

**ACADEMIC STAFF CURRICULUM VITAE****Curriculum Vitae****Assoc. Prof. Dr. Jaafar Abdullah****Academic Qualifications**

- Ph.D. in Chemistry (Universiti Kebangsaan Malaysia) (2007).
- B.Sc. in Chemistry (Universiti Kebangsaan Malaysia) (1995).

**Professional Members**

- Chairman, Malaysian Society for Sensor Technology Development (Sensor), 2019-2021.
- Deputy Chairman, Malaysian Society for Sensor Technology Development (Sensor), 2017-2018.
- Chairman, Malaysian Society for Sensor Technology Development (Sensor), 2015-2016.
- Deputy Chairman, Malaysian Society for Sensor Technology Development (Sensor), 2012-2014.
- Functional Device Laboratory, Associate, 2015-2017.
- Malaysian Society for Sensor Technology Development (Sensor) membership (0039)
- Royal Science Chemistry (RSC) membership (638474)
- Persatuan Sains Analisis Malaysia (Analisis), membership (A435)

**Teaching and Administration Responsibility****Undergraduate**

No.	Module Code	Module	Credit	No. of Students	Sem, Year	Teaching Assessment
1	CHM3401	Analytical Chemistry	3	60	Sem 2, 2012/13	4.32
2	CHM3010	Physical and Inorganic Chemistry	1	40	Sem 2, 2012/13	4.47
3	CHM4001	Industrial Chemistry	3	16	Sem 1 2013/14	4.65
4	CHM3010	Physical and Inorganic Chemistry	2	78	Sem 1, 2013/14	4.01
5	CHM3401	Analytical Chemistry	3	56	Sem 2, 2013/14	4.33
6	CHM3010	Physical and Inorganic Chemistry	1	47	Sem 2, 2013/14	4.5
7	CHM3401	Analytical Chemistry	3	53	Sem 1, 2014/15	4.45
8	CHM3010	Physical and Inorganic Chemistry	2	72	Sem 1, 2014/15	4.19

9	CHM3401	Analytical Chemistry	1	51	Sem 2, 2014/15	4.55
10	CHM3010	Physical and Inorganic Chemistry	2	49	Sem 2, 2014/15	4.67
11	CHM3100	Basic Physical Chemistry	2	59	Sem 1 2015/16	4.15
12	CHM3010	Physical and Inorganic Chemistry	1	65	Sem 1, 2015/16	4.33
13	CHM4001	Industrial Chemistry	1	62	Sem 1, 2015/16	4.49
14	CHM3401	Analytical Chemistry	3	46	Sem 2, 2015/16	4.60
15	CHM3101	Physical Chemistry	1	42	Sem 2, 2015/16	4.51
16	CHM3100	Basic Physical Chemistry	4	31	Sem 1, 2016/17	4.50
17	CHM3010	Physical and Inorganic Chemistry	1	41	Sem 1, 2016/17	4.49
18	CHM5002	Laboratory Safety	1	19	Sem 1, 2016/17	4.63
19	CHM3401	Analytical Chemistry	3	46	Sem 2, 2016/17	4.64
20	CHM5002	Laboratory Safety	1	11	Sem 2, 2016/17	4.20
21	CHM3010	Physical and Inorganic Chemistry	1	35	Sem 1, 2017/18	4.29
22	CHM4001	Industrial Chemistry	2	37	Sem 1 2017/18	4.78
23	CHM5002	Laboratory Safety	1	15	Sem 1, 2017/18	4.90
24	CHM4001	Industrial Chemistry	2	32	Sem 2 2017/18	4.69
25	CHM4959A	Bachelor Disertation	1	110	Sem 2 2017/18	4.63
26	CHM5002	Laboratory Safety	1	11	Sem 2, 2017/18	
27	CHM4959B	Bachelor Disertation	1	110	Sem 1 2018/19	4.67
28	CHM3010	Physical and Inorganic Chemistry	4	39	Sem 1 2018/19	
29	CHM3101	Physical Chemistry	3	30	Sem 2 2018/19	4.88
30	CHM5002	Laboratory Safety	2	14	Sem 2 2018/19	4.31
31	CHM3401	Analytical Chemistry	1.5	29	Sem 1 2019/20	4.65
32	CHM5002	Laboratory Safety	3	21	Sem 1 2019/20	4.77
33	CHM3101	Physical Chemistry	3	28	Sem 2 2019/20	4.83

34	CHM5002	Laboratory Safety	1		Sem 2 2019/20	

### Working Experiences

1. Associate Professor at Universiti Putra Malaysia from December 2018 to current.
2. Senior Lecturer at Universiti Putra Malaysia from December 2012 to November 2018.
3. Researcher at SIRIM Berhad from September 1996 to November 2012.
4. Research Officer at SIRIM from September 1995 to September 1996.

### Research Projects

No	Project No.	Project Title	Role	Year	Source of fund	Status
1	Science fund 02-03-02-SF0002 RM 250,000	Optical sensor for determination of ammonia in wastewater leachate and agriculture industries	Project head	2006-2009	MOSTI	Completed
2	NBD Top-down 07-03-08-EIB008 RM 810,000	Development of enzyme based amperometric biosensors for the detection of ammonia and heavy metals in water and soil	Project head	2007-2010	MOSTI	Completed
3	Science fund 03-03-02-SF0158 RM 288,000	Application of Core-Shell Quantum Dots for Glucose Monitoring	Team member	2011-2012	MOSTI	Completed
4	Science fund 03-03-02-SF0122 RM 237,000	Development of quantum dots-enzyme hybrid system for the determination of uric acid	Project head	2010-2012	MOSTI	Completed
5	Biosurveillance fund, MOSTI RM 40,000	Biosensor for the determination of ammonia in aquaculture industries: Biosurveillance for environmental monitoring	Project head	2012-2013	MOSTI	Completed
6	NND Fund NND/ND/(1)/TD11-008 RM 25,000 (RM 369,000)	Multifunctional Nanofluidic Biochip for Dengue Detection Utilizing Silicon Nanostructure	Project head	2012-2013	NND MOSTI	Completed
7	Geran Putra GP- IPB/2013/9412700 RM 231,000	Affordable, Ultrasensitive and Non-Invasive Detection System For Mycobacterium Tuberculosis for Future Decentralization Healthcare Services	Team member	2013-2015	GB-IPB (UPM)	Completed
8	FRGS 02-01-13-1244FR	Sustainability of nanocrystalline cellulose/chitosan composite film	Project head	2013-2015	MOHE	Completed

	RM 105,000	as immobilization and stabilization support for tyrosinase				
9	RAGS RAGS/2013/UITM/S G05/4 RM 80,000	Triglyceride biosensor based on PEG/ZrO <sub>2</sub> nanocomposite film (Collabration with UITM)	Team member	2013-2015	MOHE	Completed
10	FRGS FRGS/2/2013/SG01/ UPM/01/2 RM 100,000	Study on novel chitosan-based nanoimmunosensing probe formed by layer-by-layer assembly for dual application sites of cancer cell diagnosis and controlled drug release	Team member	2013-2015	FRGS	Completed
11	GP- IPS/2014/9438734 RM 15,000	Investigation of encapsulated CdS luminescence quantum dots into sol-gel matrix for uric acid detection	Project head	2014-2016	UPM	Completed
12	Science fund 03-01-04-SF2045 RM 185,000	Nanocrystalline cellulose/chitosan composite encapsulated quantum dots for sensing applications	Project head	2014-2016	NND, MOSTI	Completed
13	Science fund 03-01-04-SF2044 RM 184,000	Investigation on the production and properties of poly(3,4-ethylenedioxythiophene)/nanocrystalline cellulose (PEDOT/NCC) composite	Team member	2014-2016	NND, MOSTI	Completed
14	Science fund 03-01-02-SF1106 RM 339,400	Encapsulation efficiency and drug release mechanism of high performance biocompatible modified cellulose nanocrystals-gelatin hydrogel (Collabration with UKM)	Team member	2014-2016	MOSTI	Completed
15	MOH Grant IMR/CDNRC/NU/21/ (2/2014)/01(20) RM 180,500	New development of electrochemical based biosensor/sensor and spectrophotometry micro-method for salt iodine analysis (Collabration with IMR)	Team member	2014-2016	MOH	Completed
16	Special fund PKA0514D040 RM 455,000	Fabrication of Home Care Biosensor for Uric Acid Detection (Collabration with SIRIM)	Team member	2015-2017	MOSTI	Completed
17	Science fund 03-01-04-SF2160 RM 233,400.00	Immuno based biosensors system for ultrasensitive, non-invasive and affordable detection of mycobacterium tuberculosis (TB) for future home test kit	Team member	2015-2017	MOSTI	Completed

18	Flagship DSTIN RM 1,577,500	An integrated microfluidic system for rapid serotype-specific detection of dengue virus infection (Collabration with SIRIM)	Team member (Project head-UPM)	2015-2019	MOSTI	On-going
19	FRGS FRGS/1/2015/ SG01/UPM/02/15 RM 116,200	Investigation of electrochemical behavior of screen printed carbon electrode modified reduced graphene oxide/nanomaterial composite towards phthalate	Project head	2015-2017	MOHE	Completed
20	Geran Putra GP- IPB/2016/9515403 RM 115,000	Study of novel graphene quantum dots based material conjugated enzymes for biosensing system	Project head	2016-2018	UPM	Completed
21	Newton Fund 2163885726 RM 75,600	Mobile based tools for an automated detection of tuberculosis	Team member	2016-2018	British Council	Completed
22	Geran Putra Berimpak UPM/700-1/2/GPPI/ 2017/9531500 RM 90,960	Study of novel graphene quantum dots based thin films for potential detection of toxic chemicals using surface plasmon resonance technique	Team member	2017-2019	UPM	On-going
23	GP- IPS/2018/9652900 RM 25,000	Investigation of electrode modified with reduced graphene oxide nanocomposite for the determination of free fatty acid in palm oil	Project head	2018-2020	UPM	Completed
24	RACER/1/2019/STG 01/UITM/10 RM51,200	New synthesis of Co <sub>3</sub> O <sub>4</sub> -NiO hollow sphere/rGO composite and its electrochemical and surface properties on modified SPCE	Team member	1/9/19 - 31/8/21	KPM	On-going

## Publications

1. Silvan Saleviter, Yap Wing Fen, Nur Alia Sheh Omar, Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, **Jaafar Abdullah**, Mohd Adzir Mahdi, 2020, Label-free Binding Analysis of 4-(2-Pyridylazo)-resorcinol-based Composite Layer with Cobalt Ion Using Surface Plasmon Resonance Optical Sensor, 2020, Sensors and Materials 32 (9), 2877-2889. Co-author.
2. Norhafniza Awaludin, **Jaafar Abdullah**, Faridah Salam, Kogeethavani Ramachandran, Nor Azah Yusof, Helmi Wasoh, 2020, Fluorescence-based immunoassay for the detection of *Xanthomonas oryzae pv. oryzae* in rice leaf, Analytical Biochemistry 610 (1), 113876. Corresponding author.

3. Suria Mohd Saad, **Jaafar Abdullah**, Suraya Abd Rashid, Yap Wing Fen, Faridah Salam, Lau Han Yih, 2020, A carbon dots based fluorescence sensing for the determination of Escherichia coli O157:H7, Measurement 160, 107845. Corresponding author.
4. Mohd Hazani Mat Zaid, **Jaafar Abdullah**, Normazida Rozi, Aliff Aiman Mohamad Rozlan, Sharina Abu Hanifah, 2020, A Sensitive Impedimetric Aptasensor Based on Carbon Nanodots Modified Electrode for Detection of 17 $\beta$ -Estradiol, Nanomaterials 10, 1346. Senior Author.
5. Mohd Hazani Mat Zaid, Che Engku Noramalina Che-Engku-Chik, Nor Azah Yusof, **Jaafar Abdullah**, Siti Sarah Othman, Rahizan Issa, Mohd Fairulnizal Md Noh, Helmi Wasoh, 2020, DNA Electrochemical Biosensor Based on Iron Oxide/Nanocellulose Crystalline Composite Modified Screen-Printed Carbon Electrode for Detection of Mycobacterium tuberculosis, Molecules 25 (15), 3373. Co-author.
6. Suhainie Ismail, Nor Azah Yusof, **Jaafar Abdullah**, Siti Fatimah Abd Rahman, 2020, Development of Electrochemical Sensor Based on Silica/Gold Nanoparticles Modified Electrode for Detection of Arsenite, IEEE Sensors Journal 20 (7), 3406-3414. Co-author.
7. Radha Ravit, Nur Hawa Nabilah Azman, Shalini Kulandaivalu, **Jaafar Abdullah**, Ishak Ahmad, Yusran Sulaiman, 2020, Cauliflower-like poly(3,4-ethylenedioxythiophene)/nanocrystalline cellulose/manganese oxide ternary nanocomposite for supercapacitor, Journal of Applied Polymer Science 2020, 1-11. Co-author.
8. Musa Yahaya Pudza, Zurina Zainal Abidin, Suraya Abdul Rashid, Faizah Md Yasin, Ahmad Shukri Muhammad Noor, Jaafar Abdullah, 2020, Selective and simultaneous detection of cadmium, lead and copper by tapioca-derived carbon dot-modified electrode, Environmental Science and Pollution Research, 1-10. Co-author.
9. Eissa Mohamed Almbrok, Nor Azah Yusof, **Jaafar Abdullah**, Ruzniza Mohd Zawawi, 2020, Electrochemical Behavior and Detection of Diclofenac at a Microporous Si<sub>3</sub>N<sub>4</sub> Membrane Modified Water-1,6-dichlorohexane Interface System, Chemosensors 8, 11 (1-16). Co-author.
10. Nur Alia Sheh Omar, Yap Wing Fen, Silvan Saleviter, Yasmin Mustapha Kamil, Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, **Jaafar Abdullah**, Mohd Adzir Mahdi, 2020, Experimental evaluation on surface plasmon resonance sensor performance based on sensitive hyperbranched polymer nanocomposite thin films, Sensors and Actuators A 303, 111830. Co-author.
11. Nur Alia Sheh Omar, Yap Wing Fen, **Jaafar Abdullah**, Amir Reza Sadrolhosseini, Yasmin Mustapha Kamil, Nurul 'Illya Muhamad Fauzi, Hazwani Suhaila Hashim, Mohd Adzir Mahdi, 2020, Quantitative and selective surface plasmon resonance response based on reduced graphene oxide-polyamidoamine nanocomposite for detection of dengue virus E-proteins, Nanomaterials-697613, In press. Co-author.
12. Hazwani Suhaila Hashim, Yap Wing Fen, Nur Alia Omar, **Jaafar Abdullah**, Wan Mohd Ebtisyam Mustaqim Daniyal, Silvan Saleviter 2020, Detection of phenol by incorporation of gold modified-enzyme based graphene oxide thin film with surface plasmon resonance technique, Optics Express, In press. Co-author.
13. Mohd Hazani Mat Zaid, **Jaafar Abdullah**, Nor Azah Yusof, Yusran Sulaiman, Helmi Wasoh, Yusran Sulaiman, Mohd Fairulnizal Md Noh, Rahizan Issa, 2020, Reduced Graphene Oxide/TEMPO-Nanocellulose Nanohybrid-Based Electrochemical Biosensor for the Determination of Mycobacterium tuberculosis, Journal of Sensors, Article ID 4051474, 1-11. Corresponding author.

14. Noremylia Mohd Bakhori, Nor Azah Yusof , **Jaafar Abdullah**, Helmi Wasoh, Siti Khadijah Ab Rahman, Siti Fatimah Abd Rahman, 2020, Surface Enhanced CdSe/ZnS QD/SiNP Electrochemical Immunosensor for the Detection of Mycobacterium tuberculosis by Combination of CFP10-ESAT6 for Better Diagnostic Specificity, *Materials* 13, 149. Co-author.
15. Nazifah Ariffin, Nor Azah Yusof, **Jaafar Abdullah**, Siti Fatimah Abd Rahman, Nurul Hanun Ahmad Raston, Norzila Kusnin, Siti Suraiya, 2020, Lateral Flow Immunoassay for Naked Eye Detection of *Mycobacterium Tuberculosis*, *Journal of Sensors*, Article ID 1365983, 1-10. Co-author.
16. Suleiman Salihu, Nor Azah Yusof , Faruq Mohammad , **Jaafar Abdullah** , Hamad A. Al-Lohedan, 2019, Nickel Nanoparticle-Modified Electrode for the Electrochemical Sensory Detection of Penicillin G in Bovine Milk Samples, *Journal of Nanomaterials*, 2019, ID 1784154. Co-author.
17. Suria Mohd Saad, **Jaafar Abdullah**, Suraya Abd Rashid, Yap Wing Fen, Faridah Salam, Lau Han Yih, 2019, A fluorescence quenching based gene assay for *Escherichia coli* O157:H7 using graphene quantum dots and gold nanoparticles, *Microchimica Acta* 186(261):1-9. Corresponding author.
18. Silvan Saleviter, Wing Fen Yap, Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, **Jaafar Abdullah**, Amir Reza Sadrolhosseini, Nur Alia Sheh Omar, 2019, Design and analysis of surface plasmon resonance optical sensor for determining cobalt ion based on chitosan-graphene oxide decorated quantum dots-modified gold active layer, *Optic Express* 28, 32294. Co-author.
19. Nusiba Mohammed Modawe Alshik Edris, **Jaafar Abdullah**, Sazlinda Kamaruzaman, Yusran Sulaiman, 2019, Ultrasensitive Reduced Graphene Oxide-Poly(Procion)/Gold Nanoparticles Modified Glassy Carbon Electrode for Selective and Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid, *Journal of the Electrochemical Society* 166(8): B664-B672. Co-author.
20. Nusiba Mohammed Modawe Alshik Edris, **Jaafar Abdullah**, Sazlinda Kamaruzaman, Yusran Sulaiman, 2019, Voltammetric determination of hydroquinone, catechol, and resorcinol by using a glassy carbon electrode modified with electrochemically reduced graphene oxide-poly (Eriochrome black T) and gold nanoparticles, *Microchimica Acta* 186 (261), 1-9. Co-author.
21. Amiruddin Ashil Mastar, **Jaafar Abdullah**, Nor Azah Yusof, Yap Wing Fen, 2019, An optical sensor based on graphene quantum dots for hydrogen peroxide detection, *Malaysian Journal of Analytical Sciences*, 23(4) 572-579. Corresponding author.
22. M. A. Jamilan, **J. Abdullah**, S. A. Alang Ahmad, M. F. Md Noh, 2019, Voltammetric determination of iodide in iodized table salt using cetyltrimethylammonium bromide as ion-pairing, *Journal of Food Science Technology* 56(8) 3846-3853. Corresponding author.
23. Sulayman Akanbi Fowotade, Nor Azah Yusof, **Jaafar Abdullah**, Yusran Sulaiman, Siti Fatimah Abd Rahman, 2019, Enhanced Electrochemical Sensing of Secondary Metabolites in Oil Palms for Early Detection of Ganoderma Boninense based on Novel Nanoparticle-Chitosan Functionalized Multi-Walled Carbon Nanotube Platform, *Sensing and Bio-Sensing Research* 23, 100274. Co-author.
24. Nur Alia Sheh Omar, Yap Wing Fen, **Jaafar Abdullah**, Mohd Hazani Mat Zaid, Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, Mohd Adzir Mahdi, 2019, Sensitive surface plasmon resonance performance of cadmium sulfide quantum dots-amine functionalized graphene oxide based thin film towards dengue virus E-protein, *Optics and Laser Technology* 114, 204–208. Co-author.
25. Fuzi Mohamed Fartas, **Jaafar Abdullah**, Nor Azah Yusof, Yusran Sulaimana, Mohd Izham Saiman, Mohd Hazani Mat Zaid, 2019, Laccase Electrochemical Biosensor Based on Graphene-Gold/Chitosan Nanocomposite Film for Bisphenol A Detection, *Current Analytical Chemistry* 15, 1-9. Corresponding author.

26. Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, YapWing Fen, **Jaafar Abdullah**, Amir Reza Sadrolhosseini, Silvan Saleviter, Nur Alia Sheh Omar, 2019, Label-free optical spectroscopy for characterizing binding properties of highly sensitive nanocrystalline cellulose-graphene oxide based nanocomposite towards nickel ion, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 212, 25–31. Co-author.
27. Radha Ravit, **Jaafar Abdullah**, Ishak Ahmad, Yusran Sulaiman, 2019, Electrochemical performance of poly(3, 4-ethylenedioxythiophene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor, *Carbohydrate Polymers* 203, 128-138. Co-author.
28. Fariza Aina Abd Manan, Wai Weng Hong, **Jaafar Abdullah**, Nor Azah Yusof, Ishak Ahmad, 2019, Nanocrystalline cellulose decorated quantum dots based tyrosinase biosensor for phenol determination, *Materials Science and Engineering C99*, 37-46. (IF: 5.08). Corresponding author.
29. Wan Mohd Ebtisyam Mustaqim Mohd Daniyal , Yap Wing Fen, **Jaafar Abdullah**, Amir Reza Sadrolhosseini, Silvan Saleviter, Nur Alia Sheh Omar, 2019, Label-free optical spectroscopy for characterizing binding properties of highly sensitive nanocrystalline cellulose-graphene oxide based nanocomposite towards nickel ion, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 212, 25–31. Co-author.
30. Umi Zulaikha Mohd Azmi, Nor Azah Yusof, Norzila Kusnin, **Jaafar Abdullah**, Siti Suraiya, Poh Shing Ong, Nurul Hanun Ahmad Raston, Siti Fatimah Abd Rahman, Mohamad Faris Mohamad Fathil, 2018, Sandwich Electrochemical Immunosensor for Early Detection of Tuberculosis Based on Graphene/Polyaniline-Modified Screen-Printed Gold Electrode, *Sensors* 2018, 18(11), 3926. Co-author.
31. Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, Yap Wing Fen, **Jaafar Abdullah**, Silvan Saleviter, Nur Alia Sheh Omar, 2018, Preparation and characterization of hexadecyltrimethylammonium bromide modified nanocrystalline cellulose/graphene oxide composite thin film and its potential in sensing copper ion using surface plasmon resonance technique, *Optik - International Journal for Light and Electron Optics* 173, 71–77. Co-author.
32. Nor Hidayat Yusof, **Jaafar Abdullah**, Nor Azah Yusof, Zulkarnain Zainal, 2018, Fabrication of titania nanotube and its application for palmitic acid determination by electrochemical technique, *Sensor Letters* 16(10) 729-736. (IF: 0.558). Corresponding author.
33. Silvan Saleviter, Yap Wing Fen, Nur Alia Sheh Omar, Wan Mohd Ebtisyam Mustaqim Mohd Daniyal, **Jaafar Abdullah**, Mohd Hazani Mat Zaid, 2018, Structural and Optical Studies of Cadmium Sulfide Quantum Dots-Graphene Oxide-Chitosan Nanocomposite Thin Film as Novel SPR Spectroscopy Active Layer, *Journal of Nanomaterials*, Article ID 4324072. 1-8. Co-author.
34. Nur Alia Sheh Omar, Yap Wing Fen, **Jaafar Abdullah**, Mohd Hazani Mat Zaid, Mohd Adzir Mahdi, 2018, Structural, optical and sensing properties of CdS-NH<sub>2</sub>GO thin film as a dengue virus E-protein sensing material, *Optik - International Journal for Light and Electron Optics* 171, 934-940. Co-author.
35. Nusiba Mohammed Modawe Alshik Edris, **Jaafar Abdullah**, Sazlinda Kamaruzaman, Mohd Izham Saiman, and Yusran Sulaiman, 2018, Electrochemical reduced graphene oxide-poly(eriochrome black T)/gold nanoparticles modified glassy carbon electrode for simultaneous determination of ascorbic acid, dopamine and uric acid, *Arabian Journal of Chemistry*, In press. Co-author.
36. Nur Alia Sheh Omar, Yap Wing Fen, **Jaafar Abdullah**, Che Engku Noramalina Che Engku Chik, Mohd Adzir Mahdi, 2018, Development of an optical sensor based on surface plasmon resonance



phenomenon for diagnosis of dengue virus E-protein, *Sensing and Bio-Sensing Research* 20, 16-21. (IF: 0.807). Co-author.

37. Nur Ellina Azmi, Ahmad Hazri Ab. Rashid, **Jaafar Abdullah**, Nor Azah Yusof, Hamidah Sidek, 2018, Fluorescence biosensor based on encapsulated quantum dots/enzymes/sol-gel for non-invasive detection of uric acid, *Journal of Luminescence* 202, 309-315. (IF: 2.686), Q2. Corresponding author.
38. Noremylia Mohd Bakhori, Nor Azah Yusof, **Jaafar Abdullah**, Helmi Wasoh, Siti Suraiya Md Noor, Nurul Hanun Ahmad Raston, Faruq Mohammad, 2018, Immuno Nanosensor for the Ultrasensitive Naked Eye Detection of Tuberculosis, *Sensors* 18(6) 1932. (IF: 2.677), Q1. Co-author.
39. Nurulkhalilah Tukimin, **Jaafar Abdullah**, Yusran Sulaiman, 2018, Electrodeposition of poly(3,4-ethylenedioxythiophene)/reduced graphene oxide/manganese dioxide for simultaneous detection of uric acid, dopamine and ascorbic acid, *Journal of Electroanalytical Chemistry* 820, 74-81. (IF: 3.012), Q2. Co-author.
40. Nurulkhalilah Tukimin, **Jaafar Abdullah**, Yusran Sulaiman, 2018, Review—Electrochemical Detection of Uric Acid, Dopamine and Ascorbic Acid, *Journal of the Electrochemical Society* 165(7), B258-B267. (IF: 3.259), Q1. Co-author.
41. Aliyu Muhammad, Reza Hajian, Nor Azah Yusof, Nafiseh Shams, **Jaafar Abdullah**, Pei Meng Woi, Hamid Garmestani, 2018, A screen printed carbon electrode modified with carbon nanotubes and gold nanoparticles as a sensitive electrochemical sensor for determination of thiamphenicol residue in milk, *RSC Advances* 8, 2714-2722. (IF: 3.108), Q2. Co-author.
42. Noordiana Nordin, Nor Azah Yusof, **Jaafar Abdullah**, Son Radu, Roozbeh Hushiarian, 2017, A simple, portable, electrochemical biosensor to screen shellfish for *Vibrio parahaemolyticus*, *AMB Express* 7(41), 1-9. (IF: 1.825), Q3. Co-author.
43. Fatimah Syahidah Mohamad, Mohd Hazani Mat Zaid, **Jaafar Abdullah**, Ruzniza Zawawi, Hong Ngee Lim, Yusran Sulaiman, Norizah Abdul Rahman, 2017, Synthesis and Characterization of Polyaniline/Graphene Composite Nanofibers and Its Application as Electrochemical DNA Biosensor for Detection of Mycobacterium Tuberculosis, *Sensors* 17(12), 2789. (IF: 2.677), Q1. Co-author.
44. Nor Monica Ahmad, **Jaafar Abdullah**, Nor Azah Yusof, Yusran Sulaiman, Ahmad Hazri Ab. Rashid, Samsulida Abd Rahman, Hussein Hanibah, Nazura Haron, 2017, Enhanced Electron Transfer of Amperometric Biosensor Based on Cerium Oxide/1-butyl-3-Methylimidazolium Nitrate/Tyrosinase Biocomposite Film for the Detection of Phenolic Compounds, *Sensor Letters* 15(11), 928-938. (IF: 0.558), Q4. Corresponding author.
45. Nafiu Muhammad, **Jaafar Abdullah**, Yusran Sulaiman, Lim Hong Ngee, 2017, Voltammetric Determination of Nitrophenol using PEDOT Decorated Graphene Oxide as Composite Film, *International Journal of Electrochemical Science* 12, 9432-9444. (IF: 1.692), Q3. Corresponding author.
46. Fowotade Sulayman Akanbi, Nor Azah Yusof, **Jaafar Abdullah**, Yusran Sulaiman, Roozbeh Hushiarian, 2017, Detection of Quinoline in G. Boninense-Infected Plants Using Functionalized Multi-Walled Carbon Nanotubes: A Field Study, *Sensors* 17(7), 1538. (IF: 2.677), Q1. Co-author.
47. Nurulkhalilah Tukimin, **Jaafar Abdullah**, Yusran Sulaiman, 2017, Development of the PrGO modified electrode for uric acid determination by electrochemical technique in the presence of ascorbic acid, *Sensors* 17(7), 1539. (IF: 2.677), Q1. Co-author.

48. Samsulida Abd Rahman, Nurhayati Ariffin, Nor Azah Yusof, **Jaafar Abdullah**, Faruq Mohammad, Zuhana Ahmad Zubir, 2017, Thiolate capped CdSe/ZnS core-shell quantum dots for the sensitive detection of glucose, *Sensors* 17(7), 1537. (IF: 2.677), Q1. Co-author
49. Fuzi Mohamed Fartas, **Jaafar Abdullah**, Nor Azah Yusof, Yusran Sulaiman, Mohd Izham Saiman, 2017, Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/Chitosan for Phenolic Detection in Aqueous, *Sensors* 17(5), 1132. (IF: 2.677), Q1. Corresponding author.
50. Nafiu Muhammad, **Jaafar Abdullah**, Yusran Sulaiman, Lim Hong Ngee, 2017, Electrochemical Determination of 3-Nitrophenol with a Reduced Graphene Oxide Modified Screen Printed Carbon Electrode, *Sensor Letters* 15 (2), 187-195. (IF: 0.558), Q4. Corresponding author.
51. Mohd Hazani Mat Zaid, **Jaafar Abdullah**, Nor Azah Yusof, Yusran Sulaiman, Helmi Wasoh, Mohd Fairulnizal Md Noh, Rahizan Issa, 2017, PNA biosensor based on reduced graphene oxide/water soluble quantum dots for the detection of Mycobacterium tuberculosis, *Sensors and Actuators B* 241, 1024–1034. (IF: 4.758), Q1. Corresponding author.
52. Che Engku Noramalina Che-Engku-Chik, Nor Azah Yusof, **Jaafar Abdullah**, Siti Sarah Othman, Mohd Hazani Mat Zaid, Helmi Wasoh, 2016, Detection of Tuberculosis (TB) using Gold Standard Method, Direct Sputum Smears Microscopy, PCR, qPCR and Electrochemical DNA Sensor, *Journal of Biochemistry, Microbiology and Biotechnology* 4 (2), 16-21. Co-author.
53. Mohamed A. Eid, Nor A. Yusof, Mohammad Faruq, **Jaafar Abdullah**, Yusran Sulaiman, 2016, Quantitative measurement of amoxicillin in Ibuprofen tablets using UPLC, *Measurement* 93, 465-472. (IF: 1.742), Q2. Co-author.
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#### Other related Information

#### Supervision

Category	Supervisor					
	Current Student			Graduate Student		
	PhD	Master	Total	PhD	Master	Total
Chairman	3	3	6	4	3	7
Member	7	2	9	12	11	23
Total	10	5	15	16	14	30