

PROFILE OF PROFESSOR (DR.) ANEES AHMAD

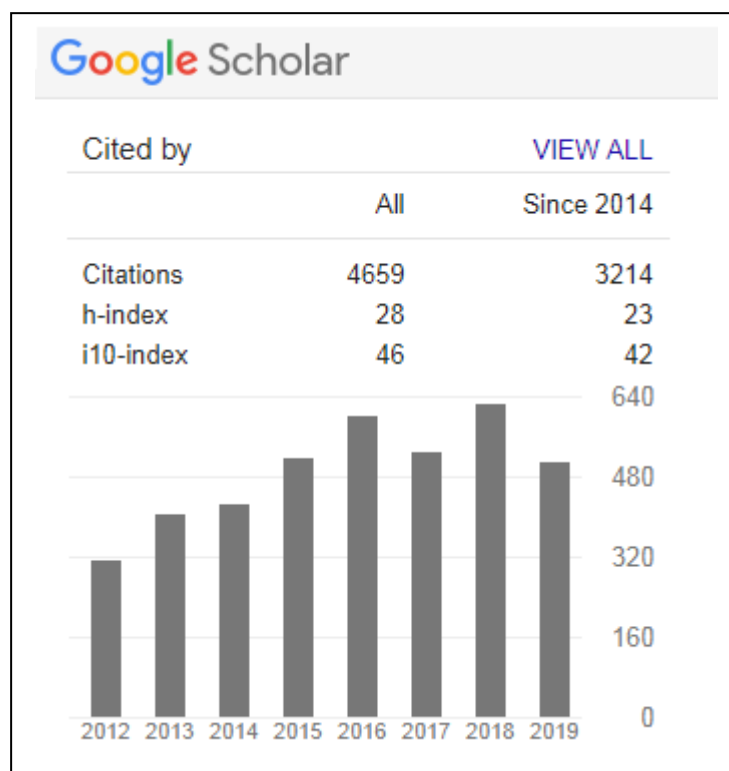
Professor (Dr.) Anees Ahmad is working as **Professor of Industrial Chemistry** in Department of Chemistry of Aligarh Muslim University, Aligarh. He has also worked in Environmental Technology Division of School of Industrial Technology, USM, Malaysia (2005-2011). He has completed all his education at AMU, India and joined AMU (Analytical Division of Chemistry Department) as Lecturer in 1987 and promoted to Associate Professor in 1998.

He has taught many courses of Chemistry in general and Analytical Chemistry, Environmental Chemistry, Industrial Chemistry and Computer Programming in particular both at UG and PG level.

His research interest is in the areas of Nano Technology, Microbial fuel Cells, Supercritical CO₂ Extraction, Environmental Pollution Management & Treatment Technologies, Bio-Resource Management, Adsorption, Ion Exchange, Instrumental Methods of Analysis, Development of Low-cost Analytical Instruments, Computer Simulation and Modeling.

He has supervised 8 PhDs, 3 M. Phil and 12 M.Sc. / M. Tech. students. He has published more than 90 papers in the journals of international repute and presented his research work in many national and international conferences.

Citations of Professor (Dr.) Anees Ahmad are as follows:



(Updated on 14-09-2019)

[Source Google Scholar](https://scholar.google.com/citations?hl=en&user=q-iHylMAAAAJ)

<https://scholar.google.com/citations?hl=en&user=q-iHylMAAAAJ>

CURRICULUM VITAE (CV)

1. PERSONAL DATA

Name : Dr. Anees Ahmad

Nationality : Indian

Year of Birth : 1958

Gender : Male

Qualifications : B.Sc. (Chemistry)- 1977 (AMU)
M.Sc.(Analytical Chemistry)- 1979 (AMU)
M.Phil. (Chemistry) - 1982 (AMU)
Ph.D. (Chemistry) - 1985 (AMU)

Fields of specialization : Supercritical CO₂ Extraction, Environmental Pollution, Management and Treatment Technology, Instrumental Methods of Analysis, Adsorption, Catalysis and Ion Exchange, Development of Low-cost Analytical Instruments, Computer Simulation and Modeling.

Tel. (office) /HP : +91-9536322688

Fax : +91-571-2700528 (University)

Email : aneesahmad@yahoo.com; aneesahmad.ch@amu.ac.in

Current Position : Professor
Department of Chemistry,
Aligarh Muslim University,
Aligarh-202002, India.

Previous Positions : Associate Professor

1. Analytical Division, Department of Chemistry
IU Aligarh (1992-2014)
2. Environmental Technology Division,
School of Industrial Technology,
USM, Malaysia .(Dec. 2005- Feb. 2011)



2. A. Academic and Professional Qualifications

Year	Degree	Discipline	Division	University
1977	B.Sc.(Hons)	Chemistry	First	A.M.U. Aligarh, India
1979	M.Sc.	Analytical Chemistry	First	A.M.U. Aligarh, India
1982	M.Phil	Chemistry	First	A.M.U. Aligarh, India
1985	Ph.D.	Chemistry	First	A.M.U. Aligarh, India

Title of Ph.D. theses : Synthetic Inorganic ion exchangers

3. III. Work Experience

Year	Position	Total Experience	Place of Work
1980-84	Junior Res. Fellow	4 years	Dept. of Applied Chemistry, AMU, Aligarh, India
1985-87	Senior Res. Fellow	3 years	do
1987-92	Lecturer	5 years	Dept. of Chemistry, AMU, Aligarh, India
1992-98	Senior Lecturer	6 years	do
1998-Nov 2005	Reader	7 years	do
Nov 2005 – Feb 2007	Senior Lecturer	1 years, 3 months	School of Industrial technology, USM, Malaysia
Feb 2007 – Feb 2011	Assoc. Professor	4 years	do
Feb 2011 – Feb 2014	Assoc. Professor	~ 3 years	Dept. of Chemistry, AMU, Aligarh, India
Feb 2014 – to date	Professor	~ 4 years	do

Total Experience Teaching = 30 years
 Research = 37 years

4. ACHIEVEMENTS

Completed Projects
(In Malaysia)

- :
1. Title: Studies on Freezing Point Depression of Palm Oil by Using Natural Blenders for the Enhancement of its Market Acceptability.
Allocation: RM 178, 180.00 (Science Fund) (~USD 60,000).
 2. Title: A Comparative Study of Fractionation of Virgin Coconut Oil and Palm Kernel Oil through Distillation and Supercritical Fluid Extraction.
Allocation: RM 60, 000.00 (FRGS) (~USD 20,000).
 3. Title: Studies on the Behaviour of Sawdust for the Removal of Heavy Metals in Water Pollution.
Allocation: RM 18, 950.00 (USM Short Term Grant) (~USD 6,320).
 4. Title: Supercritical Carbon Dioxide Extraction and Regeneration of Spent Bleaching Clays. (Principal Investigator- Prof. M.Omar A. K.) **eScience Fund, Malaysia** (Dec 2006 to Dec 2008).
Allocation: RM 151,000.00 (~USD 50,000).
 5. Title: A Survey of Estrogen Activity in Penang (Malaysia) Inland Waters. (Principal Investigator- Prof. M.Omar A. K.), Short Term Grant by **USM**.
Allocation: RM 20,000.00 (~USD 6,600).
 6. Studies on Kenaf Fiber as Bioadsorbent for Adsorption of Palm Oil and Spilled Oil. (Principal Investigator- Prof. M.Omar A. K.) (October 2006 to September 2007) **Lembaga Tembakau Negara, Malaysia**.
Allocation: RM 36,000.00 (~USD 18,000).

Completed Projects
(In India)

1. Development of Quick Estimation of Oil in Fruit bunches of Palm Oil-(1999-2001) -Funded by Council of Scientific & Industrial Research, India.
Allocation: Rs 2,700,000.
2. Development of Low Cost Analytical Instruments for the Analysis of Oils- (2002 –2005)- Funded by Council of Scientific & Industrial Research, India.
Allocation: Rs. 3,000,000.
(in collaboration of Dept. of Electronics Engg., A.M.U. Aligarh)

On Going Projects

Title: **Unveiling the role of Zeta Potential on Stability and Performance of Inks/ Paints**
Funding Agency: Siegwark India Pvt. Ltd., Allocation: Rs. 10,00,000

Students Supervised
(See Appendix C(ii))

- :
- Qasimullah, Farooq Khan, Mohd. Rafatullah, Meraj Alam Khan, Aarti Singh, Maazza Yousuf Abdullah, Bazlul Mobin Siddique, Reem A. Ahmed, Joanne lee, Mahmud Ahmed (Co-supervisor), Ngu Chard Chard (Co-supervisor), Mirtaghi Mirmohammadi (Co-supervisor), Low Ling Wei (Co-supervisor), Chou Kian Weng (Co-supervisor), Nor Syahida bt. Ghani (Co-supervisor).

Postgraduate Under supervision
(See Appendix C(iii))

- :
- Lim Han Khim, Tang Soke Kwan (Co-supervisor), Loh Kit Mun, Nur Raihan bt. Ali, Azlima bt. Hamid.

Publications : **Journals=90, Conferences= 36, Books= 2, Book Chapters= 2**
 Achievements/Awards / : *Hadiah Sanjungan USM, 2007 & 2009.
 Recognitions : *Anugerah Sanjungan USM, 2007 , 2009, 2010.

* These awards are given for best publications and include cash prize as well as citations

Research Papers (10 Selected papers of last ten years)

10. [Bioelectrochemical Conversion of Waste to Energy Using Microbial Fuel Cell Technology](#)
 MD Khan, N Khan, S Sultana, R Joshi, S Ahmed, E Yu, K Scott, A Ahmad, ...
 (2017)
 - Process Biochemistry- 57, 141-158, 2017
9. Aarti Singh, Rani Bushra and Anees Ahmad (2016), Supercritical Carbon-dioxide Extraction of essential oil from leaves of *Eucalyptus globulus* L., Analysis and their Application.
 -Anal. Methods, Accepted Manuscript DOI: 10.1039/C5AY02009C.
8. Aarti Singh, Sayeed Ahmad and Anees Ahmad (2015), Green extraction methods and environmental applications of carotenoids-a review.
 -RSC Adv.,5, 62358-62393. DOI: 10.1039/C5RA10243J
7. Aarti Singh and Anees Ahmad (2015), Optimization of total essential oil yield of *Cinnamomum zeylanicum* N. by using supercritical carbon dioxide extraction.
 -Int. J. Sci. Eng. Res., 6(9): 318-327.
6. Aarti Singh and Anees Ahmad (2015), Optimization of supercritical carbon dioxide extraction of essential oil from *Cinnamomum tamala* along with its chemical composition and antioxidant activity.
 -Int. J. Pl.An. and Env.Sci.;5(4):270-275.
5. Rani Bushra, Mu. Naushad, Rohana Adnan, Mohammad Shahadat, Meen haz Ansari, Anees Ahmed (2015).Electrical and optical properties of synthesized composite material. PANITi(IV)arsenophosphate.
 -Asian journal of Chemistry.27(3)1121-1124
4. Meraj A. Khan, Anees Ahmad, Khalid Umar, Syed A. Nabi (2015), Synthesis, Characterization and biological Applications of Nano Composites for the removal of heavy metals and dyes.
 -Industrial & Engineering Chemistry Research, 54, 76-82.
3. Syafalni, Lim HK, Ismail N, Abustan I, Murshed MF, Ahmad A. (2012), 'Treatment of landfill leachate by using lateritic soil as a natural coagulant',
 J Environ Manage. , 112:353-9. doi: 10.1016/j.jenvman.2012.08.001. Epub 2012 Sep 8.
2. Sabir Hussain, Hamidi Abdul Aziz*, Mohamed Hasnain Isa, [Anees Ahmad](#), John Van Leeuwen, Linda Zou, Simon Beecham, Muhammad Umar (2011), 'Orthophosphate removal from domestic wastewater using limestone and granular activated carbon'. IF: 1.81.
[Desalination, 271\(1-3\), 265-272.](#) doi.org/10.1016/j.desal.2010.12.046
1. Reem A. Alrawi, [Anees Ahmad*](#), Norli I., Mohd. Omar A.K. (2011), 'Anaerobic Co-Digestion of Palm Oil Mill Effluent with Rumen Fluid as a Co-Substrate'.
[Desalination, Volume 269, Issues 1–3, Pages 50–57.](#) DOI:10.1016/j.desal.2010.10.041
 In Desalination on 15 March, 2011.

5. RESEARCH AREAS OF INTEREST:

Supercritical CO₂ Extraction, Environmental Pollution, Management and Treatment Technology, Instrumental Methods of Analysis, Adsorption, Catalysis and Ion Exchange, Development of Low-cost Analytical Instruments, Computer Simulation and Modeling.

6. BOOKS AND BOOK CHAPTERS:

Books:

1. "Detection of Common Inorganic Ions- Environmentally Friendly Test" (1999), Published by Narosa, Delhi.
2. "Pharmaceutical Applications of Cartenoids" (2017), Published by AMU Publication Division.

Bbooks Chapters:

1. Chemistry part of Urdu Encyclopedia published by MHRD, India.
2. Nik Ab. Rahman Nik Norulaini, Mohd Omar Ab Kadir and Anees Ahmad, 2009. "Heuristics Approach towards sustainable control of environmental pollution". In: (New Developments in Environmental Pollution and Climate Change) Nova Publishers in 2009.
3. Rani Bushra, Anees Ahmad and Mohammad Shahadat "Mechanism of Adsorption on Nanomaterials". In:(RSC Detection Science Series No. 9, Advanced Environmental Analysis: Applications of Nanomaterials, Volume 1) Royal Society of Chemistry (2017)

7. CONFERENCES ORGANIZED:

Position	Theme	Sponsored by	Date
Organizing Secretary	International Conference of Molecular Association	AMU, UGC, CSIR, DBT, DST	1990 (AMU, India)
Chairman of Scientific Committee of the conference	ICERT-2008	USM, Malaysia MOSTI, Malaysia	30 May-1 June, 2008 (USM, Malaysia)
Joint Org. Secretary	New Vistas in Chemistry	SAP	2-3 March, 2012 (AMU, India)
Joint Org. Secretary	International Conference on Chemistry:Frontiers & Challenges	SAP	2-3 March, 2013 (AMU, India)
Organizing Secretary	Spreadsheet Applications in Research & Industries.	AMU, UGC,	28,March,2016
Joint Organizing Secretary	Workshop on Chemometrics- Applications in Chemistry, Nanotechnology & Industry	AMU, UGC, Siegwark India Pvt. Ltd.	9-11 December,2016
Organizing Secretary	Revolutionary 3D Object Printing	AMU	19-20, November 2016

9. EDITOR OF PROCEEDINGS OF CONFERENCES

Edited Conference Proceedings of :

- i. International Conference on Molecular Association, 1990. Published in special issue of Journal "Chemical & Environmental Research", Volume 5, 1990.
- ii. International Conference on Environmental Research & Technology, 2008. ISBN: 978-983-3986-29-3

10. MEMEBER OF EDITORIAL BOARD OF INTERNATIONAL JOURNAL:

Editor-in-Chief, Journal of Industrial Research and Technology, Penang, Malaysia,
January 2011- onwards.

11. MEMBER OF SOCIETIES:

- Member of the American Chemical Society since 2009.
- Life Member of Indian Convention of Chemists since 1990.
- Faculty Advisor of Students' Chapter of Americal Chemical Society at AMU since 2018

12. RESEARCH PUBLICATIONS IN JOURNALS:

Please see Page 17-24.

13. RESEARCH PAPERS IN CONFERENCES:

Please see Page 25-27.

14. MISCELLANEOUS WORKS: (Please see pages 08-16)

- i. Research Projects
- ii. Research Supervision in India
- iii. Research Supervision in Malaysia
- iv. Workshops & Training Programs
- v. Courses Taught
- vi. Books & Book Chapters
- vii. International Recognition
- viii. National & International Committee Memberships
- ix. Professional Involvements Services to University Corporate Life
- x. Continous Education

RESEARCH PROJECTS

Research Projects (Completed at AMU):

1. **Development of Quick Estimation of Oil in Fruit bunches of Palm Oil**-(1999-2001) -Funded by Council of Scientific & Industrial Research, India.
(in collaboration of Dept. of Electronics Engg. & Tech., A.M.U. Aligarh)
Rs 2,700,000
2. **Development of Low Cost Analytical Instruments for the Analysis of Oils**- (2002–2005)- Funded by Council of Scientific & Industrial Research, India.
Rs. 3,000,000
3. Title: **Unveiling the role of Zeta Potential on Stability and Performance of Inks/ Paints**
Funding Agency: Siegwerk India Pvt. Ltd.
In collaboration with Dept. of Applied Physics and Industrial Chemistry Division
Allocation: Rs. 10,00,000

Research Projects (Completed at USM, Malaysia):

A. As Principal Investigator:

1. Studies on Freezing Point Depression of Palm Oil by using Natural Blenders for the Enhancement of its Market Acceptability.
eScience Fund, Malaysia (Dec 2006 to Dec 2008) **RM 178,180.00**
(Rs. 21,38,160.00)
2. Studies on the behaviour of Sawdust for the removal of Heavy Metals in Water Pollution.
Sort Term Grant by USM. **RM 18,950.00**
(Rs. 2,27,400.00)
3. A Comparative Study of Fractionation of Virgin Coconut Oil and Palm Kernal Oil through Distillation and Super Critical CO₂ Extraction-**Fundamental Research Grant, Malaysia** (Oct 2006 – Sep 2009).

RM 60,000.00
(Rs. 7,20,000.00)

B. Research Projects (Completed at USM, Malaysia) As Co-Investigator:

- 1) Supercritical Carbon Dioxide Extraction And Regeneration Of Spent Bleaching Clays. (Principal Investigator- Prof. M.Omar A. K.)
eScience Fund, Malaysia (Dec 2006 to Dec 2008) **RM 151,000.00**
(Rs. 18,12,000.00)
- 2) A Survey of Estrogen Activity in Penang (Malaysia) Inland Waters.
(Principal Investigator- Prof. M.Omar A. K.)
Short Term Grant by **USM.** **RM 20,000.00**
(Rs. 2,40,000.00)
- 3) Studies on Kenaf Fiber as Bioadsorbent for Adsorption of Palm Oil and Spilled Oil. (Principal Investigator- Prof. M.Omar A. K.)
(October 2006 to September 2007)
Lembaga Tembakau Negara, Malaysia. **RM 36,000.00**
(Rs. 4,32,000.00)

D. Other Research Projects:

1. Feasibility Study for the utilization of Kenaf for Paper and Pulp making by Indian Machines by the Ministry of Plantation and Industrial Commodities.
Visited India from Malaysia twice for this purpose. Expected savings by the ministry is about RM 9,000,000 per machine. It will earn a goodwill to USM, Malaysia and its consultancy team.
2. USM Hajj Research in collaboration with Umm Al-Qura University, Makkah, KSA.- **Visited Makkah, KSA on Dec. 18, 2006 to Jan 11, 2007 as a member of Research Team to conduct research in the real Hajj environment on ‘TRAINING AND EDUCATION FOR HAJJ PILGRIMS: CREATING AN AWARENESS WITH THE SUPPORT OF MULTIMEDIA AND VIRTUAL REALITY SYSTEM’.** It is a recurring observation, evaluation and implementation program that may be beneficial for the whole Muslim World in the future.
Ministry of Education of Malaysia has sanctioned **RM 10,000,000/-** for this project. It will be a big contribution in future Hajj management.
3. Represented USM and presented research proposal on *Hg-Pollution in sea by Oil Rigs* under the **Identifying Long term Research Partners for PETRONAS Research and Technology (R&T) Division** in KL.

RESEARCH SUPERVISION

Research Supervision in India:

Ph.D. 1991 : "Some Physico-Chemical Properties on Adsorption and Ion-Exchange".

Co-supervised)

M.Phil 1994: "Physico-Chemical Studies on Water Pollutants".

(Supervised)

M.Sc.(Elect. Engg.), 1995: "PC based 'In-circuit' Impedance Measuring System".

(Co-supervised)

Master of Computer Application (MCA), 1995: "Stores Manager for Dept. of Chemistry".

(Co-supervised)

P. G. Diploma in Computer Application (PDCA), 1996: "Help Windows- STORES MANAGER- A case Study of the Central Stores Dept. of Chemistry".

(Co-supervised)

Ph.D. 1997 (M.r. Qasimullah): "Physico -Chemical Studies on Water Pollutants".

(Supervised)

Ph.D. 2000 (M.r. Faruq Khan): "Glutamate Neurotoxicity in Albino Rats".

(Supervised)

Ph.D. 2005 (Mr. Mohd. Rafatullah)- "Removal of Heavy Metals from Solutions through Adsorption".

(Supervised)

Ph.D. 2015 (Mr. Meraj Alam Khan)- "Synthesis and characterizations of polyaniline Zr(IV) molybdophosphate".

(Supervised)

Ph.D. 2016 (Ms. Aarti Singh)- "Optimization of Super Critical Carbondioxide Extraction parameters of Essential Oils".

(Supervised)

Ph.D. 2018 (Mrs. Fauzia Khan)- "Development of new nanocomposite material as adsorbent and catalyst for the treatment of water and wastewater".

(Supervised)

Ph.D. 2018 (Mr. Seraj Anwer Ansari)- "Development of new absorbent for the treatment of water and wastewater.".

(Supervised)

Research Supervision in India (Continued):

Following Rresearch Scholars are working at present under my supervision for their PhD Theses:

1. Ms. Nimra Shakeel
2. Ms. Nishat Khan
3. Mrs Huma Kauser
4. Mrs Yashfeen Khan
5. Mr. Urooj Shariq
6. Mr. Jassim Mohammad
7. Ms. Quratulen

Research Supervision at USM, Malaysia:

Ph.D. -2012 (Mrs. Reem Al-Rawi from Iraq)-

"Settling Behaviour, Morphology and Treatment of High Solid Palm Oil Mill Effluent".

(Supervised)

Ph.D. -2010 (Mr. Md Bazlul Mobin Siddique from Bangladesh)-

"Enhancement of the Physical & Chemical Properties of Palm Oil Blends".

(Supervised)

Ph.D. -2010 (Mr. Yasser Aljahwary A.M. from Yemen)-

"Monitoring of Raw and Treated Drinking Water of Penag Water Supply".

(Co-Supervised)

Ph.D. -2009 (Mr. Meertaghi Mirmohammadi from Iran)-

"Indoor Air Quality Monitoring of Industries".

(Co-Supervised)

Supervision for Master Student

M.Sc. 2012 (Ms. Joanne Lee from Malaysia)

“Treatment of Chemical Mechanical Polishing (CMP) Wastewater from Semiconductor Fabrication by Electrocoagulation”.

(Supervised)

M.Sc. – 2009 (Ms Maazza Yousuf Abdullah Mohamed from Sudan)

“Environmental Health & Safety Chemical Risks Assessment”.

(Supervised)

M.Sc. (Azlina bt. Abdul Hamid from Malaysia)

“Lactic Acid Production in Open Fermentation of Food Waste”.

(Supervised)

M.Sc. 2011 (Ms. Noriatul Ismalia Binti Ismail from Malaysia)

“Study of the water quality parameters of Raw and Treated Drinking water of the two plants of Penang, Malaysia”.

(Co-Supervised)

M.Sc. 2011 (Mr. Chou Kian Weng from Malaysia)

“Anaerobic digestion of POME using partial-mixed semi-continuous reactor”.

(Co-Supervised)

M.Sc. 2010 (Mr. Mahmud Ahmed from Nigeria)

“Utilization of Solid POME sludge as a new source of fish feed ingredient for Nile tilapia (*Oreochromis niloticus*)”.

(Co-Supervised)

M.Sc. 2010 (Ms. Low Ling Wei from Malaysia)

“Adsorption of Dyes on Activated carbon obtained from Bagasse”.

(Co-Supervised)

Project Supervision of Undergraduate Students:

1. Paik Imm- Removal of a dye from water by adsorption onto sawdust.
2. Heng See Theng- Life Cycle Assessment of Chemicals in Industry.
3. Lai Suk Kim- Incineration of Municipal Solid Waste.
4. Lim Hoi San- Monitoring of Water Quality Skudai River in Johar.
5. Mohd Faizal Jaafar- Removal of Cd²⁺ from Aqueous Solution by Adsorption on Sawdust.
6. Pak Mok Eu - Removal of Heavy Metals from Aqueous Solution by Adsorption on Sawdust.
7. Tan Lay Yee – Chemical Tracking from Scheduled waste generation to disposal site in USM for Schools of Industrial Technology, Chemistry and Pharmacy.
8. Yap Yee Chii- Thermodynamics of Adsorption of Heavy Metals (Pb & Cu) from Aqueous Solution by Sawdust.
9. Mah Jye Lian- Comparison of the Industrial Source Complex Short Term Model 3 (ISCST3) and the American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD)- A Case Study

Project Supervision of Master Students of Industrial Chemistry (2016-2018)

1. Ms. Aiman Anjum- Mechanical Properties of a tertiary Nanocomposite- CNT-PANI-ZrW
2. Ms. Ananya Singh- An insight on Mechanical Properties of small but strong Carbon Nanotubes
3. Mr. M. Asim Comparative study of catalytic photodegradation of Methylene Red and Rose Bengal dyes by using TiO_2 and ZnO in presence of sunlight.
4. Mr. Irshad Khan Comparative study of catalytic photodegradation of Methylene Orange and Bromophenol Green dyes by using TiO_2 and CuO in presence of sunlight.
5. Mr. M. Amir Comparative study of catalytic photodegradation of Methylene Blue and Amido Black 10B dyes by using TiO_2 and ZnO in presence of sunlight.
6. Mr. Vijay Ram Physico Chemical Properties of ground water of nearby localities of AMU campus.

WORKSHOPS AND SEMINARS ATTENDED

Workshops and Training Programs Attended in AMU:

1. **Academic Staff Orientation Programs:**
 - a. April, 1988 at the Academic Staff College, A.M.U., Aligarh.
 - b. July, 1991 at the Academic Staff College, A.M.U. Aligarh.
2. **Workshop on Low-cost microprocessors**, IIT, Kanpur, 28.5.90 to 10.6.90 and was awarded a microprocessor kit.
3. **Winter School on "Magnetic Resonance - Recent Advances"**, 1991 at Chemistry Department, Delhi University, Delhi.
4. **Workshop on "Parallel Computing in Theoretical Chemistry"**, Chemistry Department, Poona University, Poona, held in March 3-9, 1993.
5. **Workshop on "Scientific Computation & Mathematical Modelling"**, I.I.C.T, Hyderabad from 12.9.94 to 16.9.94.
6. **National Workshop on Fundamental and Analytical Aspects of Surfactants in Organized Medium**, Raipur, 1997.
7. **Workshop on Recent Advances in Hydrocarbon Technology**, 2002, Dept. of Petroleum Studies, A.M.U. Aligarh.
8. **Workshop on 'RECENT ADVANCES IN HYDROCARBON TECHNOLOGY'**, Nov 2002.

Workshops and Training Programs Attended in USM, Malaysia:

1. **Application of Supercritical Fluid Technology** – *Towards Green Technology for the Earth*. One Day Seminar at PPTI, USM (Dec 3, 2005).
2. **One Day Bioinformatics Workshop**- Jointly organized by Synamatics Sdn. Bhd. and School of Computer Science, USM (Feb 10, 2006).
3. **Creating Learning Experience via E-Learning** – Special one day workshop for PPTI academic staff (Feb 21, 2006).
4. **PIMPIN (Program Intensif Meningkatkan Pengupayaan Insaan)**– A three days training program at Bukit Merah Laketown Resort to develop **Human Capital** (Aug 4-6, 2006).
5. **Chemometrics**- A three days workshop on Design of Experiments and Chemometrics Application in Industry at Kuala Lumpur (2010).

COURSES TAUGHT

Taught the following courses at AMU, Aligarh, India

POSTGRADUATE

M.Sc. (F) Industrial Chemistry	<i>Advance Analytical Techniques</i>
M.Sc. (P) Industrial Chemistry	<i>Advance Instrumental Methods of Analysis</i>
M.Sc.(F) Analytical Chem-	<i>Electrochemical Methods of Analysis</i> <i>Instrumental Methods of Analysis</i>
M.Sc. Engg. (Petroleum Engg)-	<i>Advance Methods of Separation</i>
M.Sc. (F) (Industrial Chemistry)-	<i>Environmental Chemistry</i> <i>Advanced Methods of Analysis</i>
M.Sc. (P) Chemistry-	<i>Computer Application on Chemistry</i>

UNDERGRADUATE

B.Sc.(F) Chemistry Main-	<i>Analytical Chemistry</i> <i>Computers for Chemists</i>
B.Sc.(F) Industrial Chemistry-	<i>Environmental Pollution</i> <i>Effluent Treatment & Waste Management</i> <i>Process Instrumentation</i> <i>Computer Programming</i>
B.Sc.(I) -	<i>General Chemistry.</i>

Taught the following courses at University Sains Malaysia (Dec. 2005-Feb.2011):

B.Sc.(F)-	Thermodynamics, (IEK-107) Chemical Analysis, (IEG 100) Introduction to Env. Science (IEG 101) Introduction to Env. Technology, (IEG 102) Industrial Hazardous Waste Management (IEK 303) Computer Application in Industry- MATLAB (IEK-216)
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BOOKS & BOOK CHAPTER

Books:

1. "**Detection of Common Inorganic Ions- Environmentally Friendly Test**" (1999), Published by Narosa, Delhi.
2. "**Pharmaceutical Applications of Cartenoids**" (2017), Published by AMU Publication Division.

Bbooks Chapters:

1. Chemistry part of **Urdu Encyclopedia** published by MHRD, India.
 2. Nik Ab. Rahman Nik Norulaini, Mohd Omar Ab Kadir and Anees Ahmad, 2009.
- "**Heuristics Approach towards sustainable control of environmental pollution**". In: (New Developments in Environmental Pollution and Climate Change) Nova Publishers in 2009.
3. Rani Bushra, Anees Ahmad and Mohammad Shahadat
- "**Mechanism of Adsorption on Nanomaterials**". In:(RSC Detection Science Series No. 9, Advanced Environmental Analysis: Applications of Nanomaterials, Volume 1) Royal Society of Chemistry (2017)

International Recognition 2008-18

National/International Committee

1. Member of American Chemical Society since 2008 [Member #30006270]
2. Life Member of Indian Convention of Chemists since 1990.
3. Faculty Advisor of Students' Chapter of Americal Chemical Society at AMU since 2018.

Journal Papers Reviewed

- J. Applied Polymer Science
- J. Hazardous Materials
- J. Colloid & Interface Science
- J. Env. Monitoring & Assessment
- Photochemistry and Photobiology
- Colloids and Surfaces A: Physicochemical and Engineering Aspects
- Water Environment Research
- Chemical & Engineering Journal
- Environmentalist
- Journal of Environmental Management
- CLEAN - Soil, Air, Water
- International Journal of Water Resources and Environmental Engineering
- Arabian Journal of Chemistry
- Applied Clay Science

Teaching/Research Module

Developed Software for the following (Teaching and Research) purposes:

STORE MANAGER	A system for Store Automation (in dBase)
THERMOSORB	For Thermodynamics of Adsorption (in FORTRAN)
KINETIC	For Kinetics of Ion Exchange (in FORTRAN)
ANALYST	For Structural Elucidation of Acylglycerols in fatty acids (in FORTRAN)
CHEMIST	A system for teaching of Physical/Inorganic Chemistry to students of different levels (in dBase)—An interactive software
CHEMISTII	A data bank of Organic compounds and Complexes based on their structure and properties. (In process in Visual Basic).
EDUCATIONAL SOFTWARE	Developed a number of small software to teach the concepts & processes of chemistry.
MUNSHI	A system for Automation of Dining Halls of A.M.U. (an inventory cum account package)

Developed Laboratory Modules for undergraduate students of Environmental Technology for the following:

1. Preparation of solutions and their standardization.
2. Measurement of pH, salinity, acidity, alkalinity, conductivity and turbidity.
3. Determination of DO, BOD and COD.
4. Determination of Hardness (Total, calcium, magnesium, carbonate and non carbonate).
5. Determination of Ion Exchange Capacity of an ion exchange resin.
6. Waste water sampling.
7. Stream Flow Measurement.
8. Air sampling Ambient air monitoring, Stack monitoring.
9. Conductometric Titration of strong acid with strong base.
10. pH titration of strong acid with strong base.
11. Spectrophotometric determination of Co^{2+} ions.
12. Determination of SO_4^{2-} in a given sample of $\text{Fe}(\text{SO}_4)(\text{NH}_4)_2\text{SO}_4$ by ion exchange method.
13. Use of microscope, Gram staining.
14. Enumeration of bacteria agar plate count, multiple tubes, membrane filtration.

Voluntary Services

A. University Service:

i) Officer on Special Duty to Controller of Examinations

Currently working as OSD to CoE and supervising the Automation and Digitization work of the Examination and Admission Processes as well as the maintenance of Life Cycle of the Students and the related Mmanagement System since June 2014 to December 2016.

ii) Online Admission Process Management and Counselling System

Developed the complete system and is in the process of being implemented in phased manner.

iii) AMU Information Management System (AIMS)

Developed the complete automation system for information management of AMU and managing the same since last two years. The new modules are in the process of development for e-Governance of the university in an attempt to develop fully automated paperless system.

iii) Contribution to the Corporate Life of the University (AMU, India):

OSD to Cotroler of Examination (June 2014- December 2016)

Assistant DSW (Sep 2013-March 2016)

Provost of Hall
Provost S.S. North (2012-2013)

Warden & Incharge of Dining Hall

S.Z.Hall	(Aug 1989 Dec 1990)
M.M.Hall	(Dec 1990 April 1992)
S.S.Hall (South)	(April 1992 Aug 1993)
Aftab Hall	(Aug 1993 –May 1999)
Allama Iqbal Hall	(May 1999 – Feb 2001)
M. Habib Hall	(July 2002 – July 2004)

iv) Miscellaneous Services of University (AMU, India):

1. **B.Voc in Polymer & Coating Technology-** Proposed and running the course under Community College
2. **Industrial Chemistry** Played a key role in the establishment of Industrial Chemistry in the Department of Chemistry and designed the courses for the same.
3. **Environmental Chemistry** Established the lab for the Environmental Chemistry.
4. **Foundation Course** Prepared a synopsis for B.A. (Hons.) **Foundation Course in Chemistry.**
5. **New Courses** Introduced a course **Computers for Chemists** for B.Sc. (F) students and teaching the same.
6. **Chemical Simulation Lab** Developed a Computer Lab for the students, research scholars and staff members of the Chemistry Department.

v) Service of University (USM, Malaysia)

Incharge of laboratory for UG students

B. University Committee

Elected member of University Academic Council, AMU, Aligarh, India for 2 years.

C. School Committee

Nominated member of the Academic Body of the Faculty of Science, AMU Aligarh India for 04 years (two terms of 02 years each)

Nominated member of Majlis Masyuarat of School of Industrial Technology, USM.

Member of website management committee of School of Industrial Technology, USM.

D. University representation in Non Academic Works:

1. Feasibility Study for the utilization of Kenaf for Paper and Pulp making by Indian Machines by the Ministry of Plantation and Industrial Commodities.
Visited India twice for this purpose. Expected saving by the ministry is about RM 9,000,000 per machine. It will earn a good will to USM and its consultancy team.
2. Represented USM expert panel the fiber extraction system from core of Kenaf for National Tobacco Board of Ministry of Plantation and Industrial Commodities and worked out the feasibility of using the machines of Tamafa, Germany. On our recommendation the ministry has decided to change the name of board as National Kenaf & Tobacco Board. The board will now diversify its investment from tobacco to Kenaf fiber.
3. USM Hajj Research in collaboration with Umm AlQura University, Makkah, KSA.
Visited Makkah, KSA from Dec. 18, 2006 to Jan 11, 2007 as a member of Research Team to conduct research in the real Hajj environment on 'TRAINING AND EDUCATION FOR HAJJ PILGRIMS: CREATING AN AWARENESS WITH THE SUPPORT OF MULTIMEDIA AND VIRTUAL REALITY SYSTEM'.
It is a recurring observation, evaluation and implementation program that may be beneficial for the whole Muslim World in the future. **It will be a big contribution of USM on the world level.**
3. Represented USM and presented research proposal on ***Hg Pollution in sea by Oil Rigs*** under '**Identifying Long term Research Partners for PETRONAS Research and Technology (R&T) Division**' in Kuala Lumpur.

Research Papers Published in Journals

93. Kraton based polymeric nanocomposite bioanode for the application in a biofuel cell
N Shakeel, A Ahmad, MI Ahamed, AM Asiri (2019)
Enzyme and microbial technology 127, 43-49
92. Bio-electrodegradation of 2, 4, 6-Trichlorophenol by mixed microbial culture in dual chambered microbial fuel cells (2019)
N Khan, MD Khan, MY Ansari, A Ahmad, MZ Khan
Journal of bioscience and bioengineering 127 (3), 353-359
91. Optimization Study for the Desorption of Methylene Blue Dye from Clay Based Adsorbent Coating
Momina, M Rafatullah, S Ismail, A Ahmad
Water 11 (6), 1304
90. Energy generation through bioelectrochemical degradation of pentachlorophenol in microbial fuel cell
Anees Ahmad and Mohammad Z. Khan Nishat Khan, M. Danish Khan, Abdul-Sattar Nizami, Mohammad Rehan, Azfar Shaida (2018)
- Royal Society of Chemistry, 8(37),20726-20736
89. Bioelectrochemical Conversion of Waste to Energy Using Microbial Fuel Cell Technology
Mohammad Danish Khan, Nishat Khan, Saima Sultana, Rajkumar Joshi, Sirajuddin Ahmed, Eileen Yu, Keith Scott, Anees Ahmad, Mohammad Zain Khan (2017)
- Process Biochemistry 57, 141-158
88. Cauliflower Leave, an Agricultural Waste Biomass Adsorbent, and Its Application for the Removal of MB Dye from Aqueous Solution: Equilibrium, Kinetics, and Thermodynamic Studies
SA Ansari, F Khan, A Ahmad (2016)
- International Journal of Analytical Chemistry
87. The Effect of Chelating Agents on Enhancement of 1, 1, 1-Trichloroethane and Trichloroethylene Degradation by Z-nZVI-Catalyzed Percarbonate Process
M Danish, X Gu, S Lu, X Zhang, X Fu, Y Xue, Z Miao, A Ahmad, M Naqvi, ... (2016)
- Water, Air, & Soil Pollution 227 (9), 301
86. Estimating the Richardson-Zaki Index n for Non-Spherical Irregular Natural Sediments in a Concentrated Suspension
RA Alrawi, A Ahmad, N Ismail, AK Mohd Omar (2016)
- ZANCO Journal of Pure and Applied Sciences 28 (2)
85. Kinetics and thermodynamic studies of phenol adsorption on nanocomposite
M Alam Khan, A Ahmad (2016)
- Desalination and Water Treatment 57 (24), 11255-11265
84. Supercritical carbon dioxide extraction of essential oils from leaves of Eucalyptus globulus L., their analysis and application
A Singh, A Ahmad, R Bushra (2016)
- Analytical Methods 8 (6), 1339-1350
84. Development of PANI/MWCNTs decorated with cobalt oxide nanoparticles towards multiple electrochemical, photocatalytic and biomedical application sites
R Bushra, T Arfin, M Oves, W Raza, F Mohammad, MA Khan, A Ahmad, ...(2016)
- New Journal of Chemistry 40 (11), 9448-9459

83. Predicted Free Settling Velocity of Spherical Non-Oily Palm Oil Mill Effluent Particles at Different Particle Sizes.
RA Alrawi, A Ahmad, N Ismail, AK Omar (2015)
- Journal of Solid Waste Technology & Management 41 (4)
82. Effect of frying on the rheological and chemical properties of palm oil and its blends
BM Siddique, II Muhamad, A Ahmad, A Ayob, MH Ibrahim, MO AK (2015)
- Journal of food science and technology 52 (3), 1444-1452
81. Electrical and optical properties of synthesized composite material polyaniline-Ti (IV) arsenophosphate
R Bushra, M Naushad, R Adnan, M Shahadat, M Ansari, A Ahmad (2015)
- Asian Journal of Chemistry 27 (3), 1121
80. Aarti Singh, Rani Bushra and Anees Ahmad (2016), Supercritical Carbon-dioxide Extraction of essential oil from leaves of *Eucalyptus globulus* L., Analysis and their Application.
- *Anal. Methods*, 2016,8(6), 1339-1350
DOI: 10.1039/C5AY02009C.
79. Aarti Singh and Anees Ahmad (2017), Antioxidant Activity of Essential Oil Extracted by SC-CO₂ from Seeds of *Trachyspermum ammi*
- *Medicines* 2017, 4(3), 53; <https://doi.org/10.3390/medicines4030053>
78. Aarti Singh, Sayeed Ahmad and Anees Ahmad (2015), Green extraction methods and environmental applications of carotenoids-a review.
- *RSC Adv.*, 5, 62358-62393. DOI: 10.1039/C5RA10243J
77. Aarti Singh and Anees Ahmad (2015), Optimization of total essential oil yield of *Cinnamomum zeylanicum* N. by using supercritical carbon dioxide extraction.
- *Int. J. Sci. Eng. Res.*, 6(9): 318-327.
76. Aarti Singh and Anees Ahmad (2015), Optimization of supercritical carbon dioxide extraction of essential oil from *Cinnamomum tamala* along with its chemical composition and antioxidant activity.
- *Int. J. Pl.An. and Env.Sci.*;5(4):270-275.
75. Rani Bushra, Mu. Naushad, Rohana Adnan, Mohammad Shahadat, Meenhaz Ansari, Anees Ahmed (2015). Electrical and optical properties of synthesized composite material. PANITi(IV)arsenophosphate.
- *Asian journal of Chemistry*.27(3)1121-1124
74. Meraj A. Khan, Anees Ahmad, Khalid Umar, Syed A. Nabi (2015), Synthesis, Characterization and biological Applications of Nano Composites for the removal of heavy metals and dyes.
- *Industrial & Engineering Chemistry Research*, 54, 76-82.
73. Meraj A. Khan, Mohammed Kashifuddin, Rani Bushra, Anees Ahmad, Syed Ashfaq Nabi (2014) Synthesis and characterizations of polyaniline Zr(IV) molybdophosphate for the adsorption of phenol from aqueous solution.
- *Reaction, Kinetics Mechanism and catalysis* DOI 10.1007/s11144-014-0751-x
72. Meraj A. Khan, Rani Bushra, Anees Ahmad, Syed A. Nabi, Dilwar A. Khan, Arshia Akhtar (2014) Ion exchangers as adsorbents for removing metals from aquatic media.
- *Archives of Environmental Contamination and Toxicology* 66, 259-269.
71. Rani Bushra, Mohammad Shahadat, S.A. Nabi, A.S. Raeissi, M. Oves, K. Umar, M. Muneer, S.A. Nabi, Anees Ahmad (2014) Synthesis, characterization, antimicrobial activity and applications of composite adsorbent for the analysis of organic and inorganic pollutants.
- *Journal of Hazardous Materials* 264, 481-489.

70. S Mirmohammadi, G Najafpour, A Ahmad, I Hakimi, (2013), 'Biomonitoring of 2,4'-methylene di phenyldianiline for assessment of exposure to methylene diph enyl diisocyanate aerosol',
-*Atmospheric Pollution Research* 4, 208 - 213, 2013.
69. Bazlul Mobin Siddique, Ida Idayu Muhamad, Anees Ahmad, Afizah Ayob, Mahamad Hakimi Ibrahim, Mohd Omar AK, 'Effect of frying on the rheological and chemical properties of palm oil and its blends', (2013),
-*Journal of Food Science and Technology*, 1-9, 2013.
68. Reem A. Alrawi,1 Nik Norulaini Nik Ab Rahman, Anees Ahmad, Norli Ismail, and A. K. Mohd Omar, 'Characterization of Oily and Non-Oily Natural Sediments in Palm Oil Mill Effluent', (2013),
-*Journal of Chemistry*, Volume 2013, (2013), Article ID 298958, 11 pages,
<http://dx.doi.org/10.1155/2013/298958>
67. AK Embi, A Ahmad, MOA Kadir, 'Quantification of Rock Wool Waste Briquette for Recycling', (2012),
J. Ind. Res. Tech., 2 (1), 5-14, 2012.
66. A Abdul Hamid, A Ahmad, MH Ibrahim, NN Nik Abdul Rahman, (2012), 'Food Waste Management in Malaysia-Current situation and future management options',
-*J. Ind. Res. Tech.*, 2 (1), 36-39.
65. Han Khim Lim, Tjoon Tow Teng, Mahamad Hakimi Ibrahim, Anees Ahmad, (2012), Hui Teng Chee, 'Adsorption and Removal of Zinc (II) from Aqueous Solution Using Powdered Fish Bones', APCBEE Procedia, Volume 1, 2012, Pages 96–102.
(International Conference on Environmental Science and Development (ICESD 2012), 5-7 January 2012, Hong Kong)
63. Azlina Abdul Hamid, Anees Ahmad, Mahamad Hakimi Ibrahim, Nik Norulaini Abd Rahman, (2012), 'Food wastes as potential substrates for lactic acid production in open fermentation',
-*J. Ind. Res. & Tech.*, 2(2),92-97, 2012.
62. Ling Wei Low, Tjoon Tow Teng, Abbas F. M. Alkarkhi, Anees Ahmad, Norhashimah Morad , (2011), 'Optimization of the Adsorption Conditions for the Decolorization and COD Reduction of Methylene Blue Aqueous Solution using Low-Cost Adsorbent',
-*Water, Air, & Soil Pollution*, Volume 214, Issue 1-4, pp 185-195, January 2011.
61. Mohammed Danish*, Rokiah Hashim, M. N. Mohamad Ibrahim, Mohd Rafatullah, Othman Sulaiman, Tanweer Ahmad, M. Shamsuzzoha, and Anees Ahmad, (2011), 'Sorption of Copper(II) and Nickel(II) Ions from Aqueous Solutions Using Calcium Oxide Activated Date (*Phoenix dactylifera*) Stone Carbon: Equilibrium, Kinetic, and Thermodynamic Studies',
-*J. Chem. Eng. Data*, 56 (9), pp 3607–3619. DOI: 10.1021/je200460n, Publication Date (Web): August 23, 2011
60. RA Ahmed, A Ahmad*, N Ismail, MOA Kadir, (2011), 'Effect of Aluminium Sulfate Dosage and Mixing Ratio on Organic Loading Removal and Settling Velocity of Palm Oil Mill Effluent Particles',
-*J. Ind. Res. Tech.*, 1 (2), 103-109.
- 58b. Qasimullah, A Ahmad, M Rafatullah, O Sulaiman, R Hashim, (2011), Role of sawdust in adsorption of Zn²⁺ and Cd²⁺ ions from aqueous system,
-*J. Ind. Res. Tech.*, 1 (1), 6-11, 2011.
59. Mohammed Danish, Rokiah Hashim, Mohd Rafatullah*, Othman Sulaiman, Anees Ahmad, (2011), 'Adsorption of Pb(II) Ions from Aqueous Solutions by Date Bead Carbon Activated with ZnCl₂, Govind,
-*CLEAN – Soil, Air, Water*, Volume 39, Issue 4, pages 392–399, April, 2011,
DOI: 10.1002/clen.201000185
- 58a. Mobin Siddique, B., Ahmad, A., Hakimi Ibrahim, M., Hena, S., Rafatullah, M., & Omar A. K, M. (2010). Physico-chemical properties of blends of palm olein with other vegetable oils.
-*Grasas y Aceites*, 61(4): 423-429.

- 57 M Mirmohammadi, M Hakimi, A Ahmad, M Mohammadyan, K Kamel, (2010), 'Evaluation of Indoor Air Pollution of Polyurethane Industries with Emphasis on Exposure with Methylene Diphenyle Diisocyanate (MDI)', *Iranica Journal of Energy and -Environment (IJEE)* 1 (2), 100-105.
- 56 M Mirmohammadi, MH Ibrahim, A Ahmad, MOA Kadir, M Mohammadyan, SB Mirashrafi, (2009), 'Risk assessment of hexamethylen diisocyanate and Hexamethylene diamine in the Polyurethane factories',
-Pak J Med Sci, July-September 25 (4), 613-618.
55. Syafalni, Lim Han Khim, Norli Ismail, Ismail Abustan, Mohamad Fared Murshed and Anees Ahmad, (2012) , 'Treatment of Landfill Leachate by Using Lateritic Soil as a Natural Coagulant' , IF: 3.245.
Article first published online: 08 SEPT.
-*J Environ Manage.*, 112:353-259
doi: 10.1016/j.jenvman.2012.08.001
54. Bazlul Mobin Siddique, Anees Ahmad*, Abbas F.M. AlKarkhi, Mahamad Hakimi Ibrahim, Mohd Omar A.K. (2011), 'Chemical composition and antioxidant properties of candlenut oil extracted by supercritical CO₂'. IF: 1.733
-*Journal of Food Science* Volume 76, Issue 4, pages C535–C542, May 2011
Article first published online: 14 APR 2011
DOI: 10.1111/j.1750-3841.2011.02146.x
53. Sabir Hussain, Hamidi Abdul Aziz*, Mohamed Hasnain Isa, Anees Ahmad, John Van Leeuwen, Linda Zou, Simon Beecham, Muhammad Umar (2011), 'Orthophosphate removal from domestic wastewater using limestone and granular activated carbon'. IF: 1.81
Desalination, 271(1-3), 265-272.
doi.org/10.1016/j.desal.2010.12.046
-*Desalination*, 15 April 2011.
52. *Mahmud Ahmed, Nik Norulaini Nik Ab Rehman, M. Aliyu-Paiko, Roshida Hashim, Mohd Omar Ab Kadir and Anees Ahmad**
Solid POME sludge as a new source of fish feed ingredient for Nile tilapia (*Oreochromis niloticus*),
-*J. Ind. Res. Tech.*, Volume 1, Number 1, Pages 1-5, (April, 2011).
51. *Joanne Lee, Abbas F.M. Alkarkhi, Mohd. Omar Ab. Kadir, and Anees Ahmad**
'Electrocoagulation of Chemical Mechanical Polishing (CMP) Wastewater Treatment with Aluminum Electrodes: Parameter Optimization Using Response Surface Methodology (RSM)'.
-*J. Ind. Res. Tech.*, Volume 1, Number 1, Pages 24-31, (April, 2011).
50. *Mohd Rafatullah, Othman Sulaiman, Rokiah Hashim, Anees Ahmad and Qasimullah*
'Thermodynamic parameters for adsorption equilibrium of methylene blue from aqueous solutions with low-cost adsorbents'.
J. Ind. Res. Tech., Volume 1, Number 2, Pages 92-96, (August, 2011)
49. Ngu Chard Chard, Nik Norulaini N.Abdul Rahman, Abbas F.M.Alkarkhi, Anees Ahmad* and Mohd Omar Abdel Kadir (2010), 'Assessment of major solid wastes generated in Palm oil mills'.
- *Int. J. Environmental Technology and Management*, Vol. 13, Nos. 3/4, 2010, 245-252.
48. K.W. Chou, I. Norli* and A. Anees (2010), 'Evaluation of the effect of temperature, NaOH concentration and time on solubilization of palm oil mill effluent (POME) using response surface methodology (RSM)'.
-*Bioresource Technology*, Volume 101(22), November 2010,8616-8622.

47. Reem A. Alrawi, Anees Ahmad*, Norli I., Mohd. Omar A.K. (2010), 'Anaerobic Co-Digestion of Palm Oil Mill Effluent with Rumen Fluid as a Co-Substrate'. *Desalination*, Volume 269, Issues 1–3, Pages 50–57.
DOI:10.1016/j.desal.2010.10.041
In *Desalination* on 15 March, 2011.
46. Mohd Rafatullah, Othman Sulaiman, Rokiah Hashim and Anees Ahmad (2010), 'Removal of cadmium (II) from aqueous solutions by adsorption using meranti wood '.
Journal of Wood Science and Technology. : Wood Sci Technol(2012) 46:221-241.
45. Tanweer Ahmad, Mohd Rafatullah, Arniza Ghazali, Othman Sulaiman, Rokiah Hashim & Anees Ahmad (2010) 'Removal of Pesticides from Water and Wastewater by Different Adsorbents: A Review'.
Journal of Environmental Science and Health, Part C, 28: 4, 231 — 271.

44. Ling Wei Low, Tjoon Tow Teng, Anees Ahmad, Norhashimah Morad, Yee Shian Wong (2010).
'A Novel Pretreatment Method of Lignocellulosic Material as Adsorbent and Kinetic Study of Dye Waste Adsorption'.
Water, Air, & Soil Pollution, Volume 218, Numbers 1-4 (2011), 293-306.
DOI: 10.1007/s11270-010-0642-3
43. Othman Sulaiman, Mohd Hazim Mohamad Amini, Mohd. Rafatullah, Rokiah Hashim, and Anees Ahmad (2010), 'Adsorption Equilibrium and Thermodynamic Studies of Copper (II) Ions from Aqueous Solutions by Oil Palm Leaves '.
- *International Journal of Chemical Reactor Engineering*, Volume 8, 2010, Article A108.
Volume 8, Issue 1, Pages –, ISSN (Online) 1542-6580.
DOI: 10.2202/1542-6580.2350, July 2010
42. Sulaiman, O. , Ghani, N. S. , Rafatullah, M. , Hashim, R. and Ahmad, A.(2011) 'Sorption Equilibrium and Thermodynamic Studies of Zinc (II) Ions from Aqueous Solutions by Bamboo Sawdust', *Journal of Dispersion Science and Technology*, 32: 4, 583-590.
41. Bazlul Mobin Siddique, Anees Ahmad[†], Mohamad Hakimi Ibrahim, Sufia Hena, Mohd Rafatullah and Mohd Omar A. K. (2010), 'Physico-chemical Properties of Blends of Palm Olein with other Vegetable Oils'. *Grasas y Aceites* 61(4):423-429. DOI: 10.3989/gya.010710.-PDF file
40. Mohd. Rafatullah, Othman Sulaiman, Rokiah Hashim and Anees Ahmad, (2010), 'Adsorption of copper (II) onto different adsorbents'. *J. Dispersion Science and Technology*, 31(7),918- 930.
DOI: 10.1080/01932690903224003
39. M. Danish; O. Sulaiman; M. Rafatullah; R. Hashim and Anees Ahmad (2010), 'Kinetics for the Removal of Paraquat dichloride from Aqueous Solution by activated date (Phoenix dactylifera) stone carbon'. *J Dispersion Science Technology*, 31(2):248-249.
38. Ling Wei Low, Tjoon Tow Teng, Abbas F. M. Alkarkhi, Anees Ahmad and Norhashimah Morad (2011), 'Optimization of the Adsorption Conditions for the Decolorization and COD Reduction of Methylene Blue Aqueous Solution using Low-Cost Adsorbent'- *Water, Air, & Soil Pollution*- 214, 185-105.
DOI: 10.1007/s11270-010-0414-0
37. Reem Al Rawi Ahmed, Anees Ahmad*, Norli Ismail and Mohd Omar Ab. Kadir (2010), 'Methane production during start-up phase of mesophilic semi-continues suspended growth anaerobic digester- *Int. J. of Chemical Reactor Engineering*, Vol 8, Article A89.
36. Mohd. Rafatullah, Othman Sulaiman, Rokiah Hashim and Anees Ahmad (2010), 'Adsorption of methylene blue on low-cost adsorbents: A review'. *Journal of Hazardous Material*, 177,70-80.doi:10.1016/j.jhazmat.2009.12.047
35. Anees Ahmad*, Abbas F.M. Alkarkhi, Sufia Hena, Bazlul Mobin and Khoo Wai Dur (2010), 'Optimization of Soxhlet Extraction of Herba Leonuri using Factorial Design of Experiment'. *Int. J. of Chemistry* 2(1):198-205.
35. Mirtaghi Mirmohammadi, M. Hakimi Ibrahim, Anees Ahmad, Mohd Omar Abdul Kadir, M. Mohammadyan, and S. B. Mirashrafi (2009), 'Evaluation of methylene diphenyl diisocyanate as an indoor air pollutant and biological assessment of methylene dianiline in the polyurethane factories'. *Indian J. Occup Environ Med*. April; 13(1): 38â€"42.
doi: 10.4103/0019-5278.50723..
33. Anees Ahmad*, Mohd. Rafatullah and Qasimullah (2009), 'Solvent Polarity as a Function

- of Retardation Factor in Thin Layer Chromatography of Selected Nitro Functions: Two Mixed Solvents'. *Icfai Univ. J. Chemistry* 11(4):55-66.
32. Anees Ahmad*, Mohd. Rafatullah, Yap Yee Chii and Bazlul Mobin Siddique(2009), 'Removal of Cu(II) and Pb(II) ions from aqueous solutions by adsorption on sawdust of meranti wood. *Desalination* 247:636-646.
 32. Mirtaghi Mirmohammadi, M. Hakimi Ibrahim, Anees Ahmad, Mohd Omar Abdul Kadir, M. Mohammadyan and S.B. Mirashrafi, (2009), 'Indoor Air Pollution Evaluation with emphasis on HDI and Biological Assessment of HDA in the Polyurethane factories '. *Environ Monit Assess.* 2010 Jun;165(1-4):341-7. Epub 2009 May 15.: DOI: 10.1007/s10661-0090950-5
 30. Mohd. Rafatullah, Othman Sulaiman, Rokiah Hashim and Anees Ahmad (2009) 'Adsorption of copper (II), chromium (III), nickel (II) and lead (II) ions from aqueous solutions by meranti sawdust', *Journal of Hazardous Material*, 170(2-3): 969-977 (2009).
 29. Anees Ahmad*, Mohd. Rafatullah, Muhammad Hakimi Ibrahim, Othman Sulaiman and Rokiah Hashim, (2009) 'Scavenging behaviour of meranti sawdust in the removal of methylene blue from aqueous solution', *J. Hazardous Materials*, 170(1): 357-365 (2009).
 28. Abbas F. M. Alkarkhi, Anees Ahmad, Norli Ismail, Easa, A.M., Khalid Omar, Assessment of surface water through multivariate analysis, *Journal of Sustainable development*, 1(3): 27-33 (2008).
 27. Abbas F. M. Alkarkhi, Anees Ahmad, Easa, A.M., 'Assessment of surface water quality of selected estuaries of Malaysia–Multivariate statistical techniques'. *The Environmentalist*, 29(3):255-262 (2009).
 26. Anees Ahmad*, Abbas F. M. Alkarkhi, Sufia Hena. Lim Han Khim, 'Extraction, Separation and Identification of Chemical Ingredients of *Elephantopus scaber* L. Using Factorial Design of Experiment', *International Journal of Chemistry* 1(1): 36-49 (2009).
 25. Mirtaghi Mirmohammadi, M. Hakimi Ibrahim, Anees Ahmad, Mohd Omar Abdul Kadir, M. Mohammadyan and S.B. Mirashrafi, 'Indoor Air Pollution Study on Toluene Diisocyanate and Biological Assessment of TDA in the Polyurethane Industries' ; *World Applied Science Journal* 6(2): 242-247 (2009).
 24. Fatehah Mohd. Omar, Nik Norulainin Nik Abdul Rahman and Anees Ahmad*, 'COD Reduction in Semiconductor Wastewater by Natural and Commercialized Coagulants using Response Surface Methodology', *Water Air Soil Pollution*, 195(4): 345-352 (2008).
 23. Abbas F. M. Alkarkhi, Norli Ismail, Anees Ahmad and Azhar Mat Easa, 'Analysis of Heavy Metal Concentrations in Sediments of Selected Eusteries of Malaysia - A Statistical Assessment', *Environmental Monitoring and Assessment*, 153(1-4): 179-185 (2009).
 22. N.A. Nik Norulaini, Anees Ahmad*, Fatehah Mohd. Omar, Adel Ashur S. Banana, I.S. Md. Zaidul and Mohd. Omar Ab. Kadir, 'Supercritical Sterilization and Extraction of Palm Oil from Screw Pressed Palm Fruit Fiber using Carbon Dioxide Extraction'; *Separation and Purification Technology*, 60(3): 272-277 (2007).
 21. Abbas F. M. Alkarkhi, Anees Ahmad, Norli, I, and Azhar Mat Easa, 'Multivariate analysis of heavy metals concentrations in river estuary'. *Environmental monitoring and assessment.* 143(1-3): 179-186 (2008).
 20. Anees Ahmad*, Mohd. Rafatullah and Md. Danish, 'Sorption Studies of Zn(II) and Cd(II) ions from aqueous solution on Treated Sawdust of Sisso Wood'; *Holz als Roh- und Werkstoff (European Journal of Wood and Wood Products)*, 65(6): 429-436 (2007)
 19. Anees Ahmad*, Mohd. Rafatullah and Md. Danish, 'Thermodynamics of Ion Exchange of Alkali Metal Ions on Crystalline Niobium (V) Phosphate ;', *Bulletin of Chemical Society of*

Japan, 79(1): 88-94 (2006)

18. Farooq Khan, Uzma Sami, S. J. Rizvi and Anees Ahmad*, 'Effect of Excitatory Amino Acids on the Levels of Gangliosides Concentration in Central Nervous System of Albino Rats'; CHEM. ENVIRON. RES 8 (1&2): 151 (1999).
17. Ajmal, M., Mohammad, A., Yousuf, R., Ahmad, A., 'Adsorption Behaviour of Cadmium, Zinc, Nickel and Lead from Aqueous Solutions by Mangifera indica seed shell, Indian J. Environ. Health, 40(1): 15-26 (1998).
16. Mohammed Ajmal, Akhtar Hussain Khan, Shamim Ahmad and Anees Ahmad, 'Role of Saw-dust in the Removal of Copper(II) from Industrial Wastes', J. Water Research, U.S.A. 32(10): 3085-3091 (1998).
15. Mohammad, A., Ajmal, M., Yousuf, R., Ahmad, A., 'Adsorption of Cu(II) from water on the seed and seed shell of Mangifera indica (Mango)'; Indian J. of Chemical Technology, 4, 223-227, (1997).
14. A. Ahmad*, Qasimullah, S.M.A. Andrabi, and P.M. Qureshi, 'Solvent Polarity as a Function of R_f in Thin Layer Chromatography of Selected Nitro functions', J. OF CHROMATOGRAPHIC SCIENCE, U.S.A. 34(8): 368-75 (1996).
13. Pushkin M. Qureshi, S. Muzaffar Ali Andrabi, Ahsan Saeed and Anees Ahmad, 'Field Method for the Determination of an Important Pharmaceutical 2,4 Dinitrotoluene', ANALYTICAL PROCEEDINGS INC. ANAL. COMM., 32: 273-274 (1995).
12. A.P. Gupta, Anees Ahmad and J.S. Thakur, 'A Review on the Ion Exchange Properties of the Materials Based on Niobium', ASIAN JOURNAL OF CHEMISTRY REVIEWS Vol. 2(1), 38-61, 1991.
11. Krishna G. Varshney, Ashfaq R. Khan, Anees Ahmad and Khwaja Z. Alam, 'Evaluation of the Dimensionless Time Parameter for Some Particle Diffusion Controlled Forward and Reverse H(I)-Cation(I) and Cation(I)-H(I)- Exchanges ;, COLLOIDS AND SURFACES, 59:149-153 (1991).
10. Anees Ahmad*, Mohsin Qureshi, Iftexhar Ahmad Khan, Khwaja Zuber Alam, 'Spectrophotometric Determination of Diphenylamine, Pyrole and Indole- A Kinetic Study', ANALYTICAL LETTERS, 23(6): 1139 (1990).
9. Mohsin Qureshi; Varshney, K. G. ; Khwaja Zuber Alam ; Anees Ahmad, 'Adsorption of Tertiary Nitrogen Containing Compounds on Activated Corbon-II: Equilibrium Studies of 2,6-lutidine in Aqueous Systems', COLLOIDS AND SURFACES, 50:,17-24 (1990).
8. Mohsin Qureshi; Varshney, K. G. ; Khwaja Zuber Alam ; Anees Ahmad, 'Adsorption of Tertiary Nitrogen Containing Compounds on Activated Corbon-I : Equilibrium Studies of Nicotinic Acid in Aqueous Systems', COLLOIDS AND SURFACES', 50:7-16 (1990).
7. Krishna G. Varshney, Ashfaq R. Khan, Khwaja Z. Alam and Anees Ahmad, 'Evaluation of the Dimensionless Time Parameter for Some Particle Diffusion Controlled Forward and Reverse OH(I)-Anion (I) and Anion-OH(I) Exchanges', COLLOIDS AND SURFACES, 48,373-378 (1990).

6. Rawat J. P. , Ahmad, A. ,Agrawal, A., 'Equilibrium Studies for the Sorption of Cu²⁺ on Lanthanum Diethanolamine - A Chelating Material', COLLOIDS AND SURFACES, 46: 239-253 (1990).
5. Mohsin Qureshi, Jai Prakash Gupta, Hina Khan and Anees Ahmad* , 'Ion Exchange properties of Niobium Phosphate II : Synthesis and Characterisation of Crystalline Niobium(V) Phosphate', BULL CHEM. SOC. JAPAN, Vol. 61 (6), 2181-2184, 1988.
4. Mohsin Qureshi, Anees Ahmad, Afsar Mohammed Sulaiman, Naseem Ahmed Shakeel , 'Separation of Certain Organic Pollutants Containing Tertiary Nitrogen on Stannic Molybdate Papers', ANALYTICAL LETTERS 20(8): 1157-69 (1987).
3. Mohsin Qureshi, Anees Ahmad, Naseem Ahmad Shakeel and Anek Pal Gupta, 'Synthesis Dehydration Studies and Cation exchange behaviour of a New phase of Niobium (V) phosphate', BULL. CHEM. SOC. JAPAN 59: 3247-3255 (1986).
2. Mohsin Qureshi and Anees Ahmad , The mechanism of diffusion and ionic transport of Li⁺, Na⁺ and K⁺ on semi-crystalline Niobium Phosphate, SOLVENT EXTRACTION AND ION EXCHANGE, 4(4): 823 (1986).
1. Mohsin Qureshi, Anek Pal Gupta, Anees Ahmad and Naseem Ahmed Shakeel, 'pH titration and X-ray Diffraction Studies on the Ion Exchange Behaviour of Crystalline Silicomolybdic Acid', CHEMIA ANALITYCZNA 30: 233 (1985).

Papers Presented in Conferences

36. M. Danish, R. Hashim, M. Rafatullah, O. Sulaiman and **Anees Ahmad** (2010), 'Preparation of Activated Carbon Fibers from *Acacia mangium* Wood: A Comparative Study of Activating Agents'; (16MCC 2010), 12-14 October, 2010, PWTC, Kuala Lumpur, Malaysia.
35. Tang Soke Kwan, Tjoo Tow Teng, Abbas F. M. Al Karkhi, **Anees Ahmad** and Norli Ismail, 'Sonolysis of Acid Violet 19 with the Addition of Titanium Dioxide (TiO₂) Coated Activated Carbon'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, p-207.
34. Lim Han Khim, **Anees Ahmad**, Tjoo Tow Teng, Mohammad Hakimi Ibrahim, Mohd and Suffian Yusoff, 'Adsorption of Methylene Blue on Activated Carbon Prepared from Oil Palm Tree Sawdust'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, p-219.
33. Bazlul Mobin Siddique, **Anees Ahmad**, Mohammad Hakimi Ibrahim and Mohd. Omar A. K., 'Melting and Crystallization Behaviour of Two Different Vegetable Oils and their Blends'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-93.
32. M. H. M. Amini, M. Rafatullah, O. Sulaiman, R. Hashim and **A. Ahmad**, 'Biosorption of Copper (II) Ions from Aqueous Solution by Oil Palm Leaves'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010, USM, Malaysia (ICERT'2010), June 2-4, 2010, p-506.
31. Low Ling Wei, Tjoo Tow Teng, **Anees Ahmad** and Norhashimah Morad, 'Development of a Low-Cost Adsorbent for the Treatment of Synthetic Textile Wastewater'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-633.
30. G. Nor Syahidah, M. Rafatullah, O. Sulaiman, R. Hashim and **A. Ahmad**, 'Adsorption of Zinc (II) Ions from Aqueous Solution by Bamboo Sawdust'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-664.
29. Reem Ahmed Alrawi, Norli Ismail, **Anees Ahmad** and Mohd Omar Ab Kadir, 'The Organic Load Reduction of Palm Oil Mill Effluent (POME) by Aluminium Sulphate; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-684.
28. Chou K.W., Norli I. and **Anees, A.**, 'Optimization of Palm Oil Mill Effluent (POME) Solubilization by Thermo-Alkaline Pretreatments using Response Surface Methodology (RSM)'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-698.
27. A. Afizah, I. Norli, T.T. Teng, **A. Ahmad**, A. Zuhairi, 'Removal and Immobilization of Chromium (VI) using Ferum Nanoparticles in Ground Water and Soil Remediation'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-728.
26. Azlina Abdul Hamid, **Anees Ahmad**, Nik Norulain Nik Abdul Rahman and Abbas Fadhl Mubarek Al Karkhi, 'Production of Lactic Acid in 2-Stage Recycling Process of Food Waste'; Proceedings of 2nd International Conference on Environmental Research and Technology, 2010 (ICERT'2010), June 2-4, 2010, USM, Malaysia, p-

- 753.
25. **Anees Ahmad**, *Sufia Hena and Mohd. Omar Ab Kadir*. 2009. 'Management of Palm Oil Mill Effluent (POME)'; Presented at International Conference on Emerging Technologies in Environmental Science and Engineering, AMU Aligarh, 26-28 Oct., 2009, India.
 24. *Ling Wei Low, Tjoon Tow Teng, Anees Ahmad, Norhashima Morad*. 2009. 'Role of Baggase in the treatment of dye wastewater'; Presented at 1st International Conference on Recycling and Reuse of Materials (ICMR 2009), Kottayam, 17-19 July 2009, India.
 23. *Ngu Chard Chard, Abbas M.F. Alkharkhi, Nik Norulaini N.A. and Anees Ahmad*, 'International Conference on Resource Development and Environmental Change', 27-29th January, 2009 at Department of Geography, Aligarh Muslim University, Aligarh, India.
 22. **Anees Ahmad** and Mohd. Rafatullah, 'Removal of Arsenic(III) from aqueous solutions through adsorption on activated carbon', *All India Seminar on Advances in Environmental Science and Technology*, 15-16 Feb, (2008), Aligarh, India
 21. **Anees Ahmad**, Mohd. Rafatullah and Qasimullah, 'Comparative Studies on the Removal of copper (II) from aqueous solution using different adsorbents', (ICERT 2008), 28-30 May, (2008), Penang, Malaysia.
 20. *Maazza Yousuf Abdulah, , Nik Norulaini,N.A and. Anees Ahmad*, Assessment of Chemical Risks in Laboratories, (ICYC 2008), 296.
 19. **Anees Ahmad**, F.M. Abbas Al-Karkhi and Bazlul Mobin Siddique, Freezing Points of Edible Oils and their fatty acid composition- A Statistical Analysis, (ICYC 2008), 237.
 18. *Mirtaghi Mirmohammadi, Anees Ahmad, M.Hakimi.Ibrahim, Mohd.Omar Abdul Kadir and M.Mohammadyan*, Evaluation of Methylene Diphenyl Diisocyanate in the Polyurethane Industries as a Indoor Air Pollutant (ICERT 2008), **1133**.
 17. *Mirtaghi Mirmohammadi, Anees Ahmad, M.Hakimi.Ibrahim, Mohd.Omar Abdul Kadir and M.Mohammadyan*, Determination of Toluene-2, 4-diisocyanate in the polyurethane workplace (ICERT 2008), **1127**.
 16. *Maazza Yousuf Abdulah , Nik Norulaini,N.A and. Anees Ahmad*, Assessment Of Risks In Using Chemicals In Laboratories (ICERT 2008). **1005-1009**.
 15. *Shams Qamar Usmani, Suhail Sabir, Izharul Haq Farooqui and Anees Ahmad*, Biodegradation Of Phenol And P-Cresol By Sequential Batch Reactor. International Conference on Environmental Research and Technology (ICERT 2008), **906-910**.
 14. *Reem A. Ahmed, Anees Ahmad and Mohd. Omar Ab Kadir*, Studies On Breakthrough Time Of Strong Cation Exchange Resin In A Water Treatment Plant. International Conference on Environmental Research and Technology (ICERT 2008). **880-885**.
 13.
 - a. 'Thermodynamics of Adsorption of Methylene Blue on Meranti Wood Sawdust'
 - b. 'Monitoring of Cryptosporium Oocysts and Giardia Cysts in raw and Treated Water from Two Water Treatment Plants in Penang, Malaysia'
 International Conference on Environment (2006) (ICENV 2006), 13-15 November , 2006, Penang, Malaysia
 12. **Anees Ahmad** and Qasimullah, 'Scavenging Behaviour of Saw Dust Towards Adsorption of Zn(II) and Cd(II) from Aqueous System', International Conference on 'CHEMISTRY IN INDUSTRY' BEHRAIN, Oct 30- Nov., **2000**.

- .11. **Anees Ahmad** and Qasimullah, 'Solvent Polarity as a Function of Thin Layer Chromatography of Selected Nitro Functions in Mixed Solvent System- A Field Method'. National Conference on '*FRONTAL AREAS OF CHEMICAL RESEARCH*', Gwalior, India **1999**.
10. **Anees Ahmad**, Mahfoozur-Rehman and Najmul Hasan, 'PC-Based 'In-Circuit' Impedance Measuring System'. National Conference on 'INTEGRATED SYSTEMS WITH MULTIPLE TECHNOLOGIES', Hyderabad (India) Jan 23-24, **1997**.
9. **Anees Ahmad**, Mahfoozur-Rehman and Najmul Hasan, 'Capacitive Technique for the Detection and Determination of Edible Oils in Oil Seeds and Oil Cakes'. National Conference on 'TECHSHOP-96 (an Industry & Research Meet), Bhubaneshwar, sept 19-20, **1996**.
8. **Anees Ahmad**, M. Ajmal, Akhtar Hussain Khan and Shamim Ahmad 'Role of Sawdust in the removal of Heavy Metals from waste water' International Conference on 'ANALYTICAL CHEMISTRY, IICT, Hyderabad, (India), Feb. 10-12, **1995**.
7. A seminar on 'INFORMATION TECHNOLOGY--RECENT TRENDS', Oct. 21-22, **1993** Deptt. of Computer Science , A.M.U. Aligarh.
6. National Seminar on 'CURRENT TRENDS IN POLYMER RESEARCH AND DEVELOPMENTS', March 11, **1991** at Delhi College of Engg., Delhi.
5. 'INTERNATIONAL CONFERENCE ON CHROMATOGRAPHY', April **1991**, Dept. of Applied Chemistry, A.M.U. Aligarh, (India).
 - *'Analysis of Lipids and Structural Modeling by Computer Software'.
4. 'HEAVY METALS IN INDIAN ENVIRONMENT', January 8-10, **1990**, Deptt. of Applied Chemistry, A.M.U. Aligarh, (India).
 - a) '*Use of Industrial Waste for the removal of copper from Plating Waste'.
 - b) '*Exchange of Heavy Metal Ions on Antimony (V) Arsenophosphate- A Thermodynamic Study'.
3. ALL INDIA SEMINAR ON GROUND WATER DEVELOPMENT, April 7-8, **1987**, Lucknow, (India). (Organised by the Institution of Engineers)
 - *'Pollution of Shallow Aquifer in Aligarh Muslim University Campus, District Aligarh, U.P., (India)'
2. 'NATIONAL SYMPOSIUM ON RECENT TRENDS IN TECHNOLOGICAL APPLICATIONS' OF COORDINATION COMPOUNDS', October 16-18, **1986**, Jivaji University Gwalior (India).
 - *'Catalytic Properties of inorganic Ion Exchangers"