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# *Curriculum vitae*



**Munawar Iqbal, PhD (UAF)**

**(HEC Approved Supervisor)**

## **Personal information**

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**Postal address: National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan**

**Permanent address: P/O, Nakkewal bosal, Malikwal, M. B. Din (Mandi Baha ud Din)**

**Date of Birth:** 25-09-1983

**Place of Birth:** M. B. Din, Punjab, Pakistan

**NIC:** 34401-0611900-9

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## Education

2014	PhD	Physical Chem (Radiation Chem)	University of Agriculture, Faisalabad, Pakistan
2009	M. Phil	Chemistry	University of Agriculture, Faisalabad, Pakistan
2007	M. Sc	Chemistry	University of Agriculture, Faisalabad, Pakistan
2005	B. Sc	Chem, Bot, Zool	University of the Punjab, Lahore, Pakistan
2002	H.S.S.C	Pre-medical	BISE Gujranwala, Pakistan
1999	S.S.C	Science	BISE Gujranwala, Pakistan

## Positions

16/06/2016 to to date	<b>Assist Prof:</b> Department of Chemistry, Qurtuba University of Science and Information Technology, Peshawar 25100, KPK, Pakistan
16/06/2015-15/06/16	<b>Assist Prof. (Contract):</b> NCE in Physical Chemistry, UoP
06-2014/06-2016	<b>Assistant Prof. (IPFP):</b> National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan
03-2010/03-2013	<b>Research Associate:</b> University of Agriculture, Faisalabad, Pakistan

## Teaching and Research Interests

### Courses interests

Chemistry

### Research interests

Advanced oxidation technologies for water treatment, (ii) Advanced oxidation treatment of simulated solution of toxic compounds (iii) Toxicity evaluation of treated wastewater and toxic compounds using bioassays (iv) Hetero-structured nanoparticles synthesis and their photo-catalytic applications for the de-pollution of Environment (v) Laser and magnetic pre-sowing effect on seed germination, seedling growth and development (vi) Bioactivity evaluation.

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## **Awards and honors**

- 2016 **2<sup>rd</sup> poster presentation award:** Kinetics of the thermal decomposition of some chloro hydrocarbons; International Conference of Biochemistry, Biotechnology and Biomaterials February 22-24, 2016, UAF, Faisalabad, Pakistan
- 2015 **Study Aid Foundation for Excellence Award,** University Campus Peshawar on the basis of 2013 Publication
- 2015 **Research Productivity Award by PCST** on the basis of 2013 Publication
- 2013 **HEC IRSIP research award:** Università degli Studi di Trieste, Department of Chemical and Pharmaceutical Sciences, Trieste, Italy, August 2013-February 2014
- 2012 **3<sup>rd</sup> poster presentation award:** 11<sup>th</sup> International and 23<sup>rd</sup> National Chemistry Conference, University of Peshawar, Peshawar, October 15-17, 2012

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## **Scientific Publication up to 30-03-2016**

**Publications in ISI journals: 75**

**Total IF: 90.19**

**Publications in Non ISI journals: 40**

**Total publications: 115**

**Citations: 400**

**h-index: 11**

**i10-index: 13**

**Publications in ISI journals**

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1. Mehwish Mushtaq, Haq Nawaz Bhatti, Munawar Iqbal and Saima Noreen. *Eriobotrya japonica* seed biocomposite efficiency for copper adsorption: Isotherms, kinetics, thermodynamic and desorption studies. *Journal of Environmental management*, accepted (IF = 2.72).
  2. Muhammad Bilal, Munawar Iqbal, Hongbo Hu, Mutagenicity, cytotoxicity and phytotoxicity evaluation of bio-degraded textile effluent by fungal ligninolytic enzymes. *Water Science Technology*, DOI: 10.2166/wst.2016.082 (IF = 1.106)
  3. Ayesha Rashid, Haq Nawaz Bhatti, Munawar Iqbal and Saima Noreen. Fungal dead biomass composite with bentonite efficiency for nickel and Zinc adsorption: Adsorption isotherms, Kinetics, thermodynamics and desorption studies. *Ecological Eng*, <http://dx.doi.org.10.1016/j.ecoleng.2016.03.014> (IF = 2.58)
  4. Munawar Iqbal, Ijaz Ahmad Bhatti, Muhammad Shahid and Jan Nisar. Physicochemical characterization and microbial decontamination: Low dose gamma radiation is a good option to conserve walnut (*Juglans regia* L) oil. *Biocatalysis and Agricultural Biotechnology*, doi:10.1016/j.bcab.2016.03.004 (ISI journal IF= 0.0)
  5. Munawar Iqbal, Nida Iqbal, Ijaz Ahmad Bhatti and Muhammad Zahid. Response surface methodology application in optimization of cadmium adsorption by shoe waste: A good option of waste mitigation by waste. *Ecological Engineering* 88 (2016) 265–275 (IF = 2.58)
  6. Jan Nisar, Niamat Ullah, Iftikhar Ahmad Awan, Munawar Iqbal and Taj Ali Khan. Pyrolysis–Gas Chromatography of Sugar Beet Bagasse. *Waste Biomass Valorization* (2016) 7:79–85 (IF = 1.056)
  7. Muhammad Waseem Mumtaz, Hamid Mukhtar, Usman Ali Dilawer, Syed Makhdoom Hussain, Majid Hussain, Munawar Iqbal, Ahmad Adnan, Jan Nisar. Biocatalytic transesterification of *Eruca sativa* oil for the production of biodiesel. *Biocatalysis and Agricultural Biotechnology* 5 (2016) 162–167. (ISI journal IF= 0.0).
  8. Muhammad Bilal, Munawar Iqbal, Hongbo Hu, Xuehong Zhang. Mutagenicity and cytotoxicity assessment of biodegraded textile effluent by Ca-alginate encapsulated manganese peroxidase. *Biochemical Engineering Journal* 109 (2016) 153–161 (IF = 2.467)
  9. Raziya Nadeem, Qaisar Manzoor, Munawar Iqbal and Jan Nisar. Biosorption of Pb(II) onto immobilized and native *Mangifera indica* waste biomass.

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- Journal of Industrial and Engineering Chemistry 35 (2016) 185–194 (IF = 3.512).
10. Munawar Iqbal, Muhammad Zubair, Tanveer H. Bokhari and Ijaz A. Bhatti. Photo-degradation and Optimization Modeling of Reactive Red 190 Dye Using a Response Surface Methodology. *Oxidation Communications* 38, No 4, 1667–1677 (2015) (IF = 0.51)
  11. M. Arshad, Mazhar Abbas and **Munawar Iqbal**. Enhanced ethanol production from molasses using high gravity technology by mutant *S. cerevisiae*. *Brazilian Journal of Microbiology*, In press (0.592)
  12. Munawar Iqbal, Zia ul Haq, Ch. Muhammad Ayoub, Amna Malik and Yasir Jamil. Pre-sowing seed magnetic field stimulation: A good option to enhance bitter melon biochemical, physiological attributes and yield. *Biocatalysis and Agricultural Biotechnology* 5 (2016) 30–37 (ISI journal IF= 0.0).
  13. **Munawar Iqbal**, 2016. *Vicia faba* Bioassay for Environmental Toxicity Monitoring. A review. *Chemosphere* 144, 785-802/ 10.1016/j.chemosphere.2015.09.048 (IF = 3.34).
  14. S. M. Hussain, M. Afzal, S. Nasir, A. Javid, H. Azmat, S. M. Makhdoom, S. Z. Hussain Shah, M. Hussain, I. Mustafa and **M. Iqbal**. 2015. Role of phytase supplementation in improving nutrient digestibility and growth performance for *Labeo rohita* fingerlings fed on canola meal-based diet. *Journal of Applied Animal Research*, 1-8 (IF = 0.435), DOI: 10.1080/09712119.2015.1091331 (IF = 0.435)
  15. T. H. Bokhari, F. A. Rizvi, S. Roohi, S. Hina, M. Ahmad, M. Khalid and **M. Iqbal**. 2015. Preparation, biodistribution and scintigraphic evaluation of <sup>99m</sup>Tc-lincomycin. *Pak. J. Pharm. Sci.*, 28(6), 2015, pp.1965-1970 (IF = 0.682).
  16. **Munawar Iqbal**, Mazhar Abbas, Muhammad Arshad, Tariq Hussain, Aman U. Khan, Nasir Masood, M. A. Tahir, Syed M. Hussain, Tanveer H. Bokhari and Rasheed A. Khera. Gamma Radiation Treatment for Reducing Cytotoxicity and Mutagenicity in Industrial Wastewater. *Polish Journal of Environmental studies. Pol. J. Environ. Stud.* Vol. 24, No. 6 (2015): DOI: 10.15244/pjoes/59233 (IF = 0.87)
  17. Yasir Niaz, Jiti Zhou, Munawar Iqbal, Abdul Nasir and Bin Dong. 2015. Ambient Air Quality Evaluation: A Comparative Study in China and Pakistan. *Polish journal of Environmental studies.* 24(4) 1723-1732 (IF = 0.87).

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18. Ali Keshavarzi, Fereydoon Sarmadian, El-Sayed Ewis Omran and Munawar Iqbal. 2015. A neural network model for estimating phosphorus using Terrain Analysis. *The Egyptian Journal of Remote Sensing and Space Sciences* (2015) 18, 127–135 (ISI journal, IF = 0.0)
  19. **Munawar Iqbal**, Jan Nisar. Cytotoxicity and mutagenicity evaluation of gamma radiation and hydrogen peroxide treated textile effluents using bioassays. *Journal of Environmental and Chemical Engineering*, 3, (3), 2015, 1912–1917. (ISI journal, IF = 0.0)
  20. **Munawar Iqbal** and Ijaz Ahmad Bhatti. 2015. Gamma ray/H<sub>2</sub>O<sub>2</sub> treatment of a nonylphenol ethoxylate: Degradation, cytotoxicity and mutagenicity evaluation. *Journal of Hazardous Material*, 23(299): 351-360. doi: 10.1016/j.jhazmat.2015.06.045 (IF = 4.529)
  21. Rasheed Ahmad Khera, Saeed A. Madni, M. Asif Tahir and **Munawar Iqbal**. 2015. One Pot Synthesis and Characterization of Mono and Di-substituted Azo-containing Amides. *Asian Journal of Chemistry*, 27(6), 2001-2004. (IF = 0.335).
  22. Munawar Iqbal and R. A. Khera. 2015. Eco-friendly synthesis of ferrocenyl chalcones catalyzed by solid potassium hydroxide as potential leishmanicidal, antitumour and antibacterial agents. *Asian Journal of Chemistry*, accepted (IF = 0.355).
  23. Wasim Abbas, Tanveer Hussain Bokhari, Ijaz Ahmad Bhatti, **Munawar Iqbal**. 2015. Impact of UV/TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub> on Degradation of Disperse Red F3BS. *Asian Journal of Chemistry*, Vol. 27, No. 1, 282-286 (IF = 0.335).
  24. Adnan Younas, Raziya Nadeem, Asma Rehman, **Munawar Iqbal**, M. Rizwan Younas and Qaisar Manzoor. 2015. Ag(I), Cr(VI) and Pb(II) adsorption from aqueous media onto different adsorbent types. *Asian Journal of Chemistry*, 27, 9, 3308-3314. (IF = 0.335).
  25. Misbah, I. A. Bhatti, Zahra Ahmad and **Munawar Iqbal**. 2015. Synthesis and application of reactive fluorescent brightening agents on UV irradiated cotton fabric. *Asian Journal of Chemistry*, 27, 9, 3303-3307. (IF = 0.335).
  26. Arooj Islam, Islam-ud-Din and **Munawar Iqbal**. Application of Response Surface Methodology for the Extraction of Dye from Henna Leaves. *Asian Journal of Chemistry*. Vol. 27 Issue 5, p1707-1710 (IF = 0.335).
  27. M. N. Abbas, S. A. Rana, M. Mahmood-ul-Hassan, N. Rana, S. Kausar and **M. Iqbal**. Biodiversity and dynamics of macro-invertebrate populations in wheat-weeds agro-ecosystem of Punjab (Pakistan). *The Journal of Animal & Plant Sciences*, 24(4): 201 4, Page: 1146-1156. (IF = 0.549)

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28. **Munawar Iqbal** and Ijaz Ahmad Bhatti. 2014. Re-utilization option of industrial wastewater treated by advanced oxidation process. Pak. J. Agri. Sci., Vol. 51(4), 1141-1147; 2014. (IF = 1.049)
  29. Nasir Bilal, Shaukat Ali and **Munawar Iqbal**. 2014. Application of advanced oxidations processes for the treatments of textile effluents. Asian Journal of Chemistry, 26(7), 1882-1886. (IF = 0.335)
  30. Hafiz Akif Shahzad, Yasir Jamil, **Munawar Iqbal**, Muhammad Musadiq and M. Asif Naeem. 2014. Effect of Laser Irradiation on Micro-Structural Properties of Zinc Ferrite. Asian Journal of Chemistry, 26(7), 1887-1890. (IF = 0.335)
  31. Muhammad Khalid, Tanveer Hussain Bokhari, Mushtaq Ahmad, Haq Nawaz Bhatti, **Munawar Iqbal**, Muhammad Imran Qadir And Abdul Ghaffar. 2014. Evaluation of Carrier added and no Carrier added 90Y-EDTMP as Bone Seeking therapeutic radiopharmaceutical. Pakistan journal of pharmaceutical sciences, 27(4), 813-818. (IF = 0.682)
  32. **M. Iqbal**, M. Musadiq, M. A. Naeem, H. A. Shahzad, M. Waqas, M. A. Tahir. 2014. Synthesis of MnZn ferrite nanoparticles at low temperature using microwave heating. Oxidation Communications, 37(4), 1125-1131 (2014). (IF= 0.507)
  33. **Munawar Iqbal**, Ijaz Ahmad Bhatti, Muhammad Zia-ur-Rehman, Haq Nawaz Bhatti, Muhammad Shahid. 2014. Efficiency of Advanced Oxidation Processes for Detoxification of Industrial Effluents. Asian Journal of Chemistry 26(14), 4291-4296. (IF = 0.335)
  34. M. Afzal, M. Shahid, **M. Iqbal**. 2014. Influence of Aspergillus niger stress on antimicrobial and biochemical profiling of Cichoricum intybus. Oxidation Communications. 37(1), 269-278. (IF = 0.507)
  35. Fereydoon Sarmadian, Ali Keshavarzi, Azin Rooien, **Munawar Iqbal**, Ghavamuddin Zahedi and Hossein Javadikia. 2014. Digital mapping of soil phosphorus using multivariate geostatistics and topographic information. Australian Journal of Crop Sciences, 8(8), 1216-1223. (IF = 1.632)
  36. M Riaz, N Rasool, H Bukhari, M Zubair, M Shahid, T H Bokhari, Y Gull, Rizwan, **M Iqbal**, M Zia-UI-Haq: Antioxidant studies using sunflower oil as oxidative substrate and DNA Protective assay by Antirrhinum majus. 2013. Oxidation Communications, 36(2), 542–552. (IF = 0.507)
  37. Mazhar Abbas, Muhammad Shahid, **Munawar Iqbal**, Fozia Anjum, Sumaira Sharif, Sohail Ahmed, Tajnees Pirzada. 2013. Antitermitic activity and

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- phytochemical analysis of fifteen medicinal plant seeds. *Journal of Medicinal Plants Research*, 7(22), 1608-1617. (IF = 0.879)
38. Sumaira Sharif, Muhammad Shahid, Mazhar Abbas, **Munawar Iqbal**, M. Afzal, Tajnees Pirzada. 2013. Antimicrobial activity of selected Pakistani medicinal plants used in folkloric medicine. *African Journal of Microbiology Research*, 7(21), 2530-2541. (IF = 0.539).
39. I.A. Bhatti, **M. Iqbal**, F. Anwar, S.A. Shahid, M. Shahid. 2013. Quality characteristics and microbiological safety evaluation of oils extracted from gamma irradiated almond (*Prunus dulcis* Mill.) seeds. *Grasas y Aceites*, 64(1), 68-76. (IF = 1.08)
40. I. Saba, M. Javed, **M. Iqbal**. 2013. Bioactivity of *Eucalyptus citriodora* leaves essential oil. *Agrochimica -Pisa- LVII(2)*, 127-137. (IF = 0.314)
41. M. Jamshaid Iqbal, Farhan Cecil, Khalil Ahmad, **Munawar Iqbal**, M. Mushtaq, M.A. Naeem and T.H. Bokhari. 2013. Kinetic study of Cr(III) and Cr(VI) Biosorption using *Rosa damascena* phytomass: A rose waste biomass. *Asian Journal of Chemistry*; 25(4), 2099-2103. (IF = 0.335)
42. Tanveer Hussain Bokhari, Moneeb Hussain, Saira Hina, Muhammad Zubair, Nasir Rasool, Muhammad Riaz, **Munawar Iqbal**, Tanveer Hussain Bukhari, Abdullah Ijaz Hussain, Muhammad Shahid. 2013. Antioxidant, antimicrobial, cytotoxic studies of methanolic extract, fractions and essential oil of curry patta (*Chalcas koeingii*) from Pakistan. *Journal- Chemical Society of Pakistan*, 35(2), 468-471. (IF = 1.37)
43. Tanveer Hussain Bokhari, Muhammad Kashif, Ijaz Ahmad Bhatti, Muhammad Zubair, Shahid Adeel, Muhammad Yousaf, Matloob Ahmad, **Munawar Iqbal**, Muhammad Usman, Muhammad Zuber and Asim Mansha. 2013. Degradation Study of C.I. Reactive Yellow 145 by Advanced Oxidation Process. *Asian Journal of Chemistry*, 25 (15), 8668-8672. (IF = 0.335)
44. Ihsan Ullah, Raziya Nadeem, **Munawar Iqbal**, Qaisar Manzoor. 2013. Biosorption of chromium onto native and immobilized sugarcane bagasse waste biomass. *Ecological Engineering*, 60, 99-107. (IF = 3.041)
45. **Munawar Iqbal**, I. Ahmad, S.M. Hussain, R.A. Khera, T.H. Bokhari, M.A. Shehzad. 2013. Optimization of pre-sowing magnetic field doses through RSM in pea. *International Agrophysics Vol. 27(3)* 265-273. (IF = 1.574)
46. M.A. Naeem, **Munawar Iqbal**, N. Amin, M. Musadiq, Y. Jamil, F. Cecil. 2013. Measurement of Electron Density and Temperature of Laser-Induced Copper Plasma. *Asian Journal of Chemistry*, 25(4), 2192-2198. (IF = 0.335)



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47. Yasir Jamil, Rashida Perveen, Muhammad Ashraf, Qasim Ali, **Munawar Iqbal**, Muhammad Raza Ahmad. 2013. 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*, 10, 045606-045614. (IF = 7.714)
  48. Qaisar Manzoor, Raziya Nadeem, **Munawar Iqbal**, Rashid Saeed, Tariq M Ansari. 2013. Organic acids pretreatment effect on Rosa bourbonia phyto-biomass for removal of Pb(II) and Cu(II) from aqueous media. *Bioresource Technology*, 132(3), 446-52. (IF = 4.98)
  49. Nasir Masood, Muhammad Ashfaq, **Munawar Iqbal**, Tanveer Hussain, Saeed Ahmad Qaisrani, Muhammad Kashif Bhutta, Mueen Alam Khan, Wajid Nasim. 2013. Whitefly (*Aleurolobus barodensis* Mask.) spatio-temporal trends in semi-arid agro-ecological zones of Pakistan. *Pakistan Journal of Agricultural Science*, 50(1), 69-74. (IF = 1.24)
  50. Bukhari TH, Hina S, Ahmad M, **Iqbal Munawar**, Shafiq M, Arshad MN, Asghar MN, Aslam M, Qadir MI. 2013. Concentration of 188Re-Perrhenate for Therapeutic Radiopharmaceuticals. *Journal- Chemical Society of Pakistan*, 35(1), 147-150. (IF = 1.37)
  51. Muhammad Maqsood, Muhammad Asif Shehzad, Syed Azam Ali, **Munawar Iqbal**. 2013. Rice cultures and nitrogen rate effects on yield and quality of rice (*Oryza sativa* L.). *Turkish Journal of Agriculture and Forestry*, 37, 665-673. (IF = 0.929)
  52. **Munawar Iqbal**, Z.U. Haq, Y. Jamil, M.R. Ahmad. 2012. Effect of pre-sowing magnetic treatment on properties of pea. *International Agrophysics*, 26, 25-31. (IF = 1.574)
  53. **M. Iqbal**, Y. Niaz, M. Mushtaq, R.A. Khera, F. Cecil, M.A. Waqar, M. Abbas, T.H. Bokhari. 2012. Evaluation of Ambient Air Quality in Faisalabad, Pakistan. *Asian Journal of Chemistry*, 24(10), 4479-4482. (IF 0.335)
  54. Y. Jamil, Zia ul Haq, **Munawar Iqbal**, T. Perveen, N. Amin. 2012. Enhancement in growth and yield of mushroom using magnetic field treatment. *International Agrophysics*, 26, 375-380. (IF = 1.574)
  55. Afshan Naz, Yasir Jamil, Zia ul Haq, **Munawar Iqbal**, Muhammad Raza Ahmad, Muhammad Irfan Ashraf, Rasheed Ahmad. 2012. Enhancement in the germination, growth and yield of okra (*Abelmoschus esculentus*) using pre-sowing magnetic treatment of seeds. *Indian journal of biochemistry & biophysics*, 49(3), 211-214. (IF = 1.142)

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56. Zia ul Haq, Yasir Jamil, Sidra Irum, M. Atif Randhawa, **Munawar Iqbal** and Nasir Amin. 2012. Enhancement in germination, seedling growth and yield of Radish using seed pre-sowing magnetic field treatment. *Polish Journal of Environmental Studies*, 21(2), 369-374. (IF = 0.871)
57. **Munawar Iqbal**, Dil Muhammad, Zia-ul-Haq, M. Raza Ahmad Yasir Jamil. 2012. Effect of pre-sowing magnetic field treatment to garden pea (*Pisum sativum* L.) Seed on germination and seedling growth. *Pakistan Journal of Botany*, 44(6), 1851-1856. (IF = 1.207)
58. **Munawar Iqbal**, M. Afzal, M. Mushtaq, Islam-ud-Din, S.M. Hussain, R. A. Khera, Mazhar Abbas. 2012. Biokinetics Study of Cefaclor (1 g) Tablet in Stray Dogs. *Asian Journal of Chemistry*, 24(6), 2570-2572. (IF = 0.355)
59. Majid Muneer, Ijaz Ahmad Bhatti, **Munawar Iqbal** and Makshoof Ather. 2012. Degradation Study of Reactive Violet 1 by Gamma Radiation. *Journal-Chemical Society of Pakistan*, 34, 787-794. (IF = 1.37)
60. Ijaz Ahmad Bhatti, Mohammad Atique Hayat and **Munawar Iqbal**. 2012. Assessment of Thorium in the Environment (A Review). *Journal-Chemical Society of Pakistan*, 34, 1012-1023. (IF = 1.37)
61. Muhammad Arif, Muhammad Asif Shehzad, Fiaz Bashir, Muhammad Tasneem, Ghulam Yasin, **Munawar Iqbal**. 2012. Boron, zinc and microtone effects on growth, chlorophyll contents and yield attributes in rice (*Oryza sativa* L.) cultivar. *African Journal of Biotechnology*, 11(48), 10851-10858. (0.573)
62. Rashida Perveen, Yasir Jamil, Muhammad Ashraf, Qasim Ali, **Munawar Iqbal** and Muhammad Raza Ahmad. 2011. He-Ne laser-induced improvement in biochemical, physiological, growth and yield characteristics in sunflower (*Helianthus annuus* L.). *Photochemistry and Photobiology*, 87(6), 1453-1463. (IF = 2.67)
63. M. Hussain, S. M. Hussain, M. Afzal, A. Javid, S. Abdullah, S. A. Raza, **M. Iqbal**. 2011. 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*, 21(4), 642-646. (IF = 0.585)
64. Syed Makhdoom Hussain, Muhammad Afzal, Shahnaz Akhtar Rana, Arshad Javid and **Munawar Iqbal**. 2011. Effect of Phytase Supplementation on Growth Performance and Nutrient Digestibility of Labeo rohita Fingerlings Fed on Corn Gluten Meal-based Diets. *Int. J. Agric. Biol*, 13, 916–922. (IF = 0.902)

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65. **Munawar Iqbal**, Muhammad Shahid, Arfan Yousaf, Majid Muneer. 2011. Pharmacokinetics of Cefaclor in Stray Dogs Determined Microbiologically. *Asian Journal of Chemistry*, 23(7), 2837-2840. (IF = 0.355)

### **Publications in non ISI journal**

1. Munawar Iqbal and Rasheed Ahmad Khera. Adsorption of copper and lead in single and binary metal system onto *Fumaria indica* biomass. *Chemistry International* 1(3) (2015) 157b-163b
2. Raghad Mouhamad, Ameera Alsaede and Munawar Iqbal. 2016. Behavior of Potassium in Soil: A mini review. *Chemistry International* 2(1) 47-58
3. Munawar Iqbal, Majid Muneer, Muhammad Iqbal and Muhammad Imran Kanjal. Tannery wastewater treatment using gamma radiation: Kasur tanneries waste management agency, Pakistan. *Physical Chemistry* 17(1) (2015) 41-46
4. Sarmadian, F., Keshavarzi, A., Iqbal, M., Zahedi, G., Javadikia, H., Ogunkunle, A., 2015. Towards a new framework for land suitability evaluation: Application of matter element quantifier-based Multi-Criteria Decision Analysis. *Current Science Perspectives* 1(1), 41 -50.
5. Khera, R.A., Iqbal, M., 2015. Nanoscale bioactive glasses and their composites with biocompatible polymers. *Chemistry International* 1(1), 17-34.
6. Tauseef-ur-Rehman., Iqbal, M., Khan, M.N., Iqbal, Z., Sajid, M.S., Abbas, R.Z., Javed, M.T., Abbas, M.N., 2015. Associated risk factors and management practices influence on Babesia prevalence in cattle of District Toba Tek Singh, Punjab, Pakistan. *Current Science Perspectives* 1(1), 26-32.
7. Mouhamad, R., Atiyah, A., Mohammad, R., Iqbal, M., 2015. Decomposition of organic matter under different soil textures. *Current Science Perspectives* 1(1), 22-25.
8. Qureshi, K., Ahmad, M.Z., Bhatti, I.A., Iqbal, M., Khan, A., 2015. Treatment of wastewater treated by photocatalytic derived oxidation process. *Chemistry International* 1(1), 53-59.
9. Pervaiz, M., Butt, K.M., Raza, M.A., Rasheed, A., Ahmad, S., Adnan, A., Iqbal, M., 2015. Extraction and applications of aluminum hydroxide from bauxite for commercial consumption. *Chemistry International* 1(2) (2015) 99-102.

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10. Ashraf, M.W., Bilal, M., Iqbal, M., 2015. Comparative analysis of antiglycation potential of vegetables aqueous and methanolic extracts. *Current Science Perspectives* 1(1) (2015) 12-15.
  11. Jamal, M.A., Muneer, M., Iqbal, M., 2015. Photo-degradation of monoazo dye blue 13 using advanced oxidation process. *Chemistry International* 1(1), 12-16.
  12. Abid Ali, Khalil-Ur-Rahman, Nazish Jahan, Munawar Iqbal and Mazhar Abbas. Clinical epidemiological study of Hepatitis B and C. *Current Science Perspectives* 1(3) (2015) 91-95
  13. Fereydoon Sarmadian, Ali Keshavarzi, Azin Rooien, Ghavamuddin Zahedi, Hossein Javadikia, Munawar Iqbal. Support Vector Machines Based-Modeling of Land Suitability Analysis for Rainfed Agriculture. *Journal of Geosciences and Geomatics*, 2014, Vol. 2, No. 4, 165-171.
  14. Fereydoon Sarmadian, S.R. Mousavi, Munawar Iqbal, Ali Keshavarzi and Mostafa Sadeghnejad. 2014. Investigation the variation of soil mapping units using geopedological approach. *Acta Advances in Agricultural Sciences*, 2(5), 1-9.
  15. Raghad S. Mouhamad, Shaimaa A. Yousir, Ali S. Fadhel, Dhrgham I. Taha and Munawar Iqbal. In vitro culture and plant regeneration of *Sesbania grandiflora*. *International Journal of Chemical and Biochemical Sciences*. 6(2014): 45-49.
  16. Raghad S. Mouhamad, Ibrahim B. Razaq, Ali S. Fadhel, Shaimaa A. Yousir, Dhrgham I. Taha and Munawar Iqbal. Urease activity under salinity stress in calcareous soils of semi-arid regions of Iraq. *International Journal of Chemical and Biochemical Sciences*. 6(2014):68-71.
  17. Muhammad Wasim Ashraf, Muhammad Bilal and Munawar Iqbal. 2014. *Allium sativum* aqueous extract inhibitory effect on advanced glycation end product. *International Journal of Chemical and Biochemical Sciences*, 4, 38-44.
  18. Muhammad Nadeem, Shazia Yasmin, Munawar Iqbal, M. Nadeem Abbas, R. M. Amir. 2013. People's perception about poor quality of drinking water and its impact on human health in rural areas. *J. Glob. Innov. Agric. Soc. Sci*, 1(1), 37-40.
  19. Muhammad Nadeem Abbas, Shahnaz Akhtar Rana, Muhammad Mahmood-Ul-Hassan, Nureen Rana, Munawar Iqbal. 2013. Phytochemical constituents of weeds: baseline study in mixed crop zone agroecosystem. *Pak. J. Weed Sci. Res*, 19, 231-238.

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20. Muhammad Akmal, Muhammad Mushtaq, Munawar Iqbal, Rubab Zahra. 2013. Synthesis of spiral and reverse spiral Co-ferrite by co-precipitation method and XRD Characterization. *International Journal of Chemical and Biochemical Sciences*, 4, 66-71.
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### **Accepted Papers**

1. M. Z. Ahmad, M. Iqbal, K. Qureshi and I. A. Bhatti. Decolorization and cytotoxicity reduction by UV induced photo-catalytic treatment of textile effluents. Oxidation Communications, In press, December, 2015 issue (IF = 0.51)

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2. Munawar Iqbal, Naseer Ahmad, Ijaz Ahmad Bhati and Muhammad Zahid. Waste remediation by waste: Chromium sequestration using tire waste and optimization by response surface methodology. *Ecological Engineering*, accepted (IF = 2.58)
  3. Niamat Ullah; Iftikhar A Awan; **Munawar Iqbal**; Muhammad A Khan Biomass conversion to valuable products by pyrolysis gas-chromatography. waste and biomass valorization, In press, December, 2015 issue (IF = 1.01).
  4. Muhammad Arshad, Mazhar Abbas and Munawar Iqbal. Enhanced ethanol production from molasses using high gravity technology by mutant *S. cerevisiae*. *Brazilian journal of Microbiology*, accepted (IF = 0.60)
  5. Ambreen Ashar et al., Synthesis and characterization of ZnO nanoflowers and nanospheres: Photocatalytic application for the degradation of nonylphenol ethoxylate under UV and solar irradiation. *Arabian Journal of Chemistry* (IF = **3.725**)
  6. R. A. khera, M. iqbal, M. A. hanif. Synthesis Of Aryl Azo Schiff Bases And Co(li) Complexes With Inspired Biological Activities. *Oxidation Communications*, **accepted (IF = 0.35)**
  7. Yasir Niaz, Jiti Zhou, Munawar Iqbal, Abdul Nasir and Bin Dong. Measurement of particulate matter in Dalian-China and Faisalabad-Pakistan: A case study. *Sustainable Environment Research*, (IF = **0.00**)
  8. Mazhar Abbas and Munawar Iqbal, Enhanced ethanol production from molasses using high gravity technology by mutant *S. cerevisiae*, *Brazilian Journal of Microbiology*, accepted (IF = **0.592**).
  9. Zia ul Haq, Munawar Iqbal and Yasir Jamil. Enhanced germination, seedling growth and enzymatic activities of maize irrigated with magnetized water. *Pak Journal of Botany* (IF = **0.822**).
  10. Zia ul Haq, **Munawar Iqbal** and Yasir Jamil. Effect of magnetic field and irrigation with magnetized water on germination, seedling growth and enzymatic activity on chilli cultivar. *Pakistan J of Botany*, accepted (IF = 0.822)
  11. Majid Muneer, Shahid Adeel, Saba Ayub, Fazal-ur-Rehman, Muhammad Zuber, Muhammad Imran Kanjal, Munawar Iqbal. Dyeing behavior of microwave assisted surface oxidized polyester fabric using disperse orange 25: improvement in color strength and fastness properties. *oxidation communications*, accepted (IF = **0.51**)
  12. Ayesha Rashid, Haq Nawaz Bhatti, Munawar Iqbal and Saima Noreen. Fungal dead biomass composite with bentonite efficiency for nickel and

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Zinc adsorption: Adsorption isotherms, Kinetics, thermodynamics and desorption studies. Ecological Eng, accepted (**IF = 2.58**)

13. Munawar Iqbal, Zia ul Haq, Amna Malik, Ch. Muhammad Ayoub, Yasir Jamil and Jan Nisar. Pre-sowing seed magnetic field stimulation: A good option to enhance bitter melon germination, seedling growth and yield characteristics. Biocatalyst and Agricultural Biotechnology, Accepted (ISI journal, IF = 0.0)
14. Ali Keshavarzia, Ozgur Kisib, Fereydoon Sarmadiana, Munawar Iqbal, Rebecca Tirado-Corbalád, El-Sayed Ewis Omrane. Exploratory Analysis of Soil Cation Exchange Capacity Estimation: Integrative of ANFIS-Based Subtractive Clustering Algorithm. Measurements, Accepted (**IF = 1.484**)
15. Munawar Iqbal, M. Z. Ahamd, Khizar Qureshi, Mazhar Abbas, Tanveer H. Bokhari, Muhammad Arshad, Tariq Hussain, Halima Sadia, Nasir Masood, Muhammad Asif Tahir. UV radiation efficiency for detoxification and degradation of 2-chlorophenol: Optimization through response surface methodology. Journal of Radiation Research and Applied Sciences,
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### Submitted Paper

1. Munawar Iqbal, Ijaz Ahmad Bhatti and Muhammad Shahid. Toxicity evaluation of industrial wastes through *Allium cepa* root tip assay-a review. Pak J Chem Soc
2. Sara Waqar, Zia ul Haq, Yasir Jamil, Munawar Iqbal, Muhammad Raza Ahmad and Muhammad Shahid. Influence of pre-sowing magnetic seed treatment on germination, growth and biochemical attributes of tomato; In vivo and in vitro study. Indian Journal of Biophysics and Biochemistry
3. Tehseen asghar, Yasir Jamil, Zia-ul-Haq and M. Shahid. Laser and Magnetic Bio-Stimulation Effects on the Pre-Sown Soybean Seeds germination and growth. Photochemistry and Photobiology
4. Tehseen Asghar, Yasir Jamil, Zia ul Haq and Munawar Iqbal. Effect of He-Ne Laser and Magnetic Bio-Stimulation on Biochemical, Physiological and on the Specific Activities of Some Metabolically Important Enzymes. Photochemistry and Photobiology



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5. Arfaa Sajid, Anam Sajid, Munawar Iqbal and Qaisar Manzoor. Sodium dodecyl sulfate removal in synthetic wastewater and commercial washing agents by coagulation. *Water environment Research*
  6. T. Shabir, M.W. Mumtaz, N. Shabir, A. Raza, M. Iqbal and M. Hussain. Trans fatty acids assessment in vegetable edible oils and cow butter, Gujrat, Punjab. *Journal of Chemical Society of Pak*
  7. Muhammad Shahid, Saba Noor, Tahira Iqbal, Muhammad Irshad and Munawar Iqbal. Chemical composition, antioxidant, antimicrobial and cytotoxic activities of *Zanthoxylum alatum* stem, leaves and seeds essential oils native to Jammu and Kashmir State, Pakistan. *Industrial Crops and Products*
  8. Mubarra Noreen, Muhammad Shahid and Munawar Iqbal. Ecological risk assessment: Paharang and Samana Drains and ground water from textile industrial zone: A case study from Faisalabad, Pakistan. *Environmental monitoring and assessment*
  9. M. Shahid, S. Noor, T. Iqbal and M. Iqbal. Bioactivity profiling of *Zanthoxylum alatum* stem seeds and leaves sequential extracts native to Azad Jammu & Kashmir, Pakistan. *Biocontrol*
  10. Muhammad Bilal and Munawar Iqbal. Sandal reactive dyes decolorization and cytotoxicity reduction using manganese peroxidase immobilized onto polyvinyl alcohol-alginate beads. *Environmental International*
  11. Munawar Iqbal, Ijaz Ahmad Bhatti and Muhammad Shahid. Detoxification and degradation of photo-catalytically treated nonylphenol ethoxylates. *Ecological Engineering*
  12. Munawar Iqbal and Ijaz Ahmad Bhatti. Advanced oxidation treatment efficiency for the detoxification and degradation of pulp and paper mills effluents. *Ecotoxicology and Environmental Safety*
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  14. Munawar Iqbal and Ijaz Ahmad Bhatti. Degradation of cytotoxic agent in soap and detergent wastewater by advanced oxidation processes. *Ecological Engineering*
  15. Raghad Salman Mouhamad, Ibrahim B. Razaq and Munawar Iqbal. Composting an alternative farming for the production of vegetables. *Pak JAS*
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17. Fereydoon Sarmadian, Ali Keshavarzi\*, Munawar Iqbal, P.V. Arun, Ghavamuddin Zahedi, Hossein Javadikia. Derivation of pedotransfer functions for estimating soil phosphorus using Terrain Analysis and Artificial Neural Networks Egyptian Journal of Remote Sensing and Space Sciences
  18. Fereydoon Sarmadian\*, Ali Keshavarzi, Munawar Iqbal, Ghavamuddin Zahedi, Hossein Javadikia, Ayoade Ogunkunle.. Towards a New Framework for Land Suitability Evaluation: Application of Matter Element Quantifier-based Multi-Criteria Decision Analysis. Current science perspectives
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  24. Sunflower paper, [Ecol Eng](#)
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  26. Shahid Adeel, Muhammad Saeed, Aqsa Abdullah, Waqar Haider, Muhammad Zuber, Munawar Iqbal. Microwave assisted modulation of vat dyeing of cellulosic fiber: Improvement in color Characteristics. Dyes and pigment
  27. Misbah Akram, Haq Nawaz Bhatti, Saima Noreen and Munawar Iqbal. Noval Mangifera indica kernel biocomposite efficiency for Cr(VI) adsorption: Kinetic, equilibrium and thermodynamics studies. Twain Institute of Chemical Engineers, Submitted

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28. Haq Nawaz Bhatti, Mehwish Mushtaq, Munawar Iqbal and Saima Noreen. Biocomposite efficiency for copper adsorption: Adsorption isotherms, Kinetics, thermodynamics and desorption studies. *Bioresource Technology*, submitted
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  31. Submitted paper to oxidation communication for microwave studies on disperse dyes.
  32. Iram Saba and Munawar Iqbal, Chemical composition and bioactivity of essential oil extracted from *Eucalyptus microtheca* leaves by steam distillation, *Chian Mio J of science*
  33. Degradation of drimarene Blue HF-RL using gamma radiation treatment: Application of response surface methodology” for publication in *Chiang Mai Journal of Science*. This is a formal acknowledgement of the receipt of your manuscript which has been assigned the following manuscript number: CMJS.03.09.15-6131.
  34. Mazhar Abbas, Muhammad Shahid and Munawar Iqbal. Mutagenic, cytotoxic activities and micronucleus inductions of methanolic extract and polar solvent fractions of *Datura innoxia*. *Journal of Ethnopharmacology*
  35. Munawar Iqbal, Zia ul Haq, Yasir Jamil and Komal Yousaf. Enhanced germination, growth and enzymatic activity of sunflower seedling raised from magnetically treated seeds. *Biocatalyst and Agricultural Biotechnology*
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  37. Munawar Iqbal, Zia ul Haq, Yasir Jamil and Jan Nisar. Influence of magnetic field on growth and yield of pleurotus ostreatus mushroom spawn. *Food Chemistry*
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  39. Rizwan Ashraf, Bushra Sultana, Munawar Iqbal and Muhammad Mushtaq. Variation in biochemical and antioxidant attributes of *Raphanus sativus* in response to foliar application of plant leaf extracts as PGR. *Biocatalyst and Agricultural Biotechnology*

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  43. Munawar Iqbal, Zia ul Haq, Yasir Jamil. Pre-sowing magnetic field treatment: A green technique for enhanced germination, fast seedling growth, biochemical and yield attribute in cucumber. *Biotechnology Reports*
  44. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, Saima Naz. Biological approach to control aflatoxin contamination in stored poultry feed. *Food Microbiology*
  45. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal. Aflatoxin inhibition and nutritional quality evaluation of stored broiler feed stabilized with medicinal plant leaves. *International Journal Of Food Microbiology*
  46. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, Saima Naz. Anti-aflatoxigenic activity of Punica granatum and Ziziphus Jujuba leaves in stored poultry feed inoculated with Aspergillus paraciticus: Effect of storage conditions. *Food Control*
  47. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal. Aspergillus parasiticus produced aflatoxins control in stored broiler feed using medicinal plant leaves. *J of Stored Product Research*
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  49. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal. Evaluation of antiaflatoxigenic activity of selected medicinal plants in storage layer feed contaminated with A. flavus. *Animal Feed Science and Technology*
  50. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, Saima Naz. Biocontrol of aflatoxin inhibition in stored layer feed. *Biocontrol journal*
  51. Bushra Ali Sherazi, Kanza Hashmi, Fatima Afzal, Munawar Iqbal, Syeda Mona Hassan, Syed Khuram Hassan. Assessment of Causes, Symptoms, Prevention

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- and Clinical Management of Pediatric Atopic dermatitis. Current Science Perspective
52. Ayesha Rashid, Haq Nawaz Bhatti, Munawar Iqbal and Saima Noreen. Fungal dead biomass composite with bentonite efficiency for nickel and Zinc adsorption: Adsorption isotherms, Kinetics, thermodynamics and desorption studies. Ecological Engineering
  53. Haq Nawaz Bhatti, Qamar Zaman, Abida Kausar, Saima Bashir and Sadia Ilyas and Munawar Iqbal. Zr(IV) adsorption onto citrus peel biomass: Kinetic, equilibrium and thermodynamic studies. Journal of Environmental Sciences
  54. Zuberah Naseem, Haq Nawaz Bhatti, Saima Noreen and Munawar Iqbal. Decolorization and kinetic study of Acid Yellow 216 by Fenton and Photo-Fenton processes. JECE
  55. Syeda Mona Hassan, Bushra Sultana and Munawar Iqbal. Aspergillus paraciticus produced aflatoxins control in laying hens feed using medicinal plant leaves. LWT- Food Science and Technology
  56. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, Saima Naz, Syed Khuram Hassan. Aspergillus flavus growth control in broiler feed using various synthetic additives: Aflatoxins reduction and feed quality evaluation. Food and chemical toxicology
  57. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal. Medicinal plant anti-aflatoxigenic application to inhibit Aspergillus flavus growth and aflatoxins production in broiler hens feed during storage. J Food Safety

### **Abstracts presented and published in Scientific Conferences**

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**).

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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).

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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,

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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 TiO<sub>2</sub> and H<sub>2</sub>O<sub>2</sub>: 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).



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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 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 Ce<sup>3+</sup> 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

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- 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 (Poster).
  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 (Poster).
  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 University, Faisalabad, Pakistan, January 15-16, 2013 (Poster presentation).
  37. Munawar Iqbal and Ijaz Ahmad Bhatti, Detoxification of nonylphenol ethoxylates by UV treatment in the presence of titanium dioxide and hydrogen peroxide (**Oral**). International Conference of Physical and Environmental Chemistry, National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan, September 9-11, 2013
  38. Ijaz Ahmad Bhatti, Upal Wijantha and Munawar Iqbal. Impact of high energy radiation on material processing, textile dyeing and Industrial waste management (Oral presentation). International Conference of Physical and Environmental Chemistry, National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan, September 9-11, 2013.

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39. Munawar Iqbal and Ijaz Ahmad Bhatti. Treatment of pulp and paper mill wastewater by high energy radiation (Poster presentation). International Conference of Physical and Environmental Chemistry, National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan, September 9-11, 2013.
  40. Muhammad Zahid, Semia Yamin, Ijaz Ahmad Bhatti, Munawar Iqbal and Asim Mansha. Photo-catalytic degradation of reactive dye Red 6NB from aqueous solution (Poster presentation). International Conference of Physical and Environmental Chemistry, National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan, September 9-11, 2013.
  41. Munawar Iqbal, Ijaz Ahmad Bhatti and Paolo Fornasiero. Application of *Allium cepa* test to monitor TiO<sub>2</sub> based photo-catalyst treatment detoxification efficiency of wastewater (Poster). Nanotechnology, Venice, Italy, November 27, 2013.
  42. Munawar Iqbal, Ijaz Ahmad Bhatti and Hassan Mahmood Khan. Degradation and detoxification of photo-catalytically treated nonylphenol ethoxylates. 25<sup>th</sup> National and 13<sup>th</sup> International Chemistry Conference, Institute of Chemistry, University of the Punjab Lahore, October 20-22, 2014 (**Oral**).
  43. Tanveer H. Bokhari, Saima Roohi, Syed Faheem A. Rizvi, Saira Hina, Mushtaq Ahmad and Munawar Iqbal. Preparation, biodistribution and scintigraphic evaluation of <sup>99m</sup>Te-Lincomycin. 25<sup>th</sup> National and 13<sup>th</sup> International Chemistry Conference, Institute of Chemistry, University of the Punjab Lahore, October 20-22, 2014 (**Oral**).
  44. Munawar Iqbal, Ijaz Ahmad Bhatti and Muhammad Shahid. Applications of *allium cepa* root tip bioassay for eco-toxicological monitoring (Poster). International Conference on Himalayan Biodiversity and Climate Change: Challenges and Opportunities, University of Azad Jammu and Kashmir, Muzaffarabad, Azad Kashmir. October 20-21, 2014.
  45. Munawar Iqbal, Ijaz Ahmad Bhatti and Hassan M. Khan. Bioassays efficiency for the evaluation of advanced oxidation treatment: A comparative study for petroleum refinery wastewater toxicity appraisal (). 3rd International Conference on Environmental Horizons held in Department of Chemistry, University of Karachi, 9-11 January, 2015.
  46. Munawar Iqbal, Ijaz Ahmad Bhatti and Hassan M. Khan. Nonylphenol ethoxylate degradation and toxicity removal using gamma radiation based

- advanced oxidation process (). 3rd International Conference on Environmental Horizons held in Department of Chemistry, University of Karachi, 9-11 January, 2015.
47. Munawar Iqbal, Naseer Ahmad, Ijaz Ahmad Bhati and Muhammad Zahid. Chromium adsorption onto tire waste adsorbent: Optimization by RSM, poster presented at 6th International Conference “Environmentally Sustainable Development”, ESDev-2015, held on August 23 - 25-2015, at Abbottabad. accepted, postponed.
  48. Munawar Iqbal, Ijaz Ahmad Bhatti and Hasan M. Khan Toxicity study of photo-catalytically treated petroleum refinery wastewater. Oral presentation, presented at 6th International Conference “Environmentally Sustainable Development”, ESDev-2015, held on August 23 - 25-2015, at Abbottabad, accepted, postponed.
  49. Munawar Iqbal, Ijaz Ahmad Bhatti and Hasan M. Khan. Toxicity profiling of gamma radiation treated nonylphenol ethoxylates. 26<sup>th</sup> National and 14<sup>th</sup> International Chemistry Conference Chemical Society of Pakistan (CSP), Chemistry: Finding Solutions in Changing World, The Islamia University of Bahawalpur, Pakistan, (October 5-8, 2015) (**Oral**).
  50. Munawar Iqbal, Ijaz Ahmad Bhatti and M. Tariq. Cytotoxicity and mutagenicity evaluation of gamma radiation and hydrogen peroxide treated textile effluents using bioassays. 26th National and 14th International Chemistry Conference Chemical Society of Pakistan (CSP), Chemistry: Finding Solutions in Changing World, The Islamia University of Bahawalpur, Pakistan, (October 5-8, 2015) (Poster presentation).
  51. Munawar Iqbal, Ijaz Ahmad Bhatti, Muhammad Shahid and Jan Nisar. Bioassays Application for Cytotoxicity and Mutagenicity Evaluation International Conference of Biochemistry, Biotechnology and Biomaterials February 22-24, 2016, UAF, Faisalabad, Pakistan (**Oral**)
  52. Munawar Iqbal, Rameez and Jan Nisar. Kinetics of the thermal decomposition of some chloro hydrocarbons (**Poster presentation, 2<sup>nd</sup> position award**)
  - 53.

### General Presentations/lectures (\* denote presenter)

1. Munawar Iqbal\*. Treatment of Industrial Wastewater by Advanced Oxidation Processes; Presented at National Centre of Excellence in Physical Chemistry, Weekly Seminar Series, June 28, 2014, University of Peshawar.
2. Munawar Iqbal\*. Elements for Writing Scientific Research Journal Articles. Presented at National Centre of Excellence in Physical Chemistry, Two days symposium on Scientific Writing, December 11-12, 2014, University of Peshawar.
3. Munawar Iqbal\*. Publishing connect for academic publications. Presented at National Centre of Excellence in Physical Chemistry, Two days symposium on Scientific Writing, December 11-12, 2014, University of Peshawar.
4. Munawar Iqbal\*. Environmental Applications of Advanced oxidation processes. Presented at National Centre of Excellence in Physical Chemistry, Two days workshop on recent advances and now horizons in Chemistry, April 6-7, 2015, University of Peshawar.
5. Munawar Iqbal. Elements and steps in writing scientific article, lecture delivered at Post Graduate College, Jhelum, May 5, 2015.
6. Munawar Iqbal. Applications of Advanced oxidation technologies for environmental remediation, Presented at Training Workshop on Advanced Chemical Techniques in Natural and Applied Sciences Organized by Department of Chemistry and Central Hi-Tech Lab, University of Agriculture, Faisalabad, Pakistan, 10-12 September, 2015
7. Participated as presenter in 5<sup>th</sup> Invention to Innovation Summit, 3-4 November, 2015, University of Haripur, KPK.

### **Training course/workshops attended**

1. "Safety measures and application of radiation & isotope in agriculture, health and industry" Organized by NIAB, Faisalabad, Pakistan, April, 25-29, 2011.
2. "Vacuum Technology workshop" organized by Department of Physics, University of Agriculture, Faisalabad, Pakistan, October 3-4, 2011.
3. "Trends in Environmental Biotechnology" Organized by NIBGE, Faisalabad, Pakistan, April 18, 2011
4. "Computer Resources for Molecular Modeling" organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan, March 27-29, 2012.

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5. "Molecular and Biochemical Techniques" organized by Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan, November 27, 2012
  6. "Workshop on Emerging Material" Organized by University of Trieste, **Italy**, October 11, 2013
  7. Two days symposium on Scientific Writing, December 11-12, 2014, organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan
  8. One day workshop on use of digital library, February 11, 2015 organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan
  9. One day workshop on scholarship for PhD and Post Doc types, procedure and application, February 26, 2015 organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan
  10. Training on the Basic of ARCGIS software, Organized by GIS Lab, Department of Environmental Sciences, University of Peshawar on 20<sup>th</sup> April, 2015
  11. One day seminar on Patent writing, Organized by ORIC, University of Peshawar on 4<sup>th</sup> June, 2015
  12. Three days Training Workshop on Advanced Chemical Techniques in Natural and Applied Sciences Organized by Department of Chemistry and Central Hi-Tech Lab, University of Agriculture, Faisalabad, Pakistan, 10-12 September, 2015
  13. One day workshop on Reference management using Mendeley Reference manager, December 14, 2015 organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan

### **Organizer**

1. Convener of different student committee in 10<sup>th</sup> International and 22<sup>nd</sup> National Chemistry Conference organized by Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan, November 21-23, 2011.
2. Organizing committee member of two days symposium on Scientific Writing, December 11-12, 2014, organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan
3. Organizing Secretary of two days workshop on "Recent Advances and New Horizons in Chemistry" organized by National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar, April 6-7, 2015.

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## Professional Affiliation

- Life time member of Chemical Society of Pakistan (P0283)
- Executive member Chemical Society of Pakistan, Punjab Chapter
- Life time member of International Scientific Organization (Membership No. 24)
- Member National Volunteer Movement (0312/NVM)
- CSP IUPAC affiliate member 2015
- Member Researcher Forum, Faculty of Life and Environmental Sciences, University of Peshawar, Pakistan

## Editorial Activity

### Founding and Managing Editor (Editor-in-Chief)

“Chemistry International” published by International Scientific Organization

<http://bosajournals.com/chemint/>

“Current Science Perspectives” published by International Scientific Organization

<http://bosajournals.com/csp/>

### Associate Editor

“Physical Chemistry” official journal of NCE in Physical Chemistry, University of Peshawar (<http://ncepc.com.pk/phychem/>)

International Journal of Ground Sediment & Water, <http://ijgsw.comze.com/>

### Editorial Board Member

Asian Journal of Chemistry

(<http://www.asianjournalofchemistry.co.in/User/Journal/editorial-board.aspx> )

Advances in Chemical and Biological Engineering (ACBE)

(<http://www.ajournals.com/index.php/journals/acbe#editorial-board>)

### Reviewer

- Physical Chemistry

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- Asian Journal of Chemistry
  - Materials Letters
  - Agricultural Chemistry
  - International Journal of Agricultural Policy and Research
  - Ecological engineering
  - International Research Journal of Public and Environmental Health
  - Chemistry International
  - Current Science Perspective
  - Journal of Environmental Chemical Engineering
  - International Journal of Research in Environmental Studies
  - Issues in Biological Sciences and Pharmaceutical Research

## References

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