A.K.M. SHAFIQUL ISLAM

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Bangladesh

Contract Info
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+8801316778585

Personal Info
Nationality: Bangladeshi
Date of Birth: 19-02-1966
Married status: Married

Links
Google Scholar
Research gate
Scopus

Skills
- Microsoft Teams
- Cisco Webex Meeting
- Google classroom
- Zoom
- Adobe Photoshop

Language
Bengali: ● ● ● ● ●
English: ● ● ● ● ●
Malay: ● ● ● ○ ○

1. PROFILE

- More than 13 years of teaching and research experience, including assisting students, establishing instructional plans and organizing, grading exams and tests, and setting up research facilities and environments.
- Collaborated with the leadership team on identifying important sensor research, setting up equipment, obtaining resources, and creating and maintaining facilities.

2. EMPLOYMENT HISTORY

Universiti Lecturer School at Chemical Sciences, Universiti Sains Malaysia
July 2018 – till date
- Undergraduate and Postgraduate Teaching and Research.
- Teaching Include Analytical Chemistry, Organic Chemistry and Physical Chemistry.

Associate Professor at Faculty of Engineering Technology, University Malaysia Perlis
March 2015 – February 2018
- Undergraduate and postgraduate teaching and research.
- Teaching include core subjects Biochemical Engineering, Biopharmaceutical Processing Technology and Industrial Electrochemistry, and general subjects Analytical Chemistry, Organic Chemistry and Physical Chemistry.
- New curriculum development: Food Technology

Senior Lecturer at School of Bioprocess Engineering, University Malaysia Perlis
March 2007 – February 2015
- Undergraduate and postgraduate teaching and research.
- Teaching include core subjects Chemical Reaction Engineering, Biochemical Engineering, Sensors and control and Pharmaceutical Technology, and general subjects Analytical Chemistry, Organic Chemistry and Physical Chemistry.
- New curriculum development: Industrial Chemical Process Technology

Quality Control Chemist at Jams Pharmaceuticals, Dhaka, Bangladesh.
Nov 1988 – Nov 1998
- Quality control of pharmaceutical raw materials and finished products
- Research and product development

3. ACADEMIC QUALIFICATION

Ph.D. - Analytical Chemistry, University Science Malaysia, Malaysia.
Aug 2002 – Jan 2007
Dissertation - Fabrication of an electronic nose and its application for the verification of *Eurycoma longifolia* extracts

M.Pharm – Pharmaceutical Chemistry, University Science Malaysia, Malaysia.
Dec 1998 – May 2002
Dissertation - Fabrication of Taste Sensor and its application in pharmaceutical and herbal quality evaluation

M.Sc. - Applied Chemistry & Chemical Technology, Rajshahi University, Bangladesh
July 1987 – June 1988
Sub: Chemical Engineering, Chemistry and Technology of High polymers and Textiles, Fuels and Petrochemicals, Industrial Chemistry, Pharmaceutical chemistry, Metallurgy,

B.Sc. (Hons). - Applied Chemistry, Rajshahi University, Bangladesh
July 1984 – June 1987
Sub: Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Chemical Engineering Fundamental, Industrial Chemistry, Polymer Chemistry, Pharmaceutical chemistry, Metallurgy,

4. REFEREES

Assoc. Prof. Dr Melati Khairuddean (Deputy Dean) from Universiti Sains Malaysia
E-mail: melati@usm.my, Phone: +604-6533913, +6016-4127743

Prof. Dr. Ali Yeon Md. Shakaff from Universiti Malaysia Perlis
E-mail: aliyeon2011@gmail.com, aliyeon@unimap.edu.my, HP: +60124109490

Assoc. Prof. Dr Zarina Zakaria from Universiti Malaysia Perlis
E-mail: zarinaz@unimap.edu.my, HP: +6 017-5487772

5. RESEARCH

i. Research Area:

1. Biomimicking sensors (E-Nose and E-Tongue)
2. Electrochemical and Piezoelectric Sensor and Biosensors Development
3. Computational Design and Synthesis of Molecular Imprint Polymer (MIP)
4. Molecularly Imprinted Electropolymerization (MICES)
5. Nanomaterial's in Sensor and Biosensor Development
6. Bioactive/Biomarker Extraction and Characterization

ii. Research Grants -

Project Leader (RM 694,160)

1. Development of an electrochemical sensor based on molecularly imprinted polypyrrole/graphene quantum dots composite deposited on pencil graphite electrode for andrographolide analysis – (Research University Individual Grant 2020; RM 54,000) – **UNIVERSITY RESEARCH GRANT – continued.**
2. A disposable molecularly imprinted polypyrrole/graphene quantum dots composite sensor for bisphenol A detection in the waste water – (**BRIDGING GRANT 2018; RM 25,000**) – completed.
3. Synthesis and Characterization of Novel Graphene Nanoribbon for Biosensor Applications - (**FRGS 2013 – 2015; RM 98,000**).
4. Fundamental Study of Surface Imprinted Polymer Microrods and Nanorods for Selective Adsorption of Protein - (**FRGS 2011 – 2013; RM 182,000).**
5. A Scale-up Process for Bioactive Extraction of Sinensetin from Orthosipon stamineus (Misai Kucing) using A Novel Material Molecularly Imprinted Polymer (MIP) - (**MOA 2009 – 2011; RM 223,160**).
6. Investigation Of Host-Guest Single Molecule Complexation Properties Between Calixaranes And Capsicin Chili/Pungent Sensor Development - (**FRGS 2008 – 2010; RM 66,000).**
7. Characterization and optimization of quartz crystal microbalance (QCM) array sensor using different coating method for volatile organics detection - (**FRGS 2007 – 2009; RM 125,000).**

Co-researcher (RM 11,000)

1. Application of Botanical Biopesticides to Control Pests of Mango Infloresence and Fruiting – **(Sponsored by: University (Short term) : 9001-00221; RM 11,000)**

iii. Supervision:-

(a) *Ph.D: (2 completed, 1 continuing)*
(b) *M.Sc. (4 completed, 2 continuing)*
(c) *Under graduate (Final Year Projects) (26 completed, 2 continuing)*

6. List of Publications

Published

1. Rabia Tasaduq Hussain, **A.K.M. Shafiqul Islam,** Melati Khairuddean, Faiz Mohd Suah, An electrochemical sensor based on molecularly imprinted polypyrrole/GO/ZnO nanocomposites coated on pencil graphite electrode for detection of andrographolide, *Alexandria Engineering Journal,* (Accepted). **(Scopus I.F. 3.732)**
2. Naser M. Ahmed, Fayroz A. Sabah, Naif H. Al-Hardan, Way Foong Lim, Sabah M. Mohammed, Maadh Jumaah, **A.K.M. Shafiqul Islam**, Z. Hassan, Hock Jin Quah, Simple cavity design for EGFET pH Sensors measurements, *Semiconductor Science and Technology*, 36 (2021) 045027**. (Scopus I.F. 2.361**).
3. **A.K.M. Shafiqul Islam**, Rabia Tasaduq Hussain, Faiz Bukhari Mohd Suah, Melati Khairuddean, Naser M. Ahmed, Innovative Approaches To Synthesize Novel Graphene Materials, *Current Nanoscience*, 17 (2021) 1-15. (**Scopus *I.F. 1.422)***
4. **A.K.M. Shafiqul Islam**, Hemavathi Krishnan, Mohd Noor Ahmad, Pubalan Nadaraja and A.B.M. Helal Uddin, A Novel Molecular Imprint Polymer Quartz Crystal Microbalance Nanosensor for the Detection of Andrographolide in the Medicinal Plant Extract, *Russian Journal of Electrochemistry*, 57(6) (2021) 671-679. **I.F. 1.043). (Scopus)**
5. Noorhidayah Ishak, Mohd Noor Ahmad, **A.K.M. Shafiqul Islam**, Azalina Mohamed Nasir, Muhammad Syafie Ahmad and Siti Fatimah Kamaruddin, Screening of polymer precursors for preparation of nitrate imprinted polymer, *IOP Conference Series: Materials Science and Engineering 932 (1)* (2020) 012099. (Scopus)
6. **A.K.M. Shafiqul Islam**, Tan Chia Shin and Mohd Noor Ahmad, A Sol-gel Electrochemical Sensor for the Detection of Maltose in Starch Hydrolysis, *Malaysian Journal of Chemistry* (2020), 22, 69 – 77. (Scopus)
7. Nasrin Akter Chowdhury, Amani Ali Elmetwally, Hanif Suhairi Abu Bakar, **A.K.M. Shafiqul Islam** & Muhammad Musharraf Hussain, Wearing Niqab by Muslim Women is a Divine Order, Religious Freedom and a Superior Muslim Culture, *Journal of Islamic, Social Economics and Development (JISED)*, 5(28) (2020), 74 – 87.
8. **A.K.M. Shafiqul Islam**, Advances in conducting polymer in the sensors and biosensors development, *Buletin Kimia*, Universiti Sains Malaysia, Vol. 14. (2019).
9. Hemavathi Krishnan, **A.K.M. Shafiqul Islam,** Zainab Hamzah, Pubalan Nadaraja, Mohd Noor Ahmad, A Novel Molecular Imprint Polymer Synthesis for Solid Phase Extraction of Andrographolide, *Indonesian Journal of Chemistry*, Vol. 19(1) (2019), 219 – 230. **(I.F. 1.043)**
10. **A.K.M. Shafiqul Islam**, Hemavathi Krishnan, Zainab Hamzah, Mohd Noor Ahmad, Rational Computational Design for the Development of Andrographolide Molecularly Imprinted Polymer. *AIP Conference Proceedings, volume 1891(2017), 020083.*
11. N. Ishak, M.N. Ahmad, A.M. Nasir, S.F. Kamaruddin, **A.K.M. Shafiqul Islam**, M.M. Ariffin, Theoretical and experimental studies of ion imprinted polymer for nitrate detection, Polymer Science - Series A (2017), 59(5), 1–11), **(*Scopus*)** (***I.F. 0.822***).
12. M. Mohiuddin, Dachyar Arbain, **A.K.M. Shafiqul Islam**, Muhammad S Ahmad, Mohd N Ahmad, Alpha-Glucosidase Enzyme Biosensor for the Electrochemical Measurement of Antidiabetic Potential of Medicinal Plants, *Nanoscale Research Letters* (2016) 11:95. **(*Scopus*)** (***I.F. 2.779***).
13. **A.K.M. Shafiqul Islam**, M.N. Ahmad, M.Y. Mee Sim, Z. Ismail, A.M. Noor, Quantification of bioactive caffeic acid in Orthosiphon stamineus Benth using a disposable taste sensor, *International Journal of Electrochemical Sciences 11(2016)322-332*. **(*ISI-Cited*)** (***I.F. 1.956***).
14. **A.K.M. Shafiqul Islam,** H. Krishnan, H. Singh, M.N. Ahmad, A Noble Molecular Imprint Polymer Biosensor for Caffeic acid Detection in Orthosiphon Stamineus Extracts, *Jurnal Teknologi*, 77(7), (2015) **(*Scopus*).**
15. Z. Zakaria, Nurul F.A. Halim, Mubaraq H.V. Schleusingen, **A.K.M. Shafiqul Islam**, Uda Hashim and M.N. Ahmad, Effect of Hydrochloric Acid Concentration on Morphology of Polyaniline Nanofibers Synthesized by Rapid Mixing Polymerization, *Journal of Nanomaterials*, (2015), 218204. **(*ISI-Cited*)** (***I.F. 1.644***).
16. N. Musa, M.N. Ahmad, N.F. Abd Halim, U. Hashim, A.K.M. Shafiqul Islam, Performance of organic thin film transistors (OTFTs) at various temperatures on polyethylene terephthalate (PET) substrate, *Malaysian Journal of Analytical Sciences*, Vol 19(6) (2015): 1303 – 1308. **(*Scopus*).**
17. N. Ishak, M. N. Ahmad, A.M. Nasir, **A.K.M. Shafiqul Islam**, Computational Modelling and Synthesis of Molecular Imprinted Polymer for Recognition of Nitrate Ion, *Malaysian Journal of Analytical Sciences*, Vol 19(4) (2015): 866 – 873. **(*Scopus*).**

18. M. Mohiuddin, Dachyar Arbain, **A.K.M. Shafiqul Islam**, Md. Mahbubur Rahman, Muhammad S Ahmad, Mohd N Ahmad, Electrochemical Measurement of Antidiabetic Potential of Medicinal Plants Using Screen-printed Carbon Nanotubes Electrode, *Current Nanoscience* 11(2) (2015), 229-238, **(*ISI-Cited*)** (***I.F. 1.422***).

19. M. Mohiuddin, D. Arbain, **A.K.M. Shafiqul Islam**, M.S. Ahmad, M.N. Ahmad, Electrochemical Measurement of the Antidiabetic Potential of Medicinal Plants using Multi-Walled Carbon Nanotubes Paste Electrode, *Russ. J. Electrochem.* 51(4) (2015), 368-375. **(*ISI-Cited*),** (***I.F. 0.501***). (Q3)

20. A.M. Nasir, M.N. Ahmad, M.I.H.M. Dzahir, D. Arbain, and **A.K.M. Shafiqul Islam**, Heparin imprinted polymer prepared by sol–gel process on silica microparticles surface: Analysis of template removal and binding performance, Materials Research Innovations 18 (6) (2014), (S6) 155 - 158. **(*ISI-Cited*),** (***I.F. 0.473***).

21. M. Mohiuddin, D. Arbain, **A.K.M. Shafiqul Islam**, M.S. Ahmad, M.N. Ahmad, Covalent Immobilization of α-Glucosidase Enzyme onto Amine Functionalized Multi-Walled Carbon Nanotubes, *Current Nanoscience* 10(6) (2014), 730 – 735. **(*ISI-Cited*),** (***I.F. 1.580***).

22. I. Tahir, K. Wijaya, **A.K.M. Shafiqul Islam** and M.N. Ahmad, Computer Aided Design of Molecular Imprinted Polymer for Selective Recognition of Capsaicin, *Indonesian Journal of Chemistry* 14(1) (2014), 85 – 93. (**Scopus**).

23. N. Farhanah AB Halim, M.N. Ahmad, **A.K.M Shafiqul Islam**, A.Y. Md Shakaff, Zulkhairi Zakaria, M. Nazree Derman, Serine sensor based on Graphene sheet congo-red molecular imprinted polymer (GSCR-MIP) organic thin film transistor (OTFT), *Advanced Materials Research* 925 (2014), 500 – 504. (**ISI-Cited**)

24. H. Singh, Ghassan F. Al-Samararrai, M. N. Jaffar, Mohd H.Chemat, **A.K.M. Shafiqul Islam**, Performance plant extract on-leaf-cutting beetle Hypomeces Squamosus on Harumanis Variety of Mango in Perlis, Malaysia, *International Journal of Agricultural Science and Research (IJASR)*, 3(1) (2013), 89 – 98, (***I.F. 2.857***).

25. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam** and D. Arbain, Virtual Searching Of Dummy Template For Sinensetin Based On 2D Molecular Similarity Using ChemDB Tools, *Indonesian Journal of Chemistry* 12 (3) (2012), 217 – 222. **(*Scopus*).**

26. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam,** D. Arbain, Molecular Modeling Study of Boric Acid Imprinted Polymer for Quartz Crystal Microbalance Application, *Journal Kimia Udayana* 6 (2) (2012), 101 – 109.

27. E.S. Azizi, M.N. Ahmad, **A.K.M. Shafiqul Islam**, D. Arbain, and I. Tahir, Porogen Effect Towards the Quality of Curcumin Imprinted Polymer, *Indonesian Journal of Chemistry* 11 (3) (2011), 207-211.

28. M.N. Ahmad, Maxsim Yap Mee Sim, Chang Chew Cheen, **A.K.M. Shafiqul Islam**, Z. Ismail, A.Y. Md Shakaff, Larisa Lvova, Disposable array sensor strip for quantification of sinensetin in *Orthosiphon stamineus* Benth samples, *Microchimica Acta* 163 (2008), 113 - 218. **(*ISI-Cited*), (*I.F. 3.033*)**

29. M.N. Ahmad, Z. Ismail, Oon–Sim Chew, **A.K.M. Shafiqul Islam** and A.Y. Md. Shakaff, Development of Multichannel Artificial Lipid-Polymer Membrane Sensor for Phytomedicine Application, *Sensors* 6 (2006), 1333 – 1344. **(*ISI-Cited*), (*I.F. 1.739*)**

30. **A.K.M. Shafiqul Islam**, Z. Ismail, M.N. Ahmad, Baharudin Saad, Abdul Rahman Othman and A.Y. Md. Shakaff, Correlation studies between electronic nose response and headspace volatiles of *Eurycoma longifolia* extracts, *Sensors and Actuators B: Chemical* 120 (2006), 245 – 251. **(*ISI-Cited*), (*I.F. 3.898*)**.

31. **A.K.M. Shafiqul Islam**, Z. Ismail, M.N. Ahmad, Baharudin Saad, Abdul Rahman Othman, A.Y. Md. Shakaff, Azizan Daud and Zamri Ishak. Transient parameters of a coated quartz crystal microbalance sensor for the detection of volatile organic compounds (VOCs), *Sensors & Actuators B: Chemical* 109 (2005), 238 – 243. **(*ISI-Cited*), (*I.F. 3.898*)**.

32. Z. Ismail, M.N. Ahmad, Chew Oon Sim and **A.K.M. Shafiqul Islam,** Potentiometric Fingerprint Profiling of *Eurycoma longifolia* Extracts (Tongkat Ali) Using Multichannel Artificial Lipid-Polymer Membrane Sensor, *Sensors and Transducers* 52(2) (2005), 300 – 309. **(*ISI-Cited*)**

33. **A.K.M. Shafiqul Islam,** Z. Ismail, M.N. Ahmad, Abdul Rahman Othman, Saravanan Dharmaraj and A.Y. Md. Shakaff, Taste profiling of *Centella asiatica* by Taste Sensor, *Sensors and Materials* 15(4) (2003), 209 – 218. **(*ISI-Cited*),** (***I.F. 0.9)***

34. M.N. Ahmad, A.K.M. Shafiqul Islam, A.R. Othman, A.Y. Md. Shakaff, S. Hitam, Z. Ishak, E. Noorsal and W.Y. Kwan. Lipid membrane coated quartz crystal microbalance for the detection of volatile organic compounds in the environment. Proceedings of IEEE, 2003 Asian Conference on Sensors (AsiaSENSE2003), Kuala Lumpur, Malaysia, p.p. 111 – 115. **(*Scopus*).**

35. Z. Ismail, **A.K.M. Shafiqul Islam,** M.N. Ahmad, Abdul Rahman Othman and A.Y. Md. Shakaff, Organoleptic Assessment of *Centella asiatica* by Taste Sensor, *Journal of Tropical Medicinal Plants,* 1 (2000), 27 – 31.

PROCEEDINGS (Conference papers):

1. Noor Hidayah Ishak, Mohd Noor Ahmad, Azalina Mohamed Nasir, **A.K.M Shafiqul Islam**, Computational Modelling and Synthesis of Molecular Imprinted Polymer for Recognition of Nitrate Ion, Regional Conference on Sciences, Technology and Social Sciences (RCSTSS 2014), 23 – 25 November 2014, Cameron Highland, Pahang, Malaysia.

2. M. Mohiuddin, D. Arbain, **A.K.M. Shafiqul Islam**, M. Syarhabil Ahmad, M.N. Ahmad, Antidiabetic Potential Measurement of Herbal Plants by Multiwall Carbon Nanotubes Paste Electrode, *4th International Conference on Chemical and Bioprocess Engineering (ICCBPE 2012) In conjunction with 26th Symposium of Malaysian Chemical Engineers (SOMChE 2012)* Sabah, Malaysia, 21-23 November 2012.

3. M. Mohiuddin, D. Arbain, **A.K.M. Shafiqul Islam**, M. Syarhabil Ahmad, M.N. Ahmad, Antidiabetic Potential Measurement of Tebengau Leaves using Multi-Walled Carbon Nanotubes Paste Electrode, *2nd Malaysian International Conference on Trends in Bioprocess Engineering (MICOTriBE 2012)*, Langkawi, Kedah, Malaysia, 3 – 5 July 2012.

4. I. Tahir, M. N. Ahmad, **A.K.M. Shafiqul Islam,** D. Arbain, Molecular Modeling And Experimental Study on the Interaction Between Quercetin and Methacrylic acid, *The 2nd International Malaysia-Ireland Joint Symposium on Engineering, Science and Business (**IMiEJS) 2012** Conference*, Kuala Lumpur, Malaysia 18th to 20th June **2012**

5. K.M Kassim, **A.K.M. Shafiqul Islam** and Hassan Diaaldeen, Prediction heat of vaporization for antifreeze Agent based on three-parameter law of corresponding states for fuel, coolant and refrigerant systems, at *the 4th AUN/SEED-Net Regional Conference on Chemical Engineering*, Kuala Lumpur, Malaysia, 9-10 February 2012.

6. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam**, and D. Arbain, In Silico Optimization of Mole Ratio Between Allopurinol-Methacrylic Acids to Predict A Stable Molecular Imprinting Polymer, *Proceedings of Malaysian Technical Universities Conference on Engineering and Technology (MUiCET 2011),* UTHM, Batu Pahat, Malaysia, 13-15 November 2011.

7. Harbant Singh, G.H. Fairs, M.N. Jaffar, M.H. Chemat, and **A.K.M. Shafiqul Islam**, Effect of botanical biopesticides on mango beetle, *1st International Congress on Natural Products*, Phang Nga, Thailand, 17-18 October 2011.

8. I. Tahir, M.N. Ahmad, E.S. Azizi, **A.K.M. Shafiqul Islam**, D. Arbain, M. Surif, Synthesis of Curcumin Imprinted Polymer Using Three Type of Porogen, *1st International Conference on Materials Engineering (ICME) and 3rd AUN/SEED-Net, Regional Conference on Materials (RCM)*, Yogyakarta, Indonesia, 2-3 February 2011.

9. M.N. Ahmad, S.S. Situmorang, **A.K.M. Shafiqul Islam**, D. Arbain, and I. Tahir, 2010, Molecular Imprint Polymer Membrane for Capsaicin Sensor Prepared by Phase Inversion, *The 1st International Conference on Material Engineering (ICME) and 3rd AUN/SEED-Net, Regional Conference on Materials (RCM)*, Yogyakarta, Indonesia, 2-3 February 2011.

10. **A.K.M. Shafiqul Islam**, M.N. Ahmad, A.Y. Md Shakaff, Quartz crystal microbalance array sensor for the verification of medicinal plant extracts, *The Third International Conference on Mathematics and Natural Sciences* (ICMNS 2010), Bandung, Indonesia, 23-25 November 2010,.

11. I. Tahir, M. N. Ahmad, **A.K.M. Shafiqul Islam**, D. Arbain, E.S. Azizi, and S.S. Situmorang, AM1 Semiempirical – Quantum Mechanical Study of Interaction between Caffeic Acid and Several Acidic Functional Monomer for Prediction of Molecular Imprinted Polymer, *The Third International Conference on Mathematics and Natural Sciences (ICMNS)*, Bandung, 23-25 November 2010.

12. E. S. Azizi, M. N. Ahmad, **A.K.M. Shafiqul Islam**, Porogen Effect towards the Quality of Curcumin Imprinted Polymer, *International Postgraduate conference on Engineering (IPCE2010)*, 16-17 October 2010, Kangar, perlis, Malaysia.

13. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam** and D. Arbain, Design of Molecularly Imprinted polymer for solid phase extraction of sinensetin from Orthosiphon stamineus, *38th Meeting on National Working Group on Indonesian Medicinal Plants*, 21 – 22 July 2010, Surabaya, Indonesia.

14. **AKM Shafiqul Islam**, M.N. Ahmad, Nurul Maisyarah Samsudin, E.M. Azizi and I. Tahir Molecular Modelling and Synthesis of Caffeine Imprinted Molecular Imprint Polymer (MIP), *Proceedings of Malaysian Technical Universities Conference on Engineering and Technology (MUCET2010)*, Bayview Hotel, Melaka, Malaysia, June 28-29, 2010,.

15. E.M. Azizi,, M.N. Ahmad, **A.K.M. Shafiqul Islam**, and I. Tahir, Synthesis and Characterization of Curcumin Imprinted Polymer, MAMIP 2010 USM, 17 January 2010.

16. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam**, and E.S. Azizi, 2009, Computer Aided Design of Sinensetin-Molecularly Imprinted Polymer based on Rational Selection of Monomer Functional, *Seminar Hasil Penelitian MIPA Dies 56 FMIPA UGM*, Yogyakarta 10 Oktober 2009.

17. **A.K.M. Shafiqul Islam**, K. M. Kassim and M. Zulkali, Development gas hydrate (LNG) and (LPG) process at high pressure and temperature for fuel-technology, *3rd International Conference on Chemical and Bioprocess Engineers*, Kota Kinabalu, Sabah, Malaysia, 12 – 14 August, 2009,.

18. I. Tahir, M.N. Ahmad, **A.K.M. Shafiqul Islam**, and D. Arbain, *Sensing and Bioactive Extraction of Sinensetin from Orthosipon Stamineus (Misai Kucing) Using A Novel Material Molecular Imprinting Polymer (MIP), Proceeding of Engineering Postgraduate Conference (EPC 2009*), Kangar, 18-19 July 2009

19. **A.K.M. Shafiqul Islam**, K. M. Kassim, Harbant Singh, J. Nora Marie and M. Zulkali, Sustainable Agriculture Development for Biofuel-Technology Industry, "*The 7th International Conference on Membrane Science & Technology*" and "*Sustainable Technology for Energy, Water & Environment",* 12-15 May, 2009, Kuala Lumpur Malaysia.

20. M.N. Ahmad, Wei Yen Kwan, **A.K.M. Shafiqul Islam**, Z. Ismail, Misni Surif, Biosensor for antioxidant determination in herbal tea, *Orthosiphon stamineus* Benth, *14th Regional Symposium on Chemical Engineering (RSCE 2007)*, Gadjah Mada, Indonesia, 4 – 5 December 2007.

21. M.N. Ahmad, M.M.S. Yap, Chang Chew Cheen, A.Y.Md. Shakaff, **A.K.M. Shafiqul Islam**, Quantitative analysis of *Orthosiphon stamineus* benth with a disposable sensor strip, *International Symposium on Olfaction and Electronic Nose (ISOEN)*, St. Pittsburg, Russia, 3 – 5 May 2007, p.p. 69 – 70.

22. Wahyu Hidayat, M.N. Ahmad, A.Y. Md Shakaff, Abdul Hamid A., Marni Azira M., **A.K.M. Shafiqul Islam**, Azlan K.F. and Abu Hasan A., Agarwood grading using an E-Nose and Artificial Neural Networks based on its Fragrance, *International Conference on Mathematics and Natural Sciences (ICMNS)*, ITB, Bandung, Indonesia, 29 – 30 November 2006.

23. M.N. Ahmad, Wahyu Hidayat, **A.K.M. Shafiqul Islam**, A.Y. Md Shakaff, Abdul Hamid Adom, Combined Electronic Nose and Tongue for the verification of Herbal Products, *International Conference on Mathematics and Natural Sciences (ICMNS),* ITB, Bandung, Indonesia, 29 – 30 November 2006.

24. **A.K.M. Shafiqul Islam**, Z. Ismail, A.R. Othman, M.N. Ahmad and A.Y. Md Shakaff, Correlation study between the electronic nose response and headspace volatiles of *Eurycoma longifolia* extracts, *First International Conference on Sensing Technology*, Palmerston North, New Zealand, 21-23 November 2005, p.p. 527 – 532.

25. E. Noorsal, O. Sidek, J. Mohamad-Saleh, M.N. Ahmad, and **A.K.M. Shafiqul Islam,** Development of odour sensor system using quartz crystal microbalance sensor array, *3rd International Conference on Electrical & Computer Engineering (ICECE),* Dhaka, Bangladesh, 28-30 December 2004, p.p. 526 – 529.