

**CURRICULUM VITAE**  
**DR. MOAZZAM ALI KHAN**

**PERSONNEL**

Date of Birth April, 2<sup>nd</sup> 1966  
 Nationality Pakistani  
 Residential Address B-145 Block A North Nazimabad Karachi-74700  
 Postal Address Institute of Environmental Studies, University of Karachi  
 Karachi-75270, Pakistan  
 Profession Teaching, Research and Administration  
 Marital status Married

**CONTACT**

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**LANGUAGE SKILLS** (on a scale of 1 to 5 (1 - excellent; 5 - basic))

Language	Reading	Speaking	Writing
English	1	1	1
Urdu	1	1	1
Punjabi (local Language)	3	3	3
Sindhi (local language)	3	3	3

**ACADEMIC QUALIFICATION**

Degree	Institution	Year	Division	Subject
Ph. D.	University of Karachi	1999	-	Microbiology
M. Sc.	University of Karachi	1990	1st class 3rd position	Microbiology
B. Sc.	University of Karachi	1989	1st class	Microbiology
H.Sc.	Board of Intermediate Education, Karachi	1983	1st class	Pre- Medical (science)
S.Sc.	Board of Secondary Education, Karachi	1981	1st class	Science

**YEARS OF PROFESSIONAL  
EXPERIENCE IN ENVIRONMENT**

**25 YEARS  
November 1990- till date**

## EMPLOYMENT RECORD

Date from – Date to	Position	Location/Organization	Description of work
<b>RESEARCH AND ADMINISTRATION</b>			
March 2014 till date	<b>Registrar</b>	University of Karachi	Overall management of academic and non-academic affairs
February 2014 till date	<b>Director</b>	Karachi University Science laboratories	Dealing with most sophisticated scientific equipment to analyze hundreds of samples
December 12, 2007 till December 2013	<b>Director</b>	Institute of Environmental Studies, University of Karachi	Over all administration of the Institute. Development of academic programmes and curricula. Started academic programmes including <b>B.S and M.Sc, M.Phil and Ph.D in Environmental Science</b> . Development of Research Project, Establishment of linkage between University and Industry, Development of foreign linkages
April 19, 2005 to December 11, 2007	<b>Incharge</b>	Institute of Environmental Studies, University of Karachi	Over all administration of the Institute. Development of academic programmes, Development of Research Project, Establishment of linkage between University and Industry, Development of foreign linkages
September 24, 1999 to January 29, 2002	<b>Coordinator cum Research Officer in BPS-18</b>	Institute of Environmental Studies, University of Karachi	Development of research projects, Conducting research on contemporary environmental issues
November 8, 1992 to September 23, 1999	Coordinator cum Research Officer in BPS-17	Institute of Environmental Studies, University of Karachi	Development of research projects, Conducting research on contemporary environmental issues
November 1990 to November 8, 1992	<b>Research Officer</b>	<b>World Health Organization</b> Institute of Environmental Studies, University of Karachi	Worked on project entitled Modified layout of oxidation ponds which also incorporates recirculation
5 <sup>th</sup> June, 2009 to Till date June 16 2005 to July 6, 2005	<b>Secretary Landscape and Gardening Council</b>	University of Karachi	Development of landscaping in the campus. Maintenance of existing parks and fields. Development of garden containing indigenous and threatened plant flora
<b>TEACHING</b>			
July 2013	<b>Professor</b>	Institute of	Teaching courses to post graduate

till date	<b>BPS-21</b>	Environmental Studies, University of Karachi	students on Water and Wastewater Chemistry, Industrial pollution, Environmental Impact Assessment (EIA) and labs pertaining to water and wastewater chemistry and microbiology
November 11, 2005 till date	<b>Associate Professor BPS-20</b>	Institute of Environmental Studies, University of Karachi	Teaching courses to post graduate students on Water and Wastewater Chemistry, Industrial pollution, Environmental Impact Assessment (EIA) and labs pertaining to water and wastewater chemistry and microbiology
January 29, 2002 till November 10, 2005	<b>Assistant Professor BPS-18</b>	Institute of Environmental Studies, University of Karachi	Teaching courses to post graduate students on Water and Wastewater Chemistry, Industrial pollution, Environmental Impact Assessment (EIA) and labs pertaining to water and wastewater chemistry and microbiology
June, 1996 to January 28, 2002	<b>Adjunct Faculty (Assistant Professor)</b>	Institute of Environmental Studies, University of Karachi (Evening Programme)	Teaching courses to post graduate students on Water and Wastewater Chemistry, Industrial pollution, Environmental Impact Assessment (EIA) and labs pertaining to water and wastewater chemistry and microbiology
July 2009 till date	Adjunct Faculty	Department of English University of Karachi	Teaching course on Environmental Management
July 2009 till date	Adjunct Faculty	Department of Economics, University of Karachi	Teaching course on Environmental Management
2006 till date	Adjunct Faculty	Jinnah women University Karachi Campus	Teaching course on Environmental Management
2005 till date	Adjunct Faculty	Department of Public Administration, University of Karachi	Teaching course on Environmental Management
2005 till date	Adjunct Faculty	Department of Petroleum Technology, University of Karachi	Teaching course on Environmental Health and Safety
2005 till date	Adjunct Faculty	Department of Commerce, University of Karachi	Teaching course on Environmental Management
2003 and 2004	Adjunct Faculty	Allama Iqbal Open University, Karachi Campus	Teaching course on Environmental Microbiology
2004 till date	<b>Member Curriculum</b>	<b>Higher Education Commission, Pakistan</b>	Develop and revise curriculum of Environmental Science for the public

	<b>Revision Committee for Environmental Science</b>		sector Universities
2004 till date	External Examiner	Sindh University, Federal Urdu University	To take examinations of M.Phil/Ph.D students
2006 till date	Convener/ Member Board of Studies	Institute of Environmental Studies, University of Karachi	Develop and revise curriculum of Environmental Science
2006 till date	Member Board of Studies	Department of Environmental and Natural Resource Studies, Iqra University	Develop curriculum of Environmental Science

### **INTEREST AND EXPERIENCE IN THE FIELD OF ENVIRONMENT**

**Have gained a considerable practical experience on the following:**

1. Global Climate Change
2. Climate change impacts in Pakistan
3. Capable of designing and developing low cost wastewater treatment and disposal systems for small and medium size communities.
4. Agriculture sustainability through the use of treated wastewater
5. Treatment of water for potable use
6. Public health aspects of wastewater treatment ,disposal and reuse
7. Wastewater reclamation technology in hot climate for agriculture and fish culture
8. Capable of developing environmental health programs for monitoring and surveillance of water supply and sanitation.
9. Industrial pollution control and management
10. Environmental hygiene (food and water hygiene and safety)
11. Environmental Impact Assessment
12. Marine pollution and control
13. Ecological studies
14. Biodegradation of hazardous waste

### **TECHNOLOGY DEVELOPMENT**

**Low cost technology for the treatment of wastewater is being developed** through process modification in waste stabilization pond. This technology was adopted by **Karachi Water and**

**Sewerage Board (KWSB)** and a treatment plant is being installed at Mauripur to treat 54 MGD of wastewater. This technology is also transplanted at the University of Karachi.

## SCIENTIFIC PROJECTS PERTAINING TO ENVIRONMENT

<b>International and National Research Projects</b>				
Date from- Date to	Location	Organization & reference person	Position	Description
<b>September, 2011 to December 2012</b>	<b>Pakistan</b>	<b>International Alert/DFID</b> 346 Clapham Road, SW9 9AP, London, UK Phone # :+44 (0) 207 627 6800 <a href="mailto:jivekananda@international-alert.org">jivekananda@international-alert.org</a>	<b>Principal Investigator</b>	Strengthening response to climate change in fragile state
<b>January 2011 to June 2012</b>	Pakistan	<b>Mr. Michael Mett</b> <b>University of Innsbruck,</b> <b>Austria</b>	Principal Investigator	Research project on Siltation of water reservoirs in Pakistan
<b>September, 2010- September 2012 Ongoing</b>	Pakistan	<b>DelPHE/British Council</b> Ms. Marta Lang University of Oxford Marta.lang @ ouce.ox.ac.uk	Principal Investigator	Research Project on Unprotected coastal sites of high ecological value in Bangladesh and Pakistan
<b>June 14, 2010</b>	Pakistan	<b>Bearing Point/ US AID</b> Mr. Rodney Rahman 92111000221 bearingpoint.com.pk	Principal Investigator	Initial environmental Examination Bolton Market Revitalization Programme
Feb- March 15, 2010	Pakistan	<b>Bfz-gGmbH Germany</b> and SMA Rizvi Textile Institute Mr. Martin Strahle Project Coordinator Schleizer Str.5-7 D-95028 Germany 0049 (0) 9281 7177-23 <a href="mailto:straehle.martin@bln.bfz.de">straehle.martin@bln.bfz.de</a> www.bfz.de	<b>Curriculum developer</b>	To develop academic programme pertaining to environment for the post graduate students
<b>April 2009- April 2011 (Ongoing)</b>	Pakistan	Higher Education Commission, Islamabad Pakistan Mr. Abid Ali Gohar Deputy Director (R&D) Sector H-9 , Islamabad 051-90401924 www.hec.gov.pk	Principal Investigator	A project of HEC entitled Climate change vulnerability and hazards to coastal areas of Sindh, Pakistan
<b>June 2009- June 2010</b>	Pakistan	University of Karachi, Office of Dean Faculty of Science,	Principal Investigator	A project on Environmental

		University of Karachi-Karachi-75270, Pakistan, 9261300-1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk		impact assessment of Malir River outfall
<b>June 2009- June 2010</b>	Pakistan	University of Karachi, Office of Dean Faculty of Science, University of Karachi-Karachi-75270, Pakistan, 9261300-1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk	Principal Investigator	A project on Environmental and ecological impact assessment of Rehri Creek, Sindh Pakistan
June 2006- Sept 2008	Pakistan	<b>European Union and Ca, Foscari University of Venice, Italy</b> Prof. Ignazio Musu Dorsoduro 3246,30123 390412349151 musu@unive.it	<b>Local Tutor</b>	EuroAsian research and training in Climate change management. <b>A project of European Commission of Asia Link</b>
June 2007- June 2008	Pakistan	University of Karachi, Office of Dean Faculty of Science, University of Karachi-Karachi-75270, Pakistan, 9261300-1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk	Principal Investigator	A project on Environmental impact assessment of Lyari river outfall , Karachi Pakistan
April 2007- October 2008	Pakistan	Merck Pakistan Ltd. Mr. Arshad Aleem General Manager D-7 Parveen Building Shaheed Millat Road P O Box 13021 Karachi 75350 92-21 -111-523-523, 4559210-17	Team Leader	A project on Public health quality of drinking water of Karachi, Islamabad and Lahore
February 2006	Pakistan	Hilton Pharma (Pvt.) Ltd Azhar Jalil Director Plant 13/15 Korangi Industrial Area, Karachi 74900 92-21- 5072224-8	Team Leader	Establishment of Solar Energy Park
August 2006	Pakistan	Merck Pakistan Ltd.	Team Leader	Establishment of

		Mr. Arshad Aleem General Manager D-7 Parveen Building Shaheed Millat Road P O Box 13021 Karachi 75350 92-21 -111-523-523, 4559210-17		Merck Water Testing Laboratory
June 2006- June 2007	Pakistan	University of Karachi, Office of Dean Faculty of Science, University of Karachi-Karachi- 75270, Pakistan, 9261300- 1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk	Principal Investigator	A project on Environmental and ecological impact assessment of Hub Dam Karachi , Pakistan
June 2005- June 2006	Pakistan	University of Karachi, Office of Dean Faculty of Science, University of Karachi-Karachi- 75270, Pakistan, 9261300- 1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk	Principal Investigator	A project on Environmental and ecological impact assessment of China Creek , Karachi Pakistan
June 2004- June 2005	Pakistan	University of Karachi, Office of Dean Faculty of Science, University of Karachi-Karachi- 75270, Pakistan, 9261300- 1306, <a href="http://www.ku.edu.pk">www.ku.edu.pk</a> , registrar@ku.edu.pk	Principal Investigator	A project on Arsenic contamination of ground water in Karachi , Pakistan
June 2003- June 2004	Pakistan	Higher Education Commission, Islamabad Pakistan Sector H-9 , Islamabad 051-90401924 <a href="http://www.hec.gov.pk">www.hec.gov.pk</a>	Co- Principal Investigator	A project on seasonal biochemical analysis of Clifton Beach with particular reference to oil spill 2003-2004
June 2003- June 2004	Pakistan	Higher Education Commission, Islamabad Pakistan Sector H-9 , Islamabad 051-90401924 <a href="http://www.hec.gov.pk">www.hec.gov.pk</a>	Co- Principal Investigator	A project on Development of microbial consortia for efficient degradation of petroleum hydrocarbons in marine environment 2003-2004
2002-2004	<b>Doha , Qatar</b>	H.S. Consultant PO Box 21335 Doha, Qatar Mr. Hammad Al Sulaiti	Environemnt expert	<b>Ecological Survey of Ras Laffan Marine Area Doha, Qatar</b>

		4315387-4432081 hscoms@hotmail.com		
2000-2002	Pakistan	<b>Premier Shell Pakistan and University of Melbourne Australia.</b> Adrian J. Peck A.J. Peck and Associates Pty Ltd PO Box 1213 SUBIACO WA 6904 ph. +618 9381 3962 fax +618 9388 1022	Hydrologist	Base line study of Khirthar National Park, Sindh Pakistan
2002	Pakistan	Associated Consulting Engineers ACE (Pvt.) Ltd. ACE House, Shahrae Faisal Karachi-75350 Mr. K.A. Ansari, regional Director 4537420-4530452	Ecologist	Ecological impact assessment of RBOD, Sindh, Pakistan
2000	Pakistan	Maunsell and Engineering Consultants International Pvt. Ltd. And Engineering Consultants International 29 Block 7& 8 D.C.H.S. Sharah e Faisal 4542290-93	Environment expert	Strategic Environmental Assessment (SEA) of Port Qasim, Sindh
2000	Pakistan	Techno-Consult (Pvt.) Ltd. House 37, K/6 PECHS 4530630-4530632	Water Chemist	Environmental Impact Assessment of KEL OIL for the development of Liquefied Petroleum Gas terminal at Port Qasim <b>(Malaysian Project)</b>
2000	Pakistan	Techno-Consult(Pvt.) Ltd. House 37, K/6 PECHS 4530630-4530632	Water Chemist	Broadening and Upgrading of Port Qasim channel. Environmental impact related to marine water and sediment quality was performed under this program.
1998	Pakistan	Hamdard (Waqf) Pakistan Ltd Mr.Quddus Farooqi Hamdard Laboratories (Waqf)	Water chemist	Analysis of wastewater



		Pakistan, Al-Majeed, Hamdard Center, Nazimabad #3, Karachi Ph# 92-21-6616001- 4 Fax# 92-21-6611755		
1996	Pakistan	Smith Kline Beecham, B/63 Estate Avenue SITE Karachi-75700 2561200-7 Mr. Mohammad Suleiman	Water chemist	Effluent monitoring survey;
1996	Pakistan	Sami Pharmaceutical Company of Pakistan Ltd F-95 Off Hub River Road SITE, Karachi-75730 2578081-83 M. Akhlaq Siddiqui	Water chemist	Effluent monitoring survey
1996	Pakistan	Merck Sharp and Dhome (MSD) of Pakistan Ltd C-14, SITE Manghopir Road Karachi-75700 92-21-2561358 Mr. Nasim ul Haque	Water chemist	Designing of low cost chemical method of wastewater treatment
1995	Pakistan	Bristol Meyers Squibb (Pakistan) Pvt. Ltd Plot No. 5, Sector 21 Korangi Industrial area, Karachi 74900 5015007-11 Mr. S. Asad Saeed Zaidi	Water chemist	Wastewater Monitoring for designing wastewater treatment and recovery plant
1995	Pakistan	Knoll Pharmaceutical Ltd. Plot 13 Sector 20 Korangi industrial Area Karachi-74900 Mr. Muhammad Tariq	Water chemist	Wastewater Monitoring for designing wastewater treatment
1994	Pakistan	National Management Consultant (NMC)	Water chemist	Testing of spent chrome liquor
1994	Pakistan	Society for Conservation & Protection of Environment (SCOPE)	Water chemist	Analysis of Lead in drinking water samples from Karachi region;
1994	Pakistan	Hyderabad Development Authority and M/S Technology Links (Pvt) Ltd 4/10 -12 Rimpa Plaza M. A. Jinaah Road 7729426-7722047 Mr. Kaleem Farooqi	Water chemist	Analysis of wastewater of Hyderabad region;

1994	Pakistan	Karachi Port Trust Eduljee Dinshaw Road Karachi-74000 Mr. Rashid Yahya Usmani 9214329-30	Water chemist	A pollution survey of Karachi coastal region; A study conducted in collaboration with Karachi Port Trust (KPT) 1994. This work was carried out for finding out pollution load at different points of the Karachi coast involving water and sediment. A Marine Pollution Control Laboratory was also set up for the KPT at the Port.
1993	Pakistan	Sindh Environmental Protection Agency	Analytical team leader	Project pertaining to the pollution survey of Lyari and Malir river (1993). This project involved testing of 44 parameters of wastewater and assessment of environmental and health impacts.

**INTERNATIONAL and NATIONAL CONFERENCE / SYMPOSIUM /WORKSHOP  
ATTENDED (Paper presentation)**

S.No.	Year	Location	Organization	Title of conference/ workshop/symposia/ seminar/purpose of visit	Title of Paper/ presentation
1.	May 3, 2013	Institute of Environmental Studies, University of Karachi	International Alert, UK SANSaC	Roundtable Workshop Strengthening Responses to Climate Variability	Strengthening Responses to Climate Variability in Pakistan
2.	April 25-26, 2013	Institute of Environmental Studies, University of Karachi	Pakistan Red Crescent Society	Emergency First Aid Techniques and its Importance for Youth	
3.	March, 28 2013	Institute of Environmental Studies,	Final round Table Workshop on	British Council/DFID	unprotected coastal sites of high

		University of Karachi	unprotected coastal sites of high ecological value in Pakistan		ecological value in Pakistan
4.	March 5-6, 2013	Institute of Environmental Studies, University of Karachi	Higher Education Commission, Pakistan and Hamdard University	HEC- International Workshop on Contemporary Versus Sustainable Health Care Systems in Pakistan	Noise induced stress in the population of Karachi, Sindh, Pakistan
5.	<b>November 11-15, 2012</b>	<b>Colombo, Sri Lanka</b>	<b>DFID</b>	<b>Strengthening response to climate change in fragile state</b>	<b>Strengthening response to climate change in fragile state: a case of coastal areas of Sindh</b>
6.	May 2012	Karachi	WWF Pakistan	Building capacity on climate change adaptation in the coastal areas of Pakistan	Impact of climate change on the coastal areas of Sindh
7.	May 2012	Karachi	HEC/ SANSaC	Security implication of climate change in South Asia	Climate change and regional cooperation
8.	<b>January 2012</b>	<b>Bangladesh</b>	<b>DelPHE/ British council</b>	<b>Workshop on unprotected coastal sites of high ecological value in Bangladesh</b>	<b>unprotected coastal sites of high ecological value in Bangladesh</b>
9.	January 2012	Nawabshah, Sindh	Quaid-e-Awam University Nawabshah, Sindh	4rd National Conference on Energy and Environment	Impact of climate change on the coastal areas of Sindh
10.	<b>December 2011</b>	<b>Maldives</b>	<b>President house, Maldives</b>	<b>To attend the inauguration and meeting of SANSaC</b>	
11.	<b>November 2011</b>	<b>Nepal</b>	<b>SANSaC</b>	<b>Project meeting</b>	
12.	<b>September 2011</b>	<b>Oxford, UK</b>	<b>University of Oxford</b>	<b>Project meeting</b>	

13.	January ,2011	Innsbruck, Austria	University of Innsbruck, Austria	Project meeting	
14.	December 22,2010	Karachi	Federal Urdu university	Floristic biodiversity and conservation	
15.	December 21, 2010	Karachi	Centre of Excellence in Marine Biology, University of Karachi	Marine Biodiversity: Issues and Remedies	
16.	November 22-23, 2010	Khatmandu, Nepal	IDSA- PRIO	Climate change: Political and Security implications in South Asia	Climate change and regional cooperation
17.	June 24-25, 2010	Lahore	World Bank	Workshop on sector assessment of solid waste management in Pakistan and identification of best practices	
18.	April, 24-25 2010	Karachi	Dept. of Agriculture and Agribusiness management, University of Karachi	Organic Kitchen gardening	Preparation of compost by utilization Kitchen waste
19.	28th-29th March 2010	Dhaka, Bangladesh	European Union	Expert Roundtable The Security Implications of Climate Change in South Asia	Impact of climate change in the coastal areas of Sindh
20.	March 18-20, 2010	Nawabshah, Sindh	Quaid-e-Awam University Nawabshah, Sindh	3rd National Conference on Energy and Environment	Water Conservation through Recycling
22.	December 15- 19, 2009	Karachi	Pakistan Wetland Programme	Natural Resource Managemnt	Impact of climate change in Pakistan
21.	8-9 June 2009	Jakarta, Indonesia	European Union	EAHEP Workshop 3 International Partnerships in Higher Education: Policies, Practices and Lessons Learned	CLIMA : OVERVIEW

22.	May 2009	Karachi	Sindh Wild Life Department. Govt. of Sindh	Transboundary coastal and marine protected areas with special priorities for spawning grounds	Devastation of Karachi Coastal Ecosystem
23.	May 8, 2009	Karachi	Dept. of Agriculture and agribusiness management, University of Karachi	Agribusiness in Pakistan: Progress and Prospects.	
24.	April 16, 2009.	Karachi	International Union for Conservation of Nature (IUCN)	National Issues Statement for the Wetland of Pakistan	
25.	December 1-3, 2008	Lahore	Higher Education Commission, Pakistan	Assessing quality in Higher Education	
26.	27-30 November, 2008	Karachi	International Union for Conservation of Nature (IUCN)	Banking on Mangroves: A case for Investing in Coastal Ecosystem	
27.	6 November, 2008	Karachi.	Oxfam in collaboration with The European Commission	Fishing Rights and Sustainable Fishing Practices in Sindh.	
28.	5th to 7 <sup>th</sup> November 2008	Gawadar Balochistan	Pakistan Coast Guards	Natural Resource Management	Impact of Climate Change on water Resources
29.	October 2008	<b>Venice , Italy</b>	<b>European Union</b>	<b>Clima final conference( A project of europen Union through Asia Link)</b>	
30.	August 4, 2008	Merck Pakistan		Seminar on Drinking Water and Wastewater	Water Conservation through Recycling
31.	March 6-9, 2008	Karachi	Higher Education Commission	<b>International workshop in collaboration with Venice International University, Italy Global Environmental Conflicts: Change and</b>	Global Water Conflicts.

				<b>Adaptation</b>	
32.	March 31 – April 12, 2008	<b>Renmin University Beijing China</b>	<b>European Union</b>	<b>4<sup>th</sup> Training Workshop of Climate Change Management (Clima),</b>	<b>Impact of Climate change on Water Resources</b>
33.	March 27-29, 2008,	Nawabshah, Sindh	Quaid-e-Awam University,	Second National Conference on Energy and Environment: Issues, Concerns and Options	Water Conservation Through Recycling: Karachi University Model
34.	March 24-25, 2008	University of Sindh, Jamshoro	Higher Education Commission	Workshop on Identification of flowering plants and herbarium techniques.	Environment Health and Safety Issue related to Herbarium.
35.	<b>February 20 - 25, 2008</b>	<b>Manila, Philippines</b>	<b>European Union</b>	<b>Asia –Link Stakeholders Meeting</b>	<b>Benefits of Clima to University of Karachi</b>
36.	January 22-25, 2008.	Karachi	Higher Education Commission	Workshop on Avian Mycoplasmosis	Environment Health and Safety Issues in Poultry Industry
37.	June 5-7, 2007	Karachi	Higher Education Commission, National Core Group in Life Sciences	Workshop on Biosafety, Environment and Health : A New Frontier	Personnel Protective Equipment and Their Uses
38.	<b>6<sup>th</sup> to 15<sup>th</sup> November 2007</b>	<b>CIERD, Paris</b>	<b>European Union</b>	<b>3<sup>rd</sup> Training Workshop of Climate Change Management (Clima)</b>	
39.	December 19-21, 2006	Karachi	University of Karachi	Training Programme for Laboratory Staff	Laboratory safety
40.	March 18-21, 2007	Islamabad	Pakistan Society for	Sixth International Biennial Conference of	

			Microbiology	Microbiology	
41.	August 28-30, 2006	Karachi	University of Karachi	Workshop on Fisheries products of Pakistan: Challenges of changing International regime	
42.	March 6-9, 2006	Karachi	University of Karachi	Workshop on Statistical Methods In Environmental Science	
43.	December 19-24, 2005	Karachi	University of Karachi	KU-HEC Workshop on Bacterial Diseases of the Poultry and their Remedies,	
44.	June 6-8, 2005	Karachi	National Management Consultants	Workshop on ISO-14001	
45.	December 29-30, 2003	Karachi	Environment Research and Training (PERT)	Workshop on Sampling Environmental Monitoring	
46.	2003	Karachi	The PROGRESS.	Training workshop on Sustainable Port development	
47.	May 24, 2003	Karachi	Institution of Engineers Pakistan	Saving Pakistan Marine Environment	Distribution Of pollutants in water and sediment of Gharo Creek
48.	2003	Karachi	The Scientific and cultural Society of Pakistan/IUCN	4 <sup>th</sup> Training workshop on wetland conservation and management	
49.	2001	Karachi	University of Karachi.	training workshop on Management and Conservation of Protected Areas	
50.	May 2000	Karachi	Pakistan Environmental Protection Agency , Environmental Protection Agency Sindh in collaboration with Environment Canada and	Training Course on Oil Spill Assessment and Remediation	

			Canadian International Development Agency.		
51.	1999	Karachi	Department of Statistics, University of Karachi.	Seventh Statistics Seminar	Impact of Industrial Discharge on Karachi Coastal Environment
52.	1997	Karachi	Pakistan Society for Microbiology	Pakistan Society for Microbiology Second Biennial International conference	The pollution profile of Karachi coastal area
53.	1997	Karachi	Sindh Environmental Protection Agency	Workshop on Development of Pakistan Environmental Assessment Procedures and Guidelines	
54.	1995	Karachi	Pakistan Society for Microbiology	Pakistan Society for Microbiology International conference	

### WORKSHOP ORGANISED

S.No.	Year	Title	In collaboration with	Position
1.	APRIL 16, 17, 18 & 19, 2015	Indigenous on campus training programme on Health and safety	Higher Education Commission Pakistan	Principal Organizer
2.	APRIL 17 TO 20, 2015	Indigenous on campus training programme on Financial analysis and planning	Higher Education Commission Pakistan	Principal Organizer
3.	APRIL 17, 18 & 19, 2015	Indigenous on campus training programme women harassment	Higher Education Commission Pakistan	Principal Organizer
4.	APRIL 24 TO 27, 2015	Indigenous on campus training programme on development skills	Higher Education Commission Pakistan	Principal Organizer
5.	APRIL 24 TO 27, 2015	Indigenous on campus training programme on good governance	Higher Education Commission Pakistan	Principal Organizer
6.	May 12 TO 14, 2015	Indigenous on campus training programme on hostel management	Higher Education Commission Pakistan	Principal Organizer



7.	<i>May 12 TO 15, 2015</i>	Indigenous on campus training programme on leadership	Higher Education Commission Pakistan	Principal Organizer
8.	<i>May 12 TO 15, 2015</i>	Indigenous on campus training programme on quality assurance	Higher Education Commission Pakistan	Principal Organizer
9.	<i>MAY 29 TO JUNE 1, 2015</i>	Indigenous on campus training programme on biological and chemical safety	Higher Education Commission Pakistan	Principal Organizer
10.	<i>May 29 to june 1, 2015</i>	Indigenous on campus training programme on financial analysis and planning (2)	Higher Education Commission Pakistan	Principal Organizer
11.	<i>MAY 29 TO JUNE 1, 2015</i>	Indigenous on campus training programme on IT management	Higher Education Commission Pakistan	Principal Organizer
12.	April 25-26, 2013	Emergency First Aid Techniques and its Importance for Youth	Pakistan Red Crescent Society	Principal Organizer
13.	May 3, 2013	Roundtable Workshop Strengthening Responses to Climate Variability	<b>International Alert, UK and SANSaC</b>	<b>Principal Organizer</b>
14.	<b>March, 28 2013</b>	<b>Unprotected coastal sites of high ecological value in Pakistan</b>	<b>University of Oxford, UK, DelpHE British Council</b>	<b>Principal Organizer</b>
15.	March 5-6, 2013	Contemporary versus sustainable health care systems in Pakistan	Higher Education Commission	<b>Principal Organizer</b>
16.	<b>May 2012</b>	<b>Security implication of climate change in South Asia</b>	<b>SANSaC (south Asian Network on Security and Climate Change and Higher Education Commission Pakistan)</b>	<b>Principal Organizer</b>
17.	<b>March, 2012</b>	<b>Environmental awareness</b>	<b>US Consulate</b>	<b>Principal Organizer</b>
18.	March 2012	Unprotected coastal sites of high ecological values in Pakistan	University of Oxford, UK	<b>Principal Organizer</b>
19.	February 2012	Water resources management in	University of	<b>Principal</b>

		Pakistan	Innsbruck , Austria	<b>Organizer</b>
20.	November 2011	Unprotected coastal sites of high ecological values in Pakistan	University of Oxford, UK	<b>Principal Organizer</b>
21.	Dec. 16-29, 2008	Training programme on Environmental Management	Sindh Environmental Protection Agency, Pakistan	<b>Principal Organizer</b>
22.	March 6-9,2008	Global Environmental Conflicts: Change and Adaptation	Higher Education Commission and Venice International University, Italy	<b>Principal Organizer</b>
23.	June 5-7, 2007	Workshop on Biosafety, Environment and Health: A New Frontier	National Core Group in Life Sciences, Higher Education Commission Pakistan.	<b>Principal Organizer</b>
24.	January 22-25, 2008.	Workshop on Avian Mycoplasmosis	Higher Education Commission	Organizing Secretary
25.	<b>April 23 to May 5, 2007</b>	<b>Integrated coastal zone management</b>	<b>European Union</b>	<b>Local Tutor</b>
26.	December 19-21,2007	Training Programme for Laboratory Staff	Office of Dean Faculty of Science, University of Karachi.	<b>Course-Cordinator</b>
27.	August 28- 30, 2006	Workshop on Fisheries products of Pakistan: Challenges of changing International regime	Marine Reference and Resource Collection Centre, University of Karachi and PCSIR Laboratories Complex, Karachi.	Course-Cordinator
28.	6-9, 2006	Statistical Methods In Environmental Science	Department of Statistics	Organizing Secretary

			University of Karachi.	
29.	December 19-24, 2005	Bacterial Diseases of the Poultry and their Remedies,	Higher Education Commission Pakistan.	Co- Chairman
30.	June 6-8, 2005	Workshop on ISO-14001	National Management Consultants	Course Incharge
31.	December 29-30, 2003	Workshop on Sampling Environmental Monitoring	Programme for Environmental Research and Training (PERT)	Course Co-coordinator
32.	August 2002	Workshop on Water Disinfection Action Plan During Emergencies	WHO/ CEHA	Facilitator
33.	September 2001	Workshop on Advocacy for Hospital Waste Management	WHO/ CEHA	Facilitator
34.	November 2000	Training Course on National Water Quality Guidelines	WHO/ CEHA	Facilitator
35.	March, 1999	Training Course of Laboratory Staff in Air and Water Quality Monitoring	WHO/ CEHA	Facilitator
36.	May 1999	Training Course on Promotion of Pollution Control and Low Cost Technologies at Source	WHO/ CEHA	Facilitator
37.	July, 1997	Training Course on Drinking Water Quality Monitoring Surveillance	WHO/CEHA	Facilitator
38.	December, 1994	National Course and Workshop on Sanitary and Public Health Microbiology	University of Karachi.	Facilitator

#### **M.Phil/ Ph.D students enrolled**

<b>S.No</b>	<b>Name of student</b>	<b>Programme</b>	<b>Title</b>	<b>Status</b>	<b>Year</b>
1.	Aamir Alamgir	Ph.D	Implications of climate change on the geo-ecosystem at the Sindh coastal area	Completed	2015
2.	Mr. Shoaib Shahab	M.Phil	Environmental impact assessment of Malir and Lyari river	Completed	2014
3.	Ms. Wafra Matanat Zaheen	M.Phil	Environmental and ecological impact assessment	Completed	2013

			of Chinna Creek (Karachi, Sindh)		
4.	Syed Mahmood Hassan	Ph.D	Impact of commercially available pesticides on laboratory animals and development of histopathological models	Ongoing	
5.	Mohammad Azhar Khan	Ph.D	Impact of industrial discharge on Karachi coastal environment	Ongoing	
6.	Ms. Sadia Sirajuddin	Ph.D	Studies on biodegradation of pesticides from wastewater through its indigenous microbial flora	Ongoing	
7.	Ms. Suriya Jabeen	Ph.D	Biodegradation of aromatic environmental pollutants	Ongoing	
8.	Ms. Noor Fatima	Ph.D	Climate change induced conflicts in the coastal areas of Sindh	Ongoing	
9.	Mr. Khalid Mehmood	Ph.D	The Pesticides application and their effects on environment and human health	Ongoing	
10	Mutti –ur-Rehman	Ph.D	Studies on resistant organic pollutants in the coastal areas of Karachi	Ongoing	

### M.Sc. THESIS/PROJECT SUPERVISED

S.No.	Year	Name of Student	Title
1.	2010 (Thesis)	Ms. Sundus Rehman	Modelling of assessment parameters in aerobic and anaerobic treatment systems
2.	2008-2009 (Project)	Mr. Jahanzeb Nawab & Mr. Rahat Masood	Health safety and environment issues during oil and gas exploration
3.	2008-2009 Project	Ms. Uzma Shams	Prevalence of <i>Pseudomonas aeruginosa</i> and susceptibility

			pattern among clinical isolates from different hospitals in Karachi
4.	2008-2009 (Thesis)	Ms. Noor Fatima	Studies on endosulfan degradation potential of <i>Pseudomonas</i> IES-Ps-I
5.	2007-2008 (Thesis)	Ms. Zunera Asalm Butt	Environmental impact assessment of Malir River
6.	2007-2008 (Thesis)	Dr. Tahmina Yasmeen	Awareness about health care waste management in health care establishments staff of Karachi region
7.	2008-2009 (Thesis)	Ms. Kiran Shahzad	Metal contamination in marine environment along Rehri Creek area Karachi
8.	2006-2007 (Thesis)	Mr. Atif Shahzad	Environmental and ecological impact assessment of Port Qasim Industrial Area
9.	2006-2007 (Thesis)	Farzana Naseem	Performance evaluation of waste stabilization ponds at Karachi University Campus
10.	2005-2006 (Thesis)	Hina Tabassum	Performance efficiency of biosimulator at varied dissolved oxygen concentration
11.	2006-2007 Project	Ms. Hena Khalid	Studies on enzymatic degradation of phenol
12.	2005-2006 (Thesis)	S. Raheel Zafar	Environmental and ecological impact assessment of Lyari river outfall
13.	2005-2006 (Thesis)	Ms. Sarah Arif	Antibiotic susceptibility of marine bacteria
14.	2005-2006 (Thesis)	Ms. Hina Tabussum	Efficiency of Bio-simulator at different dissolved oxygen levels
15.	2005-2006 (Thesis)	Ms. Sarh Umair	Post studies on Tasman sprit oil spill at Clifton beach
16.	2003-2004 (Thesis)	Mr Jalal Muhammad Khan	Arsenic contamination in drinking water of Karachi region
17.	1997-1998 (Thesis)	Mr. Salamt Ali Tabussum	Analysis of fluoride content in drinking water of Northern areas

## WORLD HEALTH ORGANIZATION (WHO) ASSIGNMENTS

1. Facilitator WHO/ CEHA Workshop on *Water Disinfection Action Plan During Emergencies* August 2002 at the Institute of Environmental Studies, University of Karachi.

2. Facilitator WHO/ CEHA Workshop on *Advocacy for Hospital Waste Management* September 2001 at the Institute of Environmental Studies, University of Karachi.
3. Facilitator, WHO/ CEHA Training Course on *National Water Quality Guidelines* in November 2000 at the Institute of Environmental Studies, University of Karachi.
4. Facilitator, WHO/ CEHA *Training Course of Laboratory Staff in Air and Water Quality Monitoring* in March, 1999 at the Institute of Environmental Studies, University of Karachi.
5. Facilitator, WHO/ CEHA Training Course on *Promotion of Pollution Control and Low Cost Technologies at Source* in May 1999 at the Institute of Environmental Studies, University of Karachi.
6. Facilitator, WHO/CEHA Training Course on *Drinking Water Quality Monitoring Surveillance* in July, 1997 at the Institute of Environmental Studies, University of Karachi.
7. Facilitator, National Course and Workshop on *Sanitary and Public Health Microbiology* in December, 1994 at the Institute of Environmental Studies, University of Karachi.
8. WHO Research Project entitled *Modified layout of oxidation ponds which also incorporates effluent recirculation* (1990-1992).

## PUBLICATIONS

### 1. Research papers (Environment related)

1. Aamir Alamgir, Noor Fatima, Khan, Moazzam Ali and Syed Shahid Shaukat (2015) Microbiological assessment of street vended fresh fruit juices available in the Karachi city. *Int. Jour. Biol. Biotech.*, 12 (3): 505-509, 2015.
2. Faisal Hussain, S. Shahid Shaukat, Zamarrud Fatima Tajuddin, **Khan, Moazzam Ali.** and Abid Raza (2015). Diversity of phylloplane mycobiota of some roadside and garden plants of karachi: alpha, beta and gamma diversity. *Int. Jour. Biol. Biotech.*, 12 (3): 413-422.
3. Aamir Alamgir., **Khan, Moazzam Ali.**, Syed Shahid Shaukat, Omm-e-Hany, Furqan ullah, Mohammad Raheel Khan Abbasi, Sarang Memon and Arshad Hussain (2015). Physico-Chemical and Bacteriological Characteristics of Drinking Water of Malir Town, Karachi, Pakistan. *American-Eurasian J. Agric. & Environ. Sci.*, 15 (5): 896-902. DOI: 10.5829/idosi.ajeaes.2015.15.5.12658.
4. Aamir Alamgir., **Khan, Moazzam Ali.**, Syed Shahid Shaukat., Fateh M B and Khalid M. Impact of Climate Change on the Socioeconomic Conditions: A Case study of district Thatta , Sindh, Pakistan.(2015). *Bull. Env.Pharmacol. Life Sci.*, Vol 4 [6] May : 93-101

5. Aamir Alamgir., **Khan, Moazzam Ali.**, Sadia Hashmi, Omm-e-Hany, Khalid M and Syed Shahid Shaukat. (2015). Prevalence of fecal contamination within a public drinking water supply in District Korangi, Karachi, Pakistan. Bull. Env.Pharmacol. Life Sci., Vol 4 [6] May: 87-92
6. Aamir A, **Khan, Moazzam Ali.**, Palwisha A, Maha L, Khalid M Syed S S, and Khadija K. (2015). Occurrence of Fecal Contamination in Drinking Water available in municipal hospitals in Karachi, Pakistan. Bull. Env. Pharmacol. Life Sci., Vol 4 [5] April 2015: 116-123.
7. Khalid Mehmood., Aamir Alamgir ., **Khan, Moazzam Ali.**, Syed Shahid Shaukat, M.Anwar and Sikander Khan Sherwani(2014).Seasonal variation in water quality of lower Sindh, Pakistan. Federal Urdu University of Arts Science and Technology Journal of Biology., 4(2):147-156.
8. Syed Shahid Shaukat, Hina Zafar, Afsheen Khan, Waqar Ahmed and **Khan, Moazzam Ali** (2014). Diversity of phylloplane mycobiota of two mangroves species *Ceriops tagal* and *Aegiceras corniculatum* under natural and green house conditions. Inter. Jour. Biol. Biotech. 11 (2-3):299-307.
9. **Khan, Moazzam Ali.**, Syed Shahid Shaukat., Aamir Alamgir and Syed Adnan Hasan (2014). Evaluation of waste stabilization ponds effluent efficiency on the growth and nutritive characteristics of cluster beans (*Cyamopsis tetragonoloba* L.) Taub. Pak. Jour. Bot. 46 (30: 1011-1018.
10. Khalid Mehmood., Saleem Ejaz., **Khan, Moazzam Ali.**, Aamir Alamgir and Syed Shahid Shaukat, Zahid Mehmood and Ashif Sajjad (2014). Effects of bio-pesticides against Jassid (*Amrasca devastans* (DIST) and white fly *Bemisia Tabaci* (GENN) on Okra. Inter. Jour. Biol. Biotech. 11 (1) :161-165.
11. Khalid Mehmood., Saleem Ejaz., **Khan, Moazzam Ali.**, Aamir Alamgir and Syed Shahid Shaukat (2014). Residual persistence and efficacy of different pesticides against spotted boll worm on Okra crop. Research Journal of Chemical and Environmental Sciences. 2. 54-59.
12. Syed Shahid Shaukat., **Khan, Moazzam Ali.**, Michael Mett and Muhammad Faheem Siddiqui (2014). Structure, composition and diversity of the vegetation of hub dam catchment area, Pakistan. Pak. Jour. Bot., 46(1): 65-80, 2014.
13. **Khan, Moazzam Ali** ., Marta Lang, S. Shahid Shaukat, Aamir Alamgir and Tariq Baloch (2014). Water Quality Assessment of Hingol River, Balochistan, Pakistan. Middle-East Journal of Scientific Research 19 (2): 306-313.
14. S. Shahid Shaukat, **Khan, Moazzam Ali**, S. Zaidi, M.F. Siddiqui, N. Khan and H.Zafar (2013). Reproductive effort of some annual and perennial plant species: Impact of successional sequence, habitat conditions and plant size. Pak. Jour. Indus. Res. Ser. Biol. 56:117-128.

15. Schilling, J., Vivekananda, J., **Khan, Moazzam Ali** and Pandey, N (2013). Vulnerability to environmental risks and effects on community resilience in mid west Nepal and south east Pakistan. *Environment and Natural Resources Research* 3; 27-45.
16. **Khan, Moazzam Ali** , Shaukat, S.S., Alamgir, A., Ahmed, W and Hasan S A (2013). Noise induced stress in the population of Karachi, Sindh, Pakistan. In: Proceedings of Higher Education Commission, Pakistan Workshop on Contemporary Versus Sustainable Health Care Systems in Pakistan. Institute of Environmental Studies University of Karachi-Karachi-75270:18-31.
17. S. Shahid Shaukat, **Khan, Moazzam Ali** , Zaidi, S ., Siddiqui M.F and Zafar, H. (2013) Reproductive effort of plants under stress conditions. In: Proceedings of Higher Education Commission, Pakistan Workshop on Contemporary Versus Sustainable Health Care Systems in Pakistan. Institute of Environmental Studies University of Karachi-Karachi-75270:18-31.
18. Suriya, J., Khan, M.A., hany, O.E., **Khan, Moazzam Ali** and Shaukat, S.S (2013). Phenol degradation by n indigenous soil *Pseudomonas aeruginosa* and *Bacillus subtilis*. . *Int. Jour. Boil. and Biotechnol.* 10 (1):37-43.
19. Shaukat, S.S., Zafar, H., Ahmed ,W., **Khan, Moazzam Ali** and Zaidi, S (2013). Diversity of phylloplane mycobiota of *Avicennia marina* (Forssk.) Vierh. and *Rhizophora mucronata* Poir. At Indus delta, Sindh Coast Pakistan. *Int. Jour. Boil. and Biotechnol.* 10 (1):45-51.
20. Ahmed Niaz., Khan M.S., Ayaz, T and **Khan, Moazzam Ali** (2012). Removal of pollutants from the liming effluent in course of leather processing. *Pak. Jour. Sci. Inds. Res. Series A:Physical Sciences.* 55: 155-162.
21. Wafra, M.Z., Kazi, N and **Khan, Moazzam Ali (2012). Free living nematodes from Chinna Creek , Karachi, Sindh, Pakistan.** *Int. Jour. Boil. and Biotechnol.* 9 (4):449-454.
22. **Khan, Moazzam Ali** ., Shaukat, S.S , Alamgir, A and Wafra, M.Z (2012). Impact of industrial effluent on the benthic biodiversity of Gizri Creek, Karachi. *Int. Jour. Boil. and Biotechnol.* 9 (3):317-326.
23. **Khan, Moazzam Ali** ., Wafra, M.Z and Shaukat, S.S (2012). Biodiversity in benthic communities of Chinna Creek. *FUUAST, Jour. Biol.* 2(2):19-24.
24. **Khan, Moazzam Ali** ., Shaukat, S.S and Alamgir, A (2012) .Climate change and regional cooperation in South Asia: A perspective of Pakistan. In: Proceedings of Higher Education Commission, Pakistan Workshop on *Security Implications of Climate Change in South Asian Countries*. Institute of Environmental Studies University of Karachi-Karachi-75270:18-31



25. **Khan, Moazzam, Ali** ., Shaukat, S.S., Shahzad, A and Arif, M (2012). Growth and yield responses of pearl millet (*Pennisetum glaucum*) (L) R.B.R irrigated with treated effluent from waste stabilization ponds. Pak.Jour. Bot. 44(3): 905-910.
26. Fatima, A, Hany,O, E., **Khan, Moazzam, Ali.**, Shahzad, and Siddiqui, S.U (2012). Low cost water disinfection system using solar energy. Jour. Basic and Appl. Sci. 8:46-52.
27. Shaukat, S.S., Zaidi, S and **Khan, Moazzam, Ali** (2011). Effect of supplemental UV-B radiation on germination, seedling growth and biochemical responses of sun flower (*Helianthus annuss L*)FUUAST Jour.of Biol. 1(10:27-33.
28. **Khan, Moazzam, Ali.**, Alamgir, A., Shaukat, S.S., Shahzad, A and Ahmed, W. (2011). Public health quality of Attaabad lake water of Gilgit-Baltistan , Pakistan. Int. Jour. Boil. and Biotechnol. 8 (3):449-453.
29. **Khan, Moazzam, Ali.**, Shaukat, S.S., Shahzad, A and Ahmed, W (2011). Application of waste stabilization ponds effluent on cultivation of roses (*Rosa damascena*. Mill). Pak.Jour. Bot. 43 (4): 1919-1923.
30. Hany, O.E., Siidiqui, R., Rehman, A and Khan, M.A., **Khan, Moazzam Ali.**, Shahzad, A and Ahmed, W (2011). Characterization of cellular fatty acids of *Listeria* species and their effect on circulating blood monocytes. Jour. Chem. Soc. Pak. 33:
31. Shahzad, A., **Khan, Moazzam Ali.**, Shaukat, S.S., Hany, O. E., Alamgir, A. and Siddiqui, S.U (2010). Assessment of heavy metal contents at Rehri Creek area, Karachi Sindh. Int. Jour. Boil. and Biotechnol. 7 (4):489-496.
32. Sirajuddin, S., Hany, O. E., **Khan, Moazzam Ali** and Jabeen, S (2010). Biodegradation of phenol using cells and cells free extra cellular crude enzyme protein produces by novel strain of *Pseudomonas aeruginosa*. Int. Jour. Boil. and biotechnol. 7 (4):403-408.
33. Shaukat, S.S., **Khan, Moazzam Ali.**, Hany, O. E., Aziz S., Umair, S., Khan A.A., Ahsanuddin, M. (2010). Effects of chromium, cadmium, Lead and Zinc on germination of seedling growth and phenol contents of *Vigna Unguiculata* (L.) WALP. Int. Jour. Biol. Biotechnol. 7 (3). 339-345.
34. **Khan, Moazzam Ali.**, Shaukat, S.S., Hany, O.M., and Jabeen, S. (2010). Irrigation of sorghum crop with waste stabilization pond effluent: Growth and yield responses Pak.Jour. Bot. 42 (3): 1665-1674.
35. Jahenzeb Abdul Wahab., Anwar, T., Hany, O. E., Tahir, S., Ahmad, I., Khan, M.A and **Khan, Moazzam Ali** (2010). Determination of pesticides, nitrate and arsenic in ground water of Sindh. Int. Jour. Biol. Biotech 7 (1-2) 141-145.
36. Khan, A.Z., Anwar, T., Hany, O. E., Jahenzeb Abdul Wahab ., Jahenzeb Abdul Wahab and **Khan, Moazzam Ali** (2010) . Treatment of dye (used as insect proofing) containing textile

effluents including persistent organochlorine by chemical coagulants. Paper accepted for publication in. Pak. Jour. of Entomology. ISSN No. 1018-1180.

37. S.S. Shaukat, Waqar A, **Khan Moazzam Ali and** Shahzad Atif (2009). Intraspecific competition in a population of *Solanum forskalii* dunal in a semiarid habitat: Impact of reproduction output, growth and phenolic contents. Pak. Jour. Bot. 41 (6):2751-2763.
38. Shahzad Atif, **Khan Moazzam Ali**, S.S. Shaukat, and Waqar A (2009). Chemical pollution profile of Rehri Creek area Karachi, Sindh. Jour. Chem. Soc. Pak. 31 (4) 592-600.
39. **Khan Moazzam Ali**, Shaukat, S.S and Khan, M. Altaf (2009). Chemical and biochemical characteristics of waste stabilization ponds effluent for unrestricted irrigation. Jour. Chem. Soc. Pak. 31 (3) 475-479.
40. **Khan Moazzam Ali**, Shaukat, S.S and Khan, M. Altaf (2009). Growth, yield and nutrient content of sunflower (*Helianthus annuus L.*) using treated wastewater from waste stabilization ponds. Pak. Jour. Bot. 41 (3):1391-1399.
41. **Shaukat, S.S. Khan Moazzam Ali., Ahmed W. and Shahina, F. (2009)**. Effect of *Meloidogyne javanica* and moisture stress on growth and physiological response of brinjal. Pak. Jour. Nematol. 27 (2): 281-296.
42. Shaukat, S.S. **Khan Moazzam Ali (2009)**. Growth and physiological responses of Okra (*Abelmoschus esculentus L.*) to stimulated acid rain and root-knot nematode (*Meloidogyne incognita*). Nematol. Medit. 37:17-23
43. Shaukat, S.S. and **Khan Moazzam Ali** (2008). Growth and physiological responses of tomato (*Lycopersicon esculentum* Mill) to simulated acid rain. Pak. Jour. Bot. 40 (6):2427-2435.
44. **Khan, Moazzam. Ali., Peck, A.J. and** Shaukat S. S. (2008). Public health status of the ground water resources in Khirthar National Park, Sindh Pakistan. Inter. Jour. Biol. Biotech., 5 (1-2): 125-131.
45. **Khan, Moazzam. Ali and** Shaukat S. S. (2008). Physicochemical characteristics of water and sediments of Chinna Creek and the associated benthic biota on its fringes. Inter. Jour. Biol. Biotech., 5 (1-2): 133-141.
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47. **Khan, Moazzam. Ali (2008)**. Global water conflicts and future strategies. In: Proceedings of International Workshop on Global Environmental Conflicts; Change and Adaptation.

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48. Mahar Aman., Malik, R. N., Qadr, A. Ahmed , T., Khan, Z. and Khan , **Moazzam Ali Khan** (2007). *Review and analysis of current solid waste management situation in urban areas of Pakistan. Proceedings of the International Conference on Sustainable Solid Waste Management.* 5-7 September, Chennai , India :34-41
49. **Khan, Moazzam. Ali.,** Hanny, O. E., Azeem, M. Hasan, S. A., Jabben S. and Khan M.A. (2007). Pollution profile of Malir river. Pak. Jour. of Sci. and Ind. Res. 50 (2)96-100.
50. **Khan, Moazzam. Ali and Khan M.A.** (2007). The potential of waste stabilization ponds effluent as a liquid fertilizer . Pak. Jour. Bot. 39 (3): 817-829.
51. **Khan, Moazzam. Ali.,** Hany, O and Shaukat, S. S. (2006). Biodiversity in benthic communities of Gharo Creek. . Int. Jour. Biol. Biotech. 3(4): 757-761.
52. **Khan, Moazzam. Ali .,** Hashmi, I., Hany, O and Khan, N.A (2006). Determination of protein in municipal sludge of Karachi University Campus. Int. Jour. Biol. Biotech. 3(3): 639-641.
53. Anwar, T., Hany, O., Channa, M.S., Jabeen M., Tahir, S., Azeem, S. **Khan, Moazzam. Ali and A, Imtiaz** (2006). Toxicity of organophosphate insecticides against melon fruit fly, *Bactrocera cucurbitae coquillett.* Jour. Exp. Zool. India 9(2): 311-315.
54. Hasan, .S. M and **Khan, Moazzam. Ali (2006).** Controversies in using animal models for scientific studies: a different perspective. Int. Jour. Biol. Biotech. 3(2): 243-247.
55. **Khan, Moazzam. Ali.,** Zafar, S.R., Arif, S. and Hashmi, I. (2005). Quality of drinking water in Hub river catchment area, Sindh Pakistan. Int. Jour. Biol. Biotech. 3(1): 161-167.
56. **Khan, Moazzam. Ali.,** Zafar, S.R., Arif, S. Khan, N.A. and Kazmi. S.J.H. (2005). Public health profile of drinking water in Hub river catchment area, Sindh Pakistan. Int. Jour. Biol. Biotech. 2 (4): 905-908.
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58. **Khan, Moazzam. Ali.,** Hashmi, I., Hanny, O. E., Hasan, S. A., Azeem, M. and Jabben S. (2005). Fluoride content in drinking water of Northern areas of Pakistan. Jour. Basic. Apl. Sci. (1):33-37.

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65. Omme Hany, Siddiqi, R., **Khan, Moazzam Ali** and Khan M.A. (2004). Studies on course of *Listeria* infection in mice. *Int. Jour. of Biol. and Biotech.* **1** (2): 199-202.
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- ii. *Security Implications of Climate Change in South Asian Countries* (2012). Proceedings of Higher Education Commission, Pakistan Workshop. Moazzam Ali Khan and S. Shahid Shaukat (Eds.) Institute of Environmental Studies University of Karachi-Karachi-75270:18-31. ISBN No.978-969-8538-02-0.
- iii. *Global water conflicts and future strategies (2008)*: Proceedings of International Workshop on Global Environmental Conflicts; Change and Adaptation. Naveed Ahmed Tahir and Moazzam Ali Khan (Eds.). Institute of Environmental Studies, Area Study Centre, University of Karachi , Venice International University and Higher Education commission, Pakistan.

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