

CURRICULUM VITAE



| A. BUTIR-BUTIR PERIBADI (Personal Details) | | | |
|---|------------------------------|---------------------------------|---------------------|
| Nama Penuh (Full Name) | | Gelaran (Title): | |
| MOHAMAD FAIZAL IBRAHIM | | Dr. | |
| No. MyKad / No. Pasport (Mykad No. / Passport No.) | Warganegara (Citizenship) | Bangsa (Race) | Jantina (Gender) |
| 850523-08-6079 | MALAYSIAN | MALAY | MALE |
| Jawatan (Designation) | | Tarikh Lahir (Date of Birth) | |
| SENIOR LECTURER | | 23 rd MAY 1985 | |

| Alamat Semasa (Current Address) | Jabatan/Fakulti (Department/Faculty) | E-mel dan URL (E-mail Address and URL) |
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| NO. 76, JALAN TPS 2/23. TAMAN PELANGI SEMENYIH 2 (RAFFLESIA), 43500 SEMENYIH, SELANGOR, MALAYSIA Tel (H/P): 6012-487 5248 | DEPARTMENT OF BIOPROCESS TECHNOLOGY FACULTY OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES UNIVERSITI PUTRA MALAYSIA Tel: 03-8947 1936 Fax: 03-8947 1184 | E-mail: faizal_ibrahim@upm.edu.my mfi.upm@gmail.com URL: http://profile.upm.edu.my/faizal_ibrahim/en.html |

| B. KELAYAKAN AKADEMIK (Academic Qualification) | | | |
|--|--|--------------------------|---|
| Nama Sijil / Kelayakan (Certificate / Qualification obtained) | Nama Sekolah Institusi (Name of School / Institution) | Tahun (Year obtained) | Bidang pengkhususan (Area of Specialization) |
| DOCTOR OF PHILOSOPHY | UNIVERSITI PUTRA MALAYSIA | 2013 | ENVIRONMENTAL BIOTECHNOLOGY |
| BACHELOR OF SCIENCE | UNIVERSITI PUTRA MALAYSIA | 2009 | BIOTECHNOLOGY |
| DIPLOMA OF SCIENCE | UNIVERSITI TEKNOLOGI MARA | 2006 | BIOLOGY |

| C. KEMAHIRAN BAHASA (Language Proficiency) | | | | | |
|--|----------------------|------------------------------|---------------------|-------------------------------|-------------------------------|
| Bahasa (Language) | Lemah Poor (1) | Sederhana Moderate (2) | Baik Good (3) | Amat Baik Very good (4) | Cemerlang Excellent (5) |
| English | | | | √ | |
| Bahasa Melayu | | | | | √ |

| D. PEKERJAAN (<i>Employment</i>) | | | | |
|--|---------------------------------|---|--|-------------------------------------|
| Majikan / <i>Employer</i> | Jawatan / <i>Designation</i> | Jabatan / <i>Department</i> | Tarikh lantikan / <i>Start Date</i> | Tarikh tamat / <i>Date Ended</i> |
| UNIVERSITI PUTRA MALAYSIA | SENIOR LECTURER | Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences | 05 DECEMBER 2015 | TO DATE |
| KOREA UNIVERSITY | RESEARCH PROFESSOR ATTACHMENT | Department of Chemical and Biological Engineering | 1 MARCH 2016 | 28 FEBRUARY 2017 |
| UNIVERSITI PUTRA MALAYSIA | TEACHING ASSISTANT | Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences | 01 JUNE 2015 | 04 DECEMBER 2015 |

| E. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and Specialisation</i>) | | | |
|--|-----------|------------------|---|
| No | Year | Role | Information |
| 1. | 2016 | Journal Reviewer | Renewable Energy |
| 2. | 2016 | Journal Reviewer | Makara Journal of Technology (MJT) |
| 3. | 2016-2018 | Auditor | Asian Federation of Biotechnology – Malaysia Chapter (AFOB-MC) |
| 4. | 2015 | Journal Reviewer | Journal of Ecology and The Natural Environment |
| 5. | 2015 | Panel | Student Assessment Centre (SAC) for Master Students, JPA, Malaysia |
| 6. | 2015 | Panel | Student Assessment Centre (SAC) for Undergraduate Students, JPA, Malaysia |
| 7. | 2015 | Journal Reviewer | Fermentation Technology |
| 8. | 2014 | Judge | IIUM Research, Invention and Innovation Exhibition 2014 (IRIIE2014) |
| 9. | 2013 | Journal Reviewer | Biotechnology Progress |
| 10. | 2013 | Journal Reviewer | Journal of Bioremediation & Biodegradation |
| 11. | 2013 | Journal Reviewer | Journal of Biotechnology & Biomaterials |
| 12. | 2013 | Journal Reviewer | Journal of Agricultural Economics and Development |

| F. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>) | | | | |
|--|---|--|------------|-----------|
| Name of awards | Title | Award Authority | Award Type | Year |
| <i>Fellowship</i> | SKPD Scholarship | Ministry of Higher Education, Malaysia | National | 2016-2017 |
| <i>Academic Awards</i> | Gold Medal, Malaysia Innovation Expo 2013 (MIExpo 2013) | Universiti Putra Malaysia | National | 2013 |
| | Grand Prize, | Faculty of | Faculty | 2013 |

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| | Biotech's 3MT Thesis Competition | Biotechnology and Biomolecular Sciences, UPM | | |
| | Grand Prize, Shell Intervarsity Paper Presentation Contest (S-SPEC 2011) | Universiti Teknologi Malaysia and Shell | International | 2011 |
| | National Science Fellowship (NSF) | MOSTI | National | 2009 |
| Non-Academic Awards | Anugerah Naib Caselor (ANC-10) | Universiti Putra Malaysia | University | 2009 |
| | Anugerah Seri Perdana | Kolej Kedua | College | 2009 |

G. SENARAI PENERBITAN

(List of publications)

| Journal | No | Year | Journal Information | Impact Factor |
|---------|----|------|---|---------------|
| | 1. | 2016 | Abd-Aziz, Suraini, and Mohamad Faizal Ibrahim (2016). ACB2015: Biotechnology and bioeconomy for sustainable future. <i>Biotechnology journal</i> , 11(6), 729-731. | 3.781 |
| | 2. | 2016 | Masran, Ruqayyah, Zuraidah Zanirun, Ezyana Kamal Bahrin, Mohamad Faizal Ibrahim , Phang Lai Yee, and Suraini Abd-Aziz (2016). Harnessing the potential of ligninolytic enzymes for lignocellulosic biomass pretreatment. <i>Applied microbiology and biotechnology</i> , 100(12), 5231-5246. | 3.376 |
| | 3. | 2015 | Mohamad Faizal Ibrahim , Siren Linggang, Mohd Azwan Jenol, Phang Lai Yee, Suraini Abd-Aziz (2015). Effect of buffering system on acetone-butanol-ethanol fermentation by <i>Clostridium acetobutylicum</i> atcc 824 using pretreated oil palm empty fruit bunch. <i>BioResources</i> , 10(3), 3890-3907 | 1.425 |
| | 4. | 2015 | Mohamad Faizal Ibrahim , Suraini Abd-Aziz, Mohd Ezreeza Mohamed Yusoff, Lai Yee Phang, Mohd Ali Hassan (2015). Simultaneous enzymatic saccharification and ABE fermentation using pretreated oil palm empty fruit bunch as substrate to produce butanol and hydrogen as biofuel. <i>Renewable Energy</i> , 77:447-455. | 3.476 |
| | 5. | 2014 | Mohd Azwan Jenol, Mohamad Faizal Ibrahim , Phang Lai Yee, Madihah Md Salleh, Suraini Abd-Aziz (2014). Sago biomass as a sustainable source for biohydrogen production by <i>Clostridium butyricum</i> A1. <i>BioResources</i> 9 (1): 1007-1026. | 1.425 |
| | 6. | 2013 | Mohamad Faizal Ibrahim , Mohamad Nafis Abdul Razak, Phang Lai-Yee, Mohd Ali Hassan and Suraini Abd-Aziz. Crude cellulase from oil palm empty fruit bunch by <i>Trichoderma asperellum</i> UPM1 and <i>Aspergillus fumigatus</i> UPM2 for fermentable sugars production. <i>Applied Biochemistry and Biotechnology</i> , 170:1320-1335. | 1.735 |
| | 7. | 2013 | Mohamad Nafis Abdul Razak, Mohamad Faizal Ibrahim , Phang Lai Yee, Mohd Ali Hassan, and Suarini Abd-Aziz (2013). Statistical Optimization | 1.425 |

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| | | of Biobutanol Production From Oil Palm Decanter Cake Hydrolysate by <i>Clostridium acetobutylicum</i> ATCC 824. <i>BioResources</i> 8(2), 1758–1770. | |
| 8. | 2012 | Mohamad Faizal Ibrahim , Suraini Abd–Aziz, Mohamad Nafis Abdul Razak, Lai Yee Phang and Mohd Ali Hassan (2012). Oil Palm Empty Fruit Bunch as Alternative Substrate for Acetone–Butanol–Ethanol Production by <i>Clostridium butyricum</i> EB6. <i>Applied Biochemistry and Biotechnology</i> , 166 (7), 1615–1625. | 1.735 |
| 9. | 2012 | Ezyana Kamal Bahrin, Azhari Samsu Baharuddin, Mohamad Faizal Ibrahim , Mohamad Nafis Abdul Razak, Alawi Sulaiman, Suraini Abd–Aziz, Mohd Ali Hassan, Yoshihito Shirai and Haruo Nishida (2012). Physopchemical Property Changes and Enzymatic Hydrolysis of Oil Palm Empty Fruit Bunches Treated with Superheated Steam. <i>BioResources</i> , 7(2), 1784–1801. | 1.425 |
| 10. | 2012 | Mohamad Nafis Abdul Razak, Mohamad Faizal Ibrahim , Suraini Abd–Aziz, Phang Lai Yee and Mohd Ali Hassan (2012). Utilization of oil palm decanter cake for cellulase and polyoses production. <i>Biotechnology and Bioprocess Engineering</i> , 17:547–555. | 1.113 |
| 11. | 2012 | Ezyana Kamal Bahrin, Mohamad Faizal Ibrahim , Mohamad Nafis Abd Razak, M. Md Salleh , Umi Kalsom Md. Shah, N. Alitheen and Suraini Abd–Aziz (2012). Improved cellulase production by <i>Botryosphaeria rhodina</i> from OPEFB at low level of moisture condition through statistical optimization. <i>Preparative Biochemistry and Biotechnology</i> , 42 (2): 155 –170. | 0.466 |
| 12. | 2010 | Alawi Sulaiman, Mohd Zulkhairi Mohd Yusoff, Mohamad Faizal Ibrahim , Mohd Ali Hassan and Yoshihito Shirai (2010). Accelerated Start–up of a Semi–commercial Digester Tank Treating Palm Oil Mill Effluent with Sludge Seeding for Methane Production. <i>World Applied Sciences Journal</i> , 8(2), 247–258. | Cited |

h–index: 5
Citations: 90

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|--------------------|-----------|-------------|---|
| <i>Patents</i> | No | Year | Patent Information |
| | 1. | 2011 | Suraini Abd–Aziz, Mohd Ali Hassan, Mohd Sukri Ismail, Razali Sarbini, Mohamad Faizal Ibrahim , Mohamad Nafis Abdul Razak, Nurul Kartini Abu Bakar, Phang Lai Yee (2011). Crude Cellulase Cocktail for Lignocellulosic Material Degradation. Patent Pending: PI2011002674. |
| <i>Proceedings</i> | No | Year | Proceeding Information |
| | 1. | 2014 | Nur Atheera Aiza Binti Md Razali, Mohamad Faizal Ibrahim and Suraini Abd Aziz (2014). Optimization of simultaneous cellulosic biobutanol production using Oil Palm Empty Fruit Bunch. <i>2nd International Symposium on Applied Engineering and Sciences (SAES2014)</i> . Kyushu |

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| | | Institute of Technology (Kyutech), Japan. |
| 2. | 2014 | Mohamad Faizal Ibrahim , Suraini Abd Aziz, Mohd Ali Hassan and Phang Lai Yee (2014). Co-production of biobutanol and biohydrogen from pretreated oil palm empty fruit bunch through simultaneous saccharification and fermentation. <i>2nd International Symposium on Applied Engineering and Sciences (SAES2014)</i> . Kyushu Institute of Technology (Kyutech), Japan. |
| 3. | 2014 | Mohamad Faizal Ibrahim , Suraini Abd Aziz, Mohd Ali Hassan and Phang Lai Yee (2014). Biofuels production through simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>AFOB Bioenergy and Biorefinery Division Annual Meeting and Bioenergy and Biorefinery Summit 2014</i> , Jinan, China. |
| 4. | 2014 | Suraini Abd Aziz and Mohamad Faizal Ibrahim (2014). General overview on biofuels from lignocellulosic biomass in Malaysia. <i>AFOB Bioenergy and Biorefinery Division Annual Meeting and Bioenergy and Biorefinery Summit 2014</i> , Jinan, China. |
| 5. | 2014 | Suraini Abd-Aziz, Mohamad Faizal Ibrahim , Ezyana Kamal Bahrin, Nur Atheera Aiza Md Razali, Sutthapa Sithornkul and Natrapee Savetsila (2014). Simultaneous biobutanol production using oil palm empty fruit bunch and sago pitch residues as substrate. <i>The 8th Korean-ASEAN Joint Symposium on Biomass Utilization and Renewable Energy 2014</i> , Seoul, Korea. |
| 6. | 2014 | Mohd Azwan Jenol, Mohamad Faizal Ibrahim , Phang Lai Yee, Madiah Md Salleh and Suraini Abd-Aziz (2014). Biohydrogen production from sago biomass by <i>Clostridium butyricum</i> A1. <i>AFOB Regional Symposium 2014</i> , Kuala Lumpur, Malaysia. PB044, pp. 111. |
| 7. | 2014 | Mohd Ezreeza Mohamed Yusoff, Mohamad Faizal Ibrahim and Suraini Abd-Aziz (2014). Characterization of activated carbon from oil palm decanter cake by two-step physical activation process. <i>AFOB Regional Symposium 2014</i> , Kuala Lumpur, Malaysia. PB055, pp. 122. |
| 8. | 2014 | Mohd Sukri Ismail, Razali Sarbini, Mohd Azwan Jenol, Mohamad Faizal Ibrahim , Suraini Abd-Aziz, Mohd Ali Hassan and Phang Lai Yee (2014). Crude cellulases cocktail for lignocellulosic materials degradation. <i>AFOB Regional Symposium 2014</i> , Kuala Lumpur, Malaysia. EX001, pp. 163. |
| 9. | 2013 | Suraini Abd-Aziz, Mohamad Faizal Ibrahim , Phang Lai Yee, Mohd Ali Hassan (2013). Simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>International Symposium of Applied Engineering and Sciences</i> , Universiti Putra Malaysia, Serdang, Malaysia. |
| 10. | 2012 | Mohamad Faizal Ibrahim , Phang Lai Yee, Mohd Ali Hassan and Suraini Abd-Aziz (2012). Biobutanol from oil palm empty fruit bunch as renewable biofuel. <i>24th Annual Meeting of The Thai Society for Biotechnology, International Conference in Green Biotechnology: Renewable and Energy Care</i> , Ubon Ratchathani, Thailand. O-V-11, pp. 35. |

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| | 11. | 2012 | Suraini Abd-Aziz, Mohamad Faizal Ibrahim , Phang Lai Yee, Mohd Ali Hassan (2012). General overview on biomass utilisation in Malaysia. <i>17th Conference on Biochemical Engineering</i> , Taiwan, China. pp.15. ISBN: 978-986-147-541-7. |
| | 12. | 2012 | Mohamad Faizal Ibrahim , Mohamad Nafis Abdul Razak, Phang Lai Yee, Mohd Ali Hassan, Suraini Abd-Aziz (2012). Crude enzymes cocktail using lignocellulosic biomass for biofuels production. <i>5th International Biotechnology Symposium</i> , Daegu, Korea. |
| | 13. | 2011 | Mohamad Faizal Ibrahim (2011). Biobutanol as an alternative energy in developing low carbon economy for Malaysia. <i>Shell Inter-Varsity Paper Presentation Contest</i> . Universiti Teknologi Malaysia, Skudai, Johor. |

H. KEHADIRAN KONFERENS, SEMINAR DAN BENGKEL

(Attended Conference, Seminar and Workshop)

| No | Year | Role | Level | Conference, Seminar and Workshop Information |
|-----|------|-------------------|---------------|---|
| 1. | 2016 | Chairman | International | <i>2nd Sejong University – UPM Biotechnology Joint Symposium</i> , Sejong University, Korea. April 2016 |
| 2. | 2015 | Speaker | International | <i>International Conference on Knowledge Transfer 2015 (ICKT 2015)</i> , Putrajaya, Malaysia. December 2015 |
| 3. | 2015 | Secretary General | International | <i>Asian Congress on Biotechnology 2015 (ACB2015)</i> , Kuala Lumpur, Malaysia. November 2015. |
| 4. | 2015 | Speaker | University | Biofuels production through simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>Biotech Mini Symposium 2015</i> , Universiti Putra Malaysia, Malaysia. |
| 5. | 2015 | Speaker | International | Biofuels production through simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>6th AFOB Regional Symposium</i> . Universitas Indonesia, Indonesia. |
| 6. | 2014 | Speaker | International | Co-production of biobutanol and biohydrogen from pretreated oil palm empty fruit bunch through simultaneous saccharification and fermentation. <i>2nd International Symposium on Applied Engineering and Sciences (SAES2014)</i> . Kyushu Institute of Technology (Kyutech), Japan. |
| 7. | 2014 | Speaker | International | Biofuels production through simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>AFOB Bioenergy and Biorefinery Division Annual Meeting and Bioenergy and Biorefinery Summit 2014</i> , Jinan, China. August 24-27, 2014. |
| 8. | 2014 | Secretary General | International | <i>AFOB Regional Symposium 2014</i> , Kuala Lumpur, Malaysia. February 9-11, 2014 |
| 9. | 2013 | Speaker | International | Simultaneous acetone-butanol-ethanol fermentation using oil palm empty fruit bunch as substrate. <i>International Symposium of Applied Engineering and Sciences</i> , Universiti Putra Malaysia, Serdang, Malaysia. September 30–October 1, 2013. |
| 10. | 2012 | Speaker | International | Biobutanol from oil palm empty fruit bunch as renewable biofuel. <i>24th Annual Meeting of The Thai Society for Biotechnology, International Conference in Green Biotechnology: Renewable and Energy Care</i> , Ubon Ratchathani, Thailand. November 29–30, 2012. |
| 11. | 2012 | Participant | National | <i>Workshop on Scanning Electron Microscopy of</i> |

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| | | | | <i>Biomaterials</i> . Advanced Materials Research Centre (AMREC), SIRIM Bhd, Kulim, Kedah. May 22–23, 2012. |
| 12. | 2011 | Poster Presenter | International | Biobutanol as an alternative energy in developing low carbon economy for Malaysia. <i>Shell Inter-Varsity Paper Presentation Contest</i> . Universiti Teknologi Malaysia, Skudai, Johor. April 2–4, 2011. |
| 13. | 2011 | Participant | National | <i>Workshop on Artificial Neural Network with Matlab Applications and Industrial Case Studies</i> . Universiti Teknologi Malaysia, Kuala Lumpur. February 23–24, 2011. |

| I. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>) | | | | |
|---|----------------|---------------------|--|---------------|
| <i>Project Title</i> | <i>Role</i> | <i>Year Started</i> | <i>Source of fund</i> | <i>Status</i> |
| CHARACTERIZATION OF BIOSURFACTANT FROM USED COOKING OIL AND INTERACTION IMPROVEMENT FOR HEAVY METALS REMOVAL | Co-Researcher | 2014 | FRGS, Ministry of Education, Malaysia | On-going |
| PROMOTION OF GREEN ECONOMY WITH PALM OIL INDUSTRY FOR BIODIVERSITY CONSERVATION IN MALAYSIA | Co-Researcher | 2014 | SATREPS, Ministry of Education, Malaysia | On-going |
| IMPLEMENTATION OF READILY AVAILABLE TECHNOLOGY FOR BROMELAIN EXTRACTION AND PURIFICATION FROM PINEAPPLE WASTES FOR VALUE-ADDED TO PINEAPPLE PLANTATION INDUSTRY | Co-Researcher | 2014 | KTP, Ministry of Education, Malaysia | On-going |
| ENZYME-ASSISTED EXTRACTION OF ESSENTIAL OILS FROM PINEAPPLE WASTES USING CRUDE CELLULASES COCKTAIL | Project Leader | 2014 | Geran Putra, Universiti Putra Malaysia | On-going |
| IN-SITU RECOVERY OF BIOBUTANOL PRODUCED FROM SIMULTANEOUS SACCHARIFICATION AND ACETONE-BUTANOL-ETHANOL FERMENTATION USING GAS STRIPPING | Project Leader | 2014 | FRGS, Ministry of Education, Malaysia | On-going |
| PRODUCTION OF BIO-COMPOST FROM OIL PALM EMPTY FRUIT BUNCH (OPEFB) AND GOAT MANURE | Consultant | 2009 | YPJ Plantations Sdn Bhd | Completed |

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Department of Bioprocess Technology
Faculty of Biotechnology and Biomolecular Sciences
Universiti Putra Malaysia

January 2016