

# Department of Chemical and Environmental Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor

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H – index 15 Citations-1747

# Assoc. Prof Dr Zurina Zainal Abidin

### **Experience**

### 1998-1999

Process Engineer, Elektrisola (M) Sdn Bhd, Janda Baik, Pahang

### 1999-2006

Tutor, Universiti Putra Malaysia

### 2006-present

Senior Lecturer, Universiti Putra Malaysia

### **Education**

Loughborough University, Loughborough, United Kingdom 1997, BEng (Hons) Chemical Engineering

## **UMIST, Manchester, United Kingdom**

Msc Biotechnology

**University of Manchester, Manchester, United Kingdom**PhD in Biochemical Engineering

### **Area of Interest**

- Biochemical and Bioseparation EngineeringElektrokinetics, Microfluidics, Biosensor
- Water/Wastewater Treatment

### **Professional Qualifications/Membership**

Chartered Engineer of Engineering Council/ICHEME
Member, Institute of Chemical Engineers (ICHEME)
Graduate Member, Board of Engineers Malaysia (BEM)
Member of Institute Engineers Malaysia (IEM)
Member of Society of Engineering Education Malaysia (SEEM)

		APPOINTMENTS	
NO	POSITION	ORGANIZATION	DURATION/YEAR
1	Vice Chairman Safety Committee	Elektrisola (M) Sdn Bhd	1997-1998
2	Internal Auditor	Elektrisola (M) Sdn Bhd	1997-1998
3	Department Laboratory Coordinator	Department of Chemical and	Jan 2007-Dec 2008
		Environmental Engineering, UPM	
4	Member of Faculty Safety Committee	Faculty of Engineering, UPM	Dec 2007– Dec 2008
5	Head of Process Lab 2	Department of Chemical and	2007-2014
		Environmental Engineering, UPM	
6	Committee Member of	Department of Chemical and	2007-present
	Environmental Engineering Master Programme	Environmental Engineering, UPM	
7	Head of Biochemical Engineering	Department of Chemical and	2008-2011
	Research Section	Environmental Engineering, UPM	
8	Deputy JINM Coordinator	Department of Chemical and	2011-2014
		Environmental Engineering	
9	Secretary of Faculty	TASKA committee, Faculty of	2011-2014
		Engineering, UPM	
10	Research Associate	Institute of Advanced Technology (ITMA), UPM	2011-2016
11	Committee Member of Cleanroom Management	Universiti Putra Malaysia	2013-2019
12	Research Associate	Aerospace Manufacturing Research Centre (AMRC)	2014-2015
13	Head of Industry and Community	Department of Chemical and	2015- Jan 2018
	Relations (JINM)	Environmental Engineering, UPM	
14	Visiting Scholar	Fatih Universitesi, Turkey	Sept 2014- Jan 2015
15	Head of Industry and Community Relations (JINM)	Faculty of Engineering, UPM	Mac 2017-Mac 2019
16	AunSeed Grant Visiting Scholar	Ho Chi Minh University, Vietnam	July 2016
17	Committee Putra Massive Open	Faculty of Engineering, UPM	April 2017-Dec 2017
	Online Course (MOOC) –Biochemical		
	Engineering Course		
18	Committee Member	UPMSTEM, Universiti Putra Malaysia	Dec 2018-Dec 2020
19	Committee Member	Centre of Biomedical Systems	2018-2019
20	Head of Biochemical Engineering Lab	Department of Chemical and	2020-2022
		Environmental Engineering, UPM	

	PUBLICATIONS-JOURNAL PAPERS	
NO	TITLE	YEAR
1	<b>Zurina Z. Abidin</b> and Gerard H. Markx. (2005) High-gradient electric field system for the dielectrophoretic separation of cells, Journal of Electrostatics, Volume 63, Issues 6-10, Pages 823-830 (IF:1.688)	2005
2	<b>Z. Zainal Abidin</b> , A.G Liew Abdullah, Z. Yunus, G.H Markx. Wire Cloth Electrodes: A study of electric field for dielectrophoretic separation of cells, International Journal of Engineering and Technology, 4(2): 205-212.	2007
3	<b>Abidin, Z.Z.,</b> Downes, L. And Markx, G.H. (2007). Novel electrode structures for large scale dielectrophoretic separations based on textile technology. Journal of Biotechnology, 130 (2)2, 15 June 2007, Pages 183-187 (IF:3.34)	2007
4	<b>Abidin, Z.Z.,</b> Downes, L. And Markx, G.H. (2007) Large scale dielectrophoretic construction of biofilms using textile technology. Biotechnol. Bioeng. 96, 1222-1225. (IF:3.648)	2007
5	<b>Z. Zainal Abidin</b> , D.R. Awang Biak, N. Hafifudin, G.H. Markx. (2008). Factors affecting dielectrophoretic separation of cells using high-gradient electric field strength system, Journal of Science and Technology (JESTEC). April: 1, 30-39 (Cited)	2008
6	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2009). Review of technologies for oil and gas produced water treatment, Journal of Hazardous Materials, 170 (2-3) pp. 530-551. (IF:4.879)	2009
7	Sepidar Sayyar, <b>Zurina Zainal Abidin</b> , Robiah Yunus and Azhari Muhammad (2009). Extraction of Oil from Jatropha Seeds-Optimization and Kinetics, American Journal of Applied Sciences 6 (7): 1390-1395 (Mostly cited)	2009
8	<b>Abidin Z.Z.</b> , Z Yunus, G.H. Markx. (2009). Dielectrophoretic Separation of Cells using 3-D Microelectrode, PERTANIKA Journal of Science and Technology, 17 (2). (IF 0.01)	2009
9	Herliati, Robiah Yunus, A.S. Intan, Z.Z. Abidin, Dzulkefly Kuang, (2010), Preliminary Design of Semi-Batch Reactor for Synthesis 1,3-Dichloro-2-Propanol Using Aspen Plus, International Journal of Chemistry, 2 (2), August 2010. (Index CAS)	2010
10	A.R Pendashteh, A. Fakhru'l-Razi, T.G Chuah, A.B Dayang Radiah, S.S. Madaeni and Z.Z. Abidin, Biological treatment of produced water in a sequencing batch reactor by a consortium of isolated halophilic	2010

	microorganisms, Environmental Technology, 31(2010) 1229-1239, (IF:1.606)	
11	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2010). Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use, Bioresource Technology, 101 (18) pp. 6942-6949 (IF:5.172)	2010
12	Pendashteh, A.R., Fakhru'l-Razi, A., Chaibakhsh, N., Abdullah, L.C., Madaeni, S.S., Abidin, Z.Z.(2011), Modeling of membrane bioreactor treating hypersaline oily wastewater by artificial neural network, Journal of Hazardous Materials, 192(2), 568-575 (IF:4.679)	2011
13	Rashid, A.M., Dayang Radiah, A.B., Zurina, Z.A., Fakhru'l-Razi, A. (2011). Low-temperature synthesis of carbon nanotubes via floating catalyst chemical 4apour deposition method, Fullerene Nanotubes and Carbon Nanostructures, 19(6), 522-531. (IF:0.71)	2011
14	M.Y. Harun, A.B. Dayang Radiah, Z. Zainal Abidin, R. Yunus (2011). Effect of physical pretreatment on dilute acid hydrolysis of water hyacinth ( <i>Eichhornia crassipes</i> ), Bioresource Technology, 102 (8): 5193-5199. (IF:5.172)	2011
15	<b>Zurina Z. Abidin</b> , Ismail, N., Yunus, R., I.S. Ahamad, A. Idris. (2011), A preliminary study on <i>Jatropha curcas</i> as coagulant in wastewater treatment, Environmental Technology, 32(9), 971-977. (IF:1.606)	2011
16	Sepidar Sayyar, <b>Zurina Zainal Abidin</b> , Robiah Yunus, Azhari Muhammad (2011). Solid liquid extraction of Jatropha seeds by microwave pretreatment and ultrasound assisted methods, Journal of Applied Science, 11 (13): 2444-2447. (Cited)	2011
17	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2011), Membrane Foulants Characterization in a Membrane Bioreactor (MBR) Treating Hypersaline Oily Wastewater, Chemical Engineering Journal, 168(1), 140-150 (IF:3.691)	2011
18	Sayyar, S., <b>Abidin, Z.Z.</b> , Yunus, R., 2012 Optimisation of solid liquid extraction of jatropha oil using petroleum ether, Asia Pacific Journal of Chemical Engineering, 8(3), 331-338, (IF:0.797)	2012
19	M.A. Shavandi, Raha Zahra Haddadian, Mohd Halim Shah Ismail, Norhafizah Abdullah, Zurina Zainal Abidin, (2012). Removal of Fe(III), Mn (II) and Zn (II) from palm oil mill effluent (POME) by Adsorption on natural zeolite, Water Soil and Air Pollution, 223 (7): 4017-4027	2012
20	M.A. Shavandi, Raha Zahra Haddadian, Mohd Halim Shah Ismail, Norhafizah Abdullah, Zurina Zainal Abidin, (2012). Removal of Residual Oil from palm oil mill effluent (POME) by natural zeolite, Journal of the	2012

	Taiwan Institute of Chemical Engineers, 43 (5): 750-759	
21	Muhammad Hazwan H., Hasfalina C. M., Hishamuddin J., and Zurina Z. A. (2012). Optimization and Kinetics of Essential Oil Extraction from Citronella Grass by Ohmic Heated Hydro Distillation," International Journal of Chemical Engineering and Applications vol. 3, no. 3, pp. 173-177, 2012 (Cited)	2012
22	Alireza Pendashteh, Luqman Chuah Abdullah, A. Fakhru'l-Razi, Sayed Siavash Madaeni, Zurina Zainal Abidin and Dayang Radiah Awang Biak (2012). Evaluation of Membrane Bioreactor for Hypersaline Oily Wastewater Treatment. Process Safety and Environmental Protection, 90, 45-55. (IF:1.757)	2012
23	Mustapha, S., Chandar, H., Z. Z. Abidin, R. Saghravani, M.Y. Harun. (2011). Production of semi- refined carrageenan from <i>Eucheuma cotonii</i> , Journal of Scientific and Industrial Research, 70, 865-870. (IF:0.735)	2012
24	Mazyar Peyda, A. Fakhru'l-Razi, Mohamad Pauzi Zakaria and Zurina Zainal Abidin (2013). Polymer Partitioning approach for petroleum hydrocarbon reduction in a clay soil, Water Air Soil Pollution, 224:1496 DOI 10.1007/s11270-013-1496-2 (IF:1.748)	2013
25	Haddadian, Z., Shavandi, M.A., <b>Abidin, Z.Z.</b> , Ismail, M.H.S., Fakhrul-Razi, A. (2013). Methyl Orange Removal from Aqueous Solutions using Dragon Fruit ( <i>Hylocereusundatus</i> ) Foliage, Chemical Science Transactions, 2(3), 900-910. DOI:10.7598/cst2013.439 (Cited Scopus)	2013
26	<b>Abidin, Z.Z.,</b> Mohd Shamsudin, N.S, Madehi, N., Sobri, S. 2013. Optimisation of a method to extract the active coagulant agent from Jatropha curcas seeds for use in turbidity removal, Industrial Crops and Products, 41, 1, 319-323 (IF:4.191)	2013
27	Herliati, Rahman, Robiah Yunus, Umer Rashid, Zurina Zainal Abidin, Intan Salwani Ahamad (2014), Synthesis of 1,3- Dichloropropanol from Glycerol Using Muriatic Acid as Chlorinating Agent, Asian Journal of Chemistry, 26(10): 2907-2912.	2014
28	<b>Abidin, Zurina Zainal</b> , Z. Haddadian, MA Shavandi, Shah Ismail, M.H., Ahmadun, F.R (2014), Methylene Blue Removal from Aqueous Solution by Hylocereus undatus (Dragon Fruit) Foliage, Applied Mechanics and Materials, 625, 864-869 (Cited Scopus).	2014
29	MR Shafad, IS Ahamad, A Idris, Z Zainal Abidin (2014). A Preliminary Study on Dragon Fruit Foliage as Natural Coagulant for Water Treatment, International Journal of Engineering 2(2),	2014
30	Nor Saiful Hafiz Abdul Habib, Robiah Yunus, Umer Rashid, Taufiq-Yap	2014

	YH, Zurina Zainal Abidin Azhari Muhammad Syam, Irawan S. Transesterification Reaction for Synthesis of Palm-based Ethylhexyl Ester and Formulation as Base Oil for Synthetic Drilling Fluid, (2014), Journal of Oleo Science, 63(5) pp 1-8. (IF:1.208)	
31	Nor Saiful Hafiz Abdul Habib, Robiah Yunus, Umer Rashid, Taufiq-Yap YH, Zurina Zainal Abidin Azhari Muhammad Syam, (2014) Synthesis of palm-based ethylhexyl ester as a synthetic base oil for drilling fluids using chemical transesterification, Grasas Y Aceites 65(1) pp 1-8. (IF:0.891)	2014
32	<b>Zurina Z. Abidin</b> , Fatin N. Omar, Dayang R. A. Biak, Pavithiran Yogarajah, Yaakob C. Man. (2014). Dielectric characterization of Liquid Containing Low Alcoholic Content for Potential Halal Authentication in the 0.5 - 50 GHz range, American Journal of Applied Science, 11, (7), 1104-1112.	2014
33	Balavandy, S.K., Shameli, K., Biak, D.R.B.A., <b>Abidin, Z.Z.</b> (2014), Stirring time effect of silver nanoparticles prepared in glutathione mediated by green method, Chemistry Central Journal, 8 (1) (IF 3.28).	2014
34	<b>Zurina Z. Abidin</b> , Fatin N. Omar, Dayang R. A. Biak, Yaakob C. Man. 2014. Dielectric characterization of Ethanol and Sugar Aqueous Solutions for potential halal authentication, International Journal of Microwave and Optical Technology, 9. (Cited Scopus)	2014
35	<b>Zurina Z Abidin</b> , Mohd Salleh, M.A., Harun, M. Y., Abu Bakar, N (2014). Biosorption of Zn(II) from Aqueous solution of <i>Jatropha curcas</i> presscake, Journal of Scientific & Industrial Research, March 2014, 191-194.(IF 0.505)	2014
36	Zurina Zainal Abidin, Mohd Fadzli Mohamed, Abdul Ghani Liew Abdullah (2014). Premilinary study of Rambutan (Nephelium Lappaceum) Seed as Potential Biocoagulant for Turbidity Removal, Advanced Materials Research, 917, 96-105. (Cited Scopus)	2014
37	Hamzah, M.H., Che Man, H., Abidin, Z.Z., Jamaludin, H. (2014). Comparison of citronella oil extraction methods from Cymbopogon nardus grass by ohmic-heated hydro-distillation, hydro-distillation, and steam distillation. BioResources, 9 (1), 256-272 (IF1.309)	2014
38	Fakhru'l-Razi Ahmadun, Mazyar Peyda, Mohammad Pauzi Zakaria, Wan Azlina Wan Ab Karim Ghani, Zurina Zainal Abidin, Hassan Moeini (2014) Biotechnology Progress, 30(4), 797-782 (IF:2.4)	2014
39	Nour Sh. El-Gendy, <b>Zurina Zainal Abidin</b> , Salem S. Abu Amr, Hussein N. Nassar (2015) Statistical optimization of alginate immobilization process of <i>candida stauntonica</i> strain MY1 for bioethanol production, International Journal of Current Mircobiology and Applied Sciences,	2015

	4(3): 397-420	
40	Balavandy, S.K., Shameli, K., <b>Abidin, Z.Z.</b> (2015), Rapid and Green Synthesis of Silver nanoparticles via sodium alginate media, International Journal Elecrochemical Science, 10, 486-497. (IF:1.284)	2015
41	<b>Zurina Zainal Abidin</b> , Mahtab Samadi, Wan Aznorin, (2016), Optimization of chlorophyll extraction from Gynura procumbens, Malaysian Journal of Analytical Sciences, 20(6), 1421-1428	2016
42	Nurul Amziah Md Yunus, Zurina Zainal Abidin, Izhar Abdul Halim (2016). Characterization of Microelectrode Array of Dielectrophoretic Microfluidic Device, Journal of Bioengineering and Biomedical Sciences, 6(3) pp 190. (Cited Scopus)	2016
43	Hussein-Al-Ali, Samer Hasan; Balavandy, Sepideh Keshan; Abidin, Zurina Zainal; Kura, Aminu Umar; Fakurazi, Sharida; Hussein, Mohd Zobir; Silwadi, Mohammed Fawaz, (2016). The <i>In Vitro</i> Therapeutic Activity of Ellagic Acid-Alginate-Silver Nanoparticles on Breast Cancer Cells (MCF-7) and Normal Fibroblast Cells (3T3), Science of Advanced Materials, 8(3), pp. 545-553 (IF:1.158)	2016
44	<b>Zurina Zainal Abidin</b> , Fatin Nordalila Omar, Dayang Radiah Awang Biak, Yaakob Che Man (2016). Alternative for rapid detection and screening of pork, chicken and beef using dielectric properties in the frequency of 0.5 Ghz-50Ghz, International Journal of Food Properties, 19(5), (IF:1.586).	2016
45	Noerhidajat, Yunus, R., Zurina, Z.A., Syafiie, S., Ramanaidu, V. Rashid, U. (2016), Effect of high pressurized sterilization on oil palm fruit digestion operation, International Food Research Journal 23(1): 129-134	2016
46	Noerhidajat, Yunus, R., Zurina, Z.A., S. Syafiie and T.S. Chang. (2015). Modeling and Simulation of Heat and Mass Transfer in Oil Palm Fruit Digestion Process, Journal of Emerging Trends in Engineering and Applied Sciences, 6(2): 136-146	2016
47	Daud, N.A. Chieng, B.W., Ibrahim, N.A. Talib, Z.A., Muhammad, E.N., Abidin, Z.Z. (2017) Functionalizing graphene oxide with alkylamine by gamma-ray irradiation method, Nanomaterials, 7 (6), 135 (IF:4.03)	2017
48	Yusufu, A.M. Noor, A.S.M., Tamchek, N., Abidin, Z.Z. (2017). MEH-PPV film thickness influenced fluorescent quenching of tip-coated plastic optical fiber sensors, Optical Fiber Technology, 39, 21-25 (IF:1.82)	2017
49	Hameed Zentou, <b>Zurina Zainal Abidin</b> , <b>Mustapha Zouanti</b> , <b>Darren Greetham</b> , <b>(2017)</b> . <b>Effect of Operating</b> Conditions on Molasses fermentation for Bioethanol production, International Journal of	2017

	Applied Engineering Research, 12 (15): 5202-5206 (Cited Scopus, Q3)	
50	Oday Adnan, <b>Zurina Zainal Abidin</b> , Azni Idris, Suryani Kamarudin, Mothanna Sadiq Al-Qubaisi, (2017). A novel biocoagulant agent from mushroom chitosan as water and wastewater therapy, Environmental Science and Pollution Research (IF: 2.91)	2017
51	<b>Zurina Zainal Abidin</b> , Norhafizah Madehi, Robiah Yunus, (2017). Coagulative behavior of Jatropha curcas and its performance in wastewater treatment, Environmental Progress and Sustainability, 36(6), 1709-1718 (IF1.631)	2017
52	Samla Gauri, <b>Zurina Zainal Abidin</b> , Mohd Firdaus Kamuri, Mohd Adzir Mahdi, Nurul Amziah Md Yunus, (2017). Detection of Aeromonas hydrophila Using Fiber Optic Microchannel Sensor. Journal of Sensor, 5, pp1-10 (IF 2.024)	2017
53	Mahtab Samadi, <b>Zurina Zainal Abidin</b> , Robiah Yunus, Dayang Radiah Awang Biak, Yoshida Hiroyuki, Eng Lai Hok, (2017). Assessing the kinetic model of hydro-distillation and chemical composition of Aquilaria malaccensis leaves essential oil, Chinese Journal of Chemical Engineering, 25, 216-222 (IF1.3)	2017
54	Mohammed Abdullah and <b>Zurina Z. Abidin</b> . (2018). Coagulation Treatment of Palm Oil Mill Effluent using Plant-based Tannin, Pollution Research, 37 (3), 214-220. (Cited Scopus)	2017
55	M. Abdul Salam, H. Che Man, Idris, Aida Isma, Abidin, Z.Z., Yunos, K.F. (2018). Treatment of Palm Oil Mill Effluent Using Membrane Bioreactor: Novel Processes and Their Major Drawbacks, Water, 10, 1165. (IF:2.524)	2018
56	M. Abdul Salam, H. Che Man, Idris, Aida Isma, Abidin, Z.Z., Yunos, K.F. (2018). The Pertinence of Microwave Irradiated Coconut Shell Bio-Sorbent for Wastewater Decolourization: Structural Morphology and Adsorption Optimization Using the Response Surface Method (RSM), International Journal of Environmental Research and Public Health, 15, 2200 (IF:2.468)	2018
57	Mohamad Abdullah Issa, <b>Zurina Zainal Abidin</b> , Mohd Adzir Mahdi, Shafreeza Sobri, Suraya A Rashid, Nor Azowa. (2019). Fabrication, characterization and response surface method optimization for quantum efficiency of fluorescent nitrogen-doped carbon dots from carboxymethylcellulose derived from empty fruit bunch of oil palms. Chinese Journal of Chemical Engineering (IF:1.911)	2019
58	Mohd Radzi Mohd Hafiezal, Abdan Khalina, Zainal Abidin Zurina, Md Deros Mohd Azaman and Zin Mohd Hanafee (2019). Thermal and Flammability Characteristics of Blended Jatropha Bio-Epoxy as Matrix	2019

in Carbon Fiber–Reinforced Polymer, J. Compos. Sci. 2019, 3(1), 6; doi:10.3390/jcs3010006 (Cited Scopus)  Musa Yahaya Pudza, Zurina Zainal Abidin, Faizah Md Yassin, Suraya Abd. Rashid, Shukri Mohamad. Synthesis and Characterization of fluorescent carbon Dots from tapioca. ChemistrySelect 4 (14), 4140-4146 (IF: 1.716)  Firdaus Kamuri, Zurina Zainal Abidin, Lee Hao Jun, Nurul Amziah, Mohd Haniff Yaacob, Mohd Nizar Hamidon, Suryani Kamarudin (2019). Separation and Detection of Escherichia Coli and Saccharomyces cerevisiae using microfluidic device integrated with optical fiber. Biosensors, 9(1), 40; doi:10.3390/bios9010040 (Cited Scopus)  Firdaus Kamuri, Zurina Zainal Abidin, Lee Hao Jun, Nurul Amziah, Mohd Haniff Yaacob, Mohd Nizar Hamidon, Suryani Kamarudin (2019). Performance evaluation of Free-Space Fibre Optic Detection in a Labon-Chip for Microorganism. Journal of Sensors. Article ID 1026905, Volume 2019. (IF: 2.024)  Norhafizah Madehi, Zurina Zainal Abidin, Robiah Yunus (2019). Jatropha Curcas Extract As Green Coagulant Agent to Treat Palm Oil Mill Effluent Wastewater. Journal of Environmental Science and Technology, DOI: 10.3923/jest.2019 (Cited Scopus)  Aishah Derahman, Zurina Z Abidin, Francisco Cardona, Dayang Radiah Awang Biak, Khalina Abdan, Paridah Md Tahir, Liew Kan Ern (2019). Epoxidation of Jatropha Methyl Esters via Acidic Ion Exchange Resin: Optimization and Characterization. Brazilian Journal of Chemical Engineering. 36, 2, 959-968. (IF:0.79)  Abdul Latif, F.E., Zurina Z. Abidin, F. Cardona, D. R. Awang Biak, P.Md Tahir, K. Abdan, Kan E. Liew, (2019). Epoxidized Jatropha Oil Blended with amine-cured epoxy resins as a hybrid bio-matrix in the biocomposite system. Journal of Engineering Science and Technology (IESTEC), 14(2), 1071-1087. (Cited Scopus).  Zentou Hameed, Zurina Zainal Abidin, Robiah Yunus, D.R. Awang Biak, Mustapha Zouanti, Abdelkader Hassani. (2019). Modelling of molasses fermentation for bioethanol production: a comparative investigation of Monod, and Andrews models accuracy asses			
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1	Yunus, Z., Abidin, Z. Z. & Markx, G. H. (2002). Development of a pulsed field DEP-FFF chromatography system for separation of microorganisms. IChem Postgraduate Research Event, Department of Chemical Engineering, University of Cambridge, Cambridge, UK.	2002
2	<b>Zurina Z. Abidin</b> and Alec James. (2002). Electrically enhanced crossflow microfiltration of oily wastewater, 2 <sup>nd</sup> World Engineering Congress (WEC), Sarawak, Malaysia	2002
3	<b>Zurina Z. Abidin</b> and Markx, G.H. (2002). Modelling of the movement of cells in dielectrophoretic separation system, Malaysian Research Group Conference, Manchester, UK.	2002

4	Yunus, Z., <b>Abidin, Z.</b> & Markx, G.H. (2004) Separation of microorganisms in a miniaturised dielectrophoretic Field-Flow Fractionation device. The Eight World Congress on Biosensors, Granada, Spain.	2004
5	<b>Zurina Z. Abidin</b> and Gerard H. Markx. (June 2005) High-gradient electric field system for the dielectrophoretic separation of cells, presented in Electrostatics Conference in Helsinki, Finland, 2005.	2005
6	<b>Zurina Z. Abidin</b> and Markx, G.H. (2006). Simulation on the electric field pattern for wire cloth electrodes used for dielectrophoretic separation of cells, 20 <sup>th</sup> Symposium of Malaysian Chemical Engineers, UiTM, Shah Alam, Selangor.	2006
7	<b>Zurina Z. Abidin</b> . (2006). Large Scale Dielectrophoretic Separation of Cells. Thesis submitted for PhD to University of Manchester	2006
8	<b>Z. Z. Abidin</b> , Yunus, R, Awang Biak, D.R., I.S. Ahamad, S.R.Shamsuddin, S.N. Mohd Sari. (eds),. (2007). 21 <sup>st</sup> Symposium of Malaysian Chemical Engineers Proceedings, UPM, Serdang.	2007
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13	Fakhru'l-Razi, A., Pendashteh, A., Dayang Radiah, A.B., Luqman Chuah, A., Madaen, S.S., Zurina Z.A. (2008). Treatment of synthetic produced wastewater in SBR coupled membrane with isolated tropical halophile	2008

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25	Dielectrophoretic Separation and Sensor Applications (2011), Seminar on Sensor Technology and Applications, Universiti Putra Malaysia.	2011 (Invited Speaker)
26	<b>Zurina Zainal Abidin</b> , Mohd Fadzli Mohamed, Abdul Ghani Liew Abdullah (2012). Alternative Use of Rambutan ( <i>Nephelium Lappaceum</i> ) Seed as Biocoagulant for Water Treatment, 2 <sup>nd</sup> International Conference on Process Engineering and Advanced Materials, 12-14 June 2012, KLCC, Kuala Lumpur	2012
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32	Bioremediation in water and wastewater treatment (2017), Kazakh National Technical University Visit Seminar.	2013 (Invited Speaker)
33	Zurina Zainal Abidin. Dielectrophoresis and its application, Invited Speaker, Fatih Universitesi, Büyükçekmece, Istanbul, Turkey	2014 (Invited Speaker)
34	<b>Zurina Zainal Abidin</b> , Wan Aznorin, Mahtab Samadi, (2015). Optimization of Chlorophyll Extraction from Gynura Procumbens, 28 <sup>th</sup> Symposium of Malaysian Chemical Engineers 2015, Pal Garden Hotel Putrajaya, 21-22 October 2015.	2015
35	Firdaus Kamuri, <b>Zurina Zainal Abidin</b> , Zalikha Zukhi, N.A. Yunus, M.N.Hamidon, M.Haniff, S. Kamaruddin, International Conference on Smart Sensor and Applications 2015.	2015
36	Zurina Zainal Abidin, Dielectrophoresis and its application, ITMA Seminar	2015 (Invited Speaker)
37	Yusufu, A.M. Noor, A.S.M., Azami, H.N.M., Tamchek, N., Abidin, Z.Z. (2016). Dinitrobenzene sensing utilization chitosan-based thin films optical fluorescence sensors via linear and non-linear excitation, Proceedings of the 9 <sup>th</sup> International Conference on Sensing Technology, ICST.	2016
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	Electronic Design, ISQED, United States, May 2016, 248-251	
39	<b>Zurina Zainal Abidin</b> , Samla Gauri Mohd Adzir Mahdi, (2016). Pathogens detection by friber optic microfluidic biosensor, 10 <sup>th</sup> Asia Pacific Biotechnology Congress, July 25-27, 2016 Bangkok, Thailand	2016 (Invited Speaker)
40	<b>Zurina Zainal Abidin</b> (2016). Biocoagulation from Jatropha Curcas and its application in Water Treatment, (2016). Workshop of Biotechnology of Biomass Utilization for ASEAN Development	2016 (Invited Speaker)
41	<b>Zurina Zainal Abidin</b> (2016). Dielectrophoretic Separation of Microorganism combined with optical detection in an integrated systems, Ho Chi Minh University of Technology Seminar, Vietnam.	2017 (Invited Speaker)
42	<b>Zurina Zainal Abidin</b> , Faizah Md Yassin, Mohd Razif Harun, Mohd Yusof Harun, Halimahtun Sakdiah Zainuddin, Mohamed Rezi Abdul Halim, Mohd Amran Mohd Salleh, (2017). Video as E-learning approach for enhancing laboratory teaching in biochemical engineering- a malaysia case study, 7 <sup>th</sup> World Engineering Education Forum (WEEF), August 2017, Kuala Lumpur, Malaysia	2017
43	<b>Zurina Zainal Abidin</b> , Fatin Nordalila Omar, Dayang Radiah Awang Biak (2017). Effects of heating time and temperature to the dielectric properties of pork and chicken in the range of 0.5 – 50 GHz, International Food Research Conference, Serdang, Malaysia.25-27 July 2017.	2017
44	Hafiezal, M.R.M., Abdan, K., Azaman, M.D., Abidin, Z., Hanafee, Z.M. (2017), Initial study of new bio-based epoxy in carbon fiber reinforced composite panel manufactured by vacuum assisted resin transfer moulding, AIP Conference Proceeding, 3 <sup>rd</sup> Electronic and Green Materials International Conference, April 2017, Krabi, 1885, 020066	2017
45	Lab — on — chip: Dielectrophoretic Separation combined with optical Sensor, Cheng De University Visit Seminar.	2018, 2019 (Invited Speaker)
46	Liew Mung Ngar, <b>Zurina Zainal Abidin</b> , Nuramirah Ab Halim (2018). Detection of Chemicals using Fiber Optic Sensor, 31 <sup>st</sup> Symposium of Malaysian Chemical Engineers (SomChe 2018), Disember 2018, Hotel Istana, Kuala Lumpur	2018
47	Wong Mei Lin, <b>Zurina Zainal Abidin</b> andū Nurhaninah Harun (2018). Optimization of Solid Liquid Extraction of Anthocyanin extraction from	2018

	<i>Gynura Procumbens</i> , 31 <sup>st</sup> Symposium of Malaysian Chemical Engineers (SomChe 2018), Disember 2018, Hotel Istana, Kuala Lumpur	
48	<b>Zurina Zainal Abidin</b> , Norhasni Zahari and Siti Noradzah Adam (2018). Stem Based Activities as Alternative Teaching and Learning Assessment for Teamwork, Putralnnocreative Carnival of Teaching and Learning (PICTL 2018), Universiti Putra Malaysia.	2018
49	Wong Mei Lin, Nurhaninah Harun, <b>Zurina Zainal Abidin</b> (2018). Kinetic Modelling of Anthocyanin extraction from <i>Gynura Procumbens</i> , International Conference on Applied Science and Industrial Technology 2018 (ICASIT 2018), Swiss Garden, Malacca.	2018
50	Fadhilla Mohd Nadzri, <b>Z.Z. Abidin</b> and Jamil Mohd Salleh. (2018). Effects of wire diameter, yarns size and wire configuration to wire cloth electrode produced from textile technology for dielectrophoresis application. 3 <sup>rd</sup> International Conference on Process Engineering and Advanced Material (ICPEAM 2018), KLCC, Kuala Lumpur	2018
51	Fadhilla Mohd Nadzri, <b>Z.Z. Abidin</b> and Jamil Mohd Salleh. (2019). 3D Wire Cloth Electrode for Higher throughput dielectrophoretic separation of bacterial cell. 20 <sup>th</sup> World Conference on Applied Science, Engineering and Technology (WCASET 2019), Holiday Inn, Kuala Lumpur	2019
52	Zurina Zainal Abidin (2019). "To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students., Putralnnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM. Malaysia, 16-17 October 2019.	2019
53	Zurina Zainal Abidin, Mohd Yusof Harun, Mohd Razif Harun, Faizah Md Yassin, Halimah Sakdiah Zainudin, Mohamed Rezi, M2V — An E-Coaching Tool for effective teaching and learning of Biochemical Engineering Laboratory course, Putralnnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM. Malaysia 16-17 October 2019	2019
54	Dayang Radiah Awang Biak, Rozita Omar, Nur Syakina Jamali, Mohd Syazaruddin Md Said, Shafreeza Sobri, Zurina Zainal Abidin, Wan Azlina Wan Abdul Karim Ghani, Mohd Hamdan Yusof, Mohd Halim Shah Ismail, Shamsul Izhar Siajam, Creating Experiential Learning via systematic integrated design approach. PutraInnocreative Carnival for teaching and learning (PICTL 2019). Dewan Besar PKSSA, UPM.	2019

	Malaysia 16-17 October 2019,	
55	Liew Mung Ngar, <b>Zurina Zainal Abidin</b> (2019). Detection of Chemicals using Fiber Optic Sensor, 2 <sup>nd</sup> International Research Conference and Innovation Exhibition 2019. KSL Resort, Johor Bahru, 25-27 November 2019	2019
56	Dayang Radiah Awang Biak, Rozita Omar, Nur Syakina Jamali, Mohd Syazaruddin Md Said, Shafreeza Sobri, Zurina Zainal Abidin, Wan Azlina Wan Abdul Karim Ghani, Mohd Hamdan Yusof, Mohd Halim Shah Ismail, Shamsul Izhar Siajam, Creating Experiential Learning via systematic integrated design approach. <i>Putralnnocreative Carnival for teaching and learning (PICTL 2019. Dewan Besar PKSSA, UPM</i> , 16-17 October 2019.  Pertandingan Amalan Inovasi dalam Pengajaran dan Pembelajaran 2019, <b>Wakil Fakulti Kejuruteraan Kategori Amalan Fakulti Terbaik</b>	2019
57	Zurina Zainal Abidin (2019). "To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students., PutraInnocreative Carnival for teaching and learning (PICTL 2019). Pertandingan Amalan Inovasi dalam Pengajaran dan Pembelajaran 2019, Dewan Besar PKSSA, UPM. Malaysia 16-17 October 2019,  Wakil Fakulti Kejuruteraan Kategori Alternative Assessment Terbaik	2019
58	Pameran Projek Komuniti Terbaik, UPM JINM SHOWCASE 2019, Maybank Academy Urban Farming Skilling, 10 April 2019, UCTC, UPM	2019

	PUBLICATIONS-BOOKS/CHAPTER				
NO	TITLE	YEAR			
1	<b>Zurina Zainal Abidin</b> , Dayang Radiah Awang Biak, Hamdan Mohamed Yusof, Mohd Yusof Harun, Solid Liquid Extraction in Biorefinery, Separation Technology in Biorefinery Edition, Wiley. Mac 2013.	2013			
2	Wai York Chow, Norhafizah Hafifudin, <b>Zurina Zainal Abidin</b> , Fakhru'l-Razi Ahmadun. (2013) Construction of ASMC by Dielectrophoresis Using Wirecloth Electrode for the Treatment of Wastewater, in "Developments in Sustainable Chemical and Bioprocess Technology", Ravindra, P., Bono, Awang, Chu, Christopher (Eds.), ISBN 978-1-4614-	2013			

	6208-8.	
3	Robiah Yunus, Rozita Omar, Zurina Zainal Abidin and Dayang Radiah	2012
	Awang Biak, Oil Palm as Bioenergy Feedstock, in Palm Oil:	
	Production, Processing, Characterization and Uses, AOCS Press. April	
	2012	

	PUBLICATIONS-PATENTS/COPYRIGHT					
No	TITLE	TYPE	YEAR			
1	Coagulant Agent for Water Treatment, Patent Pending, Patent Number 2011700007	PATENT PENDING	2012			
2	Alternative technique using Dielectric Properties for Halal and Non-Halal Identification	COPYRIGHT	2017			
3	Video as e-learning teaching tool for laboratory teaching for Sterilization Process in Biochemical Engineering	COPYRIGHT	2017			
4	Video as e-learning teaching tool for laboratory teaching for Bioreactor in Biochemical Engineering	COPYRIGHT	2017			
5	Junior Stem Chef – Pembelajaran Sains dan Matematik melalui Masakan	COPYRIGHT	2019			
6	A Hybrid System & Method For Treating Palm Oil Mill Effluent PI 2019006570	PATENT PENDING	2020			
7	Operating and Maintenance Manual for Hybrid Aerobic-Sorbent- Membrane Application	COPYRIGHT	2020			

RESEARCH GRANTS					
PROJECT NO.	PROJECT TITLE+	ROLE	YEAR	SOURCE OF FUND/AMO UNT	STATUS
9300427	Development of Bioresin from local Bioresources for Aerospace Applications	Project Leader	2015- 2018	UPM, (RM144K)	On-going
GPS-	Sustainable synthesis of fluorescent nitogen doped carbon	Project	2017-	UPM, GP-	On-going

IPS/2017/9556800	dots from oil palm empty fruit bunch for selective detection of heavy metals in contaminated water	Leader	2019	IPS (RM20K)	
GPS- IPS/2016/9502500	Effective production anf recovery of bioethanol via integrated pervaporation membrane reactor	Project Leader	2016- 2018	UPM, GP- IPS (RM15K)	On-going
9323654	The use of virtual laboratory demonstrations to enhance laboratory teaching for undergraduate	Project Leader	2015- 2017	GIPP, UPM, RM10K	Completed
UPM/700- 1/2/GPPI/2017/953 1400	Using subcritical water extraction for gaharu oil extraction	Project leader	2017- 2019	Putra Grant	On-going
03-02-13-1287FR	Bioethanol Production modeling of Chaotic Behaviour	Project Leader	2013- 2015	FRGS-MOHE	Completed
03-02-13-1292FR	Identification of the bioactive coagulant compound in Jatropha curcas	Project Leader	2013- 2015	FRGS-MOHE (RM155K)	Completed
02-01-04-SF1214	Pulsed Field DEP-FFF Integrated with optical detection on a biochip for biological applications	Project Leader	2012- 2014	Escience Fund (RM305K)	Completed
05-05-10-1079RU	Identification and Discrimination of Halal and Non-halal products by dielectric properties	Project Leader	2010- 2012	RUGS, UPM, (RM155K)	Completed
01-03-04-SF0842	Construction of artificial consortia of microorganism using dielectrophoresis for wastewater treatment	Project leader	2007- 2009	MOSTI, (RM231K)	Completed
01-03-04-SF0841	Large Scale dielectrophoretic separation of microorganism using wire electrode by dielectrophoresis	Project leader	2007- 2010	MOSTI (RM215K)	Completed
Skim Pensyarah Lantikan Baru (PLB)	Dielectrophoretic Separation of Cells using Microelectrodes	Project leader	2007- 2008	UPM (RM10K)	Completed
	Selective Deposition and Mechanism of Growth Study of CNP on a substrate via FC-CVD Technique	Member	2007- 2009	RUGS, UPM, RM 50 K	Completed

	Bioremediation and treatment of oilfield produced water with combined biological and nanofiltration processes,	Member	2007- 2009	RUGS, UPM, RM 100 K	Completed
	Synthesis of Bacterial cellulose by Bacterial Fermentation	Member	2007- 2009	Escience Fund, RM 249 K	Completed
	Integrated and Portable Device for Detection and Dielectrophoretic Separation of Mocroorganism	Member	2010- 2012	RUGS, RM 155K	Completed
	Development of a Food-Grade Green Lubricants	Member	2012- 2014	Escience Fund, RM 211 K	Completed
	Development of continuous pulsed loop reactor for Synthesis of ester-based biodegradable fluid,	Member	2011- 2013	ERGS, RM100K	Completed
	An Integrated Biorefinery for Bioenergy Production from Jatropha Seeds,	Member	2011- 2013	PRGS, RM 200K	Completed
PRGS/1/2014/ST05 /UPM/02/1	Upscaling of Synthesis Process for the Production of High Quality Graphene Oxide,	Member	2014- 2016	PRGS, RM221 K	Completed
FRGS/2/2014/SG06 /UPM/02/3	Hylocereus Undatus Extract as a Novel Green Inhibitor for Mild Steel Acid Corrosion	Member	2014- 2017	FRGS, RM109 K	Completed

	AWARDS AND RECOGNITION					
NO	NAME OF AWARDS	TITLE	AWARD AUTHORITY	AWARD TYPE	YEAR	
1.	Gold Medal	Construction of Biofilm using dielectrophoresis	PRPI, UPM	National	2009	
2.	Silver Medal	Ultrasound Asissted Solid Liquid Extraction of Jatropha Oil	PRPI, UPM	National	2010	

3.	Silver Medal	Construction of Structured Biofilm using wire cloth electrode from textile technology by Dielectrophoresis	Malaysia Technology Exhibition	National	2010
4.	Silver Medal	Ultrasound Assisted Extraction of Jatropha Oil	Malaysia Technology Exhibition	National	2010
5.	Gold Medal	Large Scale Dielectrophoretic Separation of Cells using textile wire cloth electrode	PRPI, UPM	University	2010
6.	Silver Medal	Jatropha Curcas as potential biocoagulant for wastewater treatment	PRPI, UPM	University	2011
7.	Bronze Medal	Ultrasound Assisted Solid Liquid Extraction of Jatropha Oil	PECIPTA	National	2011
8.	Anugerah Cemerlang	Anugerah Cemerlang Perkhidmatan Tahunan	UPM	University	2007, 2012, 2015
9.	Gold Medal	Identification and discrimination of halal and non halal using dielectric properties	PRPI. UPM	University	2014
10.	Silver Medal	Biosorption using low cost waste dragon fruit foliage.	PRPI, UPM	University	2014
11	Aunseed Grant Mobility Award	Visit to Ho Chi Minh University of Technology	Aunseed, RM 5000	Internatio nal	2016
12	Anugerah Cemerlang Pengajaran	Pengajaran Tahunan	UPM	University	2007- 2017
13	Double Gold Medal	Enhanced Jatropha Biomatrix in improving smoke fire toxicity characteristics for aerospace panel structure	IEnvex, 2018, UniMAP Perlis	National	2017
14	Anugerah PIA Faculty	Anugerah Perkhidmatan Profesional Terbaik Fakulti Kejuruteraan	UPM	Faculty	2017

	of Engineering				
15	Bronze Medal	STEM BASED Activities for Alternative Team work Assessment	PICTL 2018	National	2018
16	Projek Komuniti Berimpak Tinggi	Projek Global I Lead STEM Camp 2017	ICAN	Universiti	2018
16	Gold Medal	Junior STEM Chef: A Teaching Innovation Module to Enhance STEM Learning Process Among Murid Orang Asli	MTE2019 Teaching Award	Internatio nal	2019
17	Anugerah Komuniti Berimpak Tinggi	Projek Maybank Urban Farming Skilling	ICAN	Universiti	2019
18	Silver Medal	Mentor-Mentee in Research Innovation Skills Through Global I- Lead STEM Camp	MTE2019 Mentor Mentee Award	Internatio nal	2019
19	Anugerah Projek Industri Berimpak Tinggi	Projek Development of Bioresin from Bioresources for Aerospace Application	ICAN	Universiti	2019
20	Anugerah Projek Komuniti Berimpak Tinggi	Program Pengukuhan STEM dikalangan Murid Orang Asli (STEM-MOA)	ICAN	Universiti	2019
21	Gold Medal	Junior STEM Chef	Pertandingan Rekacipta Inovasi Nasional, Kejuruteraan dan Alam Bina	National	2019
22	Silver Medal	E-Learning untuk M2V: An E- Coaching Tool for effective teaching and learning of Biochemical Engineering Laboratory course	PICTL 2019, UPM	National	2019

23	Silver Medal	Experiential Based Learning untuk "To draw or not to draw: A Low Cost Experiential Learning for Enhancing Constructive Analytical Skills in Engineering Drawing Among Students	PICTL 2019, UPM	National	2019
24	Silver Medal	Experiential Learning untuk "Creating Experiential Learning via systematic integrated design approach	PICTL 2019, UPM	National	2019
25	Silver Medal	Development of Ohmic Heating Hydrodistillation for Citronella Oil Extraction	5 <sup>th</sup> SouthEast Asian Agricultural Engineering Students Chapter Annual Regional Convention 2019	Internatio nal	2019
26	Cemerlang	Anugerah Cemerlang Perkhidmatan 2018	UPM	Universiti	2007- 2019