

Mahtab Ahmad

Soil Sciences Department, College of Food & Agriculture Sciences, King Saud University,
P.O. Box 2460, Riyadh 11451, Kingdom of Saudi Arabia

Contact: +923222745194

e-mail : mah_tabee@yahoo.com



Research Interests

- Environmental chemistry
- Production and application of biochar from agricultural and solid waste materials
- Carbon sequestration and climate change mitigation
- Environment friendly utilization of waste resources
- Remediation of contaminated soils and waters
- Revitalization of abandoned soils
- Wastewater treatment
- Monitoring of air pollution

Education

Doctor of Philosophy (Ph.D) Agricultural Chemistry, 2013

CGPA: 4.50 out of 4.50

Department of Biological Environment, College of Agriculture and Life Science,
Kangwon National University, Republic of Korea

Thesis Topic: Application of Waste Resources and Biochar for the Remediation of Contaminated Soil and Water

Master of Philosophy (M.Phil) Environmental Sciences, 2008

CGPA: 3.57 out of 4.00

College of Earth and Environmental Sciences,
University of the Punjab, Lahore – Pakistan

Thesis Topic: An Integrated Treatment of Slaughterhouse Wastewater

Master of Science (M.Sc.) Applied Environmental Sciences, 2001

Marks Percentage: 82.75

Post Graduate Center for Earth Sciences,
University of the Punjab, Lahore – Pakistan

Thesis Topic: Dispersion Gradient of Free Fall Dust and Heavy Elements Concentration in Dust Along a Main Road

Master of Science (M.Sc.) Chemistry (Analytical), 1999

Marks Percentage: 68.25

Department of Chemistry,
Bahauddin Zakarya University, Multan – Pakistan

Thesis Topic: A Study on Estimation of Zinc in Air, Soil, Petroleum, Pigeons and Human Blood With Reference to Traffic Density

Post Graduate Diploma (PGD) Applied Environmental Sciences, 2000

Marks Percentage: 80.00

Post Graduate Center for Earth Sciences,
University of the Punjab, Lahore – Pakistan

Bachelor of Science (B.Sc.) 1997

Marks Percentage: 62.87

Government College of Multan,

Bahauddin Zakarya University, Multan – Pakistan

F.Sc. Pre-Medical 1995

Marks Percentage: 67.54

Government College of Science, Multan – Pakistan

Matriculation, Science 1992

Marks Percentage: 78.71

Government Islamia High School Aam Khas Bagh, Multan – Pakistan

PublicationsCumulative Impact Factor: **60.031****ISI Indexed:**

1. Rajapaksha, A.U., Vithanage, M., Zhang, M., **Ahmad, M.**, Mohan, D., Chang, S.X. and Ok, Y.S. (2014) Pyrolysis conditions affected sulfamethazine sorption by tea waste biochars. *Bioresource Technology* 166:303-308 (2012 Impact Factor: **4.750**)
 2. Zhang, M., **Ahmad, M.**, Lee, S.S., Xu, L.H., Ok, Y.S. (2014) Sorption of polycyclic aromatic hydrocarbons to lignin: effect of chemical hydrophobicity and temperature. *Bulletin of Environmental Contamination and Toxicology* 93:84-88 (2012 Impact Factor: **1.105**)
 3. **Ahmad, M.**, Vithanage, M., Kim, K., Cho, J.S., Lee, Y.H., Joo, Y.K., Lee, S.S. and Ok, Y.S. (2014) Inhibitory effect of veterinary antibiotics on denitrification in groundwater: A microcosm approach. *The Scientific World Journal* 2014:7 pages, article ID879831 (2012 Impact Factor: **1.730**)
 4. **Ahmad, M.**, Rajapaksha, A.U., Lim, J.E., Zhang, M., Bolan, N., Mohan, D., Vithanage, M., Lee, S.S. and Ok, Y.S. (2014) Biochar as a sorbent for contaminant management in soil and water: a review. *Chemosphere* 99:19-33 (2012 Impact Factor: **3.137**)
 5. **Ahmad, M.**, Lee, S.S., Lim, J.E., Lee, S.E., Cho, J.S., Moon, D.H., Hashimoto, Y. and Ok, Y.S. (2014) Speciation and phytoavailability of lead and antimony in a small arms range soil amended with mussel shell, cow bone and biochar: EXAFS spectroscopy and chemical extractions. *Chemosphere* 95:433-441. (2012 Impact Factor: **3.137**)
 6. **Ahmad, M.**, Moon, D.H., Lee, S.S., Vithanage, M., Koutsospyros, A. and Ok, Y.S. (2014) Production and use of biochar from buffalo-weed (*Ambrosia trifida*) for trichloroethylene removal from water. *Journal of Chemical Technology and Biotechnology* 89:150-157. (2012 Impact Factor: **2.504**)
 7. **Ahmad, M.**, Lee, S.S., Rajapaksha, A.U., Vithanage, M., Zhang, M. and Ok, Y.S. (2013) Trichloroethylene adsorption by pine needle biochars produced at various pyrolytic temperatures. *Bioresource Technology* 143:615-622. (2012 Impact Factor: **4.750**)
 8. Moon, D.H., Park, J.W., Chang, Y.Y., Ok, Y.S., Lee, S.S., **Ahmad, M.**, Koutsospyros, A., Park, J.H. and Baek, K. (2013) Immobilization of lead in contaminated firing range soil using biochar. *Environmental Science and Pollution Research* 20:8464-8471. (2012 Impact Factor: **2.618**)
 9. **Ahmad, M.**, Lee, S.S., Oh, S.E., Mohan, D., Moon, D.H., Lee, Y.H. and Ok, Y.S. (2013) Modeling adsorption kinetics of trichloroethylene onto biochars derived from soybean stover and peanut shell wastes. *Environmental Science and Pollution Research* 20:8364-8373. (2012 Impact Factor: **2.618**)
 10. Almaroi, Y.A., Usman, A.R.A., **Ahmad, M.**, Lee, S.S., Moon, D.H., Ok, Y.S. (2014) Effects of biochar, cow bone and eggshell on Pb availability to maize in contaminated soil irrigated with saline water. *Environmental Earth Sciences* 71:1289-1296. (2012 Impact Factor: **1.445**)
 11. Yang, J.E., Skogley, E.O., **Ahmad, M.** and Ok, Y.S. (2013) Carbonaceous resin capsule for vapor-phase monitoring of volatile hydrocarbons in soil: partitioning and kinetic model verification. *Environmental Geochemistry and Health* 35:715-725. (2012 Impact Factor: **2.076**)
 12. Usman, A.R.A., Almaroi, Y., **Ahmad, M.**, Vithanage, M. and Ok, Y.S. (2013)
-

-
- Toxicity of synthetic chelators and heavy metal availability in poultry manure amended Pb and As contaminated agricultural soil. *Journal of Hazardous Materials*, 262:1022-1030. (2012 Impact Factor: **3.925**)
13. **Ahmad, M.**, Moon, D.H., Wazne, M. and Ok, Y.S. (2013) Effects of natural and calcined oyster shells on antimony solubility in shooting range soil. *Journal of the Korean Society for Applied Biological Chemistry* 56:461-464. (2012 Impact Factor: **0.433**)
 14. Abd El-Azeem, S.A.M., **Ahmad, M.**, Usman, A.R.A., Kim, K.R., Oh, S.E., Lee, S.S. and Ok, Y.S. (2013) Changes of biochemical properties and heavy metal availability in soil treated with natural liming materials. *Environmental Earth Sciences* 70:3411-3420. (2012 Impact Factor: **1.445**)
 15. Saifullah, Sarwar, N., Bibi, S., **Ahmad, M.**, Ok, Y.S. (2014) Effectiveness of zinc application to minimize cadmium toxicity and accumulation in wheat (*Triticum aestivum* L.). *Environmental Earth Sciences* 71:1663-1672. (2012 Impact Factor: **1.445**)
 16. Lim, J.E., **Ahmad, M.**, Lee, S.S., Shope, C.L., Hashimoto, Y., Kim, K.R., Usman, A.R.A., Yang, J.E. and Ok, Y.S. (2013) Effects of lime-based waste materials on immobilization and phytoavailability of Cd and Pb in contaminated soil. *CLEAN - Soil, Air, Water* 41:1235-1241. (2012 Impact Factor: **2.046**)
 17. Almaroai, Y.A., Usman, A.R.A., **Ahmad, M.**, Kim, K.R., Vithanage, M. and Ok, Y.S. (2013) Role of chelating agents on release kinetics of metals and their uptake by maize from chromated copper arsenate-contaminated soil. *Environmental Technology* 34:747-755. (2012 Impact Factor: **1.606**)
 18. Lim, J.E., **Ahmad, M.**, Usman, A.R.A., Lee, S.S., Jeon, W.T., Oh, S.E., Yang, J.E. and Ok, Y.S. (2013) Effects of natural and calcined poultry waste on Cd, Pb and As mobility in contaminated soil. *Environmental Earth Sciences* 69:11-20. (2012 Impact Factor: **1.445**)
 19. Almaroai, Y.A., Usman, A.R.A., **Ahmad, M.**, Kim, K.R., Lee, S.S. and Ok, Y.S. (2012) Effects of synthetic chelators and low molecular weight organic acids on chromium, copper, and arsenic uptake and translocation in maize (*Zea mays* L.). *Soil Science* 177:655-663. (2012 Impact Factor: **1.051**)
 20. **Ahmad, M.**, Moon, D.H., Lim, K.J., Shope, C.L., Lee, S.S., Usman, A.R.A., Kim, K.R., Park, J.H., Hur, S.O., Yang, J.E. and Ok, Y.S. (2012) An assessment of the utilization of waste resources for the immobilization of Pb and Cu in the soil from a Korean military shooting range. *Environmental Earth Sciences* 67:1023-1031. (2012 Impact Factor: **1.445**)
 21. **Ahmad, M.**, Lee, S.S., Dou, X., Mohan, D., Sung, J.K., Yang, J.E. and Ok, Y.S. (2012) Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. *Bioresource Technology* 118:536-544. (2012 Impact Factor: **4.750**)
 22. **Ahmad, M.**, Lee, S.S., Yang, J.E., Ro, H.M., Lee, Y.H. and Ok, Y.S. (2012) Effects of soil dilution and amendments (mussel shell, cow bone, and biochar) on Pb availability and phytotoxicity in military shooting range soil. *Ecotoxicology and Environmental Safety*. 79:225-231. (2012 Impact Factor: **2.203**)
 23. **Ahmad, M.**, Hashimoto, Y., Moon, D.H., Lee, S.S. and Ok, Y.S. (2012) Immobilization of lead in a Korean military shooting range soil using eggshell waste: an integrated mechanistic approach. *Journal of Hazardous Materials*. 209-210:392-401. (2012 Impact Factor: **3.925**)
 24. **Ahmad, M.**, Usman, A.R.A., Lee, S.S., Kim, S.C., Joo, J.H., Yang, J.E. and Ok, Y.S. (2012) Eggshell and coral wastes as low cost sorbents for the removal of Pb²⁺, Cd²⁺ and Cu²⁺ from aqueous solutions. *Journal of Industrial and Engineering Chemistry*. 18:198-204. (2012 Impact Factor: **2.145**)
 25. Ok, Y.S., Oh, S.E., **Ahmad, M.**, Hyun, S., Kim, K.R., Moon, D.H., Lee, S.S., Lim,
-

K.J., Jeon, W.T. and Yang, J.E. (2010) Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. *Environmental Earth Sciences*. 61:1301-1308. (2012 Impact Factor: **1.445**)

26. **Ahmad, M.**, Tariq, M., Shafiq, T., Nasir, A. (2009) Coagulation/adsorption combined treatment of slaughterhouse wastewater. *Desalination and Water Treatment*. 12:270-275. (2012 Impact Factor: **0.852**)
27. **Ahmad, M.**, Tariq, M., Shafiq, T. (2007) Temporal evaluation of effluent treatment plant (ETP) and treatment of sludge produced by ETP. *Journal of the Chemical Society of Pakistan*. 29:211-216.
28. **Ahmad, M.**, Usman, M., Nasir, A., Shafiq, T. (2006) Dispersion gradient of free fall dust and heavy metal elements concentration in dust along a main road. *Journal of the Chemical Society of Pakistan*. 28:567-575.

Non ISI Indexed:

1. Tariq, M., **Ahmad, M.**, Siddique, S., Waheed, A., Shafiq, T., Khan, M.H. (2012) Optimization of coagulation process for the treatment of the characterized slaughterhouse wastewater. *Pakistan Journal of Scientific and Industrial Research*. 55:43-48.
2. Lee, S.E., **Ahmad, M.**, Usman, A.R.A., Awad, Y.M., Min, S.H., Yang, J.E., Lee, S.S. and Ok, Y.S. (2011) Effects of biochar on soil quality and heavy metal availability in a military shooting range soil in Korea. *Korean Journal of Soil Science and Fertilizer*. 44(1):67-77.
3. Awad, Y.M., Abdelhafez, A.A., **Ahmad, M.**, Lee, S.S., Kim, R.Y., Sung, J.K., Ok, Y.S. (2010) Synthesis of nanoscale zerovalent iron particle and its application to Cr(VI) removal from aqueous solutions. *Korean Journal of Environmental Agriculture*. 29:402-407.
4. Khan, A.W., Shafiq, T., **Ahmad, M.** (2008) Physical and biochemical changes in commonly grown grapes (*Vitis vinifera*) in Pakistan at different maturity levels. *Pakistan Journal of Science*. 60:94-99.

Under Review

1. Vithanage, M., Rajapaksha, A.U., **Ahmad, M.**, Uchimiya, M., Dou, X., Yang, J.E. and Ok, Y.S. (2014) Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. *Journal of Environmental Management* (accepted)
2. Zhang, M., **Ahmad, M.**, Lee, S.S., Vithanage, M., Rajapaksha, A.U. and Ok, Y.S. (2014) Continuous fixed bed adsorption of TCE by crop residue biochars pyrolyzed at different temperatures. *Journal of Industrial and Engineering Chemistry* (under review)

Book Chapters

1. **Ahmad, M.**, Lee, S.S., Moon, D.H., Yang, J.E. and Ok, Y.S. (2012) A review of environmental contamination and remediation strategies for heavy metals at shooting range soils. In: *Environmental Protection Strategies for Sustainable Development*. Springer. ISBN 978-94-007-1590-5.
 2. Vithanage, M., Rajapaksha, A.U., **Ahamd, M.**, Shinogi, Y., Kim, K.H., Kim, G. and Ok, Y.S. (2014) Biochar for waste management and environmental sustainability. In: *Sustainable Solid Waste Management*. American Society of Civil Engineer. Springer (in press)
-

Conference Proceedings

1. Lead immobilization and phytoavailability in small arms range soil by mussel shell, cow bone and biochar: X-ray absorption fine structure spectroscopy study
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
1st International Conference on Contaminated Land, Ecological Assessment and Remediation. Hangzhou, China (Nov 4 – 8, 2012)
2. Effects of oyster shell and eggshell on immobilization of Cd and Pb in agricultural soil: Long-term incubation study

-
- Jung Eun Lim, **Mahtab Ahmad**, Sang Soo Lee and Yong Sik Ok
1st International Conference on Contaminated Land, Ecological Assessment and Remediation. Hangzhou, China (Nov 4 – 8, 2012)
3. Lead immobilization and soil quality improvement in contaminated and acid soils by biochar
Deok Hyun Moon, Yoon-Yong Chang, Sang Soo Lee, **Mahtab Ahmad**, Yong Sik Ok, Mahmoud Wazne and Hoon Roh
1st International Conference on Contaminated Land, Ecological Assessment and Remediation. Hangzhou, China (Nov 4 – 8, 2012)
4. Removal of antibiotics in water using biochars derived from various biomass
Se Hee Jeong, Hae Won Kim, **Mahtab Ahmad**, Jung Eun Lim, Sang Soo Lee and Yong Sik Ok
1st International Conference on Contaminated Land, Ecological Assessment and Remediation. Hangzhou, China (Nov 4 – 8, 2012)
5. Biochar amendment decreased soil Pb availability and phytotoxicity in military shooting range in Korea
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
The 4th IBI Biochar Congress in Beijing, China (Sep 16 – 20, 2012)
6. Effects of soybean stover and peanut shell-derived biochar properties on TCE adsorption in water
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
The 4th IBI Biochar Congress in Beijing, China (Sep 16 – 20, 2012)
7. Biochar derived from poultry manure immobilized Pb and improved soil quality in contaminated agricultural soil
Jung Eun Lim, Byeong Gu Gi, **Mahtab Ahmad** and Yong Sik Ok
The 4th IBI Biochar Congress in Beijing, China (Sep 16 – 20, 2012)
8. Efficacy of soybean stover-derived biochar for antimony removal from water
Anushka Upamali Rajapaksha, Meththika Vithanage, **Mahtab Ahmad** and Yong Sik Ok
The 4th IBI Biochar Congress in Beijing, China (Sep 16 – 20, 2012)
9. Potential of biochar derived from invasive plant (burcucumber) for the removal of veterinary antibiotics from carcass disposal sites in Korea
Se Hee Jeong, Hae Won Kim, **Mahtab Ahmad**, Yong Sik Ok
The 4th IBI Biochar Congress in Beijing, China (Sep 16 – 20, 2012)
10. Phytoremediation – A reliable approach to clean-up metal contaminated soils
Yong Sik Ok, Yaser A. Almaroi, **Mahtab Ahmad**, Sang Soo Lee and Jae E. Yang
2012 International Forum on Green Technology and Phytoremediation for Contaminated Sites at Taipi, Taiwan (Jun 25, 2012)
11. Effects of pyrolysis temperature on Soybean Stover and peanut shells derived biochar properties and TCE adsorption in water
Mahtab Ahmad, Sang Soo Lee, Xiaomin Dou and Yong Sik Ok
2011 International Symposium on Biochar for Climate Change Mitigation & Soil and Environmental Management at Kangwon National University, Republic of Korea (Dec 8 – 9, 2011)
12. Modeling antimony sorption onto soybean biochar
Meththika Vithanage, Anushka Rajapaksha, Kushani Mahatantila, **Mahtab Ahmad** and Yong Sik Ok
2011 International Symposium on Biochar for Climate Change Mitigation & Soil and Environmental Management at Kangwon National University, Republic of Korea (Dec 8 – 9, 2011)
13. Efficacy of soybean-stover derived biochar for the removal of arsenic and antimony from aqueous solutions
Anushka Upamali Rajapaksha, Meththika Vithanage, Hasintha Wijesekera, **Mahtab Ahmad** and Yong Sik Ok
2011 International Symposium on Biochar for Climate Change Mitigation & Soil and Environmental Management at Kangwon National University, Republic of Korea (Dec 8 – 9, 2011)

-
14. Pb immobilization in an army firing range soil using soybean stover biochar
Deok Hyun Moon, Yong Sik Ok, **Mahtab Ahmad**, Yoon Young Chang
2011 International Symposium on Biochar for Climate Change Mitigation & Soil and Environmental Management at Kangwon National University, Republic of Korea (Dec 8 – 9, 2011)
 15. Effects of pyrolysis temperature on Soybean Stover and peanut shells derived biochar properties and TCE adsorption in water
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
2011 International Symposium & Annual Meeting of the KSABC at Jeju, Republic of Korea (Oct 20 – 22, 2011)
 16. Characterization and TCE adsorption capacities of biochars derived from a variety of feedstocks
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
KSEA's 30th Anniversary International Symposium on Environment and Food Safety for the Future Generation at Jeju, Republic of Korea (Jul 7 – 9, 2011)
 17. Immobilization of lead in a Korean military shooting range soil using eggshell waste: X-ray absorption fine structure spectroscopy investigation
Mahtab Ahmad and Yong Sik Ok
2011 Annual Meeting of the Korean Society of Soil Science and Fertilizer at Moju, Republic of Korea (May 19 – 20, 2011)
 18. Immobilization of heavy metals in shooting range soil using lime based waste materials
Mahtab Ahmad, Ahmed Azizeldin Abdelhafez and Yong Sik Ok
2010 SETAC Asia/Pacific Meeting at Guangzhou, China (Jun 4 – 7, 2010)
 19. Lead immobilization in military shooting range soil using eggshell waste
Mahtab Ahmad, Sang Soo Lee and Yong Sik Ok
7th International AFAS Joint Symposium between Korea and Japan. Current Status and Perspectives of Agriculture, Forestry, and Animal Sciences in 2010 at Chuncheon, Republic of Korea (Nov 11, 2010).
 20. Lime-based heavy metals immobilization in outdoor shooting range soils in South Korea
Mahtab Ahmad, Deok Hyun Moon, Sang Soo Lee, Dennis G. Grubb and Yong Sik Ok
2010 Annual Meeting of the Korean Society of Soil Science and Fertilizer at Hongcheon, Republic of Korea (May 6 – 7, 2010)
 21. Effects of natural and calcined oyster shell on Cd and Pb immobilization in the contaminated soil
Mahtab Ahmad, Jung Eun Lim, Jae E. Yang and Yong Sik Ok
The 9th International Conference of the East and Southeast Asia Federation of Soil Science Societies at Seoul, Republic of Korea (Oct 27, 2009)
 22. Dispersion gradient of free fall dust and heavy metal elements concentration in dust along main road
Mahtab Ahmad, Muhammad Usman, Nasir Ahmad and Tahira Shafiq
6th International and 16th National Conference of Chemistry at Bahuddin Zakariya University, Multan, Pakistan (Apr 4 – 6, 2006)
-

Reviewer of Journals

1. Journal of Soils and Sediments
 2. Ecotoxicology and Environmental Safety
 3. Environmental Technology
 4. Journal of Agricultural Chemistry and Environment
 5. Environmental Geochemistry and Health
 6. Chemistry and Ecology
 7. Journal of the Saudi Society of Agricultural Sciences
-

Analytical Skills

Full command on handling the following instruments:
XAFS spectroscopy; IC

	ICP-OES; CHNS Elemental Analyzer; UV/Visible Spectrophotometer; Flame Photometer; High Volume Air Sampler; PM ₁₀ & PM _{2.5} Air Sampler; Tintometer; Sound Level Meter; Muffle Furnace; IR Moisture Analyzer; Karl-Fischer Apparatus; COD Analyzer; Soxhlet Apparatus; Autoclaves; Analytical Balances;	HPLC Atomic Absorption Spectrophotometer Kjeldahl Apparatus Digestion & Distillation Unit (Automatic) Microbial Air Sampler Lux Meter Opacity Meter Smoke Analyzer Turbidity Meter Dissolution Apparatus BOD System Deionizer Plant Centrifuge Membrane Filtration Assembly Ovens & Driers
Research & Development Projects	<p>Green Remediation of TCE-Contaminated Groundwater by Biochar</p> <ul style="list-style-type: none"> • Convert agricultural and industrial by-products to biochar • Evaluate the effect of temperature on biochar properties • Remove TCE from groundwater by various biochars <p>Slaughterhouse Waste Management</p> <ul style="list-style-type: none"> • Treatment of slaughterhouse wastewater and stomach waste • Production of Blood Meal from blood waste in slaughterhouse wastewater • Wastewater treatment by Coagulation / flocculation and Adsorption onto activated carbon • Improved a lab scale treatment plant for slaughterhouse wastewater • Conversion of stomach waste of slaughtered animals into bio – fertilizer <p>Synthesis of Activated Carbon from Indigenous Waste Material and its Application on Wastewater Treatment</p> <ul style="list-style-type: none"> • Prepared activated carbon from locally available coal, wood and burnt leaves • Thermal and chemical methods were applied for preparation of activated carbon • Applied synthesized activated carbon on treatment of wastewater of textile and paper industry • Adsorption models were applied for optimization studies <p>Biosorption Studies on Removal of Chromium from Aqueous Solution</p> <ul style="list-style-type: none"> • <i>Saccharomyces cerevisiae</i> and <i>Aspergillus oryzae</i> were used for biosorption of chromium from aqueous solutions • Adsorption models were applied for optimization studies <p>Wastewater Sludge Treatment</p> <ul style="list-style-type: none"> • Analysis of sludge from wastewater treatment plant of an ice cream factory • Developed a process for extraction of oil & fat from sludge <p>Treatment of Wastewater by Electro-Coagulation</p> <ul style="list-style-type: none"> • Using a new technique of electro-coagulation for treatment of different industrial wastewater • Optimization of various parameters for efficient treatment process 	
Professional Experience	<p>Assistant Professor (Apr 2013 to March 2014) University Institute of Biochemistry and Biotechnology, PMAS Arid Agriculture University, Rawalpindi, Pakistan</p> <p>Team Leader (Material Exploration & Manufacturing) (Sep 2011 to Feb 2013)</p>	

Korea Biochar Research Centre, Kangwon National University, Republic of Korea

Research Fellow (Sep 2009 to Feb 2010)

Department of Biological Environment, College of Agriculture and Life Sciences,
Kangwon National University, Republic of Korea

Senior Scientific Officer (May 2005 to June 2009)

Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex,
Ministry of Science and Technology, Pakistan

Senior Lab Analyst (Dec 2003 to May 2005)

Mauri Fermentation Pakistan (Pvt) Ltd. A group of companies – Australia,
Lahore – Pakistan

Analyst / Microbiologist (Sep 2003 to Dec 2003)

AZ Pharmaceuticals, Kasur – Pakistan

Analyst (Mar 2003 to May 2003)

Askari Pharmaceuticals, Kasur – Pakistan

Assistant Quality Control Incharge (Dec 1999 to Mar 2003)

Mian Brothers Labs (Pvt) Ltd, Lahore – Pakistan

Trainings	<ol style="list-style-type: none"> Two days training on “X-Ray Absorption Fine Structure Spectroscopy (XAFS)” at 2011 XAFS School, Jeonbuk National University, Jeonju, Republic of Korea from 7 – 8 Jan 2011. One day training course on “Environmental Impact Assessment (EIA)” by Environment Protection Department (EPD), Punjab in collaboration with National College of Business Administration and Economics at Lahore – Pakistan. One day training on “PC-I Preparation” by PCSIR Labs, Lahore. Received one day training course on “Traceability Measurement” organized by Pakistan National Accreditation Council (PNAC) on 6th Aug 2007, at Lahore – Pakistan. Trainings on ISO 17025 management system at PCSIR Labs, Lahore – Pakistan. Three days training course on “Climate Change through Better Air Quality Management: organized by IUCN and Pak-EPA at Pearl Continental Hotel Lahore – Pakistan from 21 – 24th Oct 2008. 	
ISO 17025	<ul style="list-style-type: none"> Worked as a member of ISO 17025 management team with AQM and actively participated in the implementation, maintenance and up-gradation of ISO 17025 management record for the accreditation of PCSIR Labs, Lahore. Worked as a performer of ISO 17025 scope tests at Center for Environmental Protection studies, PCSIR Labs, Lahore. Participated in internal, external and surveillance audits of ISO-17025. 	
QC / QA Management	<ul style="list-style-type: none"> Managed the quality control laboratory and the microbiological testing laboratory of Mauri Fermentation (Pvt) Ltd. Pakistan. Managed the QC/QA of the laboratory of water and wastewater testing by arranging calibration of glassware and equipment, manufacture of glassware apparatus, preparation of solutions, etc. Participated and arranged Interlaboratory Comparisons (ILC) and Proficiency Testing (PT). 	
Personal Information	Full Name:	Mahtab Ahmad
	Father's Name:	Naseer Ahmad
	Marital status:	Married
	Nationality:	Pakistani
	Country of Origin:	Pakistan

Province:	Punjab
District:	Multan
Date of Birth:	21 st April, 1976
Permanent Address:	House No. 643A, Block J, Shah Rukn-e-Alam Colony, Multan – Pakistan.
e-mail:	mah_tabee@yahoo.com

References

- 1. Dr. Yong Sik Ok**
Professor / Chair, Department of Biological Environment, College of Agriculture and Life Sciences, Kangwon National University, Korea
Ph. No. +82-33-250-6443
Email: soilok@kangwon.ac.kr
 - 2. Dr. Riaz Ahmed Khattak**
Professor / Vice Chancellor, CECOS University Peshawar – Pakistan.
Ph. No. +92-91-5864291
Email: vc@cecos.edu.pk
-