

# BIOGRAPHY



**PROF. DR. ABDUL MAJEED KHAN**  
**DOCTOR OF PHILOSOPHY, POST DOCTORATE**  
**INCHARGE GULSHAN-E-IQBAL CAMPUS**  
**CHAIRMAN, AFFILIATION COMMITTEE, FUUAST**  
**EX-DEAN, FACULTY OF CHEMICAL AND EARTH SCIENCES**  
**PROFESSOR AND EX-CHAIRMAN, DEPARTMENT OF CHEMISTRY**  
**RECIPIENT OF BEST UNIVERSITY TEACHER AWARD BY HEC**  
**PRODUCTIVE SCIENTIST OF PAKISTAN AS RECOGNIZED BY PCST**  
**POINEER OF GREEN AND RENEWABLE ALTERNATIVE FUELS IN PAKISTAN**  
**AUTHOR OF 54 PUBLICATIONS**  
**EDITOR, FUUAST JOURNAL OF BIOLOGY**  
**EX-INCHARGE OF FACULTY OF PHARMACY, FUUAST**  
**FIRST CLASS THROUGHOUT THE ACADEMIC CAREER**  
**HEC APPROVED SUPERVISOR FOR PHD SCHOLARS**  
**MOTIVATIONAL SPEAKER**

*Research Laboratory of Bioenergy (RLB), Department of Chemistry, Faculty of Science,  
Federal Urdu University of Arts, Science and Technology (FUUAST), Gulshan-e-Iqbal Campus, University  
Road, Karachi-75300, Pakistan*

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House # R-495, Sector 31/C1, KDA Employees Society, Korangi, Karachi, Pakistan,*

*Father's Name: Mr. Abdul Hussain; Date of Birth: 1<sup>st</sup> April, 1969;  
Domicile: Azad Kashmir, Citizenship No: 42301-7179353-7; Passport No: KS4103531, NTN#2764724-2*

## BRIEF CITATION

**ACADEMICS:** Currently, Prof. Dr. Abdul Majeed Khan is serving as Professor (BPS-21) at Department of Chemistry, FUUAST. Presently, I am working as Incharge Gulshan-e-Iqbal Campus and Chairman Affiliation Committee. Formerly, I was Dean (Faculty of Chemical and Earth Sciences, FUUAST) and Chairman (Department of Chemistry, FUUAST). In addition, I am an Editor of FUUAST Journal of Biology. I earned B. Sc. in 1990 and M. Sc. in 1993 from the University of Karachi, Pakistan. I did PhD in the field of Marine Natural Product Chemistry in 2000 under the supervision of Prof. Dr. Atta-ur-Rahman, FRS, NI, HI, SI, TI and then Post Doctorate in the field of X- Ray Crystallography in 2001 under the supervision of Prof. Dr. Muhammad Iqbal Choudhary, HI, SI, TI at H. E. J. Research Institute of Chemistry, University of Karachi, Pakistan. My PhD thesis was evaluated by foreign referees namely Prof. Dr. Delbert Howard Miles, Department of Chemistry, University of Central Florida, USA and Prof. Dr. Hans-Jurgen Bestmann, Institute fur Organische Chemie der Universitat Erlangen-Numberg, Erlangen, Germany. I was able to receive the most exceptional and most outstanding remarks from both the referees. Furthermore, I has secured first class throughout the academic career with exceptional research career.

**RESEARCH INTERESTS:** My research group is particularly working on “Green and Renewable Alternative Energy” and “Marine Chemistry”. Furthermore, on the basis of the number of global threats like global warming, global cooling, environmental pollution, energy crisis, loss of biodiversity, and many others Dr. Khan is mainly focused on the development of carbon neutral energy technologies. He is particularly dealing with the transformation of chemical processes from conventional energy to solar energy. Solar derived transformation of biowastes to biofuels is the most targeted project. He is dealing with the new approaches of "waste-to-energy" technology. He is working on industrial waste materials and waste materials of the surrounding environment as heterogeneous catalysts for biofuels synthesis. Furthermore, he is also focused on the production of biofuels via pyrolysis, destructive distillation, fermentation, anaerobic digestion, and transesterification (of oils) from different wastes. Dr. Khan is also devoted to utilize different chars and biochars as biofertilizer, supporting catalysts and as potential adsorbent. Innovation towards green fueling for transport is the main goal of overall research. In addition, Dr. Khan is also focused on biohydrogen production from wastes and its conversion to green electricity. Production of synthetic fuels from biowastes and marine algae is the most targeted project. Furthermore, Dr. Khan research group is also working on molecular modeling particularly molecular docking of marine and terrestrial natural products.

**OTHER ACHIEVEMENTS:** I have published 57 research articles based on green, renewable and sustainable energy technologies as well as on the natural product and synthetic chemistry in the international journals of repute which are being published from USA, UK, Germany, Japan, China, Pakistan, Switzerland, India, Jordan, Uzbekistan, Ethiopia and Southern Africa. My current impact factor is more than 100, citation is more than 1000, h-index is 17 and i10-index is 29. As Principal Investigator, I have conducted different research projects funded by different funding agencies. Furthermore, I have presented new findings related to bioenergy during more than 60 mega events including 9th, 10th and 11th Eurasia Conferences on Chemical Sciences held in Turkey, Philippine and Jordan respectively. Moreover, a large number of graduate and postgraduate students have completed their degrees in the entire field of research under my supervision which are now serving at their best around the globe. I have supervised six PhDs, five M. Phil, seventeen M.Sc. and twelve BS students particularly in the field of chemical engineering, environmental engineering and biotechnology.

In addition, I am the reviewer of the publications of the world well known publishers like Elsevier, Taylor & Francis, Springer, American Chemical Society, Chemical Society of Pakistan and others, which

are being published from America, London, Germany, Japan, Pakistan, China etc. I am an active resource person during various national and international conferences, workshops and seminars. Dr. Khan is the dynamic member of more than 15 scientific bodies around the globe. I am also HEC Approved Supervisor for PhD scholars. In view of my outstanding achievements I was recognized as a “Productive Scientist of Pakistan” by the Pakistan Council of Science and Technology. Dr. Khan was awarded the “Best University Teacher Award-2011” by Higher Education Commission of Pakistan for my outstanding and distinguished achievements in the field of Chemistry particularly in the research area of green, renewable and sustainable alternative energy technologies.

### **NOVEL AND NEW DISCOVERIES**

- ❖ Development of Technology of Green and Renewable Alternative Fuels in Pakistan.
- ❖ He did significant work on **Marine Chemistry** that was published in the journals of international repute.
- ❖ He also did valuable research work on **Green and Renewable Alternative Energy** which is also published in the high impact factor journals.
- ❖ Development of facile and cheapest methodology for the biodiesel synthesis using novel waste industrial catalysts
- ❖ Development of novel approach for the conversion of waste to biodiesel through solar irradiations.
- ❖ Solar irradiated hydrolysis of carbohydrates for the production of bioethanol fuel an alternative of gasoline.
- ❖ Successfully powered the motorcycle by bioethanol/petrol blends.
- ❖ Development of new and efficient chill water circulating system for chemical processes.
- ❖ Development of new solar systems for chemical processes.
- ❖ An innovative approach for the systematic conversion of waste to biodiesel, bioethanol, bioelectricity and finally to a zero waste like biofertilizer.
- ❖ Development of the novel approach for the utilization of waste from Pakistan Steel Industry.
- ❖ An innovative and novel finding about the catalytic potential of different metal oxides/metal chlorides towards biodiesel synthesis
- ❖ Development of new and efficient salt bridge for bioreactors that replaced the expensive agar salt bridge to produce electricity
- ❖ New findings for the conversion of biogas to bioelectricity using new designs of bioreactors for the generation of bioelectricity
- ❖ Development of new and more facile method for the identification of bioethanol fuel for transport and generators
- ❖ Discovery of new acetyl cholinesterase inhibitor from seaweed and synthesis of its potential new derivatives

- ❖ *Discovery of novel alkaloid from seaweed which is entirely a new addition in the history of chemistry*
- ❖ *Discovery of new structures of three taxoids important for the cure of cancer from *Taxus wallichiana* of Kashmir origin*
- ❖ *Development of the biologically important new structures by the powerful tool of X-ray crystallography*

## **EDUCATIONAL HISTORY**

***(First class throughout the academic career along with the exceptional research career)***

- 1<sup>st</sup> Jan 2000* Post Doc (Under the Supervision of Prof. Dr. Muhammad Iqbal Choudhary, HI, SI, TI), Organic  
*– 30 Dec 2001* Chemistry, X-ray crystallography, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan
- 14 Jan 1995* Ph.D. (Under the supervision of Prof. Dr. Atta-ur-Rahman, FRS, NI, HI, SI, TI), Organic  
*– 3 March 2001* Chemistry, Marine Natural Product Chemistry, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan
- 1<sup>st</sup> Feb 1992* M.Sc. (First class, Chemistry), Department of Chemistry, University of Karachi, Karachi,  
*– 31<sup>st</sup> Dec 1993* Pakistan
- 10<sup>th</sup> Jan 1989* B. Sc. (First class, Chemistry, Biochemistry, Microbiology), Federal Govt. Urdu Science  
*– 25<sup>th</sup> Dec 1990* College, Karachi, Pakistan
- 5<sup>th</sup> Jan 1986* F. Sc. (First class, Pre-medical), Govt. National College, Intermediate Board, Karachi,  
*– 20<sup>th</sup> Dec 1987* Pakistan
- 1<sup>st</sup> Jan 1984–* SSC (First class, Science), Govt. High School Kafful Garh, Mirpure Board, Azad Kashmir,  
*30<sup>th</sup> Dec 1985* Pakistan

## **PH.D. THESIS**

Abdul Majeed Khan: *Phytochemical and Structural Studies on the Chemical Constituents of *Taxus wallichiana*, *Tanacetum gracile*, *Jolyna laminarioides* and Other Marine Algae*. 2000, Supervisor: Prof. Dr. Atta-ur-Rahman, FRS, NI, HI, SI, TI

## **EVALUATED BY:**

1. Prof. Dr. Delbert Howard Miles, Department of Chemistry, University of Central Florida, Orlando, Florida, USA.
2. Prof. Dr. Hans-Jurgen Bestmann, Institute fur Organische Chemie der Universitat Erlangen-Numberg, Lehrstuhl II, Henkestr. 42, 91054, Erlangen, Germany.

3. Prof. Dr. Atta-ur-Rahman, NI, HI, SI, TI, Director, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.

## M.SC. THESIS

Abdul Majeed Khan: *Synthesis of Terephthalic Acid and Its Homologues*. 01/1993, Supervisor: Prof. Dr. Syed Afzal

## ADMINISTRATIVE AND TEACHING EXPERIENCE

18-04-2025 to present	<b>In-charge Gulshan-e-Iqbal Campus</b> , Karachi, FUUAST ( <i>I am playing the role of In-charge Campus which is equal to Pro-Vice Chancellor. Responsible to lead all administrative affairs within the campus</i> ).
14-05-2024 to Present	<b>Chairman</b> , Affiliation Committee, FUUAST
02-05-2025 to Present	<b>Editor</b> , FUUAST Journal of Biology
2 <sup>nd</sup> Oct. 2023 to 27 <sup>th</sup> Nov. 2023	<b>Dean</b> , Faculty of Chemical and Earth Sciences, FUUAST
18 <sup>th</sup> June 2022 to Present	<b>Professor</b> , Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Conducted the classes of PhD, M. Phil., MS, M.Sc and taught Green and Alternative Energy, Reaction Mechanism).
18 September 2020-Present	<b>Chairman</b> , Morning Program, Department of Chemistry, Federal Urdu University (Overall administration, member of departmental bodies, teaching)
18 September 2020-Present	<b>Chairman</b> , Evening Program, Department of Chemistry, Federal Urdu University (Overall administration)
2005-2020	<b>In-charge</b> , Organic Chemistry Section, Department of Chemistry, Federal Urdu University
3 <sup>rd</sup> July 2013 to 17 <sup>th</sup> June 2022	<b>Associate Professor</b> , Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Conducted the classes of Ph. D., M. Phil., MS, M.Sc and taught Green and Alternative Energy, Reaction Mechanism).
1 <sup>st</sup> Mar 2006-30 <sup>th</sup> Apr 2007	<b>In-charge</b> (Additional), Faculty of Pharmacy, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Overall administration of evening program).
Jan 2006-Dec 2013	<b>Visiting Faculty Member</b> , Evening Program, Federal Urdu University of Arts, Science and Technology, Department of Chemistry, Karachi, Pakistan (Courses taught: 1. General Spectroscopy in Organic Chemistry (M.Sc. final semester III) 2. Basic Reaction Mechanism (M.Sc. final semester III) 3. Advanced Reaction Mechanism (M.Sc. final Semester IV)
27 <sup>th</sup> Dec 2004-	<b>Assistant Professor</b> , Department of Chemistry, Federal Urdu University of Arts,

- 2<sup>nd</sup> July 2013 Science and Technology, Karachi, Pakistan (Conducted the classes of Ph.D., M.Phil., M.Sc., MS, BS and taught Reaction Mechanism, Spectroscopy and General Organic Chemistry).
- 15<sup>th</sup> Jan 2002-26<sup>th</sup> Dec 2004 **Assistant Professor**, DHA Degree College for Men (Postgraduate Organization affiliated with University of Karachi), Department of Chemistry, Karachi, Pakistan (Teaching, Convener of Student Council, Member of Science Committee and Member of Academic Council)

## RESEARCH EXPERIENCE

- 2016-2021 **Research Supervisor**, Supervise BS, M,Sc, MS, M.Phil. and PhD students
- Jan 2014 to Dec 2016 **Principal Investigator**, Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Conducted a FUUAST funded project entitled "Production of biofuels from *Leucaena leucocephala* using microwave oven, biotransformation, hydrolysis and fermentation" with the outcome of one international publication and one M.Sc. thesis).
- Jul 2013 – Aug 2015 **Research Supervisor**, Federal Urdu University of Arts, Science and Technology, Department of Chemistry, Karachi, Pakistan (Supervision of M.Sc/MS/M.Phil/Ph.D. Scholars and Principal Investigator of Bioenergy Projects).
- Mar 2013 – Dec 2015 **Research Supervisor**, Federal Urdu University of Arts, Science and Technology, Department of Chemistry, Karachi, Pakistan (Conducted HEC funded scholarship based Ph. D. level research project entitled "Isolation of novel alkaloid and production of bioethanol from marine macroalgae followed by the generation of bioelectricity from waste fruits and vegetables").
- Jan 2013 – Dec 2013 **Principal Investigator**, Federal Urdu University of Arts, Science and Technology, Department of Chemistry, Karachi, Pakistan (Conducted a FUUAST funded research project entitled "Production of bioethanol and biodiesel from banana peels" with the outcome of one M.Sc. thesis submission and one international publication).
- Jan 2010 – Dec 2015 **Research Supervisor**, Federal Urdu University of Arts, Science and Technology, Department of Chemistry, Karachi, Pakistan (Conducted HEC funded scholarship based Ph.D. level research project entitled "Chemical transformation of oils derived from green and red algae to biodiesel and its related analogues").
- Jan 2008 – Dec 2010 **Principal Investigator**, Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Conducted HEC funded mega project entitled "Study of the generation of electrical energy by the fermentation of domestic wastewater" with the a remarkable outcome of five publications, one Ph.D. award, submission of six M.Sc. thesis).
- Jan 2005 – Dec 2014 **Research Supervisor**, Department of Chemistry, Federal Urdu University, Karachi, Sindh, Pakistan (Supervised 6 Ph.Ds, one M. Phil (awarded) and 18 master level students completed their M.Sc. thesis based on green, renewable and alternative energy



as well as Marine Natural Product Chemistry).

Dec 2004 –  
Jul 2013

**Research Supervisor**, Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (Supervision of M.Sc/MS/M.Phil/Ph.D. Scholars and Principal Investigator of Bioenergy Project).

Jan 2000 –  
Dec 2001

**Post Doctoral Fellow**, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Sindh, Pakistan (Structure determination of natural and synthetic organic compounds by the powerful tool of X-Ray Diffractometer)

Jan 1997 –  
Mar 1999

**Senior Research Fellow (Ph. D. level)**, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (Isolation, structure elucidation and semi-synthesis of marine natural products of the coasts of Pakistan).

May 1994 –  
May 2001

**Research Officer**, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (Bioassay guided isolation of marine natural products from the coasts of Pakistan).

Jan 1994 –  
Jan 1997

**Junior Research Fellow** (M. Phil. level), HEJ Research Institute of Chemistry, University of Karachi, Karachi, Sindh, Pakistan (Conducted different projects of national and international interest related to isolation and structure elucidation of marine natural products).

## AWARDS, GRANTS AND HONORS

May, 2017:

Grant: Research grant of 0.1 million by FUUAST on the basis of two publications in the journals having more than 1 impact factor.

Jan. 20016:

Grant: Research grant of Rs.0.15 million from Federal Urdu University for the mini project entitled “Bioelectricity generation from wastewater and *Prosopis juliflora* extract using bioreactors”.

Dec. 2015

Award: Honorarium for PhD supervision by HEC

Dec. 2015

Award: Honorarium for publication by HEC

Apr 2014

Award: Honorarium for publications from Federal Urdu University

Jan 2014

Grant: Research grant of Rs.0.1 million from Federal Urdu University for the mini project entitled “Production of bioethanol and biodiesel from banana peels”.

Aug 2013

Award: Best University Teacher Award-2011 by HEC Pakistan for his outstanding achievements for the development of green, renewable and alternative energy as well as development of new and novel Marine Natural Product Chemistry

Mar 2013

Award: Honorarium for publications from Federal Urdu University

Jan 2013

Award: Research grant of Rs. 0.1 million from Federal Urdu University for the mini project entitled “Preparation of biofuels from *Leucaena leucocephala* using

microwave oven, biotransformation, hydrolysis and fermentation”.

Aug 2012	Award: Honorarium for publications from Federal Urdu University
Jul 2011	Award: Honorarium for publications from Federal Urdu University
Oct 2010	Grant: Travel grant from the organizers of 11th Eurasia Conference on Chemical Sciences, organized by Department of Chemistry, University of Jordan, Amman, Jordan
Jan 2010	Award: Honorarium for publications from Federal Urdu University
Jan 2008	Grant: Travel grant from Higher Education Commission (HEC) of Pakistan for 10th Eurasia Conference on Chemical Sciences, Organized by Kapisanang Kimikang Pilipinas-Division of Inorganic Chemistry and Allied Fields (KKP-DICAF) and the Philippine Federation of Chemistry Societies (PFCS), Manila, Philippine
Jan 2008	Grant: Research grant of Rs. 3 million (30,000 USD) from Higher Education Commission (HEC) of Pakistan for the project entitled “Study of the generation of electrical energy by the fermentation of domestic wastewater”.
Nov 2006	Grant: Travel grant from GC-University for the Plenary Lecture in 1st International Chemistry Conference, organized by GC-University, Faislabad, Pakistan
Sep 2006	Grant: Travel Grant by HEC Pakistan for 9th Eurasia Conference on Chemical Sciences, Organized by the Society of Biological Diversity, Ankara, Turkey

## PROFILE OF RESEARCH GROUP

### ***a. Ph.D. Program***

S. No.	Name	Title of Thesis	Status
8.	Ejaz Ali	Production of synthetic fuels from plastic bottles, tyre tubes and tyres by pyrolysis	PhD in progress
7.	Marium Nasir	Production of synthetic fuels from plastic bags, silky clothes, thermocole and diapers pulp to overcome energy crisis	PhD in progress
6.	Shaheena Arshad Khan (Botany, Co-supervisor)	Studies of seaweeds for their fungicidal/nematicidal activities against soil-born plant pathogens.	PhD awarded-2018
5.	Sumaira Noureen	Isolation of novel alkaloid and production of bioethanol from marine macroalgae followed by the generation of bioelectricity from waste fruits and vegetables.	PhD awarded-2018



4.	Noreen Fatima	Chemical transformation of oils derived from green and red algae to biodiesel and its related analogues.	PhD awarded-2017
3.	M. Shoukat	Production of biofuels from seaweeds followed by the generation of bioelectricity from industrial wastewater.	PhD awarded-2017
2.	Muhammad Obaid	Production of biodiesel by the transesterification of oily content of brown seaweeds from the coasts of Pakistan.	PhD awarded-2016
1.	Shamsa Naz	Production of biogas and fertilizers from brown seaweeds and domestic wastewater along with the conversion of biogas to electrical energy by microbial fuel cells.	PhD awarded-2014

### ***b. M. Phil./MS Program***

S. No.	Name	Title	Status
7.	Shazia Kalam	Conversion of e-wastes to synthetic fuels	M. Phil. Thesis in progress
6.	Shumaila Noor	Bioethanol production from waste fruits to power gasoline engine	M. Phil. Thesis in progress
5.	Sakeena Ashraf	Conversion of castor oil to biodiesel using heterogeneous waste catalysts from Pakistan Steel Industry	M. Phil. Warded-2024
4.	M. Shoaib	Biodiesel synthesis from waste cooking oil using mollusca shells as heterogeneous reusable catalysts.	M. Phil. Awarded-2024
3.	Ejaz Ali	Production of renewable fuels by the pyrolysis of waste cooking oil	M. Phil awarded-2022
2.	Fozia Nazeer	Solar radiated hydrolysis of carbohydrates of baygasse to fermentable sugars for bioethanol production on large scale	M. Phil awarded-2021
1.	Mariam Ameen	Production of biodiesel from marine brown alga <i>Sargassum tenerrimum</i> .	M. Phil awarded-2014

***c. Thesis of M.Sc./BS Program***

S. No.	Names	Degree	Title of thesis	Status
32.	Yousuf Ali	BS	New methodology for manufacturing shoe polish	Awarded-2024
31.	Sunehra Ashraf	BS	Bioethanol production from sugarcane bagasse to power petrol engine	Awarded-2023
30.	Muhammad Kashif	BS	Biodiesel synthesis from waste cooking oil using egg shell as active heterogeneous catalyst under the influence of solar energy	Awarded-2022
29.	Sajid Ali	M.Sc.	An update on the development of medicines for COVID-19	Awarded-2021
28.	Rabeeb Khalil	BS	Development of solar system and chill water circulating system for different chemical processes	Awarded-2020
27.	Shabina	BS	Production of Hydrogen by the Spilting of Seawater and Its Conversion to Electricity	Awarded-2019
26.	M. Arsalan Usmani	BS	Biodiesel production from waste cooking oil using solar energy and animal bones as nanocatalysts.	Awarded-2018
25.	Zaheer Abbas	BS	Pyrolytic conversion of buffalo dung to renewable fuels	Awarded-2017
24.	Shoukat Wali	BS	Conversion of waste cooking oil to green, renewable and sustainable biodiesel through heterogeneous waste catalysis.	Awarded-2016
23.	Shazia Kalam	BS	Environmental friendly biodiesel production from waste cooking fats/oil catalyzed by waste catalysts generated from metallurgical industry.	Awarded-2016
22.	Sana Manzoor	BS	Biodiesel synthesis from waste cooking oil using waste catalysts collected from Pakistan Steel Mill.	Awarded-2016
21.	Nasir Abbas	BS	An update on acetylcholine esterase inhibitors from marine life	Awarded-2015
20.	Shujaat Ali	BS	Review on the critical assessment of anti-malarial marine natural products.	Awarded-2015
19.	Sundas Mahmood	BS	Review on anti-diabetic marine natural products from marine algae.	Awarded-2015
18.	Syeda Kaneez Fatima	BS	An update on the cardiovascular disorders by marine drugs.	Awarded-2014
17.	Rafaila Rafique	BS	Review on cancer treatment by marine drugs.	Awarded-2014
16.	Sher Ali	M.Sc.	Production of biodiesel and bioethanol from the legumes of <i>Leucaena leucocephala</i> in Pakistan.	Awarded-2013
15.	Ijaz Ahmed	M.Sc.	Conversion of chicken waste fats to biodiesel	Awarded-2012

			in Pakistan.	
14.	Shaista Khaliq	M.Sc.	Production of bioethanol and biodiesel from waste banana peels in Pakistan.	Awarded-2012
13.	Rabia Sadiq	M.Sc.	Bioethanol production from waste radish leaves in Pakistan.	Awarded-2012
12.	Shumaila Kanwal	M.Sc.	Transesterification of waste cooking oil to biodiesel in Pakistan.	Awarded-2012
11.	Mariam Ameen	M. Sc.	Bioscreening of marine organisms from the coasts of Pakistan.	Awarded-2009
10.	Attaullah	BS	Development of the relationship of COD and BOD of domestic wastewater with the power output of microbial fuel cell.	Awarded-2009
9.	Fazal Malik	M. Sc.	Study of the selection of proton exchange membrane for bio-reactor using domestic wastewater as an energy source.	Awarded-2008
8.	Ijaz Ahmad	M. Sc.	Study of the biochemical oxygen demand (BOD) of domestic wastewater used as the bio-hydrogen source in a bio-reactor.	Awarded-2008
7.	Azra Shaheen	M. Sc.	Determination of chemical oxygen demand (COD) of domestic wastewater used as a bio-energy source in a microbial fuel cell.	Awarded-2008
6.	Naeemullah	M. Sc.	Generation of renewable bio-energy by the fermentation of domestic wastewater with yogurt.	Awarded-2008
5.	M. Obaid	M. Sc.	Conversion of chemical energy into electrical energy by the aerobic and anaerobic fermentation of sugar- cane extracts.	Awarded-2008
4.	Shamsa Naz	M. Sc.	Study of the electricity generation by the fermentation of carbohydrates.	Awarded-2006
3.	Nida Iftikhar	M. Sc.	Synthetic studies of commercially important terephthalic acid and its ester.	Awarded-2006
2.	Aneela Karim	M. Sc.	Modified methods for the preparation of vinegar from natural sources.	Awarded-2005
1.	Seema Perveen	M.Sc.	Modified methods for the preparation of antifungal toilet soap.	Awarded-2005

## PUBLICATIONS

S. No.	References	Publisher and ISSN NO.	Impact Factor
54.	Haji Muhammad, Muhammad Masab, Naeem Ullah, Kousar Yasmeen, Abdul Majeed Khan, Mustafa Tuzen and Tawfik A. Saleh, A comprehensive review of current trends and future perspective of quantum dots regarding their optical and photoswitchable properties, Renewable and Sustainable Energy Reviews, Accepted, 2025	Elsevier	16.3
53.	Mehmood Ali, Faraz Sufyan and <b>Abdul Majeed Khan</b> , Potential of fish waste for the production of sustainable biogas and biodiesel, Fish waste to valuable products, Sustainable Materials and Technology, Springer Nature Singapore Pte Ltd. 2024 S, 413-425 (2023).	Springer Nature Singapore Pte Ltd.	-
52.	<b>Abdul Majeed Khan</b> and Rabib Khalil, New solar systems for biodiesel synthesis and other chemical processes: A green and renewable energy to replace conventional energy, Journal of Biofuels, 14 (1 & 2), 14-23 (2023).	Diva Enterprises Pvt. Ltd. India Print ISSN: 0976-3015	-
51.	Sana Gul, <b>Abdul Majeed Khan</b> , Syed Tahir Ali and Samra Rizwan, In Silico study of novel marine alkaloid jolynamine and other marine compounds via Molecular docking, MM-GBSA binding energy prediction, ADMET evaluation, and molecular dynamics simulation, Natural Product Research, 2023; <a href="https://doi.org/10.1080/14786419.2023.2195177">https://doi.org/10.1080/14786419.2023.2195177</a>	Taylor & Francis Print ISSN No. 1478-6419	2.488
50.	Sana Gul and <b>Abdul Majeed Khan</b> , Molecular docking studies of isolated marine natural products against $\alpha$ -chymotrypsin, Natural Product Research, Published online, October, 2022. <a href="https://doi.org/10.1080/14786419.2022.2132501">https://doi.org/10.1080/14786419.2022.2132501</a>	Taylor & Francis Print ISSN No. 1478-6419	2.488
49.	Kousar Yasmeen, Sadia Nawaz, Azhar Iqbal, Asma Siddiqui, Abdul Rehman Umar, Haji Muhammad, *, Maryam Shafique, Faheem Shah, Sobia Tahir, <b>Abdul Majeed Khan</b> , Muhammad Masab, Muddasir Hanif, Removal of Pb(II) from water samples using surface modified core/shell CdZnS/ZnS QDs as adsorbents: Characterization, adsorption, kinetic and thermodynamic studies, Arabian Journal of Chemistry, 15, 104224 (2022).	Elsevier ISSN No. 1878-5379	6.212
48.	Asad Ullah, Malik Wajid Hussain Chan, Sadar Aslam, Ali Khan, Qamar Abbas, Shamsheer Ali, Meher Ali, Abid Hussain, Zulfiqar Ali Mirani, Syed Sibte Hassan, Mohib Reza Kazmi, Shaukat Ali, Shafqat Hussain & <b>Abdul Majeed Khan</b> , Banned Sudan dyes in spices available at markets in Karachi, Pakistan, Food Additives & Contaminants: Part B <a href="https://doi.org/10.1080/19393210.2022.2100489">https://doi.org/10.1080/19393210.2022.2100489</a>	Taylor & Francis United Kingdom ISSN: 19393210. 19393229	5.5
47.	<b>Abdul Majeed Khan</b> and Zaheer Abbas, Pyrolytic Conversion of Buffalo Dung to Renewable Fuels and Biofertilizer, Journal of Biofuels, 12(2), 57-67 (2021).	Diva Enterprises Pvt. Ltd. India Print ISSN: 0976-3015	-

46.	Muhammad Naveed, He Tianying, Fenghuan Wang, Xian Yin, Malik Wajid Hussain Chan, Asad Ullah, Baocai Xu, Sadar Aslam, Nawazish Ali, Qamar Abbas, Ishtiaq Hussain, Ali Khan, <b>Abdul Majeed Khan</b> , Isolation of lysozyme producing Bacillus subtilis Strains, identification of the new strain Bacillus subtilis BSN314 with the highest enzyme production capacity and optimization of culture conditions for maximum lysozyme production, <i>Current Research in Biotechnology</i> , 4, 290-301 (2022).	Elsevier ISSN: 2590-2628	5.185
45.	Shaheena Arshad Khan, Muhammad Abid, Abdul Majeed Khan, and Faisal Hussain, Proximate Analysis of Nutritional Composition of Antifungal and Antinematicidal Activities of Different Seaweeds from the Coast of Karachi-Pakistan, <i>GU Journal of Phytosciences</i> , 1(2): 114-123 (2021).	Department of Botany, Ghazi University, E-ISSN No: 2789-3545 PRINT- ISSN No: 2789-3537	-
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33.	<b>Abdul Majeed Khan</b> , Noureen Fatima, Muhammad Shoukat Hussain and Kousar Yasmeen, Biodiesel production from green seaweed <i>Ulva fasciata</i> catalyzed by novel waste catalysts from Pakistan Steel Industry, <i>Chinese Journal of Chemical Engineering</i> , 24(8), 1080-1086 (2016).	Elsevier ISSN: 1004-9541	3.898
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**Total impact factor: 100**

## SCIENTIFIC MEMBERSHIPS

- ❖ Editor, FUUAST Journal of Biology
- ❖ Chairman, Affiliation Committee, FUUAST
- ❖ Member of GRMC, FUUAST
- ❖ Member of Academic Council, Federal Urdu University
- ❖ Member Departmental Research Committee (DRC), Department of Chemistry, FUUAST
- ❖ Member of Science Council, Federal Urdu University
- ❖ Member of Board of Studies, Department of Chemistry, Federal Urdu University
- ❖ Ex-member of Graduate Research Management Council (GRMC), FUUAST
- ❖ Member of “The Research Cooperative”-Japan
- ❖ Member of Green Chemistry Network (GCN)-UK
- ❖ Life Member of Medical Microbiology Association of Pakistan (MMAP)
- ❖ Honorary Member of National Academy of Young Scientists (NAYS)
- ❖ Life Member of the Chemical Society of Pakistan (CSP, S-0386)
- ❖ Member of ICCBS Alumni Club (HEJ Research Institute of Chemistry, University of Karachi)
- ❖ Member of National Testing Services Pakistan (NTS)
- ❖ Member of Editorial Board of “*World Journal of Chemistry*” published by International Digital Organization for Scientific Information (IDOSI). (<http://www.idosi.org/wjc/wjcboard.htm>)
- ❖ Member of Editorial Board of “*Global Journal of Molecular Sciences*” published by International Digital Organization for Scientific Information (IDOSI).
- ❖ Member of Editorial Board of “*Global Journal of Biotechnology*” published by International Digital Organization for Scientific Information (IDOSI).
- ❖ Member of Editorial Board of “*Advances in Natural and Applied Sciences*” published by American-Eurasian Network for Scientific Information (AENSI). ([http://www.aensi.org/anas\\_associate.html](http://www.aensi.org/anas_associate.html))
- ❖ Member of Board of Studies, Department of Chemistry, Federal Urdu University
- ❖ Ex-member of Board of Studies, Textile Institutes and Technologies affiliated with Federal Urdu University.

- ❖ Ex-member of Quality Enhancement Cell (QEC), FUUAST
- ❖ Member of Globethics
- ❖ Member of Publons (The scientific body working for the promotion of peer review process of publications)

## **INITIATIVES**

- ❖ Played a key role for the “*Up-gradation of the Department of Chemistry through PC-I funded by HEC*”.
- ❖ Initiated M.Phil./Ph.D. program in the Department of Chemistry, FUUAST as first M.Phil/Ph.D. Incharge.
- ❖ A Research Laboratory of Bioenergy (RLB) has been established in the Department of Chemistry, Federal Urdu University.
- ❖ Initiated the development of the Faculty of Pharmacy as Incharge Evening Program
- ❖ Initiated the advanced research on the generation of electrical energy from wastewater using novel technology of microbial fuel cell. In the history, it was for the first time initiated in Pakistan. A number of publications have been published in the international journal of repute. Some of the publications are currently under progress.
- ❖ Initiated new setup for the solar derived bioenergy generation from biowastes and wastes.
- ❖ In view of current energy crisis, global warming, global pollution, global biodiversity and global economy a number of projects have been initiated for the production of biofuels like bioethanol, biodiesel and biogas from marine algae, biowastes and terrestrial sources. Biofuels from marine algae are not reported from Pakistan. A number of publications are currently under progress
- ❖ A new course of Renewable and Green Energy (*Green Chemistry*) has been initiated at Ph.D. level.

## **INTERNATIONAL REVIEWER**

- ❖ American Chemical Society (ACS Publications)
- ❖ Springer publications
- ❖ Elsevier publications
- ❖ Taylor & Francis Publications
- ❖ International Digital Organization of Scientific Information (IDOSI Publications)
- ❖ American Eurasian Network of Scientific Information (AENSI Publications)
- ❖ Journal of the Chemical Society of Pakistan (JCSP)



- ❖ Algal Research
- ❖ International Journal of Green Energy
- ❖ African Journal of Microbiology Research

### **AS SUBJECT EXPERT, EXTERNAL EXAMINER AND JUDGE**

- ❖ More than four times participated as subject expert in the selection boards of faculty members conducted by DHA Suffa University, Karachi, Pakistan
- ❖ Conducted viva voce examination of two PhD students from H. E. J Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.
- ❖ Conducted viva examination of one M. Phil student from H. E. J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.
- ❖ Conducted oral examination of one M. Phil. student from the Department of Chemistry, University of Karachi, Karachi, Pakistan.
- ❖ Evaluated different projects as judge during the annual exhibition at Pakistan Air Force College, Kemari, Karachi, Pakistan.

### **PUBLIC AWARENESS THROUGH MEDIA**

Published a large number of scientific articles of general public interest related to energy crisis, environmental pollution, global warming, global cooling, amazing discoveries in science, electricity generation by bacteria, fuel generation from waste plastics, electricity generation from biohydrogen, biodiesel production from wastes and marine algae, biodiesel production from wastewater microalgae, biodiesel production from animal fats, global economy, biodiversity, waste management, environment and public health, new discoveries in alternative energy, role of green energy, green house gases, depletion of ozone layer, energy scenario in Pakistan, natural disasters, green energy, significance of wastewater, agriculture and environment, role of animal shells and bones for biofuels, waste to zero waste conversion, ice age, environment and forests and other global challenges in different magazines of well know news papers like Daily Jung, Daily Ausaf, Nawai Waqat, Aman Ka Raj etc. These articles were benefitted by general public in Pakistan as well as abroad through online circulation of the magazines. Participated in the scientific discussions and programs organized by electronic media.

### **PROFESSIONAL & TECHNICAL SKILLS**

- ❖ Expertise with strong knowledge in method development and experimental design for extraction, isolation, purification and characterization of chemical compounds from marine microorganisms and terrestrial medicinal plants.
- ❖ Production, identification and characterization of biofuels from biomass (marine algae, fresh water algae, terrestrial plants, animal fats and biowastes) using the technology of fermentation and transesterification.
- ❖ Expertise in the field of the fermentation technology for the production of bioethanol from biomass.

- ❖ Expertise in the generation of electricity from wastes through novel tool of bioreactors.
- ❖ Expertise in biodiesel synthesis through solar energy using novel heterogeneous waste catalysts.
- ❖ Production of bio-oils (renewable fuels) from bio-wastes by their pyrolysis.
- ❖ Expertise in Scanning Electron Microscopy (SEM), Atomic Force Microscopy (AFM), X-Ray Diffraction (XRD), Fourier Transform Infrared (FTIR) spectroscopy.
- ❖ Homogeneous, heterogeneous and nano-catalysis for biodiesel production.
- ❖ Development of new solar system for chemical processes.
- ❖ Development of new chill water circulating system for chemical reactions.
- ❖ Advanced training includes application of analytical tools in the isolation and purification of natural products of commercial value, optimization of large scale extraction, semi-synthesis of bioactive principles and process chemistry relevant to pharmaceuticals, particularly drug discovery and development of new therapeutic agents.
- ❖ Instrumental skills includes the use of Ultraviolet (UV) Spectroscopy, Infrared (IR) Spectroscopy, Nuclear Magnetic Resonance (NMR) Spectroscopy, Mass Spectroscopy (MS), Gas Chromatography-Mass Spectrometry (GC-MS) and X-Ray Crystallography for the structure elucidation of complex organic compounds.
- ❖ Expertise in chromatographic techniques including High Performance Liquid Chromatography (HPLC), Column Chromatography (CC), Flash Chromatography (FC), Circular Plate Chromatography (CPC), medium and low pressure liquid chromatography, Thin and Thick Layer Chromatography (TLC).

## COURSES TAUGHT

S. No.	Course Title	Course Code	Credit hours	Classes	Programs
16.	Green Chemistry: Renewable and Green Energy ( <i>Initiated by myself</i> )	-	01	Ph.D.	Morning program
15.	Organic Synthesis-I	CHEM-705	01	MS/M.Phil. Semester-II	Morning program
14.	Reaction Mechanism	CHEM-703	01	MS/M.Phil. Semester-I	Morning program
13.	Chemistry of Organometallic Compounds	CHEM-704	02	MS/M.Phil. Semester-I	Morning program
12.	Fuel Chemistry	-	01	M. Sc./BS	Morning program
11.	Mixture analysis	CHM-601	04	M.Sc. Final, Semester-III,	Morning program
10.	Basic Reaction Mechanism	CHM-603	02	M.Sc. Final, Semester-III	Morning program
9.	Advanced Reaction Mechanism	CHM-607	02	M.Sc. Final, Semester-IV,	Morning program
8.	Organic Synthesis and Natural Product Chemistry Lab	CHM-605	04	M.Sc. Final Semester-IV	Morning program

7.	Nuclear Magnetic Resonance in Organic Chemistry	CHEM-603	02	M. Sc. Final Semester-III	Evening program
6.	Basic Reaction Mechanism	CHM-602	04	M.Sc. Final, Semester-III	Evening program
5.	Advanced Reaction Mechanism	CHM-606	04	M.Sc. Final, Semester-IV,	Evening program
4.	Organic Chemistry	Paper-II	02	M.Sc. Previous	Morning program
3.	General Chemistry	Paper-I	02	BS	Morning program
2.	Basic Organic Chemistry	Paper-III	02	BS, Semester-III	Morning program
1.	Qualitative organic analysis	Lab.	01	BS Semester-III	Morning program

### CONFERENCES/SEMINAR/WORKSHOPS/EXHIBITIONS

S. No.	References	Country
60.	<b>As Chairman</b> , Workshop on Career Planning and Skill Development, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (18 <sup>th</sup> May, 2023).	Pakistan
59.	<b>As Chairman</b> , Workshop on Career Planning and Skill Development, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (9 <sup>th</sup> May, 2023).	Pakistan
58.	<b>As Chairman</b> , Hands-on Training Workshop for Chemical Analysis of Chromite Ore, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (15 <sup>th</sup> -17 <sup>th</sup> March, 2023).	Pakistan
57.	<b>As Chairman</b> , Workshop on impact of Effective Student-Teacher Relationship, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (14 <sup>th</sup> March, 2023).	Pakistan
56.	<b>As Session Chair</b> , 2 <sup>nd</sup> International Industrial Chemistry Conference-2023 (IICC-2023), Organized by Department of Chemistry, NED University of Engineering and Technology, Karachi, Pakistan (3 <sup>rd</sup> -4 <sup>th</sup> March, 2023)	Pakistan
55.	<b>As Chairman</b> , Workshop on Highly Effected Teaching Habits, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (21 <sup>st</sup> February, 2023).	Pakistan
54.	<b>As Chairman</b> , Visit and Seminar for Delegation from Poland, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (6 <sup>th</sup> December, 2022).	Pakistan
53.	<b>As Chairman</b> , Phase-II, Seminar on Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (7 <sup>th</sup> December, 2022).	Pakistan
52.	<b>As Chairman</b> , Seminar on Khwabon Ki Tabeer, Organized by Fezan-e-Madina and Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (6 <sup>th</sup> December, 2022).	Pakistan

51.	<b><u>As Chairman</u></b> , Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (15 <sup>th</sup> November, 2022).	Pakistan
50.	<b><u>As Chairman</u></b> , 5th Counseling Seminar Regarding Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (19 <sup>th</sup> October 2022).	Pakistan
49.	<b><u>As Chairman</u></b> , 4th Counseling Seminar Regarding Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (12th October 2022).	Pakistan
48.	<b><u>As Chairman</u></b> , Seminar on Food Quality, Safety and R & D; Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (12th October 2022).	Pakistan
47.	<b><u>As Chairman</u></b> , 3rd Counseling Seminar Regarding Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (12th October 2022).	Pakistan
46.	<b><u>As Chairman</u></b> , Second Counseling Seminar Regarding Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (5th October 2022).	Pakistan
45.	<b><u>As Chairman</u></b> , First Counseling Seminar Regarding Chemistry Expo-2022, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan (21 <sup>st</sup> September 2022).	Pakistan
44.	<b><u>As Chairman</u></b> , Seminar on Clinical Research, Organized by Department of Chemistry and Biochemistry, Federal Urdu University of Arts, Science and Technology in Collaboration with Matrics Research, Karachi, Pakistan, 15 <sup>th</sup> September, 2022.	Pakistan
43.	<b><u>As Chairman</u></b> , Seminar on Freelancing and Entrepreneurship, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, Pakistan in Collaboration with Youth Parliament, 2 <sup>nd</sup> September, 2022.	Pakistan
42.	<b><u>As Chairman</u></b> , Workshop on Spectroscopic Structure Elucidation, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus in Collaboration with Cancer Foundation Hospital, Karachi, 8 <sup>th</sup> June, 2022.	Pakistan
41.	<b><u>As Chairman</u></b> , Hands-on Workshop on Computer Aided Drug Design, Series II, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, 30 <sup>th</sup> May, 2022.	Pakistan
40.	<b><u>As Chairman</u></b> , Seminar on healthy lifestyle (Series-III, Soul Therapy), Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Gulshan-e-Iqbal Campus, Karachi, 1 <sup>st</sup> April, 2022.	Pakistan
39.	<b><u>As Chairman</u></b> , Hands-on Workshop on Computer Aided Drug Design, Series I, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology Gulshan-e-Iqbal Campus, Karachi, 30 <sup>th</sup> March, 2022.	Pakistan
38.	<b><u>As Chairman</u></b> , Seminar on healthy lifestyle (Series-II), Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology and Cancer Foundation Hospital, Karachi, Feb. 25, 2022.	Pakistan

37.	<b><u>As Invited Speaker:</u></b> Mitigation of global climatic threats through the development of green energy technologies, 14 <sup>th</sup> International Conference on Biofuels and Bioenergy (Webinar), Dublin, Edinburgh, Lisbon, London (9 <sup>th</sup> December 2021).	London
36.	<b><u>As Chairman:</u></b> Address as Chairman, Seminar on Healthy Life Style (Series-I), Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Gulshan-e-Iqbal Campus, Karachi, Pakistan (8 <sup>th</sup> December 2021).	Pakistan
35.	<b><u>As Audience:</u></b> Turnitin Awareness Webinar conducted by Mr. Taimur Mirza, Turnitin Trainer/Instructor, Organised by Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Gulshan-e-Iqbal Campus, University Road, Karachi, Pakistan (20 <sup>th</sup> November 2021).	Pakistan
34.	<b><u>As Chairman:</u></b> Seminar for Career Counseling, Organized by Department of Chemistry, Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan (10 <sup>th</sup> November 2021).	Pakistan
33.	<b><u>Address as Chairman:</u></b> Scientific visit of students of Department of Chemistry to Cancer Foundation Hospital, Karachi, Pakistan, addresses the participants as Chairman (21 <sup>st</sup> September 2021).	Pakistan
32.	<b><u>As Speaker:</u></b> Innovative approaches for the development of carbon neutral energy technologies in Pakistan, 1 <sup>st</sup> International Conference on Carbon Neutral Built Environment (A Step Towards Sustainable Future), Department of Civil Engineering, NED University of Engineering and Technology, Karachi, Pakistan, Dec. 20-21, 2018.	Pakistan
31.	<b><u>As Participant:</u></b> Lecture by Sarfraz Rehman, Authentic living and pressing of climate change problems, DHA Suffa University, DHA, Karachi, 22 <sup>nd</sup> Nov. 2018.	Pakistan
30.	<b><u>As Organizer and Co-chair:</u></b> 28 <sup>th</sup> National and 16 <sup>th</sup> International Chemistry Conference on Global Challenges and Chemistry, Department of Chemistry, FUUAST, Karachi, Pakistan (Nov. 20-22, 2017).	Pakistan
29.	<b><u>As Invited Speaker:</u></b> Novel approaches for the conversion of wastes to green and renewable bioenergy, Symposium and workshops on Biowaste derived carbons for waste to bioenergy conversion and water purification, National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan, 20-23 Feb. 2017	Pakistan
28.	<b><u>As Session Chairperson:</u></b> Symposium on Recent Trends in Chemical Sciences, 12 <sup>th</sup> April 2016, Organized by the Department of Chemistry, FUUAST, Karachi, Pakistan.	Pakistan
27.	<b><u>As Resource Person:</u></b> Seminar on Fill the Colour to Bright your Future using Textile Chemistry, 25 <sup>th</sup> August 2015, organized by the Department of Chemistry, FUUAST, Karachi, Pakistan	Pakistan
26.	<b><u>As Resource Person:</u></b> 1 <sup>st</sup> National Seminar-cum-Training Course on Green Chemistry and Environmental Effects, 4 <sup>th</sup> July, 2013, organized by the Department of Chemistry, FUUAST, National Academy of Young Scientists (NAYS), Pakistan and The Emerging Nations Science Foundation (ENSF), Pakistan.	Pakistan
25.	<b><u>As Participant:</u></b> Workshop on SciFinder-The most comprehensive tool for locating chemical and related scientific informations during 11 <sup>th</sup> Eurasia Conference on Chemical Sciences, Dead Sea, Amman, Jordan, 10 <sup>th</sup> Oct. 2010.	Jordan
24.	<b><u>As Participant:</u></b> Workshop on IOCD-Chemaxon in Cheminformatics during	



	11 <sup>th</sup> Eurasia Conference on Chemical Sciences, Dead Sea, Amman, Jordan, 9 <sup>th</sup> Oct. 2010.	Jordan
23.	<b><u>As Participant:</u></b> Workshop on writing papers and proposals during 11 <sup>th</sup> Eurasia Conference on Chemical Sciences, Dead Sea, Amman, Jordan, 9 <sup>th</sup> Oct. 2010.	Jordan
22.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Biofuels: A renewable and green alternative of fossil fuels, 11 <sup>th</sup> Eurasia Conference on Chemical Sciences, Dead Sea, Amman, Jordan, 6-10 <sup>th</sup> October, 2010.	Jordan
21.	<b><u>As Participant:</u></b> Three Days Academic Retreat for HEC Approved PhD Supervisors, Organized by Higher Education of Commission Pakistan (29 <sup>th</sup> -31 <sup>st</sup> July, 2010).	Pakistan
20.	<b><u>As Stage Secretary:</u></b> 2 <sup>nd</sup> National Seminar on Chemicals and Pharmaceuticals for Research and Development, 13 <sup>th</sup> , 14 <sup>th</sup> June, 2008, Organized by the Department of Chemistry, FUUAST, Karachi in collaboration with HEC Pakistan.	Pakistan
19.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Electricity generation by the fermentation of wastewater, 10 <sup>th</sup> Eurasia Conference on Chemical Sciences, Kapisanang Kimica ng Pilipinas-Division of Inorganic Chemistry and Allied Fields (KKP-DICAF) and the Philippine Federation of Chemistry Societies (PFCS), Manila, Philippine (January 7-11, 2008).	Philippine
18.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Innovations in the global issue of energy management for sustainable life, 1 <sup>st</sup> National Seminar on Chemistry Education and Industrial Requirements: Its impact on Economy of Pakistan, Federal Urdu University of Arts, Sciences and Technology, Gulshan-e- Iqbal Campus, Karachi, Pakistan (August 8-9, 2007).	Pakistan
17.	<b><u>As Participant:</u></b> Refresher Course in Organic Chemistry for College Teachers, Organized by HEJ Research Institute of Chemistry, University of Karachi, Pakistan (April 17-29, 2006).	Pakistan
16.	<b><u>As Participant:</u></b> Abdul Majeed Khan, Review on marine natural products of the coast of Northern Arabian Sea, 9 <sup>th</sup> Eurasia Conference on Chemical Sciences, The Society of Biological Diversity, Ankara, Turkey (September 9-13, 2006).	Turkey
15.	<b><u>As Plenary Speaker:</u></b> Abdul Majeed Khan and Shamsa Naz, Microbial fuel cell as a novel and amazing tool for the conversion of chemical energy into electrical energy, 1 <sup>st</sup> International Chemistry Conference, Government College University, Faisalabad, Pakistan (1 <sup>st</sup> -3 <sup>rd</sup> November, 2006).	Pakistan
14.	<b><u>Address as Incharge:</u></b> Scientific visit of Pharm D students to HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan, addresses as Incharge, 2006.	Pakistan
13.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Lecture on electricity generation by fermentation (Bazm-e-Sainsi Adab, Salimuzaman Siddiqi Center, Karachi, 25 <sup>th</sup>	Pakistan



	Nov. 2006).	
12.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, M. Iqbal Choudhary and Atta-ur-Rahman, Investigations on the Bioactive Constituents of Marine Organisms of the Northern Arabian Sea, Seminar on Pak-US Cooperative Program on North Arabian Sea Environment Ecosystem Research, National Institute of Oceanography, Karachi, Pakistan (Jan. 23-24, 2001).	Pakistan
11.	<b><u>As Resource Person:</u></b> Abdul Majeed Khan, Atta-ur-Rahman and M. Iqbal Choudhary, 8 <sup>th</sup> International Symposium on Natural Product Chemistry, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (18-22 Jan. 2000).	Pakistan
10.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Demonstration on the techniques of the separation of the chemical constituents from the plants and marine organisms, Workshop on the Technology for Product Development from Medicinal Plants, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (January 21-27, 2000).	Pakistan
9.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Demonstration on spectroscopic techniques for the structure elucidation of organic compounds, HEJ-COMSATS Workshop on the Use of Spectroscopic Techniques in Structural Organic Chemistry, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (February 14-21, 2000).	Pakistan
2.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, Seaweeds as a rich source for the biologically active compounds, A Symposium on Arabian Sea as a Resource of Biological Diversity, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (September 18-20, 2000).	Pakistan
7.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, X-Ray Crystallography as a powerful tool for the structure elucidation of novel compounds, Workshop on Spectroscopic Techniques, University of Peshawar, Peshawar, Pakistan (1999).	Pakistan
6.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, National Chemistry Conference, University of Peshawar, Peshawar, Pakistan (1998).	Pakistan
5.	<b><u>As Resource Person:</u></b> Abdul Majeed Khan, Demonstration of the bioassay directed isolation of the natural products, Workshop on the Use of Bioassay Techniques for New Drug Development, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (8 <sup>th</sup> July, 1997).	Pakistan
4.	<b><u>As Resource Person:</u></b> Abdul Majeed Khan, Demonstration on the gas chromatography and Mass spectrometry techniques, Gas Chromatography-Mass Spectrometry Workshop, HEJ Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (Jan. 10-14, 1996).	Pakistan
3.	<b><u>As Audience:</u></b> Abdul Majeed Khan, National Chemistry Conference, University of Quetta, Pakistan (1996).	Pakistan
2.	<b><u>As Speaker:</u></b> Abdul Majeed Khan, M. Iqbal Choudhary and Atta-ur-Rahman, Chemical constituents from marine organisms of the coast of Pakistan, International conference on Marine sources, Marine Reference Collection Centre, University of Karachi, Karachi, Pakistan (1996).	Pakistan
1.	<b><u>As Participant:</u></b> Abdul Majeed Khan, National Chemistry Conference, Shah Abdul Latif University, Khairpur, Pakistan (1994).	Pakistan

## IMPORTANT LINKS

- Department of Chemistry, FUUAST: <https://fuuast.edu.pk/departments-of-chemistry/>
- Federal Urdu University: <https://fuuast.edu.pk/faculty-of-science-technology/>
- Google Scholar: <http://scholar.google.com.pk/citations?user=rXFUm5sAAAAJ&hl=en>
- ResearchGate: [http://www.researchgate.net/profile/Abdul\\_Khan41](http://www.researchgate.net/profile/Abdul_Khan41)
- Youtube channel name “Prof. Dr. Abdul Majeed Khan”

## REFERENCES

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