbon twin-chamber upflow bio-electrochemical reactor for treating ammonium-rich wastewater Seyyedalireza Mousavi, Shaliza Ibrahim, Mohamed Kheireddine Aroua Bioresource Technology 125 (2012) 256-266 (ISI-Indexed)

Mousavi, S., Ibrahim, S., Aroua, M.K., Ghafari, S. Development of nitrate elimination by autohydrogenotrophic bacteria in bio-electrochemical reactors - A review (2012) Biochemical Engineering Journal, 67, pp. 251-264 (ISI-Indexed)

S. Ibrahim, S. N. Jasnin, S. D. Wong, and I. F. Baker. Zwietering's Equation for the Suspension of Porous Particles and the Use of Curved Blade Impellers. International Journal of Chemical Engineering, vol. 2012, Article ID 749760, 13 pages, 2012. doi:10.1155/2012/749760

Mohammadi, P., Ibrahim, S., Annuar, M.S.M., et al. (2012). Influences of Environmental and Operational Factors on Dark Fermentative Hydrogen Production: A Review. *Clean Soil, Air, Water* 2012, 40(11), 1297- 1305

Baharak Sajjadi, Abdul Aziz Abdul Raman, Shaliza Ibrahim et al. (2012). Review on Gas-liquid Mixing Analysis in Multiscale Stirred Vessel using CFD. *Reviews in Chemical Engineering* 28(2-3):73-189. *(ISI-Indexed)*
 (file/publication/00003241_95096.pdf)

2011

Long Wee, L., Annuar, M. S. M., Ibrahim, S., Chisti, Y. (2011). Enzyme-Mediated Production of Sugar from Sago Starch: Statistical Process Optimization. *Chemical Engineering Communication*. 198. 1339-1353.

Ismail, N.A., Annuar, M. S. M., Ibrahim, S. 2011. Dye Decolorization by Immobilized Laccase: Statistical Optimization and Effect of Impeller Geometry. *International Journal of Chemical Reactor Engineering*. A51(9).

Mousavi, S.A.R., Ibrahim, S., Aroua, M. K., Ghafari, S. 2010. Bio-electrochemical Denitrification - A Review. *International Journal of Chemical and Environmental Engineering*. Vol. 1, No. 1.

Mohammadi, P., Ibrahim, S., Annuar, M. S. M., Law, S. 2011. Effects of Different Pretreatment Methods on Anaerobic Mixed Microflora for Hydrogen Production and COD Reduction from Palm Oil Mill Effluent. *Journal of Cleaner Production*. 19. 1654-1658.

Ooi, C. W., Tan, C. P., Hii, S. L., Ariff, A., Ibrahim, S., Ling, T.C. 2011. Primary Recovery of Lipase Derived from *Burkholderia* sp. With Aqueous Micellar Two-Phase System. *Process Biochemistry*.

Lai Long Wee, Mohamad Suffian Bin Mohamad Annuar and Shaliza Ibrahim. 2011. Energetics of glucoamylase-catalyzed hydrolysis of commercial sago starch. *AsPac J. Mol. Biol. Biotechnol.* 2011 Vol. 19(4):117-120 *(ISI-Indexed)*

Jin Han, Mohd. Suffian Mohd. Annuar, Maryam Farhana Kamel Ariffin, Ahmad M. Gumel, Shaliza Ibrahim, Thorsten Heidelberg, Baki Bakar, Abu Bakar M.S Hossain and Yusrizam Sharifuddin (2011). Lipase-catalyzed synthesis of 6-O-D-glucosyldecanoate in tert-butanol: reaction optimization and effect of mixing power input. *Biotechnology & Biotechnological Equipment* 25 (4) 2642- 2651. *(ISI-Indexed)*

2010

Ibrahim, S and A.W. Nienow, 2010, The effect of viscosity on particle suspension in an aerated stirred vessel with different impellers and bases, *Chemical Engineering Communications*, 197, 434-454

Sulaiman, N.M., S. Ibrahim and S. Lim (2010). Membrane bioreactor for the treatment of natural rubber wastewater, *Int. Journal of Environmental Engineering*, 2, 92-109

2009

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2008

Redzwan, G., L. Lee, S. Ibrahim and S. Annuar, A Case study on bulking problems in paper recycling effluent treatment plant in Malaysia, *Asian J. of Water, Environment and Pollution*, 5, 2, 2008, pp. 13-18

Annuar, M.S.M., Tan I.K.P., Ibrahim, S. and Ramachandran, K.B. (2008) A Kinetic model for growth and biosynthesis of medium-chain-length poly-(3- hydroxyalkanoates) in *Pseudomonas putida*. *Brazilian Journal of Chemical Engineering* 25(2): 217-228 *(ISI-Indexed)*

Ghufran Redzwan, Lisa Lee Siew Ying, Shaliza Ibrahim and Suffian Annuar. 2008. A Case Study on Bulking Problems in Paper Recycling Effluent Treatment Plant in Malaysia. *Asian Journal of Water, Environment and Pollution*. 5(2): 13-18. (Q4. SCOPUS). *(SCOPUS-Indexed)*

2007

Annuar, M.S.M., I.K.P. Tan, S. Ibrahim, K.B. Ramachandran, Production of Medium-Chain-Length Poly (3-hydroxyalkanoates) from Crude Fatty Acids Mixture by *Pseudomonas putida*, *Trans IChemE, Part C: Food and Bioproducts Processing*, 85 (C2), June 2007, pp 104-119

C. Ong, S. Ibrahim and B. Sen Gupta, A survey of tap water quality in Kuala Lumpur, *Urban Water Journal*, 4, 1, 2007, pp 29-41

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2006

Annuar, M.S.M., Tan, I.K.P., Ibrahim, S. and Ramachandran, K.B., Production of Medium-Chain-Length Poly(3-Hydroxyalkanoates) from Saponified Palm Kernel Oil by *Pseudomonas putida*: Kinetics of Batch and Fed-Batch Fermentations, *Malaysian Journal of Microbiology*, 22, No 2, 2006, pp 1-9

Shaliza Ibrahim, S. Vikineswary, Sujjat Al-Azad and L.L. Chong, The Effects of Light Intensity, Inoculum Size and Cell Immobilization on the Treatment of Sago Effluent with *Rhodospseudomonas palustris* Strain B1, *Biotechnol. Bioprocess Eng*, 2006, 11, No 5, pp 377-381

Annuar, M.S.M., Tan I.K.P., Ibrahim, S. and Ramachandran, K.B., Ammonium Uptake and Growth Kinetics of *Pseudomonas putida* PGA1, *Asia Pacific Journal of Molecular Biology and Biotechnology*, 2006, 14, No 1, pp 1-10

Hashim Yaacob, Norhanom Abdul Wahab, Shaliza Ibrahim and Ramli Abdullah, Internationalization of Postgraduate Education: University of Malaya's Experience, *Postgraduate Education: Trends and Future Directions*, IPS, 2006

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2005

Sen Gupta, B., S. Chandrasekaran and S. Ibrahim, Technologies for sewer rehabilitation in Malaysia, *Trenchless Australasia*, June 2005, Issue 3, pp 19-21

2004

Ibrahim, S. and A.W. Nienow, Suspension of Microcarriers for Cell Culture with Axial Flow Impellers, *Transactions of the Institutions of Chemical Engineers (Trans IChemE), Part A: Chemical Engineering Research and Design*, Sept 2004, 82 (A9), pp 1082-1088

Chong, L.L., Shaliza Ibrahim and Vikineswary, S., Optimal Light Intensity for the Growth of *Rhodospseudomonas palustris* strain B1 for Application in Sago and Palm Oil Mill Effluents Treatment, *Water & Environmental Management Series (WEMS) Environmental Biotechnology: Advancement in Water and Wastewater Applications in the Tropics*, IWA Publishing, London, 2004, pp 283-290

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AREAS OF RESEARCH

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A Study of Ozonation For Water or Wastewater Treatment Using Venturi Injection, Principal Investigator(Pi), 2006-2007, Short Term Research Fund (Vote F)(Pjp)
Biohydrogen Production From Renewable Resources Using Indigenous Microorganisms, Co-Investigator, 2007-2010, Malaysian Genome Institute
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Development and Scale-Up of Bioprocesses, Co-Researcher, 2008,
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Evaluation of Impeller Mixing Performance of Food Manufacturing Processes For Small and Medium Industries in Malaysia, Co-Investigator, 2000-2004, Irpa
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High Flow Portable Filtration Unit (Hpfu), Principal Investigator(Pi), 27/10/2015, Ru Operation, 27/04/2017
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Mixing Dynamics in Gassed and Ungassed Solid- Liquid Systems in Relation to Chemical and Bio Reactor Operations, Principal Investigator(Pi), 2007-2009, Mosti
Mixing Studies of Multiphase Systems in Stirred Vessel Bioreactors For Design Optimization, Principal Investigator(Pi), 1996-1999, Irpa
Mixing in Bioreactor Design, Principal Investigator(Pi), 2008,
National Project On Bioplastics From Palm Oil, Co-Researcher, 2005-2006, Mosti
Natural Adsorbent Mechanisms For Pollutant Removal From Industrial Effluent, Principal Investigator(Pi), 2007-2009, Fundamental Research Grant Scheme (Frgs)
Pastuer'S Quadrant For Faculty Development: Exploring The Knowledge Base, Principal Investigator(Pi), 24/11/2016, Ru Geran, 23/11/2017
Preparation and Investigation of Metal Organic Framework Based Photocatalyst For Solar Driven and Environmental Application, Principal Investigator(Pi), 30/01/2016, Postgraduate Research Grant (Ppp) - Research, 30/01/2018
Preparation of High Surface Area Magnetically Separable Titanium Dioxide With Visible Light Property For Environmental Application, Co-Investigator, 2010-2012, Geran Penyelidikan Universiti Malaya (Umrp), National
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Rheological Characterization and Particle Image Velocimetry (Piv) Dynamic Flow Study of Persistent Organic Pollutants (Pops) Upon Advanced Oxidation Processes, Principal Investigator(Pi), 2013-2014, Geran Penyelidikan Universiti Malaya (Umrp), National
Scaling-Up of Wastewater Treatment With Phototrophic Bacteria, Co-Investigator, 2002-2003, Short Term Research Fund (Vote F)(Pjp)
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Sustainable Energy Production From Palm Oil Industry Waste Water Using Microbial Fuel Cell, Co-Investigator, 2011-2013, High Impact Research (Hir)
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CONSULTATION PROJECT/CONSULTANCY

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Development of Masters Degree Course Module for Water Pollution Control, Coordinator, 2002-2003, Malaysian University Consortium for Environment and Development
Development of Cleaner Production Assessment and Implementation Application System for Small and Medium Industries in Malaysia, Project Leader, 2003-2004, Environment Institute of Malaysia (EiMAS)
Development of Training Module on Air Pollution Control, Coordinator, 2004-2004, SIRIM
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Short Course on Mixing in the Process Industries, Consultant, 1999-1999, Universiti Malaya
Waste Audit for Sin Chiew Jit Poh Factory, Resource Person, 2005-2005, Sin Chiew Jit Poh
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Demonstration of CP implementation through CPVC, Consultant, 2009-2009, DOE
Development of Cleaner Production Virtual Centre (CPVC) for DOE, Project Leader, 2007-2008, Department of Environment DOE
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Cleaner Production (Cleaner Production Virtual Centre and Cleaner Production Tools), Project Leader, 2009-2010, Jabatan Alam Sekitar, Malaysia
Seminar on Cleaner Production: Towards Cleaner Malaysian Industries, Project Leader, 2011-2011, Jabatan Alam Sekitar
Seminar on Cleaner Production to Top Glove - Principles and Concepts, Consultant, 2013-2013, TOP GLOVE SDN BHD
Mixing studies in stirred vessels using conventional impellers and SATAKE Supermix impellers, Consultant, 2014-2014, SATAKE CHEMICAL EQUIPMENT MFG. LTD.
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AWARDS AND RECOGNITIONS

(Name of Award), (Awarding Institution), (Year Awarded), (Level).

Pelantikan Sebagai Jawatankuasa Penilai Pengkormersialan Universiti Malaya, Pejabat Timbalan Naib Canselor(P&I), Um, 2016, (University)
Pelantikan Sebagai Ahli Jawatankuasa Bidang Prasarana Akademik Dan Penyelidikan Bagi Pembangunan Garis Panduan Kesepunyaan Dan Keserakanan Ipt, Jabatan Pendidikan Tinggi, 2016, (Government)
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Perlantikan Sebagai Panel Temuduga Program Hadiah Latihan Persekutuan Dan Cuti Belajar Bergaji Penuh Tanpa Biasiswa Jabatan Perkhidmatan Awam Sesi 2015, Jabatan Perkhidmatan Awam, 2014, (National)
Certificate of Appreciation For Fund Raising Charity Gala Dinner, Pusat Perubatan Universiti and University Women Association, 2014, (International)
Certificate of Excellent Service, 2013
Certificate of Excellent Service, 2007
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Exhibition of Technology, Inventions & Products 2005, 2005, (International)
Bronze Medal, Expo Penyelidikan, Rekacipta Dan Inovasi Um 2005, University of Malaya, 2005, (University)
Silver Medal, Science , Technology and Innovation Expo 2004 / Invention and Innovation Competition, Ministry of Science, Technology and Innovation (Mosti) and Malaysian Association of Research Scientists, 2005, (International)
First Recipient, Inaugural High Commissioner S Award For Academic Excellence, Malaysian High Commission, London, 1991, (International)
Winner, Mixing Research Students Competition, UK, Institution of Chemical Engineers (Icheme) Uk, Fluid Mixing Subject Group, 1991, (International)
Distinguished Student Award, College of Engineering, Texas a&M University, Usa, 1985, (International)
The National Dean S List, Award of Merit, The National Dean S List, Usa, 1985, (International)
Dean S Honor List, College of Engineering, Texas a&M University, Usa, 1984, (International)
The National Dean S List, Award of Merit, The National Dean S List, Usa, 1984, (International)
Dean'S Honor List, College of Engineering, Texas a&M University, Usa, 1983, (International)
Dean'S Honor List, College of Engineering, Texas a&M University, Usa, 1982, (International)
Govt of Malaysia Scholarship, Public Services Dept, 1981, (National)

PRESENTATIONS

(Title), (Event), (Date Presented), (Organiser), (Level).

Pleanary/keynote Speaker

NANO-TECHNOLOGIES AND RESEARCH AT THE UNIVESITY OF MALAYA, IEEC2016 : INTERNATIONAL ENVIRONMENTAL ENGINEERING CONFERENCE, 16 Nov 2016 to 18 Nov 2016, KOREAN SOCIETY OF ENVIRONEMENTAL ENGINEERS, (International)

Invited Seminar

2014 KISTEP-ISTIC S&T innovation training program for high level policy makers: "P.I.E. (planning, investment, evaluation) framework and government policy in S&T", international science, technology ang innovation centre for south-sourth cooperation under the auspices of unesco and Korean institute of S&T evaluation and planning 2014 KISTEP-ISTIC S&T, 08 Dec 2014 to 12 Dec 2014, (International)

Poster

Effect of Operating Conditions on Mixing Time in Stirred Tank Reactors, International Symposium on Mixing in Industrial Processes (ISMIP)8, 15 Sep 2014 to 17 Sep 2014, CSIRO and RMIT, (International)

Presenter

Dished-base tank as an alternative geometry for solid-liquid suspension, International Symposium on Mixing in Industrial Processes (ISMIP)8, 17 Sep 2014 to 17 Sep 2014, RMIT & CSIRO, (International)

Geometric Effects on Solids Suspension Characteristics for a Range of Particle Size and Concentration, 4th Asian Conference on Mixing, 10 Sep 2013 to 13 Sep 2013, Beijing University of Chemical Technology, (International)

A study of solid-liquid suspension in stirred tank using novel impeller geometries, 23rd North American Mixing Forum, 17 Jun 2012 to 23 Jun 2012, (International)

Effects of Curved-Blade Impeller Characteristics on Gas-Liquid Mass Transfer Coefficient, 2nd Asian Conference on Mixing, 07 Oct 2008 to 09 Oct 2008
Mixing Research and Practices in Malaysia, 2nd Asian Conference on Mixing, 07 Oct 2008 to 09 Oct 2008
Phototrophic Bacteria as Live Feed Enhancer for Aquaculture, Innovation and Technologies in Oceanography for Sustainable Development (ITOS) 2005, 26 Sep 2005 to 29 Sep 2005, University of Malaya, MOSTI
Natural Rubber Wastewater Treatment Using Membrane Bioreactor (MBR), 3rd regional Symposium on Membrane Science & Technology 2005, 29 Apr 2005 to 27 Apr 2005, Institut Teknologi Bandung, National University of Singapore
Mass Transfer Studies on Various Curved Blade Impeller Designs for Gas-Liquid-Solid Systems, Regional Symposium on Chemical Engineering (RSCE) 2004, 01 Dec 2004 to 03 Dec 2004
Rice Husk as Adsorbent for Heavy Metals, Asia Water 2004, 30 Mar 2004 to 31 Mar 2004
Environmental Engineering at the University of Malaya, AESEAP Mid-Term Conference 2004, 01 Mar 2004, The University of Auckland Engineering School

Others

-, 4th Asian Conference on Mixing, 12 Sep 2013, (International)

SUPERVISION**Post Graduate Level**

(Name of Degree), (Name of Candidates), (Title of Thesis), (Academic Session)

Others
Masters Degree, Zulaikha Paidi, A Study of <i>Baccaurea motleyana</i> hook f. Fruit Extract as a Potential Source of AHA in Moisturiser
Masters Degree, Syed Fatimah Kamal Batcha, Studies on the pollution parameters of leachate from Ampang landfill
Masters Degree, Shamini Chandrasekaran, Property Connections for Sewerage Systems
Masters Degree, Palanisamy Ramasamy, Studies on Solid Waste Management in an Acetylene Producing Plant
Masters Degree, Maheswari Satapphan, Optimization of Growth and Immobilization of <i>Rhodopseudomonas palustris</i> Strain B1 for the utilization of sago starch processing waste water
Masters Degree, Lisa Lee Ryan, Reduction of Filamentous Bulking During the Treatment of Pulp and Paper Industry Effluent
Masters Degree, Isita Sen Gupta, Production of 2,3-Butanediol from Molasses
Masters Degree, Harsha Fifadara, Heavy Metal Distribution in Soil Environment Around Landfill
Masters Degree, Christine Ong, Quality of Tap Water in 20 Selected Areas in Selangor
Masters Degree, Abdul Aziz Abdul Raman, Suspension characteristics in three phase stirred vessel

Completed

Doctoral Degree (PhD), Masoumeh Moayerikashani, HYDRODYNAMIC BEHAVIOURS OF FINE SEDIMENT IN RETENTION STRUCTURE USING PARTICLE IMAGE VELOCIMETRY, 2012/2013

Masters Degree, Nur Atiqah Binti Ismail, EFFECT OF SELECTED PHYSICAL AND CHEMICAL PARAMETERS ON CRYSTAL VIOLET DECOLORIZATION BY IMMOBILIZED LACCASE, 2008/2009
Masters Degree, Wong Kien Tiek, Functionalized Magnetic Palm Based Powdered Activated Carbon for the Effective Removal of Organic Pollutants, 2014/2015
Doctoral Degree (PhD), Kang Yee Li, ENHANCEMENT OF MICROBIAL FUEL CELL ANODE THROUGH FUNCTIONALIZATION OF CONDUCTIVE POLYMER, 2011/2012
Doctoral Degree (PhD), Masoumeh Moayerikashani, HYDRODYNAMIC BEHAVIOURS OF FINE SEDIMENT IN RETENTION STRUCTURE USING PARTICLE IMAGE VELOCIMETRY, 2012/2013
Doctoral Degree (PhD), Parviz Mohammadi, BIOHYDROGEN PRODUCTION FROM PALM OIL MILL EFFLUENT (POME) IN AN ANAEROBIC HYBRID BIOREACTOR, 2008/2009
Masters Degree, Liza Ferina, Optimization of Aqueous Remazol Blue R Decolorization by Trametes Sp. Pellets in Fluidized Bed Biological Reactor, 2008/2009
Doctoral Degree (PhD), Azrina Binti Abd Aziz, Development and Application of Improved Solar Driven Composite Nano Photocatalysts with Enhanced Recovery for the Removal of Organic Pollutants, 2010/2011
Doctoral Degree (PhD), Seyyedaliraza Mousavi, Development of a Novel Twin Chamber Up Flow Bioelectrochemical Reactor for Sequential Nitrification and Denitrification, 2010/2011
Masters Degree, Wong Siau Dhing, Suspension of concentrated fine particles with novel axial and radial impellers, 2010/2011
Doctoral Degree (PhD), Irwan Taslapratama, Hazardous Waste Management/ Solidification and Stabilization of Wastewater Sludge from Selected Manufacturing Plants, 2006/2007
Doctoral Degree (PhD), Abdul Aziz Abdul Raman, Hydrodynamics and Mass Transfer Characteristics of Curved Blade Impellers for Multiphase Mixing in Stirred Vessels, 2006/2007
Masters Degree, Shi Chee Wei, Biohydrogen production from palm oil mill effluent as substrate by R.palustris PBUM 001, 2007/2008
Masters Degree, Leong Wai Yee, Factors affecting water quality in the distribution system, 2007/2008
Ongoing
Doctoral Degree (PhD), Bidattul Syirat Zainal, HIGH-RATE BIOLOGICAL HYDROGEN AND METHANE PRODUCTION FROM POME IN A TWO-STAGE ANAEROBIC HYBRID REACTOR, 2015/2016
Doctoral Degree (PhD), Mohsen Vafaei Fard, EFFECTIVE REMOVAL OF HEAVY METAL IONS FROM WATER BY POLYURETHANE (PU) IMMOBILIZED NANOMATERIALS (CALCIUM CARBONATE), 2014/2015
Doctoral Degree (PhD), Bidattul Syirat Zainal, HIGH-RATE BIOLOGICAL HYDROGEN AND METHANE PRODUCTION FROM POME IN A TWO-STAGE ANAEROBIC HYBRID REACTOR, 2015/2016
Doctoral Degree (PhD), Mohsen Vafaei Fard, EFFECTIVE REMOVAL OF HEAVY METAL IONS FROM WATER BY POLYURETHANE (PU) IMMOBILIZED NANOMATERIALS (CALCIUM CARBONATE), 2014/2015
Masters Degree, Haslina Abdullah, Optimization of water treatment plant through improved technology and management approach, 2012/2013
Doctoral Degree (PhD), Budhi Primasari, Wastewater Treatment and Alternative fuel production, 2007/2008
Masters Degree, Zadariana Jamil, Biohydrogen production from palm oil mill effluent as substrate by R.palustris PBUM 001, 2007/2008

INTELLECTUAL PROPERTY RIGHTS

(Product Name), (Type), (Reference), (Year), (Level).

TWIN CHAMBER UPFLOW BIO-ELECTROCHEMICAL REACTOR, Patent, 2013, (National)

Up-Flow Anaerobic Sludge Blanket Fixed Film Bioreactor, Patent, 2013, (National)

TEACHING

(Course Title), (Academic Session), (No of Student), (No of Contact Hours).

Post Graduate

REACTOR DESIGN AND UNIT OPERATIONS FOR BIOLOGICAL SYSTEMS, 2008/2009(1), 48, 15

EVALUATION ACTIVITIES

(Description), (Evaluation Activity),(Year).

Paper reviewer for the manuscript "clen.201200539: Environmental and economic impact of global petroleum operations" for CLEAN - Soil, Air, Water (A Journal of Sustainability and Environmental Safety), Article In Journal , (2012-2012)

Degradation of p-Nitrophenol in a BES-Fenton system based on limonite, Article In Journal , (2013-2013)

Characteristics of Biohydrogen Fermentation from Various Substrates, Article In Journal , (2013-2013)

Effect of Hydrotopes on Solubility and Mass Transfer Coefficient of Organic Solute, Thesis , (2013-2013)

Solid-liquid mass transfer in agitated vessels with high solids concentration, Thesis , (2013-2013)

Porosity changes during packed bed solid-state fermentation, Article In Journal , (2013-2013)

Determining and comparing the levels of heavy metal concentrations in two selected urban river water, Article In Journal , (2013-2013)

Intensified processes for FAME production from waste cooking oil: a technological review, Article In Journal , (2013-2013)

60 abstracts and these have demonstrated strong international interest for the meeting, with 20 from Asia, 17 from Europe and 5 from North America., Abstracts , (2016-2016)

CONTRIBUTION TO SOCIETY

(Contribution To Society), (Level), (Start Date), (End Date).

Perlantikan sebagai panel temuduga program hadiah latihan persekutuan dan cuti belajar bergaji penuh tanpa biasiswa jabatan perkhidmatan awam sesi 2015, (Government), 2014-01-03 until 2014-01-07

perlantikan sebagai ahli jawatan kuasa penerbitan (PUBLICATION) lembaga jurutera Malaysia 2014-2015, (Government), 2014-01-01 until 2015-01-01

Persatuan Wanita Universiti, (Community), 2014-08-02 until 2015-08-02