



Munawar Iqbal, M. Phil, Ph.D (UAF)

bosalvee@yahoo.com (preferred)

munawariqbal@upesh.edu.pk

Phone: [+91-9216766]

Mobile: [03134343629]

Fax: [+91-9216671]

Website: [website]

Current Position

Assist. Professor **Radiation and Environmental Research Group**
National Centre of Excellence in Physical Chemistry
University of Peshawar, Peshawar, Pakistan

Skills & Activities

Skills **Environmental nanotechnology, Wastewater Treatment, Photo-catalysis, Nanomaterial Synthesis, Toxicity, Advanced Oxidation Processes**

Languages English, Punjabi, Urdu

Scientific Life time member of Chemical society of Pakistan

Memberships Life time member of International Scientific Organization

Interests Scientific collaboration at national and international level

Research Experience

Aug 2013 – Feb **Visiting Researcher**

2014 Università degli Studi di Trieste, Department of Chemical and
Pharmaceutical Sciences, Trieste, Italy
Synthesis, characterization and photo-catalytic application of multi metal
component metal oxide

Mar 2010 – Mar **Research Associate**

2013 University of Agriculture Faisalabad, Department of Chemistry and
Biochemistry
Faisalābād, Pakistan
Radiation Treatment (AOPs) of Industrial Wastewater

Education

2009 – 2014 **University of Agriculture Faisalabad**

Faisalābād, Pakistan
Ph.D, Physical Chemistry (Radiation Chemistry)

2007 – 2009 **University of Agriculture Faisalabad**

Faisalābād, Pakistan
M. Phil, Organic chemistry

2005 – 2007 **University of Agriculture Faisalabad**

Faisalābād, Pakistan
M. Sc, Organic Chemistry

2003 – 2005 **Govt. College M. B. Din (University of the Punjab)**

B. Sc, Chemistry, Botany and Zoology

2000 – 2003 **Govt. College M. B. Din (BISE Gujranwala)**

F. Sc

1997 – 1999 **GHSC Bosal (BISE Gujranwala)**

Matriculation

Thesis

M. Sc: Pharmacokinetic study of cefaclor in dogs following oral administration

M. Phil: Synthesis and application of anionic agent on cotton following cationic dye

Ph.D: Treatment of industrial wastewater by advanced oxidation processes

Books

9 and 10th class practical notebook (English medium), published by Cheshti publishers, FSD, 2012

Journal Publications (Published papers = 58, IF = 50)

Muhammad Khalid, Tanveer Hussain Bokhari, Mushtaq Ahmad, Haq Nawaz Bhatti, Munawar Iqbal, Muhammad Imran Qadir And Abdul Ghaffar: *Evaluation of Carrier added and no Carrier added 90Y-EDTMP as Bone Seeking therapeutic radiopharmaceutical*. Pakistan journal of pharmaceutical sciences 01/2014;

Munawar Iqbal, Ijaz Ahmad Bhatti, Muhammad Zia-ur-Rehman, Haq Nawaz Bhatti, Muhammad Shahid: *Application of bioassays to evaluate the efficiency of advanced oxidation processes for the detoxification of industrial effluents*. Asian Journal of Chemistry 01/2014; 1.

M Riaz, N Rasool, H Bukhari, M Zubair, M Shahid, T H Bokhari, Y Gull, Rizwan, M Iqbal, M Zia-Ul-Haq: *Antioxidant Studies using Sunflower oil as oxidative substrate and DNA Protective Assay by Antirrhinum majus*. Oxidation Communications 06/2013; 36:542-552.

Nasir Rasool, Hifza Tehseen, Muhammad Riaz, Komal Rizwan, Muhammad Zubair, Yasar Mahmood, Munawar Iqbal, Iftikhar Hussain Bokhari: *Cytotoxicity studies and antioxidant*

potential of Acacia nilotica roots. International Journal of Chemical and Biochemical Sciences. 03/2013; 3:34-41.

Qaisar Manzoor, Raziya Nadeem, Munawar Iqbal, Rashid Saeed, Tariq M Ansari: *Organic acids pretreatment effect on Rosa bourbonia phyto-biomass for removal of Pb(II) and Cu(II) from aqueous media..* Bioresource Technology 03/2013; 132:446-52.

Nasir Rasool, Hifza Tehseen, Muhammad Riaz, Komal Rizwan, Muhammad Zubair, Yasar Mahmood, Munawar Iqbal, Iftikhar Hussain Bukhari: *Cytotoxicity studies and antioxidant potential of Acacia nilotica roots*. International Journal of Chemical and Biochemical Sciences. 01/2013; 3:34-41.

Munawar Iqbal, H. Akif Shahzad, M. Musadaq, M. Asif Naeem: *Effect of Laser Irradiation on Micro-Structural and Electrical Properties of Zinc Ferrite*. Asian Journal of Chemistry 01/2013; 25.

Sumaira Sharif, Muhammad Shahid, Mazhar Abbas, Munawar Iqbal, M. Afzal, Tajnees Pirzada: *Antimicrobial activity of selected Pakistani medicinal plants used in folkloric medicine*. African journal of microbiology research 01/2013; 7(21):2530-2541.

Yasir Jamil, Rashida Perveen, Muhammad Ashraf, Qasim Ali, Munawar Iqbal, Muhammad Raza Ahmad: *He-Ne laser induced changes in germination, thermodynamic parameters, internal energy and enzyme activities of wheat during germination and early growth physiological attributes*. Laser Physics Letters 01/2013; 10:045606-045614.

Mazhar Abbas, Muhammad Shahid, Munawar Iqbal, Fozia Anjum, Sumaira Sharif, Sohail Ahmed, Tajnees Pirzada: *Antitermitic activity and phytochemical analysis of fifteen medicinal plant seeds*. Journal of Medicinal Plants 01/2013; 7(22):1608-1617.

Noreen Ashraf, Muhammad Mushtaq, Bushra Sultana, Munawar Iqbal, Inam Ullah, Shaukat Ali Shahid: *Preliminary monitoring of tropospheric air quality of Lahore City in Pakistan*. International Journal of Chemical and Biochemical Sciences. 01/2013; 3:19-28.

I. Saba, M. Javed, M. Iqbal: *Bioactivity of Eucalyptus citriodora leaves essential oil*. Agrochimica -Pisa- 01/2013; LVII(2):127-137.

Muhammad Nadeem Abbas, Shahnaz Akhtar Rana, Muhammad Mahmood-UI-Hassan, Nureen Rana, Munawar Iqbal: *PHYTOCHEMICAL CONSTITUENTS OF WEEDS: BASELINE*

STUDY IN MIXED CROP ZONE AGROECOSYSTEM. Pak. J. Weed Sci. Res. 01/2013; 19:231-238.

A. Sobia, Muhammad Zubair, Nasir Rasool, Fozia Anjum, Munawar Iqbal, Muhammad Mushtaq, Muhammad Shahid: *Antioxidant, antibacterial, antifungal activities and phytochemical analysis of dagger (Yucca aloifolia) leaves extracts*. Journal of Medicinal Plants 01/2013; 7(6):243-249.

Bukhari TH, Hina S, Ahmad M, Iqbal M, Shafiq M, Arshad MN, Asghar MN, Aslam M, Qadir MI: *Concentration of 188Re-Perrhenate for Therapeutic Radiopharmaceuticals..* Journal-Chemical Society of Pakistan 01/2013;

Ijaz Ahmad Bhatti Munawar Iqbal, Iftikhar Ahmad: *Photo-degradation of the methyl blue: Optimization through response surface methodology using rotatable center composite design*. International Journal of Basic and Applied Sciences. 01/2013; 2(2):145-152.

Muhammad Maqsood, Muhammad Asif Shehzad, Syed Azam Ali, Munawar Iqbal: *Rice cultures and nitrogen rate effects on yield and quality of rice (Oryza sativa L.)*. Turkish Journal of Agriculture and Forestry 01/2013;

Muhammad Akmal, Muhammad Mushtaq, Munawar Iqbal, Rubab Zahra: *Synthesis of spiral and reverse spiral Co-ferrite by co-precipitation method and XRD Characterization*. International Journal of Chemical and Biochemical Sciences. 01/2013; 4(1):International Journal of Chemical and Biochemical Sciences.

Ihsan Ullah, Raziya Nadeem, Munawar Iqbal, Qaisar Manzoor: *Biosorption of chromium onto native and immobilized sugarcanebagasse waste biomass*. Ecological Engineering 01/2013; 60:99-107.

Muhammad Nadeem, Shazia Yasmin, Munawar Iqbal, M. Nadeem Abbas, R. M. Amir: *PEOPLE'S PERCEPTION ABOUT POOR QUALITY OF DRINKING WATER AND ITS IMPACT ON HUMAN HEALTH IN RURAL AREAS*. J. Glob. Innov. Agric. Soc. Sci. 01/2013; 1(1):37-40.

M. AFZAL, M. SHAHID, M. IQBAL: *Influence of Aspergillus niger stress on antimicrobial and biochemical profiling of Cichoricum intybus*. Oxidation Communications 01/2013;

- Nasir Masood, Muhammad Ashfaq, Munawar Iqbal, Tanveer Hussain, Saeed Ahmad Qaisrani, Muhammad Kashif Bhutta, Mueen Alam Khan, Wajid Nasim: *Whitefly (Aleurolobus barodensis Mask.) spatio-temporal trends in semi-arid agro-ecological zones of Pakistan*. Pakistan Journal of Agricultural Science. 01/2013; 50(1):69-74.
- M. Iqbal, I. Ahmad, S.M. Hussain, R.A. Khera, T.H. Bokhari, M.A. Shehzad: *Optimization of pre-sowing magnetic field doses through RSM in pea*. International Agrophysics 01/2013; 27.
- I.A. Bhatti, M. Iqbal, F. Anwar, S.A. Shahid, M. Shahid: *Quality characteristics and microbiological safety evaluation of oils extracted from gamma irradiated almond (Prunus dulcis Mill.) seeds*. Grasas y Aceites 01/2013; 64:68-76.
- Nasir Bilal, Shaukat Ali, Munawar Iqbal: *Application of advanced oxidations processes for the treatments of textile true effluents*. Asian Journal of Chemistry 01/2013; 25.
- Afshan Naz, Yasir Jamil, Zia ul Haq, Munawar Iqbal, Muhammad Raza Ahmad, Muhammad Irfan Ashraf, Rasheed Ahmad: *Enhancement in the germination, growth and yield of okra (Abelmoschus esculentus) using pre-sowing magnetic treatment of seeds..* Indian journal of biochemistry & biophysics 06/2012; 49(3):211-4.
- N. Anwer, M. A. Waqar, M. Iqbal, M. Mushtaq, A. Sobia: *Phytochemical analysis, free radical scavenging capacity and antimicrobial properties of Impatiens bicolor plant*. International Food Research Journal 01/2012; 20(1):99-103.
- Tanveer Hussain Bokhari, Moneeb Hussain, Saira Hina, Muhammad Zubair, Nasir Rasool, Muhammad Riaz, Munawar Iqbal, Tanveer Hussain Bukhari, Abdullah Ijaz Hussain, Muhammad Shahid: *Antioxidant, antimicrobial, cytotoxic studies of methanolic extract, fractions and essential oil of curry patta (Chalcas koeingii) from Pakistan*. Journal-Chemical Society of Pakistan 01/2012;
- M. Jamshaid Iqbal, Farhan Cecil, Khalil Ahmad, Munawar Iqbal, M. Mushtaq, M.A. Naeem, T.H. Bokhari: *Kinetic Study of Cr(III) and Cr(VI) Biosorption Using Rosa damascena Phytomass: A Rose Waste Biomass*. Chemistry - An Asian Journal 01/2012; 25(4):2099-2103.

- Yasir Niaz, Munawar Iqbal, Nasir Masood, T.H. Bokhari, M.A. Shehzad, Mazhar Abbas: *Temporal and spatial distribution of lead and total suspended particles in ambient air of Faisalabad, Pakistan*. International Journal of Chemical and Biochemical Sciences. 01/2012; 2:7-13.
- Munawar Iqbal, Dil Muhammad, Zia-ul-Haq, M. Raza Ahmad Yasir Jamil: *Effect of pre-sowing magnetic field treatment to garden pea (Pisum sativum L.) Seed on germination and seedling growth*. Pakistan Journal of Botany 01/2012; 44(6):1851-1856.
- Zia ul Haq, Yasir Jamil, Sidra Irum, M. Atif Randhawa, Munawar Iqbal, Nasir Amin: *Enhancement in germination, seedling growth and yield of Radish using seed pre-sowing magnetic field treatment*. Polish Journal of Environmental Studies 01/2012; 21(2):369-374.
- M.A. Naeem, M. Iqbal, N. Amin, M. Musadiq, Y. Jamil, F. Cecil: *Measurement of Electron Density and Temperature of Laser-Induced Copper Plasma*. Asian Journal of Chemistry 01/2012; 25(4):2192-2198.
- Mohammad Atique Hayat Ijaz Ahmad Bhatti, Munawar Iqbal: *Assessment of Thorium in the Environment (A Review)*. Journal- Chemical Society of Pakistan 01/2012; 34:1012-1023.
- Muhammad Ather Nadeem Muhammad Asif Shehzad, Munawar Iqbal: *Weed control and yield attributes against postemergence herbicides application in wheat crop, Punjab, Pakistan*. Global Advanced Research Journal of Agricultural Science. 01/2012; 1(1):007-016.
- Muhammad Musadiq, Nasir Amin, Yasir Jamil, Munawar Iqbal, M. Asif Naeem, Hafiz Akif Shahzad: *Measurement of electron number density and electron temperature of laser-induced silver plasma*. International Journal of Engineering and Technology. 01/2012; 2(1):32-43.
- Khuram Shahzad, Muhammad Asif Shehzad, Munawar Iqbal, Muhammad Arif: *Response of maize (Zea mays L.) genotypes to soil and foliar application of boron*. Asian Journal of Pharmaceutical and Biological Research 01/2012; 2(1):65-72.
- Y. Jamil, Zia ul Haq, M. Iqbal, T. Perveen, N. Amin: *Enhancement in growth and yield of mushroom using magnetic field treatment*. International Agrophysics 01/2012; 26:375-380.

- Majid Muneer, Ijaz Ahmad Bhatti, Munawar Iqbal, Makshoof Ather: *Degradation Study of Reactive Violet 1 by Gamma Radiation*. Journal- Chemical Society of Pakistan 01/2012; 34:787-794.
- M. Iqbal, Y. Niaz, M. Mushtaq, R.A. Khera, F. Cecil, M.A. Waqar, M. Abbas, T.H. Bokhari: *Evaluation of Ambient Air Quality in Faisalabad, Pakistan*. Asian Journal of Chemistry 01/2012; 24(10).
- Muhammad Arif, Muhammad Asif Shehzad, Fiaz Bashir, Muhammad Tasneem, Ghulam Yasin, Munawar Iqbal: *Boron, zinc and microtone effects on growth, chlorophyll contents and yield attributes in rice (Oryza sativa L.) cultivar*. AFRICAN JOURNAL OF BIOTECHNOLOGY 01/2012; 11(48):10851-10858.
- Khalil Ahmad, Ijaz A Bhatti, Majid Muneer, Munawar Iqbal, Zafar Iqbal: *Removal of heavy metals (Zn, Cr, Pb, Cd, Cu and Fe) in aqueous media*. International Journal of Chemical and Biochemical Sciences. 01/2012; 2:48-53.
- M. Iqbal, Z.U. Haq, Y. Jamil, M.R. Ahmad: *Effect of presowing magnetic treatment on properties of pea*. International Agrophysics 01/2012; 26:25-31.
- Munawar Iqbal, M. Afzal, M. Mushtaq, Islam-ud-Din, S.M. Hussain, R. A. Khera, Mazhar Abbas: *Biokinetics Study of Cefaclor (1 g) Tablet in Stray Dogs*. Asian Journal of Chemistry 01/2012; 24(6):2570-2572.
- Muhammad Asif Shehzad, Munawar Iqbal, Muhammad Arif, Niaz Ahmed, Ahsan Areeb: *Weed control and wheat (Triticum Aestivum L.) yield under application of different post-emergence herbicides*. International Research Journal of Agricultural Science and Soil Science. 01/2012; 2(4):133-141.
- Rashida Perveen, Yasir Jamil, Muhammad Ashraf, Qasim Ali, Munawar Iqbal, Muhammad Raza Ahmad: *He-Ne laser-induced improvement in biochemical, physiological, growth and yield characteristics in sunflower (Helianthus annuus L.)*. Photochemistry and Photobiology 07/2011; 87(6):1453-63.
- Munawar Iqbal, Muhammad Shahid, Arfan Yousaf, Majid Muneer: *Pharmacokinetics of Cefaclor in Stray Dogs Determined Microbiologically*. Asian Journal of Chemistry 01/2011; 23(7):2837-2840.

M. Hussain, S. M. Hussain, M. Afzal, A. Javid, S. Abdullah, S. A. Raza, M. Iqbal: *Effect of low level of mineral phosphorus and medium level of nitrogen on planktonic productivity and increase in fish production*. Journal of Animal and Plant Sciences 01/2011; 21(4):642-646.

Munawar Iqbal, Muhammad Mushtaq, Mazhar Abbas, Muhammad Afzal, Syed Makhdoom Hussain: *Microbiological assay based biokinetics of cefaclor in male volunteers*. Journal of Medicine and Medical Sciences. 01/2011; 2(10):1180-1184.

IQBAL MUNAWAR, IJAZ AHMAD BHATTI: *PHARMACOKINETICS FOR DOSE PROPORTION; OF 250 MG CEFACTOR TABLET IN MALE VOLUNTEERS ESTIMATIO*. The Professional Medical Journal. 01/2010;

Shafaq Ashfaq, Munawar Iqbal, Muhammad Shahid: *A Pharmacokinetic study of cefaclor*. Global Journal of Pharmacology. 01/2010; 4(3):98-101.

Submitted paper

Iqbal, M., Marin-Morales, M.A., Shahid, M., 2013. *Vicia faba* bioassay in environmental toxicity monitoring: A review on its applications. Review of Environmental Contamination and Toxicology.

Q. Manzoor, R. Nadeem and M. Iqbal. 2013. Biosorption of Pb(II) onto immobilized and native *Mangifera indica* waste biomass. Journal of Industrial and Engineering Chemistry.

Nasir Masood, Munawar Iqbal, M. Nadeem, Waqas Wakil, Abdul Ghaffar, M. Nadeem Abbas, Wajid Nasim and Dilber Hussain. Evaluation of comparative efficacy of insecticides along with augmentation of *Trichogramma chilonis* against boll-worm complex of NIAB-111 cotton variety (*Gossypium hirsutum* L.). Pak JAS.

Nasir Masood, Beiquan Mou, Munawar Iqbal, Jian Long Bi, M. Nadeem Abbas, Waqas Wakil, Muhammad Nadeem and Wajid Nasim. Estimation of resistance susceptibility of twenty sugarcane varieties against whitefly in punjab (Pakistan). Journal of Insect Science.

Munawar Iqbal, Yasir Jamil, Zia ul Haq, Sumaira Kiran, Iftikhar Ahmad, Muhammad Shahid and Aslam Pervaiz. 2013. Application of response surface methodology: influence of pre-sowing magnetic field treatment and irrigation by magnetized water on germination,

growth, biochemical, and enzymatic attributes in chili (*C. lycopersicom*). *Environ. Exp. Bot.*

M. Waqas, M. Musadiq, Y. Jamil, M. A. Naeem, H. A. Shahzad, M. Iqbal. 2013. Synthesis Of MnZn Ferrit Nanoparticles At Low Temperature Using Microwave Heating, Oxidation Communication.

Abstracts presented and published in Scientific Conferences

*Indicates presenter

1. Ashfaq S, Munawar Iqbal*, M. Shahid and R. Nawaz. 2009. Biokinetics of cefaclor in healthy male volunteer determined microbiologically against gram positive and negative bacterial strains. 19th National Chemistry Conference, June 9-11, Department of Chemistry, Kohat University of Sciences and Technology Kohat, Pakistan (poster).
2. Munawar Iqbal*, M. Shahid and R. Nawaz. 2009. Pharmacokinetic of cefaclor in stray dogs determined microbiologically against different microbial strains. 19th National Chemistry Conference, June 9-11, Department of Chemistry, Kohat University of Sciences and Technology Kohat, Pakistan (Oral).
3. Munawar Iqbal* and I. A. Bhatti and M. Zahid Degradation kinetics of acid blue 93 by advanced oxidation process and optimization through response surface methodology. National symposium on kinetics and catalysis, University of Peshawar, Baragali summer campus, September 26-28, 2011 (Poster).
4. I. A. Bhatti, Munawar Iqbal* and M. Shahid. Photo-catalytic degradation of reactive red 190 using sand coated silver nanoparticle: Optimization through response surface methodology. National symposium on kinetics and catalysis, University of Peshawar, Baragali summer campus, September 26-28, 2011 (Oral).
5. Iram Batool, Munawar Iqbal*, Ijaz Ahmad Bhatti and Muhammad Shahid. Decontamination of inoculated bread fungi by UV, solar, microwave, heat and laser irradiation. International conference on Emerging issues in food safety. National Institute of

Food Science and Technology, University of Agriculture, Faisalabad, Pakistan, November 14-16, 2011 (Oral).

6. M. Ramzan*, I. A. Bhatti, Munawar Iqbal and M. Zahid. Management of textile and tannery wastewater by high energy radiation. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
7. I. A. Bhatti, Munawar Iqbal* and Muhammad Shahid. Photo-catalytic degradation of Acid Blue 93 using silver nanoparticles: optimization through response surface methodology. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
8. Munawar. Iqbal*, I. A. Bhatti and M. Zahid. Degradation kinetics of reactive red 190 by advanced oxidation process and optimization through response surface methodology. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
9. Munawar Iqbal* and Ijaz Ahmad Bhatti. Quality characteristics and microbiological safety of gamma irradiated walnut (*Juglans regia* L.) oil. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
10. Noreen Ashraf*, Muhammad Mushtaq*, Bushra Sultana, Munawar Iqbal. Evaluation of ambient air quality in Lahore, Pakistan. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
11. Shaukat Hussain Naz, Muhammad Zubair, Nasir Rasool, Muhammad Riaz*, Komal Rizwan and Munawar Iqbal. Photochemical analysis and antioxidant activities of bambusa arundinacea. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
12. Yasir Jamil, Rashida Perveen*, Munawar Iqbal, Muhammad Ashraf, Muhammad Raza Ahmad, Qasim Ali. He-Ne laser irradiance effects on wheat germination, thermodynamic, internal energy, enzyme activities during germination and early growth physiological

- attributes. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
13. Muhammad Shahid, Munawar Iqbal and Mazhar Abbas*. Mechanistic evaluation of fifteen medicinal plant seed extracts against mastitis pus cells isolates. 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
 14. Tehseen Asghar*, Yasir Jamil and Munawar Iqbal. Comparison of He-Ne laser and magnetic field pre-sowing seed treatment effect germination, growth and yield attributes in soybean (*Glycine max*). 10th International and 22nd National Chemistry Conference, Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad. November, 21-23, 2011 (Poster).
 15. Munawar Iqbal*, Ijaz Ahmad Bhatti and Muhammad Shahid. Microbiological and quality characteristics analysis of gamma irradiated almond oil. International Conference on Safe Food and Human Health. GC University, Faisalabad, January 10-11, 2012 (Oral).
 16. Munawar Iqbal*, Yasir Jamil and Zia ul Haq. Application of response surface methodology: pre-sowing seed magnetic field treatment and irrigation by magnetized water effect on germination, biochemical, physiological and enzymatic attributes in chili (*C. lycopersycom*). National Science Conference, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, January 10-12, 2012 (Oral).
 17. Munawar Iqbal*, Ijaz Ahmad Bhatti and Muhammad Shahid. Photo-degradation of methyl blue: Optimization by application of Response Surface methodology using Rotatable Center Composite Design. National Science Conference, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, January 10-12, 2012 (Poster).
 18. Munawar Iqbal*, Muhammd Shahid*, Ijaz A. Bhatti, Mazhar Abbas and Yasir Mahmood. Application of *Allium cepa* to monitor the environmental pollution and mutagens. National Science Conference on Agriculture and Food Security Issues in Global Environmental Prospective. 11th – 13th July, 2012, Poonch, Rawala Kot, University of Azad Jammu & Kashmir (Poster).
 19. Munawar Iqbal, Ijaz A. Bhatti, Muhammad Shahid*, Mazhar Abbas and Muhammad Zahid. Toxicity assessment of agricultural soil and irrigation water through *allium cepa* test.

- National Science Conference on Agriculture and Food Security Issues in Global Environmental Prospective. 11th – 13th July, 2012, Poonch, Rawala Kot, University of Azad Jammu & Kashmir (Oral).
20. Munawar Iqbal*, Ijaz Ahmad Bhatti, T. H. Bokhari and Muhammad Zahid. Degradation of Azo Dye Yellow F3R by Advanced Oxidation Process. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
 21. Munawar Iqbal, Ijaz Ahmad Bhatti, Muhammad Zahid, Muhammad Zia-ur-Rehman, Ehsan Ullah and Gultasam*. Photo-catalytic Degradation of Drimarene Blue K-2RL: Optimization Through Response Surface Methodology. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
 22. Munawar Iqbal*, Ijaz Ahmad Bhatti, Muhammad Zia-ur-Rehman, Muhammad Zahid and Majid Muneer. Degradation of 2,4,7,9-tetramethyl-5-decyne-4,7-diol Ethoxylate in the Presence of TiO₂ and H₂O₂: Optimization Through Response Surface Methodology. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
 23. Munawar Iqbal*, Ijaz Ahmad Bhatti, Muhammad Zahid, Muhammad Shahid and Mazhar Abbas. Monitoring the Efficiency of AOP for Toxicity Reduction of Textile Effluents through Genetic Model. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
 24. Munawar Iqbal*, Ijaz Ahmad Bhatti, Muhammad Zahid and Majid Muneer. Application of Response Surface Methodology (RSM) on Radiation Induced Degradation of Drimarene blue HF-RL using a Rotatable Centre Composite Design. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster-Third Position Winner).
 25. Ijaz Ahmad Bhatti, Munawar Iqbal, Majid Muneer and Muhammad Abdullah*. Variation in Essential Ingredients in Cane Sugar and Jaggery Owing to Location and Processing. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
 26. Ayesha Tubassum*, Yasir Jamil, Muhammad Raza Ahmad, Hashim Farooq, Asma Farooq and Munawar Iqbal. Synthesis by Co-precipitation and Studies of Nickel Cobalt Ferrites.

- 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Poster).
27. Munawar Iqbal, Ijaz Ahmad Bhatti, Muhammad Zahid, Majid Muneer and Ehsan Ullah Abid*. Photo-catalytic Degradation of Drimarene Red CL-6BN: Optimization through Response Surface Methodology. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Oral).
 28. Majid Muneer*, Ijaz A. Bhatti, Munawar Iqbal. Treatment of Reactive Violet 1 Dye by Ultraviolet Radiation in Presence of Hydrogen Peroxide. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012 (Oral).
 29. Ghulam Mustafa*, Misbah ul Islam and Yasir Jamil, Hashim Farooq and Munawar Iqbal. Temperature Dependent Structural and Magnetic Properties of Ce³⁺ Substituted Co-based Ferrite Nanoparticles (Poster). 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
 30. Munawar Iqbal*, Yasir Jamil, Zia ul Haq and Muhammad Riaz. Pre-sowing Diode Laser Induced Improvement in Tomato Seed Germination and Enzymatic Attributes at Early Stages of Growth (Poster). 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
 31. Hashim Farooq*, Muhammad Raza Ahmad, Yasir Jamil, Abdul Hafeez, Muhammad Anwar and Munawar Iqbal. Structural and Dielectric Properties of Co-precipitated Zinc Ferrite Nanoparticles (Poster). 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
 32. Yasir Jamil, Hashim Farooq*, Muhammad Raza Ahmad, Nasir Amin, Muhammad Akmal, Munawar Iqbal and Zia-ul-Haq. Qualitative and Quantitative Analyses of Cement and Mortar using Laser Induced Breakdown Spectroscopy 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
 33. Yasir Jamil, Munawar Iqbal*, Zia ul Haq. Continuous Diode Laser Pre-Sowing Seed Treatment Effect on Tomato Growth Characteristics, Accumulation of Biochemical and Chlorophyll Content. 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
 34. Mazhar Abbas*, Muhammad Shahid, Hafiz Muhammad Rehman, Sumaira Sharif, Muhammad Riaz, Aamna Khan and Munawar Iqbal. Screening of Selected Medicinal

Plants for Secondary Metabolites (Poster). 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.

35. Mazhar Abbas*, Muhammad Shahid, Munawar Iqbal, Muhammad Riaz, Sumaira Sharif, Yasar Mahmood and Sohail Ahmed. Cytotoxicity and Phytochemical Analysis Studies of Selected Medicinal Plants Seeds (Poster). 11th International and 23rd National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012.
36. T.H. Bokari, Munawar Iqbal*, Ijaz Ahmad Bhatti and Muhammad Shahid. Toxicity assessment through *Allium cepa* test of advanced oxidation process efficiency. 1st International Conference on Global Environmental Changes, GC Univerity, Faisalabad, Pakistan, January 15-16, 2013 (Poster presentation).