

PERSONAL DETAILS				
Name	Assoc. Prof.Dr. Nor Azah Yusof			
I.C No.	731024085280			
Age	38	Years	11	Month(s)
Field of Specialization	Analytical Chemistry			
Tel. No.	Office	03-89466782	H/Set	019-2421472
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H index via scopus	8			

A. Education and Academic Qualifications

1. Postdoctoral in Institute of Biotechnology, University of Cambridge under Professor Elizabeth A.H. Hall, 2008
2. Ph.D. in Analytical Chemistry, Universiti Kebangsaan Malaysia, Bangi, 2002
(Development of An Optical Fibre Chemical Sensor for Co(II) and Pb(II) Ions Based on Flow Injection Analysis)
3. B.Sc. (Hons) in Chemistry, Universiti Kebangsaan Malaysia, Bangi , 1998.

B. Previous Academic and other Relevant Appointments

1. Lecturer in Chemistry Department, Faculty of Science, UPM(September 2002-until now)
2. Tutor (April 2002-September 2002)

List of courses taught for the last 5 years

Year (Semester)	Courses (Code)	Credit	Student Numbers	Remark
1 2005/2006	Analytical Chemistry (CHM 3401)	(2+1)	93	Lecturer/ Coordinator
1 2005/2006	Physical Chemistry (CHM 2101)	(1+1)	69	Lecturer
2 2005/2006	Physical & Inorganic Chemistry (CHM 3010)	(2+0)	62	Lecturer/ Coordinator
2 2005/2006	Analytical Chemistry (CHM 3401)	(2+1)	92	Lecturer/ Coordinator
1 2006/2007	Analytical Chemistry (CHM 3401)	(1+1)	45	Lecturer/ Coordinator
1 2006/2007	Physical & Inorganic Chemistry (CHM 3010)	(3+0)	92	Lecturer/ Coordinator

2 2006/2007	Analytical Chemistry (CHM 3401)	(2+1)	93	Lecturer/ Coordinator
2 2006/2007	Physical & Inorganic Chemistry (CHM 3010)	(3+1)	97	Lecturer/ Coordinator
1 2007/2008	Analytical Chemistry (CHM 3401)	(2+1)	93	Lecturer/ Coordinator
2 2007/2008	Physical & Inorganic Chemistry (CHM 3010)	(1+0)	80	Lecturer
1 2008/2009	Physical & Inorganic Chemistry (CHM 3010)	(3+1)	97	Lecturer/ Coordinator
1 2008/2009	Research and Methodology (CHM 5901)	(1+0)	50	Lecturer
2 2008/2009	Analytical Chemistry (CHM 3401)	(2+1)	80	Lecturer/ Coordinator
2 2008/2009	Spectroscopy II (CHM 5401)	(1+0)	50	Lecturer
2 2009/2010	Analytical Chemistry (CHM 3401)	(2+1)	80	Lecturer/ Coordinator
1 2010/2011	Analytical Chemistry (CHM 3401)	(2+1)	80	Lecturer/ Coordinator
1 2010/2011	Research and Methodology (CHM 5901)	(1+0)	50	Lecturer
2 2010/2011	Spectroscopy II (CHM 5401)	(1+0)	50	Lecturer
2 2010/2011	Analytical Chemistry (CHM 3401)	(2+1)	80	Lecturer/ Coordinator
1 2011/2012	Physical & Inorganic Chemistry (CHM 3010)	(3+1)	60	Coordinator
1 2011/2012	Research and Methodology (CHM 5901)	(1+0)	50	Coordinator
2 2011/2012	Physical & Inorganic Chemistry (CHM 3010)	(3+1)	60	Coordinator

Kursus	Semester/Sesi	Markah penilaian
CHM3010	1/2011/2012	4.57
CHM5901	1/2011/2012	4.46
CHM 3401	2 2010/2011	4.64
CHM 5401	2 2010/2011	4.33
CHM 3401	1 2010/2011	4.72
CHM 5901	2 2010/2011	4.52

CHM 3401	2 2008/2009	4.63
CHM 3010	1 2008/2009	4.16
CHM 3401	1 2007/2008	4.58
CHM 3401	2 2006/2007	4.90
CHM 3401	1 2006/2007	4.65
CHM 3401	12005/2006	4.77
CHM 3010	2 2005/2006	4.35

C. Academic Award / Research Award/Honour

1. JPA scholarship for undergraduate study at Universiti Kebangsaan Malaysia, Malaysia.
2. National Science Foundation (by Malaysian Government) scholarship for PhD study (1999-2002).
3. Postdoctoral Fellowship under Brain Gain Malaysia Programme (MOSTI) - 2008.
4. Bronze Medal, ITEX, 2006. Main Researcher
5. Silver Medal, MTE, 2007. Main Researcher
6. Bronze Medal, MTE, 2008. Main Researcher
7. Bronze Medal, ITEX, 2009. Main Researcher
8. Malaysia Innovative Product Award, ITEX, 2009. Main Researcher.
9. Gold Medal, Water Inno Awards, 2009. Main Researcher.
10. Silver Medal, MTE, 2011. Main Researcher
11. Gold Medal, ITEX, 2011. Main Researcher
12. Bronze Medal, Invention & Research Exhibition 2005, RMC, UPM. Main Researcher.
13. Bronze Medal, Invention & Research Exhibition 2006, RMC, UPM. Main Researcher
14. Silver Medal, Invention & Research Exhibition 2006, RMC, UPM. Main Researcher
15. Gold Medal, Invention & Research Exhibition 2007, RMC, UPM. Main Researcher
16. Bronze Medal, Invention & Research Exhibition 2007, RMC, UPM. Main Researcher

17. Bronze Medal, Invention & Research Exhibition 2007, RMC, UPM. Main Researcher.
18. Bronze Medal, Invention & Research Exhibition 2009, RMC, UPM. Main Researcher
19. Bronze Medal, Invention & Research Exhibition 2009, RMC, UPM. Main Researcher
20. Silver Medal, Invention & Research Exhibition 2010, RMC, UPM. Main Researcher
21. Silver Medal, Invention & Research Exhibition 2010, RMC, UPM. Main Researcher
22. Gold Medal, Invention & Research Exhibition.2010. RMC, UPM. Co-researcher
23. Gold Medal, Invention & Research Exhibition. 2010. RMC, UPM. Co-researcher
24. Bronze Medal, Invention & Research Exhibition. 2010. RMC, UPM. Co-researcher
25. Bronze Medal, Invention & Research Exhibition 2009, RMC, UPM. Co Researcher
26. Gold Medal, Invention & Research Exhibition 2003, RMC, UPM. Co-researcher
27. Silver Medal, Expo S&T 2003, Kuala Lumpur. Co-researcher
28. Excellence Service Award, UPM (2003)
29. Excellence Service Award, UPM (2004)
30. Excellence Service Award, UPM (2005)
31. Excellence Service Award, Faculty of Science (2003)
32. Excellence Service Award, Faculty of Science (2004)
33. Anugerah Saintis Cemerlang, Fakulti Sains (2004)
34. Anugerah Pengajar Cemerlang, Fakulti Sains (2004)
35. Anugerah Saintis Cemerlang, Fakulti Sains (2005)
36. Anugerah Pengajar Cemerlang, Fakulti Sains (2005)

37. Anugerah Adi Saintis Muda, Fakulti Sains (2007)

38. Anugerah Perkhidmatan Cemerlang, UPM (2007)

39. Anugerah Pengajar Muda, Fakulti Sains (2008)

D. Administrative Duties and other Responsibilities

- Head of Functional Device Laboratory, ITMA.
- Chairman of development of Masters in Forensic Science Programme
- Chairman of development of Masters in Chemistry Programme
- Acting Head of Department (25/5/2010 - 11/6/2010)
- Coordinator Of MOU and Internationalization for Faculty of Science
- Head of programme (smart sensing material) under Sensor Technology Lab ITMA – 2011-
- Head of Curriculum for Chemistry Department (2009-now)
- Internal auditor (ISO) for Faculty of Science (2003-2007)
- Committee member of Fundamental Science Congress 2011
- Committee member of Seminar Kimia Industri 2011
- Academic Advisor
- SKI (Seminar Kimia Industri) 2003, 2004 – Treasurer
- SKAM 19 and MyCat 2 (Seminar Kimia Analisis Malaysia 19) 2006– Treasurer
- Sub-Editor for Malaysian Journal of Analytical Science (SKAM 19)
- Ahli Jawatankuasa Jaminan Kualiti Fakulti Sains (2004-2007)
- AJK Biro Pendidikan Kelab Pegawai Jabatan Kimia
- AJK Teknikal dan Sekretariat Hari Kualiti Fakulti Sains 2005
- AJK Kurikulum Jabatan Kimia – 2004-2007
- Assessor for practical Teaching for Bachelor of Science with Educational Programme. 2006,2007 and 2009
- Assessor for Industrial Training 2009
- Regional Conference on Biosensor 2008 – Committee member
- Sub-Editor for proceeding of Regional Conference on Biosensor 2008
- Seminar Kimia Industri ke 13 – Secretary 2
- Fellow member of Institute of Bioscience -2007-2009
- AJK Kurikulum Fakulti Sains – 2009-2011
- AJK Penilaian Pengajaran Fakulti Sains (2009-2010)
- Jawatankuasa panel hakim pertandingan rekacipta dan inovasi sekolah 2011
- Pengerusi Penilai Buku Teks KBSM 2012 (Kimia)

E. Research Projects

No	Institution	Title	Amount	Status
1	UPM short term grant (Chairman)	Simultaneous Detection of Heavy Metal Employing an Optical Fibre Chemical Sensor and Artificial Neural Network	RM 10,000.00	Completed
2.	UPM Fundamental grant (Chairman)	Characterisation of complex between	RM 35,000.00	Completed

		palm based hydroxamic acid nad selected toxic metals		
3.	Intensification of Research in Priority Areas (IRPA), Government of Malaysia (Chairman)	Simultaneous Detection of Heavy Metal Employing an Optical Fibre Chemical Sensor and Artificial Neural Network	RM 96,000.00	Completed
4.	Science Fund (Chairman)	Development Of Microarray, Based On Novel Nanotransducers For Metal Ion Sensors, Exploiting Amino Acids And Peptides As Recognition Elements	RM 168,160	Completed (2006-2008)
5.	Science Fund (Chairman)	Fabrication Of Molecular Imprinted Polymer (MIP) For Waste Water Treatment	RM 121,080	Completed (2006-2008)
6.	Fundamental (Chairman)	Studies on the interaction between monomers and toxic metals in fabrication of molecular imprinted polymer	RM 110,000	Completed (2006-2008)
7	UNESCO (TWAS) (Chairman)	Development of hydrogel based molecular imprinted polymers for biomolecular recognition of protein and viruses	USD 5000	Completed (2008 – 2010)
8	Agri (Science Fund) (Chairman)	Development of a DNA based nanosensor for early detection of <i>ganoderma boninense</i> , a pathogen of the oil palm	RM 170,000.00	Completed (2009-2011)
9	RUGS (Chairman)	Development of rapid detection system for melamine and cyanuric acid based on optical, electrochemical and nanogap transducer	RM 140,000.00	Completed (2009-2011)

		system		
10	FRGS (Chairman)	Study of molecular interaction between DNA and nanoparticle	RM 60,000	Completed (2009-2011)
11	ERGS (Chairman)	Synthesis, characterization and application of functionalized natural fiber for heavy metal recovery and removal	RM 119,000	Active (2011-2013)
12	NND (Chairman)	Multifunctional nanofluidic biochip for dengue detection utilizing silicon nanostructure	RM 369,000	Active (2011-2013)
13	ScienceFund (Chairman)	Portable heavy metal detector utilizing peptides as the recognition molecule	RM 265,000	Active (2012-2014)
14	LRGS (Chairman)	Fruit grading and monitoring of FFA	RM 290,947	Active (2012-2017)
13.	Fundamental (Co-researcher)	Synthesis and characterization of chelating ion exchanger on inorganic adsorbents	RM 71,000	Completed (2006-2008)
14.	SAGA (Co-researcher)	A study of interaction between microwave and biomaterials in the biosensor system	RM 110,000	Completed (2006-2008)
15	RUGS (Co-researcher)	Development of Microwave Based Biosensor for Scientific, Food and Agriculture	RM 170,000	Completed (2007-2009)
16	RUGS (Co-researcher)	Electrochemical studies on metal complex interaction with DNA	RM 150,000	Completed (2007-2009)
17	National Biosensor Research Group (Co-researcher)	Development of biosensor for agro based, industrial and environmental application.	RM 2,200,000	Completed (2007-2009)

F. Supervision of Student

Name of Students Programme Year Title of Projects

Siti Fatimah Abd Rahman	PhD (Chairman)	2012	Multifunctional nanofluidic biochip for dengue detection utilizing silicon nanostructure
Nor Amirah Binti Mohd Maamor	PhD (Chairman)	2012	Synthesis and characterization of silicon nanowire using CVD technique.
Md. Shafiquzzaman Siddiquee	PhD (Chairman)	2008-2010 (graduated)	Detection of Trichoderma Harzianum by using DNA based biosensor
Nurulhaidah Daud	PhD (Chairman)	2008-	Development of Peptide Based Biosensor for Metal Ions
Yeoh Chee Beng	PhD (Chairman)	2009-	Molecular Imprinted Polymer for application in the extraction of Co-Enzyme Q10 (CQ10) from palm pressed fibre oil.
Rozbeeh Hushirian	PhD (Chairman)	2009-	Development of DNA based biosensor based on magnetic nanoparticle.
Sabo Wada Dutse	PhD (Chairman)	2010-	Microfluidic based DNA biosensor
Yadollah Abdollahi	PhD (Co-supervisor)	2008-2011	Photocatalysis degradation of cresol exist in drinking water and wastewater with ZnO and Mn doped ZnO nanoparticles
Chang Sook Keng	PhD (Co-supervisor)	2008-	Development of high surface area hybrid metal oxide/activated carbon for superconductor application
Hossein Jahangirian	PhD (Co-supervisor)	2008-	Synthesis and Characterization of Derivative Hydroxamic Acids from Palm Oil and Alkyl Litydroxylamins By Enzyme Reactions
Majid Rezayi	PhD (Co-supervisor)	2008- 2011	Preparation and Cjharacterization Ion Selective Electrode based On Macromolecules As Ionophores for Determining Ionic Species With Potentiometric Method
Saied Ahmad Zadeh	PhD (Co-supervisor)	2008- 2011	Preparation and Characterization of Ionic Sensor Electrode Using Various Ionophores
Yap Yun Fen	PhD (Co-supervisor)	2008-2012	SPR based sensor for toxic metals
Azizul Bin Isha	M.Sc (Chairman) Graduated	2002-2004	Development of optical Fibre Chemical Sensor for Iron(III) and Vanadium(V) Ions

Nor Dyana Zakaria	MSc (Chairman) graduated	2007-2010	Molecular Imprinted Polymer for Phenolic Compound
Saliza Zakaria	MSc (Chairman) graduated	2007-2010	Molecular Imprinted Polymer for Dyes
Hairul Hisham Hamzah	MSc (Chairman) graduated	2007-2010	Development of optical biosensor for benzoic acid, preservative in food based on inhibition of tyrosinase enzyme
Noorhasmiera Abu Jahar	MSc (Chairman)	2007-2011	Development of microwave based biosensor for food analysis
Safura Taufik	MSc (Chairman)	2007-2011	Development of DNA based biosensor for detection of <i>ganoderma boninense</i> , an oil palm pathogen.
Nadia Abdul Rahman	MSc (Chairman)	2007-2011	Development of Novel Nanotransducer for Toxic Metal Ion Biosensor by Using Cyclic Peptide as Recognition Element
Mohd. Rashidi Abdul Manap	MSc (Chairman)	2009-	Synthesis and characterization of peptidyl fluorescent probe for detection of metal ions
Siti Khadijah Abdul Rahman	MSc (Chairman)	2010-	Development of detection system for melamine
Noremylia Bukhori	MSc (Chairman)	2010-	DNA based biosensor for <i>ganoderma boninense</i> , oil palm pathogen
Eng JunShern	MSc (Chairman)	2010-	Development of detection system for melamine
Hayati Mohamad Mukhair	MSc (Chairman)	2011-	Removal of oil using acetylated sago and chitosan
Nor Ain Shahera Khairi	MSc (Chairman)	2011-	Removal of mercury from petroleum product
Lee Chong Yong	MSc (Co-supervisor) Graduated	2002-2004	Photoelectrochemical Degradation of Dye Pollutants on TiO ₂ Thin Film Electrodes
Nur Indang Marzuki	MSc (Co-supervisor)	2008-2011	Development of enzyme/semiconductor based biosensor for detection of formaldehyde in fish.
Hasnidar Hamid	Msc (Co-supervisor) graduated	2008-2010	Development of microwave based biosensor for food, agriculture and science application

Nora Salina binti Md Salim	MSc (Co-supervisor) graduated	2008-2010	Microwave biosensor using dual frequency detection system
Nor Amirah Binti Mohd Maamor	MSc (Co-supervisor)	2007- 2011	Fabrication and characterization of electrochemical DNA sensor
Azima Binti Azmi	MSc (Co-supervisor)	2007-2011	Synthesis of haptenfor immunoassay of organophosphorus pesticide
Ili Syazana Johari	MSc (Co-supervisor)	2008-	Synthesis of Fatty Hydrazide Derivative for Analytical Application By Using Solvent Extraction Technique
Ang Swee See	MSc (Co-supervisor)	2008-2011	Biosensor for boric acid
No. of PhD student (as main supervisor) – 7 (2 graduated)			
No. of MSc student (as main supervisor) – 13 (7 graduated)			
No. of MSc student (as co-supervisor)- 10			
No. of PhD student (as co-supervisor) – 6			
G.	Publication (Books Authored, Chapters in Books, Books Edited, Journals, Conference and others)		
1.	Nor Azah Yusof , Nurulhaidah Daud, Siti Zareena Mohd. Saat, Tan Wee Tee, Abdul Halim Abdullah. Electrochemical Characterization of Carbon Nanotube/Nafion/Aspartic Acid Modified Screen Printed Electrode in Development of Sensor for Determination of Pb(II). <i>International Journal of Electrochemical Sciences</i> . IF 3.79. Q2. Accepted for publication.		
2.	Sabo Wada Dutse, Nor Azah Yusof , Haslina Ahmad, Mohd Zobir Hussein, Zulkarnain Zainal. An Electrochemical DNA Biosensor for <i>Ganoderma Boninense</i> Pathogen of the Oil Palm Utilizing a New Ruthenium Complex, [Ru(dppz) ₂ (qtpy)]Cl ₂ . <i>International Journal of Electrochemical Sciences</i> . IF 3.79. Q2. Accepted for publication.		
3.	Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, Fatimah Abu Bakar (2012). Electrochemical DNA Biosensor for the Detection of <i>Trichoderma harzianum</i> Gene using ZnO Nanoparticles/Chitosan Nano-Composite Membrane Modified-Gold Electrode. <i>Journal of Solid State Electrochemistry</i> . 16 (1) , pp. 273-282 (Impact factor – 2.234) (Corresponding author). Q3		
4.	Asman, S.; Yusof, N.A.; Abdullah, A.H.; Haron, M.J. Synthesis and Characterization of Hybrid Molecularly Imprinted Polymer (MIP) Membranes for Removal of Methylene Blue (MB). <i>Molecules</i> 2012 , <i>17</i> , 1916-1928.(Impact factor – 1.98) (Corresponding author), (Corresponding author). Q2		

5. Noorhasmiera Abu Jahar, **Nor Azah Yusof**, Kaida Khalid. Microwave Based Biosensor for Detection of Cholesterol in Food. *Asian Journal of Chemistry*. Accepted for Publication. (**Impact factor – 0.247**) (**Corresponding author**)
6. Nurulhaidah Daud, **Nor Azah Yusof**, Tan Wee Tee, Abdul Halim Abdullah. 2012. Electrochemical sensor for As(III) utilizing CNTs/Leucine/Nafion modified electrode. *International Journal of Electrochemical Sciences*. 7, 175-185. (**Impact factor – 2.808**) (**Corresponding author**). Q2
7. Nadiah Abdul Rahman, **Nor Azah Yusof**, Nor Amirah Mohd Maamor, Siti Mariam Mohd Noor. 2012. Development of electrochemical sensor for simultaneous determination of Cd(II) and Hg(II) ion by exploiting newly synthesized cyclic dipeptide. *International Journal of Electrochemical Sciences*. 7, 186-196. (**Impact factor – 2.808**) (**Corresponding author**). Q2
8. **Nor Azah Yusof** (2012). Investigation of the Interaction Between ssDNA/ds DNA and Hoechst 33258; Towards Development of an Electrochemical DNA Biosensor. *Asian Journal of Chemistry*. 24(2) 518-522. (**Impact factor – 0.247**) (**Corresponding author**)
9. Marzuki N.I, Bakar F.A, Salleh A.B, Heng L.Y, **Yusof N.A**, Siddiquee S, (2012). Development of electrochemical biosensor for formaldehyde determination based on immobilized enzyme, *International Journal of Electrochemical Science* 7(7), pp.6070-6081
10. **Yusof N.A**, (2012). Electrochemical DNA Biosensor based on poly (allylamine hydrochloride) modified screen printed electrode, *Asian Journal of Chemistry* 24(4), pp.518-522
11. Abdollahi, Y., Abdullah, A.H., Zainal, Z., Yusof N.A, (2012). Degradation of m-cresol with Mn doped ZnO nanoparticles under visible light irradiation, *Fresenius Environment Bulletin*, 21(2), pp.256-262
12. Chang, S.-K., Lee, K.-T., Zainal, Z., Tan, K.-B., **Yusof, N.A.**, Yusoff, W.M.D.W., Lee, J.-F., Wu, N.-L. (2012). Structural and electrochemical properties of manganese substituted nickel cobaltite for supercapacitor application, *Electrochimica Acta* 67, pp. 67-72
13. Surface morphology and crystallinity of metal oxides in nickel-cobalt binary system, Chang, S.-K., Zainal, Z., Tan, K.-B., **Yusof, N.A.**, Yusoff, W.M.D.W., Prabaharan, S.R.S., *Sains Malaysiana* 2012, 41 (4), pp. 465-470.

14. Abdollahi, Y., Abdullah, A.H., Gaya, U.I., Ahmadzadeh, S., Zakaria, A., Shamel, K., Zainal, Z., **Yusof, N.A.**, 2012. Photocatalytic degradation of 1,4-Benzoquinone in aqueous ZnO dispersions, *Journal of the Brazilian Chemical Society* 23 (2) , pp. 236-240
15. Abdollahi, Y., Abdullah, A.H., Zakaria, A., Zainal, Z., Masoumi, H.R.F., **Yusof, N.A.**, 2012. Photodegradation of p-cresol in aqueous Mn(1%)-doped ZnO suspensions, *Journal of Advanced Oxidation Technologies* 15 (1) , pp. 146-152
16. Abdollahi, Y., Abdullah, A.H., Zainal, Z., **Yusof, N.A.**, (2012). Photocatalytic degradation of p-cresol by zinc oxide under UV irradiation, , *International Journal of Molecular Sciences* 13 (1) , pp. 302-315
17. Chang, S.-K., Zainal, Z., Tan, K.-B., **Yusof, N.A.**, Yusoff, W.M.D.W., Prabakaran, S.R.S., 2012. Nickel-cobalt oxide/activated carbon composite electrodes for electrochemical capacitors, *Current Applied Physics* 12 (6) , pp. 1421-1428
18. Fen, Y.W., Yunus, W.M.M., **Yusof, N.A.**, (2012). Surface plasmon resonance optical sensor for detection of Pb 2+ based on immobilized p-tert-butylcalix[4]arene-tetrakis in chitosan thin film as an active layer, *Sensors and Actuators, B: Chemical*
19. Yadollahi Abdollahi, Abdul Halim Abdullah Zulkarnain Zainal, **Nor Azah Yusof**, (2012) Photodegradation of p-cresol by 1% manganese doped zinc oxide under visible light, *Journal of Advanced Technologies* 15 (1).2012, 146-152
20. Yadollahi Abdollahi, Abdul Halim Abdullah Zulkarnain Zainal, **Nor Azah Yusof**. 2012. Photocatalytic Degradation of p-cresol by zinc Oxide under UV Irradiation. *International Journal of Molecular Science* 13, no.1:302-315
21. Haron, M.J.; Jahangirian, H.; Silong, S.; **Yusof, N.A.**; Kassim, A.; Rafiee-Moghaddam, R.; Mahdavi, B.; Peyda, M.; Abdollahi, Y.; Amin, J. Benzyl and Methyl Fatty Hydroxamic Acids Based on Palm Kernel Oil as Chelating Agent for Liquid-Liquid Iron(III) Extraction. *Int. J. Mol. Sci.* **2012**, *13*, 2148-2159.

22. **Nor Azah Yusof**, Nurulhaidah Daud, Tan Wee Tee, Abdul Halim Abdullah (2011). Electrocatalytic Characteristic of Carbon Nanotube/Glutamine Nanohybrid Modified Platinum Electrode in Development of Biosensor for Determination of As(III). *International Journal of Electrochemical Sciences*, 6, p. 2385-2397 (**Impact factor – 2.808**) (**Corresponding author**). **Q2**
23. Safura Taufik, **Nor Azah Yusof**, Tan Wee Tee, and Irmawati Ramli (2011). Electrochemical Detection of DNA Hybridization Based on Bismuth Oxide Nanoparticles/Chitosan-Modified Electrodes with Methylene Blue as an Electrochemical Indicator. *International Journal of Electrochemical Sciences*, 6, 1880-1891 (**Impact factor – 2.808**) (**Corresponding author**). **Q2**
24. Nurulhaidah Daud, **Nor Azah Yusof** and Tan Wee Tee (2011) Development of Electrochemical Sensor for Detection of Mercury by Exploiting His-Phe-His-Ala-His-Phe-Ala-Phe Modified Electrode. *International Journal Electrochemistry Science*, 6, p. 2798-2807. (**Impact factor – 2.808**) (**Corresponding author**). **Q2**
25. Nor Dyana Zakaria, **Nor Azah Yusof**, Md Jelas Haron and Abdul Halim Abdullah (2011) Synthesis and Characterization of a Molecularly Imprinted Polymer for 2,4-Dinitrophenol Uptake Using 4-Vinylbenzoic Acid as the Complexing Monomer. *Asian Journal of Chemistry*, 23(6), p. 2456 – 2460. (**Impact factor – 0.247**) (**Corresponding author**)
26. **Nor Azah Yusof** and Sabo Wada Dutse (2011). Microfluidic Based Lab on Chip for Environmental Monitoring: A Review. *Sensors*, 11, p. 5754-5768. (**Impact factor – 1.9**) (**Corresponding author**). **Q1**
27. **Nor Azah Yusof** (2011). Sensitization and Inhibition on Redox Activity of Hybridization Labels by Acridine Orange, Hoechst 33258 and DNA Using Rapid Electrochemical Method. *Asian Journal of Chemistry*, 23(3), p. 1153-1157. (**Impact factor – 0.247**) (**Corresponding author**)
28. Shafiquzzaman Siddiquee, **Nor Azah Yusof**, Abu Bakar Salleh, Soon Guan Tan, Fatimah Abu Bakar (2011). Enhancement of DNA immobilization and hybridization on gold electrode modified using ZnO nanoparticles/chitosan film. *Current Analytical Chemistry*, 7(4). (**Impact factor – 2.134**) (**Corresponding author**). **Q3**
29. Hairul Hisham Hamzah, **Nor Azah Yusof**., Abu Bakar Salleh. Fatimah Abu Bakar (2011). Spectrophotometric Determination of Benzoic Acid Based on Inhibitive Effect on Tyrosinase Enzyme. *Asian Journal of Chemistry*, 23(3), p. 1133-1136. (**Impact factor – 0.247**) (**Corresponding author**)
30. Shafiquzzaman Siddiquee, **Nor Azah Yusof**, Abu Bakar Salleh, Soon Guan Tan, Fatimah Abu Bakar and Lee Yook Heng (2011). An Ionic Liquid Influenced in the Detection Levels of DNA Hybridization on the ZnO Nanoparticles and Chitosan Nanocomposite Membrane at Modified-AuE. *Microchimica Acta*, 172(3-4), p. 357-363. (**Impact factor – 2.6**) (**Corresponding author**). **Q2**
31. Saliza Asman, **Nor Azah Yusof**, Abdul Halim Abdullah and Md. Jelas Haron (2011).

Synthesis and Evaluation of Molecularly Imprinted Polymer (MIP) for Methylene Blue Dye Uptake. *Asian Journal of Chemistry*. 23(11) 4786-4794. **(Impact factor – 0.247) (Corresponding author).**

32. Hairul Hisham Hamzah, **Nor Azah Yusof.**, Abu Bakar Salleh. Fatimah Abu Bakar. 2011. Optical Biosensor for Determination of Benzoic Acid Based on Inhibitive Effect on Tyrosinase Enzyme. *Sensors*. 11 7302-7313. **(Impact factor – 1.9) (Corresponding author). Q1**
33. Ganchimeg Perenlei, Tan Wee Tee, **Nor Azah Yusof** and Goh Joo Kheng (2011). Voltammetric Detection of Potassium Ferricyanide Mediated by Multi-Walled Carbon Nanotube/Titanium Dioxide Composite Modified Glassy Carbon Electrode. *International Journal of Electrochemical Sciences*, 6, p. 520-531. **(Impact factor – 2.808) (Co-author). Q2**
34. Hossien Jahangirian, Md Jelas Haron, Sidik Silong and **Nor Azah Yusof** (2011). Preparation of Fatty Hydroxamic Acid from Canola Oil and Separation through Precipitation of Copper Complexes. *Asian Journal of Chemistry*, 23(8), p. 3371–3374. **(Impact factor – 0.247) (Co-author)**
35. Ganchimeg Perenlei, Tan Wee Tee, **Nor Azah Yusof**, Goh Joo Kheng (2011) Electrochemical Detection of Paracetamol at Multiwall Carbon Nanotubes/Titanium Dioxide Composite Modified Electrode. *Asian Journal of Chemistry*. 23(7), p. 3143-3147. **(Impact factor – 0.247) (Co-author)**
36. Hossien Jahangirian, Md Jelas Haron, Sidik Silong and **Nor Azah Yusof** (2011). Enzymatic synthesis of phenyl fatty hydroxamic acids from canola and palm oils. *Journal of Oleo Science*, 60(6), p. 281-286. **(Co-author)**
37. Hossien Jahangirian, Md Jelas Haron, **Nor Azah Yusof**, Sidik Silong, Anuar Kassim, Roshanak Rafiee-Moghaddam, Mazyar Peyda, Yadollah Gararayebi. 2011. Enzymatic synthesis of fatty hydroxamic acid derivatives based on palm kernel oil. *Molecules*. 16(8), 6634-6644.
38. Yadollah Abdollahi, Abdul Halim Abdullah, Zulkarnain Zainal, **Nor Azah Yusof**. 2011. Photodegradation of *m*-cresol by Zinc Oxide under Visible-light Irradiation. *International Journal of Chemistry*. 3(3), 31-43.
39. Yadollah Abdollahi, Abdul Halim Abdullah, Zulkarnain Zainal, **Nor Azah Yusof**. 2011. Photodegradation of *o*-cresol by ZnO under visible light irradiation. *International Journal of Advanced Engineering Sciences and Technologies*. 8(2), 135-144.
40. Yadollah Abdollahi¹, Abdul Halim Abdullah^{1,2}, Zulkarnain Zainal, **Nor Azah Yusof**. 2011. Photodegradation of *o*-cresol by ZnO under UV irradiation. *Journal of American Science*. 7(8), 165-170.
41. Y. Abdollahi, A. H. Abdullah, Z. Zainal, **N. A. Yusof**. 2011. Synthesis and characterization of Manganese doped ZnO nanoparticles. *International Journal of Basic & Applied Sciences*. 11(4) 62-69.

42. Yap Wing Fen, W.Mahmood Mat Yunus, Mohd Maarof Moxsin, Zainal Abidin Talib and **Nor Azah Yusof**. 2011. Optical properties of Crosslinked Chitosan Thin Film with Glutaraldehyde Using Surface Plasmon Resonance Technique. *American J. of Engineering and Applied Sciences* 4(1), 61-64, ISSN 1941-7020.
43. Yap Wing Fen, W.Mahmood Mat Yunus and **Nor Azah Yusof**. 2011. Detection of Mercury and Copper Ions Using Surface Plasmon Resonance Optical Sensor. *Sensors & Materials* Vol. 23. No. 6. 325-334 ISSN 0914-493).
44. Yap Wing Fen, W. Mahmood Mat Yunus, Mohd Maarof Moxsin, Zainal Abidin Talib, **Nor Azah Yusof**. 2011. Surface plasmon resonance optical sensor for mercury ion detection by crosslinked chitosan thin film. *Journal of Optoelectronics and advanced materials*. Vol 13.ISS.3.279-285.
45. Yap Wing Fen, W. Mahmood Mat Yunus, Zainal Abidin Talib, **Nor Azah Yusof**. 2011. X-ray photoelectron spectroscopy and atomic force microscopy studies on crosslinked chitosan thin film. *International Journal of Physical Sciences*. 6(11) 2744-2749.
46. Anuar Kassim, Majid Rezayi, Saeid Ahmadzadeh, Gholamhossein Rounaghi, Masoomah Mohajeri, **Nor Azah Yusof**, Tan Wee Tee, Lee Yook Heng, Abd.Halim Abdullah (2011). A Novel Ion-Selective Polymeric Membrane Sensor for Determining Thallium(I) With High Selectivity. *Materials Science and Engineering*, 17(012010), p 1-7. **(Impact factor – 2.090) (Co-author)**
47. Majid Rezayi, Anuar Kassim, Saeid Ahmadzadeh, **Nor Azah Yusof**, Abolfazl Naji, Hossein Abbastabar Ahangar (2011). Conductometric determination of formation constants of tris(2-pyridyl)methylamine and Titanium (III) in water-acetonitrile mixture. *International Journal of Electrochemical Sciences*. Accepted for Publication. **(Impact factor – 2.808) (Co-author)**
48. Shafiquzzaman Siddiquee., **Nor Azah Yusof**., Abu Bakar Salleh., Fatimah Abu Bakar and Lee Yook Heng (2010). Electrochemical DNA Biosensor for the Detection of Specific Gene Related to *Trichoderma harzianum* Species. *Bioelectrochemistry*, 79(1), p. 31-36. **(Impact factor – 2.5) (Corresponding author). Q1**
49. Shafiquzzaman Siddiquee., **Nor Azah Yusof**., Abu Bakar Salleh., Fatimah Abu Bakar and Lee Yook Heng (2010). DNA Hybridization Based on *Trichoderma harzianum* Gene Probe Immobilization at Self-Assembled Monolayers-Modified Gold Electrode. *Sensors and Actuators B.*, 147(1), p. 198-205. **(Impact factor – 3.3) (Corresponding author). Q1**
50. **Nor Azah Yusof**, Appri Beyan, Md. Jelas Haron and Nor Azowa Ibrahim (2010). Synthesis and Characterization of a Molecularly Imprinted Polymer for Pb²⁺ Ion Uptake. *Sains Malaysiana*, 39(5), p. 829-835. **(Impact factor – 0.152) (Corresponding author)**
51. Mohd Rashidi Abdull Manap, **Nor Azah Yusof**, Siti Mariam Md. Noor, Faujan Hj.Ahmad (2010). Recent Development of Amino Acids and Peptides in Metal Ions Detection: An Overview. *Oriental Journal of Chemistry*, 26(1), p. 23-29.

(Corresponding author)

52. **Nor Azah Yusof**, Safura Taufik, Tan Wee Tee, Irmawati Ramli (2010). Electrochemical Detection of DNA Hybridization Based on Bismuth Oxide Nanoparticles/Chitosan-Modified Electrodes with Methylene Blue as an Electrochemical Indicator. *International Conference on Enabling Science and Nanotechnology, ESciNano 2010 - Proceedings*, Art. No. 5701048. **(Corresponding author)**
53. Ang Swi See, Abu Bakar Salleh, Fatimah Abu Bakar, **Nor Azah Yusof**, Ahmed Sahib Abdulamir and Lee Yook Heng (2010). Risk and Health Effect of Boric Acid. *American Journal of Applied Sciences*, 7(5), p. 620-627. **CIJ(Co-author)**
54. Salim, N.S.M, Kaida Khalid, **Nor Azah Yusof** (2010). Microwave Biosensor for Glucose Detection. *AIP Conference Proceeding*, 1250, p. 401-404. **CIJ (Co-author)**
55. **Nor Azah Yusof** and Zainab Omar (2009). Spectrophotometric Determination of Trace Arsenic(III) Ion Based Complex Formation With Galloicyanine. *Pertanika Journal of Science and Technology*, 17(1), p. 53-59. **(Corresponding author)**
56. **Nor Azah Yusof**, Appri Beyan, Md. Jelas Haron and Nor Azowa Ibrahim (2009). Synthesis and Evaluation of a Molecularly Imprinted Polymer For Pb(II) Ion Uptake. *Pertanika Journal of Science and Technology*, 17(1), p. 155-161. **(Corresponding author)**
57. **Nor Azah Yusof** and Khairunnisa Rashid (2009). Development of Optical Test Strip for Rapid Determination of Trace Arsenic Using Immobilized Galloicyanine. *Asian Chemical Journal*, 21(3), p. 1747-1753. **(Impact factor - 0.247) (Corresponding author)**
58. **Nor Azah Yusof** and Wan Abdul Rahman Bin Wan Abdul Kadir (2009). Optical Test Strip for Trace Hg(II) Based on Doped Sol-Gel Film. *Spectrochimica Acta A*, 72, p. 32-35. **(Impact factor – 1.5) (Corresponding author)**
59. Dyana Zakaria, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah (2009). Synthesis and Evaluation of a Molecularly Imprinted Polymer for 2,4-dinitrophenol. *International Journal Molecular Science*. 10, p. 354-365. **(Impact factor – 0.9) (Corresponding author)**
60. **Nor Azah Yusof** and Musa Ahmad (2009). Direct Photometric Determination of Lead by Manual and Flow Injection Methods with Galloicyanine. *Asian Journal of Chemistry*, 21(8), p. 6190-6198. **(Impact factor – 0.247) (Corresponding author)**
61. Md Jelas Haron, Nur Anisah Shafie, **Nor Azah Yusof**, Anuar Kassim, Wan Mohd Zin Wan Yunus, S.M. Talebi (2009). Sorption of Cu(II) by Chemically Grafted Hydroxamic Acid-Zeolite. *Malaysian Journal of Analytical Sciences*. 13(1), p. 52-62. **(Co-author)**
62. Nur Indang, A.S. Abdulamir, Fatimah Abu Bakar, Abu Bakar Salleh, Lee Yook Heng

and **Nor Azah Yusof** (2009). A Review: Methods of Determination of Health-Endangering Formaldehyde in Diet. *Research Journal of Pharmacology*, 3(2), p. 31-47. **(Co-author)**

63. Nor Amirah Mohd Maamor, Tan Wee Tee and **Nor Azah Yusof** (2009). Voltammetric Studies of Nano Zirconium Dioxide/Carbon Nanotubes/Chitosan-Modified Glassy Carbon Electrodes. *Solid State Science and Technology*. 17(1), p. 1-11. **(Co-author)**
64. Ganchimeg Perenlei, Tan Wee Tee, Nor Azah Yusof, Goh Joo Kheng (2009). Electroanalytical Nanoparticles Modified Electrode Based on TiO₂/MWCNT Composites. *Sensors & Transducers*. 110(11), p. 78-85. **(Co-author)**
65. Anuar Kassim, Majid Rezayi, Saeed Ahmad Zadeh, Tan Wee Tee, **Nor Azah Yusof**, Lee Yook Heng (2009). Fabrication of a Highly Selective and Sensitive CrO₄⁻² Sensor Based on N,N'Bis(salicylidene)ethylenediaminocobalt(II)hydrate. *Malaysian Journal of Chemistry*. 11(1), p. 019-025. **(Co-author)**
66. **Nor Azah Yusof** and Musa Ahmad (2008). Development of a Flow-through Optosensor for Determination of Co(II) by Using Stopped Flow, Flow Injection Analysis. *Spectrochimica Acta: Part A*, 69(2), p. 413-418. **(Impact factor – 1.5) (Corresponding author)**
67. Azizul Isha, **Nor Azah Yusof**, Mazura Abdul Malik and Hazlina Hamdan (2007). Simultaneous Spectrophotometric Determination of Pb(II) and Cd(II) Using Artificial Neural Networks. *Journal of Physical Science*, 18(1), p. 1-10. **(Corresponding author)**
68. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra, Wan Md Zin Wan Yunus and Zulkarnain Zainal (2007). A Broad Range Optical Vanadium(V) Sensor Based on Immobilized Fatty Hydroxamic Acid in Poly(Methylmethacrylate) Using Artificial Neural Network. *Pertanika Journal of Science & Technology*, 15(2), p. 121-130. **(Corresponding author)**
69. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra, Wan Md Zin Wan Yunus and Zulkarnain Zainal (2007). Development of an Optical Fibre Chemical Sensor for Trace Vanadium(V) Based on Fatty Hydroxamic Acid Immobilized in Polyvinyl Chloride. *Spectrochimica Acta: Part A*, 67, p. 1398-1402. **(Impact factor – 1.5) (Corresponding author)**
70. Zulkarnain Zainal, Chong Yong Lee, Mohd Zobir Hussein, Anuar Kassim and **Nor Azah Yusof** (2007). **Photoelectrochemical Degradation of Methyl Orange using TiO₂/Ti Films Prepared via Sol-Gel Technique**. *Acta Chimica Slovenica*, 54 (1), p.166-174. **(Impact factor – 1.093) (Co-author)**.
71. Zulkarnain Zainal, Chong Yong Lee, Mohd. Zobir Hussein, Anuar Kassim and **Nor Azah Yusof** (2007). Electrochemical-assisted Photodegradation of Mixed Dye and Textile Effluents using TiO₂ Thin Films. *Journal of Hazardous Material*, 146, p. 73-80. **(Impact factor – 2.337) (Co-author)**.
72. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra, Wan Md Zin Wan Yunus and Zulkarnain Zainal (2006). Extending the Linear Dynamic Range of Vanadium(V)

Ion Determination Based on New Reagent, Fatty Hydroxamic Acid from Palm Kernel Oil by Using Artificial Neural Network. *Malaysian Journal of Chemistry*, 8(1), p. 027-036. **(Corresponding author)**

73. **Nor Azah Yusof**, Wan Asmawati, Dedy Suhendra and Wan Md Zin Wan Yunus (2006). Spectrophotometric Determination of Fe(III) using Palm Based Fatty Hydroxamic Acid(FHA). *Science Putra Research Bulletin*, 14(1), p. 31-34. **(Corresponding author)**

74. Azizul Isha, **Nor Azah Yusof**, Mazura Abdul Malik and Hazlina Hamdan (2006). Application of Artificial Neural Network to Simultaneous Spectrophotometric Determination of Lead(II) and Mercury(II) based on 2-(5-Bromo-2-Pyridylazo)-5-Diethylaminophenol. *Malaysian Journal of Chemistry*, 8(1), p. 72-78. **(Corresponding author)**

75. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra and Wan Md Zin Wan Yunus and Zulkarnain Zainal (2006). A Chemical Sensor for Trace Vanadium(V) Determination Based on Fatty Hydroxamic Acid Immobilized in Polymethylmethacrylate. *Sensors and Actuators B*, 114, p. 344-349. **(Impact factor – 2.9) (Corresponding author)**

76. Azizul Isha, **Nor Azah Yusof**, Mazura Abdul Malik and Hazlina Hamdan (2005). Simultaneous Spectrophotometric Determination of Pb(II) and Cd(II) using Artificial Neural Networks. *Asian Conference on Sensors and the International Conference on New Techniques in Pharmaceutical and Biomedical Research - Proceedings 2005*, art. no. 1564539, p. 200-203. **(Corresponding author)**

77. Zulkarnain Zainal, Chong Yong Lee, Mohd Zobir Hussein, Anuar Kassim and **Nor Azah Yusof** (2005). Electrochemically-assisted Photodegradation of Dye on TiO₂ Thin Films: Investigation on the Effect of Operational Parameters. *Journal of Hazardous Materials B*, 118, p. 197-203. **(Impact factor – 2.337) (Co-author)**

78. Zulkarnain Zainal, Chong Yong Lee, Mohd Zobir Hussein, Anuar Kassim and **Nor Azah Yusof** (2005). Effect of Supporting Electrolytes in Electrochemically-Assisted Photodegradation of an Azo Dye. *Journal of Photochemistry and Photobiology A: Chemistry*, 172, p. 316-32. **(Impact factor – 1.911) (Co-author)**

79. Zulkarnain Zainal, Chong Yong Lee, Mohd Zobir Hussein, Anuar Kassim and **Nor Azah Yusof** (2005). Effect of pH on Structural, Electrochemical and Photoelectrocatalytic Degradation Properties of Methyl Orange. *Asian Journal of Chemistry*, 17(3), p. 1717-1728. **(Impact factor – 0.247) (Co-author)**

80. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra and Wan Md Zin Wan Yunus (2004). Spectrophotometric Determination of Trace Iron (III) Ion Based on Fatty Hydroxamic Acid. *Malaysian Journal of Analytical Sciences*, 8(1), p. 208-212. **(Corresponding author)**

81. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra and Wan Md Zin Wan Yunus (2004). Spectrophotometric Determination of Trace Vanadium (V) Ion Based on Fatty Hydroxamic Acid. *Journal of Physical Science*, 15, p. 29-37. **(Corresponding**

author)

82. **Nor Azah Yusof** and Musa Ahmad (2003). A Flow-Through Optical Fibre Reflectance Sensor for the Detection of Lead Ion Based on Immobilized Gallocynine. *Sensors & Actuators B*, 94, p. 201-209. **(Impact Factor – 2.9) (Corresponding author)**
83. **Nor Azah Yusof** and Musa Ahmad (2003). Chitosan Membrane and Sol Gel Film Doped with pH Indicators. *Asean Journal on Science & Technology for Development (AJSTD)*, 20(2), p. 135-147. **(Corresponding author)**
84. **Nor Azah Yusof** dan Musa Ahmad (2002). Penentuan Plumbum Menggunakan Kaedah Analisis Suntikan Aliran Berdasarkan Pembentukan Kompleks Antara Plumbum Dengan Reagen Galosianin. *Pertanika Journal of Science and Technology*, 10(2), p. 261-267. **(Corresponding author)**
85. **Nor Azah Yusof** and Musa Ahmad (2002). A Flow Cell Optosensor for Determination of Co (II) Based on Immobilized 2-(4-pyridylazo)resorcinol in Chitosan Membrane by Using Stopped Flow Injection Analysis. *Sensors & Actuators B*, 86, p. 127-133. **(Impact Factor – 2.9) (Corresponding author)**
86. **Nor Azah Yusof** and Musa Ahmad (2002). A Flow Cell Optosensor for Lead Based on Immobilized Gallocynin in Chitosan Membrane. *Talanta*, 58, p. 459-466. **(Impact Factor – 3.37) (Corresponding author)**
87. **Nor Azah Yusof** and Musa Ahmad (2001). Determination of Cobalt (II) Based on Its Complex formation with 2-(4-Pyridylazo)resorcinol by Flow Injection Analysis. *Journal of Physical Science*, 12, p. 75-84. **(Corresponding author)**

H. Patent / Patent-pending / Copyright / Trade Mark / Industrial Design / Commercialization / Technology Licensing

1. PI 20082144 “Heavy Metal Detection Kit”. 2008. Project Leader
2. PI 20094858 “Membrane molecularly imprinted polymer for dye extraction”. Project Leader
3. PI 20092843 “Amino acid /nanoparticle modified electrode for electrochemical analysis of As(III)”. Project Leader.
4. PI 2010700055 “Electrochemical DNA based biosensor for Trichoderma Hazianum”. Project leader.
5. PI 2010003432 “Formaldehyde Biosensor”. Co researcher
6. PI 2012002703 “A modified electrode for detection of biological material”. Project Leader

I. Conference / Seminar / Workshop / Symposium Attended/Invited Lectures

Pembentang ucap utama, Kertas Kerja Jemputan, persembahan jemputan atau plenary jemputan di peringkat kebangsaan.

1. Penceramah jemputan bengkel ‘DNA Biosensor: Recent Trends and Future Direction’. 22-23/4/2009. Institute of Nano Electronic Engineering, UniMAP, Perlis.
2. Penceramah jemputan seminar, Fundamental Science Congress 2010, Fakulti Sains, UPM (18-19/5/2010)

3. Penceramah jemputan Lecture series, Photonic Lecture Series, 'Optical Sensors for Environmental Monitoring, Medical diagnostic and Food Quality Control'. WipNet, Fakulti Kejuruteraan, UPM (23/7/2010)
4. Penceramah jemputan bengkel 'Understanding DNA Biomolecule for Lab on Chip Application'. 27/6/2011. Institute of Nano Electronic Engineering, UniMAP, Perlis.

Abstract/Proceeding

1. **Nor Azah Yusof, Siti Zareena Mohd. Saat, Tan Wee Tee, Abdul Halim Abdullah. Electrocatalytic Characteristic of Carbon Nanotube/Aspartic Acid Nanohybrid Modified Platinum Electrode in Development of Biosensor for Determination of Pb(II). Nano Today 2009. 2-5/8/2009. Singapore.**
2. **Nor Azah Yusof. Investigation of the Interaction Between ssDNA/ds DNA and Hoechst 33258; Towards Development of an Electrochemical DNA Biosensor. EUROPTRODE IX. 30/3-2/4 2008. Dublin.**
3. **Azizul Isha, Nor Azah Yusof, Mazura Abdul Malik and Hazlina Hamdan. 2005. Simultaneous Determination of Pb(II) and Cd(II) Using Artificial Neural Network Based on 4-(2-pyridylazo resorcinol). In E-proceeding of International Conference on Sensors & International Conference on New Techniques in Pharmaceutical and Biomedical Research. Kuala Lumpur, Malaysia.**
4. **Azizul Isha, Nor Azah Yusof, Mazura Abdul Malik and Hazlina Hamdan Application of Artificial Neural Network to Simultaneous Spectrophotometric Determination of Lead(II) and Mercury(II) based on 2-(5-Bromo-2-Pyridylazo)-5-Diethylaminophenol. ASIASENSE. 14-18/7/2003. Kuala Lumpur.**
5. **Musa Ahmad and Nor Azah Yusof, 2002, The Use of Immobilised Gallocynine in Chitosan Membrane for Lead(II) detection based on Flow Injection Opto-sensor, Abstract Book for EUROPT(R)ODE VI: The 6th European Conference on Optical Chemical Sensors and Biosensors, Manchester, England, page 187.**
6. **Nor Azah Yusof, Mohd Rashidi Abdul Manap, Siti Mariam Mohd. Nor and Faujan b.H. Ahmad. Synthesis and Characterization of Peptidyl Fluorescent for Metal Ion detection. FSC 2011. 5-6/7/2011. UPM**
7. **Nurulhaidah Daud, Nor Azah Yusof and Tan Wee Tee. Development of electrochemical sensor for detection of mercury by exploiting peptide modified electrode. FSC 2011. 5-6/7/2011. UPM**
8. **Roozbeh Hushiarian, Nor Azah Yusof, Abdul Halim Abdullah and Shahrul Ainliah Alang Ahmad. Design and construction of a DNA bioreceptor using quantum dot and chemically synthesized water soluble iron oxide magnetic nanoparticles. FSC 2011. 5-6/7/2011. UPM.**
9. **Sabo Wada Dutse, Nor Azah Yusof and Haslina Ahmad. Electrochemical characterization of interaction between ruthenium complex and DNA molecule. FSC 2011. 5-6/7/2011. UPM.**

10. **Nor Azah Yusof** and Eng Jun Shearn. Development of melamine imprinted polymer appended with ZnS quantum Dot for melamine detection. FSC 2011. 5-6/7/2011. UPM.
11. Mohammad Zakaria Othman, **Nor Azah Yusof**, Abdul halim Abdullah and Shahrul Ainliah Alang Ahmad. Detection of COD by photocatalytic degradation of organic compound using TiO₂-film via fluorescence method. FSC 2011. 5-6/7/2011. UPM.
12. Noremylia Mohd. Bakhori, **Nor Azah Yusof**, Abdul halim Abdullah and Mohd. Zobir Hussien. Development of DNA based nanosensor for early detection of *Ganoderma boninense*. FSC 2011. 5-6/7/2011. UPM
13. Siti Khadijah Ab. Rahman, **Nor Azah Yusof**, Nor Azowa Ibrahim and Mohd. Zobir Hussein. Development of rapid system for melamine based on optical transducer system. FSC 2011. 5-6/7/2011. UPM.
14. Shafiquzzaman Siddiquee., **Nor Azah Yusof.**, Abu Bakar Salleh., Fatimah Abu Bakar, Electrochemical DNA biosensor for the detection of specific gene related to *Trichoderma harzianum* species. SKAM 23. 4-6/10/2010. Terengganu.
15. **Yusof, N.A**, Taufik, S, Tee, W.T, Ramli, I. 2010. Electrochemical detection of DNA hybridization based on bismuth oxide nanoparticles/chitosan-modified electrodes with methylene blue as an electrochemical indicator. 2010 International Conference on Enabling Science and Nanotechnology, ESciNano 2010 - Proceedings , art. no. 5701048.
16. Hairul Hisham Hamzah, **Nor Azah Yusof.**, Abu Bakar Salleh. Fatimah Abu Bakar. Optical test strip for detection of benzoic acid based on inhibitive effect on Tyrosinase Enzyme. 16th MCC . 12-14/10/2010. Kuala Lumpur
17. **Nor Azah Yusof, Siti Zareena Mohd. Saat, Tan Wee Tee, Abdul Halim Abdullah. Electrocatalytic Characteristic of Carbon Nanotube/Aspartic Acid Nanohybrid Modified Platinum Electrode in Development of Biosensor for Determination of Pb(II). Nano Today 2009. 2-5/8/2009. Singapore.**
18. **Nor Azah Yusof**, Dyana Zakaria, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of a molecularly imprinted polymer for removal of phenolic compound. Second International conference and workshops on basic and applied sciences and regional annual fundamental science seminar 2009 (ICORAFSS 2009). 3-4/6/2009. Johor Bahru, Johor.
19. **Nor Azah Yusof** and E.A.H Hall. Development of Electrochemical DNA Biosensor Based on Immobilization of ssDNA onto Polyelectrolyte Poly(allylamine hydrochloride) (PAH) by Using Screen Printed Electrode. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
20. Nurulhaidah Daud, **Nor Azah Yusof** and Tan Wee Tee. Electrocatalytic characteristic of nanoparticles/amino acid nanohybrid modified electrode in development of biosensor for determination of As(III). 10th Asian Conference on

Analytical Sciences. 11-13/8/2009. Kuala Lumpur.

21. Noorhasmiera Abu Jahar, **Nor Azah Yusof** and Kaida Khalid. Microwave based biosensor for determination of cholesterol in food. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
22. Siti Zareena Mohd. Saat, **Nor Azah Yusof**, Tan Wee Tee and Abdul Halim Abdullah. Development of novel nanotransducer for heavy metal ions biosensor by exploiting amino acids as recognition element. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
23. Safura Taufik, **Nor Azah Yusof** and Tan Wee Tee. Electrochemical study of interaction between redox intercalators and ssDNA/dsDNA. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
24. Nadiah Abdul Rahman, **Nor Azah Yusof** and Siti Mariam Mohd. Nor. Development of novel nanotransducer for toxic metal ions biosensor by exploiting cyclic peptides as recognition element. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
25. Mohd. Rashidi Abdull Manap, **Nor Azah Yusof** and Siti Mariam Mohd. Noor. Synthesis and characterization of peptide N-Nosyl-L-Isoleucyl D-Alanyl-L- Valine Methyl ester. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
26. Saliza Asman, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of membrane molecular imprinted polymer for methylene blue dye uptake. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
27. Nor Dyana Zakaria, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Fabrication of a molecular imprinted polymer membrane for 2,4-dinitrophenol. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
28. Anuar Kassim, Saeid Ahmadzadeh, Tan Wee Tee, **Nor Azah Yusof** , Lee Yook Heng and Majid Rezayi. Cesium(I) selective potentiometric membrane electrode based on p-isopropylcalix[6]arene in PVC matrix. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
29. Anuar Kassim, Majid Rezayi, Tan Wee Tee, **Nor Azah Yusof** , Lee Yook Heng and Saeid Ahmadzadeh. Anion recognition: fabrication of a highly selective and sensitive CrO₄²⁻ PVC sensor based on N.N'bis(salicylidene)ethyleneaminocobalt(II) hydrate. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
30. Siti Zareena Mohd. Saat, **Nor Azah Yusof**, Tan Wee Tee and Abdul halim Abdullah. Development of practical heavy metal ions biosensor by exploiting amino acids as recognition elements. Fundamental Science Congress 2009. UPM.
31. Saliza Asman, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah.

Synthesis and evaluation of membrane molecular imprinted polymer for methylene blue dye uptake. Fundamental Science Congress 2009. UPM.

32. Safura Taufik, **Nor Azah Yusof** and Tan Wee Tee. Electrochemical study of interaction between redox intercalators and ssDNA/dsDNA. Fundamental Science Congress 2009. UPM.
33. Nurulhaidah Daud, **Nor Azah Yusof**, Tan Wee Tee and Abdul halim Abdullah. Electrocatalytic characteristic of carbon nanotube/glutamine nanohybrid modified electrode in development of biosensor for determination of As(III). Fundamental Science Congress 2009. UPM.
34. Nor Dyana Zakaria, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of a molecular imprinted polymer for removal of 2,4-dinitrophenol in waste water treatment. Fundamental Science Congress 2009. UPM.
35. Noorhasmiera Abu Jahar, **Nor Azah Yusof** and Kaida Khalid. Microwave based biosensor for determination of cholesterol in food. Fundamental Science Congress 2009. UPM.
36. Nadiah Abdul Rahman, **Nor Azah Yusof** and Siti Mariam Mohd. Nor. Development of novel nanotransducer for toxic metal ions biosensor by exploiting cyclic peptides as recognition element. Fundamental Science Congress 2009. UPM.
37. Mohd. Rashidi Abdull Manap, **Nor Azah Yusof**, Siti Mariam Mohd. Noor and Faujan Ahmad. Synthesis and Characterization of peptidyl fluorescent probe dansyl-glycine-serine-glycine-methyl ester; application for metal ion detection. Fundamental Science Congress 2009. UPM.
38. Hossein Jahangirian, Wan Md. Zin Wan Yunus, Md. Jelas Haron, **Nor Azah Yusof**. Separation of fatty hydroxamic acids from canola oil by precipitation of copper fatty hydroxamate and nitric acid stripping. Fundamental Science Congress 2009. UPM.
39. Nora Salina Md. Salim, Kaida Khalid, **Nor Azah Yusof**. Microwave based biosensor for glucose detection. Fundamental Science Congress 2009. UPM.
40. Hasnidar Hamid, Kaida Khalid, **Nor Azah Yusof**. Dielectric properties of lipid at microwave frequencies. Fundamental Science Congress 2009. UPM.
41. Yadollah Abdollahi, Abdul Halim Abdullah, Zulkarnain Zainal, **Nor Azah Yusof**. Photodegradation aquatic m-cresol by ZnO under UV and visible light irradiation. Fundamental Science Congress 2009. UPM.
42. **Azizul Isha, Nor Azah Yusof, Mazura Abdul Malik and Hazlina Hamdan. 2005. Simultaneous Determination of Pb(II) and Cd(II) Using Artificial Neural Network Based on 4-(2-pyridylazo resorcinol). In E-proceeding of International Conference on Sensors & International Conference on New Techniques in Pharmaceutical and Biomedical Research. Kuala Lumpur, Malaysia.**

43. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra and Wan Md Zin Wan Yunus. 2004. Characterization of V(V) Ion Optrode Based on Fatty Hydroxamic Acid Immobilized in Polyvinyl Chloride. Dalam E-proceeding Simposium Kimia Analisis Malaysia ke 17. Kuantan , Pahang.
44. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Dedy Suhendra and Wan Md Zin Wan Yunus. 2004. Spectrophotometric Determination of Trace Iron(III) and Vanadium(V) Ions Based on Fatty Hydroxamic Acid. In E-proceeding of Regional Conference For Young Chemist. USM, Penang.
45. Musa Ahmad dan **Nor Azah Yusof**, 2002, Penderia Opto Sel Aliran Untuk Penentuan Co(II) dan Pb(II) Menggunakan Membran Kitosan, Prosiding Seminar IRPA RMK 7, Jilid II, m.s. 200-204.
46. **Nor Azah Yusof** dan Musa Ahmad, 2002, A Development of a Flow Optosensor for Determination of Pb(II) and Co(II) ions based on immobilized PAR and Gallocynine by Using Flow Injection Analysis, Prosiding Kolokium Pertama Fakulti Sains dan Teknologi.
47. **Musa Ahmad and Nor Azah Yusof, 2002, The Use of Immobilised Gallocynine in Chitosan Membrane for Lead(II) detection based on Flow Injection Opto-sensor, Abstract Book for EUROPT(R)ODE VI: The 6th European Conference on Optical Chemical Sensors and Biosensors, Manchester, England, page 187.**
48. Musa Ahmad dan **Nor Azah Yusof**, 2000, Pembinaan Penderia Kimia Gentian Optik Untuk Pengesanan Beberapa Logam Berat Berasaskan Analisis Suntikan Aliran II, Prosiding Seminar IRPA RMK-7, Jilid II, 494-497.
49. Musa Ahmad, Jariah Abdullah, Norezuny Mohamad, Che Faridah Osman, Elya Sulfiza Marsom dan **Nor Azah Yusof**, 2000, Gentian Optik Sebagai Media Untuk Penderiaan Spesies Kimia di persekitaran, Prosiding Seminar Kimia Bersama ITB-UKM IV, 417-422.
50. Musa Ahmad dan **Nor Azah Yusof**, 1999, Pembinaan Penderia Kimia Gentian Optik Untuk Pengesanan Beberapa Logam Berat Berasaskan Analisis Suntikan Aliran I, Prosiding Seminar IRPA-UKM RMK7, Jilid 3, 607-615.
51. **Nor Azah Yusof** dan Musa Ahmad, 1998, Pengesanan Logam Plumbum dan Kobalt Menggunakan Gabungan Analisis Suntikan Aliran dan Gentian Optik, Pascasidang Kolokium Pasca –siswazah, Fakulti Sains Fisis dan Gunaan.
52. **Nor Azah Yusof** and Khairunnisa Rashid. Development of a chemical sensor for trace As(III) ion based on immobilized gallocyanine. In abstract of International Conference: 19th Malaysian Analytical Chemistry Symposium. (SKAM 19) and 2nd Malaysian Conference on Catalysis (MyCat 2). Page 60.
53. **Nor Azah Yusof** and Zainab Omar. Spectrophotometric Determination of Trace Arsenic(III) ion based on Complex Formation with Gallocyanine. Dalam buku abstrak Simposium Kimia Analisis Malaysia ke 18. ms F34.

54. Azizul Isha, **Nor Azah Yusof**, Mazura Abdul Malik and Hazlina Hamdan. Simultaneous Spectrophotometric Determination of Pb(II) and Cd(II) using artificial Neural Networks Based on 4-(2- pyridylazo) resorcinol. In abstract book of AsiaSense 2005 International Conference on New Techniques in Pharmaceutical and Biomedical Research. Page 50.
55. **Nor Azah Yusof** and Musa Ahmad. Solid State Optical Fibre Sensor for Co(II) and Pb(II) ions In abstract book of Regional Conference For Young Chemist.13-14/4/2004. Page 76.
56. Azizul Isha, **Nor Azah Yusof**, Musa Ahmad, Deddy Suhendra and Wan Md Zin Wan Yunus. Spectrophotometric Determination of Trace V(V) Ion Based on Fatty Hydroxamic Acid. In abstract book of Regional Conference For Young Chemist. Page 36.
57. Azizul Isha, **Nor Azah Yusof** , Musa Ahmad, Deddy Suhendra and Wan Md Zin Wan Yunus.Characterization of V(V) Ion Optrode Based on Fatty Hydroxamic Acid Immobilised in PVC. Dalam buku abstrak Simposium Kimia Analisis Malaysia ke 17. ms 55.
58. **Nor Azah Yusof** & Musa Ahmad. Pembinaan penderia kimia gentian optic bagi pengesanan logam Co(II). Dalam buku abstrak Simposium Kimia Analisis Malaysia ke 14. ms 30.
59. **Nor Azah Yusof** & Musa Ahmad. Pengesanan logam plumbum dan kobalt menggunakan kaedah analisis suntikan aliran. Dalam buku abstrak Simposium Kimia Analisis Malaysia ke 12. ms 17.
60. **Nor Azah Yusof** & Musa Ahmad. Pendopan beberapa penunjuk pH di dalam membran kitosan. Dalam buku abstrak Simposium Kimia Analisis Malaysia ke 11. ms L40

Conference / Seminar / Workshop / Symposium Attended /Presented

International

1. **Nor Azah Yusof, Siti Zareena Mohd. Saat, Tan Wee Tee, Abdul Halim Abdullah. Electrocatalytic Characteristic of Carbon Nanotube/Aspartic Acid Nanohybrid Modified Platinum Electrode in Development of Biosensor for Determination of Pb(II). Nano Today 2009. 2-5/8/2009. Singapore.**
2. **Nor Azah Yusof. Investigation of the Interaction Between ssDNA/ds DNA and Hoechst 33258; Towards Development of an Electrochemical DNA Biosensor. EUROPTRODE IX. 30/3-2/4 2008. Dublin.**
3. **Azizul Isha, Nor Azah Yusof, Mazura Abdul Malik and Hazlina Hamdan. 2005. Simultaneous Determination of Pb(II) and Cd(II) Using Artificial Neural Network Based on 4-(2-pyridylazo resorcinol). In E-proceeding of International Conference on Sensors & International Conference on New Techniques in Pharmaceutical and Biomedical Research. Kuala Lumpur,**

Malaysia.

4. **Azizul Isha, Nor Azah Yusof, Mazura Abdul Malik and Hazlina Hamdan** Application of Artificial Neural Network to Simultaneous Spectrophotometric Determination of Lead(II) and Mercury(II) based on 2-(5-Bromo-2-Pyridylazo)-5-Diethylaminophenol. ASIASENSE. 14-18/7/2003. Kuala Lumpur.
5. **Musa Ahmad and Nor Azah Yusof, 2002, The Use of Immobilised Gallocynine in Chitosan Membrane for Lead(II) detection based on Flow Injection Opto-sensor, Abstract Book for EUROPT(R)ODE VI: The 6th European Conference on Optical Chemical Sensors and Biosensors, Manchester, England, page 187.**

National

1. **Nor Azah Yusof**, Mohd Rashidi Abdul Manap, Siti Mariam Mohd. Nor and Faujan b.H. Ahmad. Synthesis and Characterization of Peptidyl Fluorescent for Metal Ion detection. FSC 2011. 5-6/7/2011. UPM
2. Nurulhaidah Daud, **Nor Azah Yusof** and Tan Wee Tee. Development of electrochemical sensor for detection of mercury by exploiting peptide modified electrode. FSC 2011. 5-6/7/2011. UPM
3. Roozbeh Hushiarian, Nor Azah Yusof, Abdul Halim Abdullah and Shahrul Ainliah Alang Ahmad. Design and construction of a DNA bioreceptor using quantum dot and chemically synthesized water soluble iron oxide magnetic nanoparticles. FSC 2011. 5-6/7/2011. UPM.
4. Sabo Wada Dutse, **Nor Azah Yusof** and Haslina Ahmad. Electrochemical characterization of interaction between ruthenium complex and DNA molecule. FSC 2011. 5-6/7/2011. UPM.
5. **Nor Azah Yusof** and Eng Jun Shearn. Development of melamine imprinted polymer appended with ZnS quantum Dot for melamine detection. FSC 2011. 5-6/7/2011. UPM.
6. Mohammad Zakaria Othman, **Nor Azah Yusof**, Abdul halim Abdullah and Shahrul Ainliah Alang Ahmad. Detection of COD by photocatalytic degradation of organic compound using TiO₂-film via fluorescence method. FSC 2011. 5-6/7/2011. UPM.
7. Noremylia Mohd. Bakhori, **Nor Azah Yusof**, Abdul halim Abdullah and Mohd. Zobir Hussien. Development of DNA based nanosensor for early detection of *Ganoderma boninense*. FSC 2011. 5-6/7/2011. UPM
8. Siti Khadijah Ab. Rahman, **Nor Azah Yusof**, Nor Azowa Ibrahim and Mohd. Zobir Hussein. Development of rapid system for melamine based on optical transducer system. FSC 2011. 5-6/7/2011. UPM.
9. Shafiquzzaman Siddiquee., **Nor Azah Yusof**., Abu Bakar Salleh., Fatimah Abu Bakar, Electrochemical DNA biosensor for the detection of specific gene related to *Trichoderma harzianum* species. SKAM 23. 4-6/10/2010. Terengganu.

10. **Yusof, N.A.**, Taufik, S, Tee, W.T, Ramli, I. 2010. Electrochemical detection of DNA hybridization based on bismuth oxide nanoparticles/chitosan-modified electrodes with methylene blue as an electrochemical indicator. 2010 International Conference on Enabling Science and Nanotechnology, ESciNano 2010 - Proceedings , art. no. 5701048.
11. Hairul Hisham Hamzah, **Nor Azah Yusof.**, Abu Bakar Salleh. Fatimah Abu Bakar. Optical test strip for detection of benzoic acid based on inhibitive effect on Tyrosinase Enzyme. 16th MCC . 12-14/10/2010. Kuala Lumpur.
12. **Nor Azah Yusof**, Siti Zareena Mohd. Saat, Tan Wee Tee, Abdul Halim Abdullah. Electrocatalytic Characteristic of Carbon Nanotube/Aspartic Acid Nanohybrid Modified Platinum Electrode in Development of Biosensor for Determination of Pb(II). Nano Today 2009. 2-5/8/2009. Singapore.
13. **Nor Azah Yusof**, Dyana Zakaria, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of a molecularly imprinted polymer for removal of phenolic compound. Second International conference and workshops on basic and applied sciences and regional annual fundamental science seminar 2009 (ICORAFSS 2009). 3-4/6/2009. Johor Bahru, Johor.
14. **Nor Azah Yusof** and E.A.H Hall. Development of Electrochemical DNA Biosensor Based on Immobilization of ssDNA onto Polyelectrolyte Poly(allylamine hydrochloride) (PAH) by Using Screen Printed Electrode. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
15. Nurulhaidah Daud, **Nor Azah Yusof** and Tan Wee Tee. Electrocatalytic characteristic of nanoparticles/amino acid nanohybrid modified electrode in development of biosensor for determination of As(III). 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
16. Noorhasmiera Abu Jahar, **Nor Azah Yusof** and Kaida Khalid. Microwave based biosensor for determination of cholesterol in food. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
17. Siti Zareena Mohd. Saat, **Nor Azah Yusof**, Tan Wee Tee and Abdul Halim Abdullah. Development of novel nanotransducer for heavy metal ions biosensor by exploiting amino acids as recognition element. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
18. Safura Taufik, **Nor Azah Yusof** and Tan Wee Tee. Electrochemical study of interaction between redox intercalators and ssDNA/dsDNA. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
19. Nadiah Abdul Rahman, **Nor Azah Yusof** and Siti Mariam Mohd. Nor. Development of novel nanotransducer for toxic metal ions biosensor by exploiting cyclic peptides as recognition element. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
20. Mohd. Rashidi Abdull Manap, **Nor Azah Yusof** and Siti Mariam Mohd. Noor.

Synthesis and characterization of peptide N-Nosyl-L-Isoleucyl D-Alanyl-L- Valine Methyl ester. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.

21. Saliza Asman, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of membrane molecular imprinted polymer for methylene blue dye uptake. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
22. Nor Dyana Zakaria, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Fabrication of a molecular imprinted polymer membrane for 2,4-dinitrophenol. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
23. Anuar Kassim, Saeid Ahmadzadeh, Tan Wee Tee, **Nor Azah Yusof** , Lee Yook Heng and Majid Rezayi. Cesium(I) selective potentiometric membrane electrode based on p-isopropylcalix[6]arene in PVC matrix. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
24. Anuar Kassim, Majid Rezayi, Tan Wee Tee, **Nor Azah Yusof** , Lee Yook Heng and Saeid Ahmadzadeh. Anion recognition: fabrication of a highly selective and sensitive CrO₄²⁻ PVC sensor based on N.N'bis(salicylidene)ethyleneaminocobalt(II) hydrate. 10th Asian Conference on Analytical Sciences. 11-13/8/2009. Kuala Lumpur.
25. Siti Zareena Mohd. Saat, **Nor Azah Yusof**, Tan Wee Tee and Abdul halim Abdullah. Development of practical heavy metal ions biosensor by exploiting amino acids as recognition elements. Fundamental Science Congress 2009. UPM.
26. Saliza Asman, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of membrane molecular imprinted polymer for methylene blue dye uptake. Fundamental Science Congress 2009. UPM.
27. Safura Taufik, **Nor Azah Yusof** and Tan Wee Tee. Electrochemical study of interaction between redox intercalators and ssDNA/dsDNA. Fundamental Science Congress 2009. UPM.
28. Nurulhaidah Daud, **Nor Azah Yusof**, Tan Wee Tee and Abdul halim Abdullah. Electrocatalytic characteristic of carbon nanotube/glutamine nanohybrid modified electrode in development of biosensor for determination of As(III). Fundamental Science Congress 2009. UPM.
29. Nor Dyana Zakaria, **Nor Azah Yusof**, Md. Jelas Haron and Abdul Halim Abdullah. Synthesis and evaluation of a molecular imprinted polymer for removal of 2,4-dinitrophenol in waste water treatment. Fundamental Science Congress 2009. UPM.
30. Noorhasmiera Abu Jahar, **Nor Azah Yusof** and Kaida Khalid. Microwave based biosensor for determination of cholesterol in food. Fundamental Science Congress 2009. UPM.

31. Nadiah Abdul Rahman, **Nor Azah Yusof** and Siti Mariam Mohd. Nor. Development of novel nanotransducer for toxic metal ions biosensor by exploiting cyclic peptides as recognition element. Fundamental Science Congress 2009. UPM.
32. Mohd. Rashidi Abdull Manap, **Nor Azah Yusof**, Siti Mariam Mohd. Noor and Faujan Ahmad. Synthesis and Characterization of peptidyl fluorescent probe dansyl-glycine-serine-glycine-methyl ester; application for metal ion detection. Fundamental Science Congress 2009. UPM.
33. Nor Amirah Mohd. Maamor, Tan Wee Tee, **Nor Azah Yusof**. Fabrication and voltammetric characterization of deoxyribonucleic acid sensor based on nano-titanium dioxide/carbon nanotubes/chitosan-modified glassy carbon electrode. Fundamental Science Congress 2009. UPM.
34. Anuar Kassim, Saeid Ahmadzadeh, Tan Wee Tee, **Nor Azah Yusof**, Lee Yook Heng and Majid Rezayi. Fabrication of a PVC membrane Ce(III) selective electrode based on p-isopropylcalix[6]arene as an ionophore. Fundamental Science Congress 2009. UPM.
35. Anuar Kassim, Majid Rezayi, Tan Wee Tee, **Nor Azah Yusof**, Lee Yook Heng and Saeid Ahmadzadeh. Highly selective PVC-membrane electrode based on N,N'-bis(salicylidene)ethyleneaminocobalt(II) hydrate for determination of CrO_4^{2-} . Fundamental Science Congress 2009. UPM.
36. Md. Jelas Haron, Nur Anisah Shafie, **Nor Azah Yusof**, Anuar Kassim and W.M.Z. Wan Yunus. Hydroxamic acid grafted zeolite P for Cu(II) removal. Fundamental Science Congress 2009. UPM.
37. Johari I.S, Wan Yunus W.M.Z., Haron, M.J., **Yusof, N.A.** Synthesis and Characterization of fatty thiohydrazides from fatty hydrazide. Fundamental Science Congress 2009. UPM.
38. Hossein Jahangirian, Wan Md. Zin Wan Yunus, Md. Jelas Haron, Nor Azah Yusof. Separation of fatty hydroxamic acids from canola oil by precipitation of copper fatty hydroxamate and nitric acid stripping. Fundamental Science Congress 2009. UPM.
39. Nora Salina Md. Salim, Kaida Khalid, Nor Azah Yusof. Microwave based biosensor for glucose detection. Fundamental Science Congress 2009. UPM.
40. Hasnidar Hamid, Kaida Khalid, Nor Azah Yusof. Dielectric properties of lipid at microwave frequencies. Fundamental Science Congress 2009. UPM.
41. Yadollah Abdollahi, Abdul Halim Abdullah, Zulkarnain Zainal, Nor Azah Yusof. Photodegradation aquatic m-cresol by ZnO under UV and visible light irradiation. Fundamental Science Congress 2009. UPM.
42. Autolab SPR Workshop. 18/3/2009. Serdang.
43. International Advanced Technology Congress 2009. 3-5/11/2009. Kuala Lumpur.

44. Malaysia Polymer International Conference 2009. 21-22/10/2009. Putrajaya.
45. 1st Conference on water Chemistry and Health. 24-25/11/2009. Putrajaya.
46. **Nor Azah Yusof** (Oral) and Khairunnisa Rashid. Development of a chemical sensor for trace As(III) ion based on immobilized galloyanine. International Conference: 19th Malaysian Analytical Chemistry Symposium. (SKAM 19) and 2nd Malaysian Conference on Catalysis (MyCat 2). 21-24/8/05. Melaka.
47. **Nor Azah Yusof (Oral)** and Zainab Omar. Spectrophotometric Determination of Trace Arsenic(III) ion based on Complex Formation with Galloyanine. Simposium Kimia Analisis Malaysia ke 18. 12-14/9/05. Johor Bahru, Johor
48. **Nor Azah Yusof** (Oral) and Khairunnisa Rashid. Development of a chemical sensor for trace As(III) ion based on immobilized galloyanine. International Conference: 19th Malaysian Analytical Chemistry Symposium. (SKAM 19) and 2nd Malaysian Conference on Catalysis (MyCat 2). 21-24/8/05. Melaka.
49. **Nor Azah Yusof (Oral)** and Zainab Omar. Spectrophotometric Determination of Trace Arsenic(III) ion based on Complex Formation with Galloyanine. Simposium Kimia Analisis Malaysia ke 18. 12-14/9/05. Johor Bahru, Johor
50. Azizul Isha, **Nor Azah Yusof (Oral)**, Mazura Abdul Malik and Hazlina Hamdan. Simultaneous Spectrophotometric Determination of Pb(II) and Cd(II) using artificial Neural Networks Based on 4-(2- pyridylazo) resorcinol. AsiaSense 2005 International Conference on New Techniques in Pharmaceutical and Biomedical Research. 5-7/9/05 .Kuala Lumpur.
51. **Nor Azah Yusof (poster)** and Musa Ahmad. Solid State Optical Fibre Sensor for Co(II) and Pb(II) ions Regional Conference For Young Chemist.13-14/4/2004. USM, P.Pinang.
52. Azizul Isha, **Nor Azah Yusof (oral)**, Musa Ahmad, Deddy Suhendra and Wan Md Zin Wan Yunus. Spectrophotometric Determination of Trace V(V) Ion Based on Fatty Hydroxamic Acid. Regional Conference For Young Chemist.13-14/4/2004. USM, P.Pinang.
53. Azizul Isha, **Nor Azah Yusof (oral)**, Musa Ahmad, Deddy Suhendra and Wan Md Zin Wan Yunus.Characterization of V(V) Ion Optrode Based on Fatty Hydroxamic Acid Immobilised in PVC. Simposium Kimia Analisis Malaysia ke 17. 24-26/8/04. Kuantan Pahang.

J. Extension and Public Service

Editorial Membership

1. Editorial Board Member. Chemical Sensors. Simplex Academic Publisher. India. <http://www.simplex-academic-publishers.com/chemsen.aspx>.
2. Editorial Board Member. International Journal of Chemistry. India. <http://www.ibhjournals.com>

As Journal Reviewer

Analytica Chimica Acta

1. A Prussian blue-based flow through renewable surface optosensor for analysis of ascorbic acid.
2. Novel PVC membrane bulk optode sensor for determination of Uranyl ion

IEEE Sensors journal

1. Determination of lead ions by an optical sensor based on 2-amino-cyclopentene-1-dithiocarboxylic Acid
2. A disposable optical fibre based capillary probe for sensing lead ions
3. Construction and evaluation of a disposable pH sensor based on a large core plastic optical fiber

Talanta

1. A highly sensitive and selective chemosensor cyanide

Journal of Applied Polymer Sciences

1. Synthesis and Investigation of New Macroporous Monolith Material Based on N-hydroxyphthalimide ester of acrylic acid-co-glycidyl methacrylate-co-ethylene dimethacrylate terpolymer.

Journal of Hazardous Materials

1. Mineralization of 2,4-Dichlorophenol by ozone assisted with trace permanganate: effect of pH values.

Spectrochimica Acta A

1. Flow Injection Spectrophotometric Analysis of Tetracycline Chlorotetracycline or Oxytetracycline.
2. Catalyse dynamics fluorometry for the determination of vanadium in the organs of diabetes mellitus rats
3. Interaction mode between methylene blue-Sm complex and herring sperm dna

Sensors & Actuators B

1. Development and performance evaluation of ozone detection paper using azo dye orange I; effect of pH
2. Uranium(VI) Detection Using nafion-117 based Pool Optode

Industrial & Engineering Chemistry Research

1. Studies on adsorption mechanism of a novel resin for phenol separation

Biosensors and Bioelectronics

1. Organic electrochemical transistor based immunosensor for prostatic specific antigen detection using gold nanoparticle for signal amplification
2. A label free biosensor based serum antibody immobilization for the rapid detection of viral antigens

Colloids and Surfaces A

1. Self assembled monolayer for M.Tuberculosis Detection

Bioprocess and Biosystem Engineering

1. Immobilizing Pt nanoparticles and chitosan hybrid film on polyaniline nanofibers membrane for an amperometric hydrogen peroxide biosensor

Material Science and Engineering B

1. Interaction of anticancer drug mitomycin c with dna immobilized onto pply(vinylferrocenium) coated platinum electrode

Analytical Methods

1. Electrochemical genosensors based on PCR strategies for microorganisms detection and quantification

Malaysian Journal of Analytical Science (2 papers)

Pertanika Journal (2 papers)

Jurnal Sains malaysia - Analisis kuantitatif aluminium(III) menggunakan alizarin red S dan jaringan neural tiruan.

Examiners for Postgraduate Thesis

External

1. Muawia (Mohd-Ali) salameh Alqasaimah (MSc) – Immobilization of Chromoionophore and Urea Enzyme In Stacked Sol-Gel Films For Optical Urea Biosensor. UKM. 2007.
2. Nurul haniza Mustapa (MSc) – development of biological Oxygen Demand (BOD) biosensor for water quality. UniMAP. 2011
3. Emi Shaqiza Azizi (MSc) – Characterization of molecularly imprinted polimer (MIP) for an extrcation of curcumin from *Curcuma longa* (Turmeric). UniMAP 2011

Internal

1. Goh Joo Kheng (PhD) – Electrochemical Studies at C60-fullerene, Tetrathiafulvalene and Silicon Polyoxometalate Modified Solid Electrodes- Characterization and Application. 2005.
2. Ahmad Alfaiz Shapiee (MSc) – The effect of Various Biomolecules on the Physico Chemical Properties of Zonc Oxide Synthesized by Hydrolysis Method. 2005.
3. Sonny Widiarto (MSc) – Preparation and Characterization of Biodegradable Films from Sago Starch and Poly(Vinyl Alcohol) Blends. 2004.
4. Tan Yee Wean (MSc) – Synthesis and Characterization of The Molybdenum Vanadium Oxide Based Prepared VIA Reflux Method. 2007.
5. Sharifah Mohamad (PhD) – Enzymatic synthesis, characterization and analytical applications of fatty hydrazides from palm oil. 2008.
6. Farha Ab. Rahim (MSc) – Sorption and removal of arsenic by cerium exchanged zeolite. 2008.
6. Abdulsalam Abubakar Salisu (PhD) – Design, synthesis and Characterization of new liquid crystalline compounds containing azobenzene and bisazobenzene moieties.

2009.

7. Wong Sook Yeng (MSc) – Removal of basic and reactive dyes using quartenized sugar cane bagasse. 2009.
8. Yuen Mei Lian (MSc) – Removal of dyes using citric acid modified oil palm shell. 2009.
9. KhairulAzhar Jumbri (MSc) – Functional synthesis of new chiral ionic liquid for use in biocatalysis applications. 2009.
10. Koo Chee Siong (MSc) – Potentiostatic and pulse electrodeposition of copper selenide thin films. 2009.
11. Mohd. Farhan Bin Yusri (MSc) – Electrochemical study of magnesium diboride modified electrode 2009
12. Khairunnisa Zainuddin (MSc) – Determination of PFOA and PFOS in water samples of Langat river 2010
13. Zati Ismah Ishak (MSc) – Dissolution of lignocellulosic material and biomass by ionic liquids 2011
14. Nur Hidayah Abdul Latip (MSc) – Characterization and evaluation on the potential durian shell as biofilter media for ammonia gas removal
15. Nor Sahzlihah Shazlyn Abdul Rahman – Controlled release formulation based on simultaneous intercalation of 4-(2,4 dichlorophenoxy) butyrate and 2-(3-Chlorophenoxy)propionate nanohybrid

Chairman of Examination Committee

1. Fariz Adzmi (MSc) – Conducting Polymer Polypyrrole/montmorillonite Clay Nanocomposite: Preparation and Characterization. 2007.
2. Isam Hussain T. Al-Karkhi (PhD)– Synthesis, Characterization and Bioactivity of New Phosphorous Containing Schiff bases Prepared From Dithiocarbazate derivatives nad Their Metal complexes

Penilai manuskrip bagi bengkel penulisan Jabatan Kimia siri 2- 2008

Penilai manuskrip jemputan bagi bengkel penulisan ITMA -2008

K.	INTERNATIONAL/INDUSTRIAL NETWORKING
	<p data-bbox="316 1462 639 1496">i. International networking</p> <ul style="list-style-type: none"><li data-bbox="443 1525 1358 1576">• Byeang Hyeon Kim , Department of Chemistry Pohang University of Science and Technology (POSTECH). Korea.<li data-bbox="443 1581 1369 1632">• Bansi Dhar Malhotra, Scientist G & Head, Department of Science & Technology ,Centre on Biomolecular Electronics ,National Physical Laboratory, New Delhi, India.<li data-bbox="443 1637 1331 1666">• J.Justin Gooding, School of Chemistry, UNSW, Sydney, NSW, 2052, Australia.<li data-bbox="443 1671 1331 1722">• Aliasghar Ensafi (Ali A. Ensafi), Department of Chemistry, Isfahan University of Technology, Isfahan, Iran <p data-bbox="316 1776 608 1809">ii. Industrial Networking</p> <ol style="list-style-type: none"><li data-bbox="395 1832 1187 1861">a. RapiLab Sdn Bhd (Prototype on amperometric metal detector) (MOU)<li data-bbox="395 1865 1369 1917">b. Hg Solution Sdn Bhd (Removal of mercury from crude petroleum, petroleum condensate and use water) (MOU) <p data-bbox="316 1939 544 1973">iii. Consultation</p> <ul style="list-style-type: none"><li data-bbox="443 1977 1075 2007">• TUDM – Solve problem of engine oil contamination<li data-bbox="443 2011 1369 2040">• Hg Solution Sdn Bhd (Petronas Subsidiary) – to lower down mercury

	content in crude petroleum
L.	Extracurricular Activity
	<ol style="list-style-type: none">1. Associate member of Institute Kimia Malaysia (A2774/5479/2009)2. Member of ANALIS (A284)3. Persatuan penduduk Taman Sutera, Kajang4. PIBG Sekolah Saujana Impian 25. Persatuan NGO Pertubuhan IKRAM Malaysia (IKRAM)6. Persatuan NGO Persatuan Saintis Muslim Malaysia (PERINTIS)\7. Chairman of textbook evaluation team for KSSR programme under KPM