

# 'Curriculum Vitae'



## 1. Demographic

**Dr. MUHAMMAD ASIF HANIF**

**S/O:** Muhammad Hanif

**Date of Birth:** 23-07-1981

### **Address for Correspondence:**

Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan.

### **Permanent Home Address:**

118-P Zubair Colony Jaranawala Road, Faisalabad.

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- **HIGHER EDUCATION COMMISSION OF PAKISTAN APPROVED SUPERVISOR**

### **Honors during educational and research carrier**

- In M. Sc highest CGPA was scored in analytical chemistry group.
- Highest CGPA scored in analytical chemistry group in M. Phil.
- PhD course work was completed by obtaining 3.95 CGPA out of 4.
- Current International Impact Factor  $\approx$  80  
(50 international and 14 national research papers have been published).
- Citations  $\approx$  1115; h-index = 16
- Received Research Productivity Allowance in 2008 from Pakistan Council for Science and Technology, Govt. of Pakistan in Chemical Sciences.
- Received Research Productivity Award in 2012 (Category B) from Pakistan Council for Science and Technology, Govt. of Pakistan in Chemical Sciences.
- Received Research Productivity Award in 2013 (Category A) from Pakistan Council for Science and Technology, Govt. of Pakistan in Chemical Sciences.
- Published "CHEMISTRY PRACTICAL MANUAL" for undergraduate students.

## 2. Education

Class/ Degree	Year	Institution	Subjects
PhD	2010	University of Agriculture, FSD.	Chemistry (Analytical Chemistry)
M. Phil	2005	University of Agriculture, FSD.	Chemistry
M. Sc	2003	University of Agriculture, FSD.	Chemistry
B. Sc	2001	University of the Punjab	Chem., Zol., Bot.
F. Sc	1998	Govt. College of Science, FSD.	Premedical
Matric	1996	Govt. Technical High School, FSD.	Bio-group

### DIPLOMAS

Diploma	Year	Institution	Subjects
A short course on IELTS	2007	University of Agriculture, FSD.	English language speaking, listening, writing and reading modules.
Diploma in Information Technology (DIT)	2002	Petroman Training Institute, FSD. An Institution of Ministry of Science and Technology, Govt. of Pakistan.	OS, PF,BCRW, BA, C++, DBMS,E-Commerce and Web development, SA, FA, VB,DCN, SP
Advance Computer Certificate Course	2000	Petroman Training Institute, FSD. An Institution of Ministry of Science and Technology, Govt. of Pakistan.	Windows, Office, Internet & E-mail.

- Qualified Graduate Record Examination (GRE) and Graduate Employment Examination (GEE) taken by National Testing Service (NTS) of Pakistan.

### **Titles of dissertation**

1. Biosorption and bioremediation of heavy metals using white rot fungi (PhD thesis) supervised by Dr. Haq Nawaz Bhatti.
2. Biosorption of Nickel from Industrial Effluents by *Cassia fistula* Biomass (M. Phil. Thesis) supervised by Mrs. Raziya Nadeem.
3. Metabolism of Aspirin in Female Volunteers during Winter Season (M. Sc Thesis) supervised by Mr. Sarfraz Ahmad.

### **3. Professional history**

- a. Working in capacity of “**Assistant Professor**” from Feb. 06, 2012 to date in Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
- b. **Lecturer**: from Jan. 26, 2012 to Feb. 05, 2012 in Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
- c. Worked in capacity of “**Researcher**” in Department of Crop Science, Sultan Qaboos University, Muscat, Oman since Nov. 1st, 2009 to Jan 24<sup>th</sup>, 2012.
- d. Worked in capacity of “**Lecturer**” in Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad from Oct. 10, 2008 to Oct. 31, 2009.
- e. Worked in capacity of “**Chemist**” since Oct. 28, 2005 to Oct. 9, 2008 in project entitled, “Export Quality Cut Flower Production and Essential Oil Extraction of Rosa (Phase-II)”, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, funded by Ministry of Science and Technology, Pakistan.
- f. Worked as “**Visiting Lecturer**” of Chemistry in Department of Environmental Sciences, GC University, Faisalabad since Mar. 24, 2008 to Oct. 9, 2008.
- g. Also worked as “**Visiting Lecturer**” of Chemistry in M.A. Jinnah College, Faisalabad since Feb. 15, 2005 to Oct. 30, 2005.

### **Consultancies**

1. Worked as “Research Consultant” in Department of Crop Sciences, College of Agriculture and Marine Sciences, Sultan Qaboos University, Muscat, Oman from 18-26<sup>th</sup> January 2014.

### **Major accomplishments:**

1. Worked on heavy and trace metals removal and recovery using biological methods.
2. Worked on essential extraction methodology using various extraction methods.
3. Developed and commercialized rose based products.
4. Can operate Spectrophotometer, Atomic Absorption Spectrophotometer (AAS), Flame Photometer, Gas Chromatograph Mass spectrometer (GC-MS), High Performance Liquid Chromatograph (HPLC), High Speed Counter Current Chromatograph (HSCCC) and Supercritical Fluid Extractor (SCFE) etc.
5. Developed research groups with several scientists.
6. Thirty students of chemistry and horticulture conducted research, under his

guidance.

7. Produced biodiesel from animal fats which yielded more than 90%.

## 4. Publications

### i. International Publications

#### 2013

1. Asma Hanif, Haq Nawaz Bhatti and **Muhammad Asif Hanif**. 2013. Removal of zirconium from aqueous solution by *Ganoderma lucidum*: biosorption and bioremediation studies. Desalination and Water Treatment. In press.
2. Raziya Nadeem, Muhammad Nadeem Zafar, Aisha Afzal, **Muhammad Asif Hanif** and Rashid Saeed. 2013. Potential of NaOH pretreated *Mangifera indica* waste biomass for the mitigation of Ni(II) and Co(II) from aqueous solutions. Journal of the Taiwan Institute of Chemical Engineers. In press.
3. H.N. Bhatti, A. Saleem and **Muhammad Asif Hanif**. (2013) Utilization of *Mentha arvensis* waste biomass for the removal of Pb(II) and Co(II) from aqueous solutions. Desalination and Water Treatment, 51: 3335–3343.
4. M. Riaz, R.Nadeem, **Muhammad Asif Hanif**, N. Rasool, R. Saeed, M.I. Jilani, T. Iqbal and M. Zafar. (2013). Kinetic and Equilibrium Modeling of Lead(II) Sorption onto Chemically Pretreated *Gossypium hirsutum* (Cotton) Leaves Waste Biomass. Asian Journal of Chemistry. 25: 1111-1116.
5. B. Riaz, T.M. Ansari, **Muhammad Asif Hanif**, S. Riaz, M.A. Khan, M. Riaz and M.I. Jilani. (2013). Utilization of extensively available environmental waste *Mentha spicata* for uptake of Pb(II) from aqueous solutions. Asian Journal of Chemistry. In press.

#### 2012

6. Muhammad Mumtaz Khan, Mueen Iqbal, **Muhammad Asif Hanif**, Muhammad Shahid Mahmood, Summar Ahmed Naqvi, Muhammad Shahid and Muhammad Jaffar Jaskani. (2012). Antioxidant and Antipathogenic Activities of Citrus Peel Oils. Journal of Essential Oil Bearing Plants. 15(6) 972-979 (Impact factor = 0.29).
7. M. S. Riaz, **Muhammad Asif Hanif**, S. Noureen, M. A. Khan, T. M. Ansari, H.N. Bhatti, Q. Imran. (2012). Coagulation/Flocculation of Tannery Wastewater Using Immobilized Natural Coagulants. Journal of Environmental Protection and Ecology. 13:1948-1957 (Impact factor = 0.102).

8. Q. Imran, **Muhammad Asif Hanif**, M. S. Riaz, S. Noureen, T. M. Ansari, H. N. Bhatti. (2012). Coagulation/Flocculation of Tannery Wastewater Using Immobilized Chemical Coagulants. *Journal of Applied Research and Technology*. 10:79-86. (Impact factor = 0.145).
9. M. Ashfaq, S. Ahmad, M. Sagheer, **M. A. Hanif**, S. K. Abbas and M. Yasir. (2012). Bioaccumulation of chromium (III) in silkworm (*Bombyx mori L.*) in relation to mulberry, soil and wastewater metal concentrations. *The Journal of Animal & Plant Sciences*, 22(3): 627-634 (Impact factor = 0.585).

## **2011**

10. **Muhammad Asif Hanif**, Ahmed Yahya Al-Maskri, Zeyana Mohammed Hamed Al-Mahruqi, Jamal Nasser Al-sabahi, Ahlam Al-Azkawi and Masoud Yahya Al-Maskari. Analytical Evaluation of Three Wild Growing Omani Medicinal Plants. *Natural Product Communications* 6(10) (2011) 1451-1454 (Impact factor = 1.242).
11. Ahmed Yahya Al-Maskri, **Muhammad Asif Hanif**, Masoud Yahya Al-Maskari, Alfie Susan Abraham, Jamal Nasser Al-sabahi and Omar Al-Mantheri. Essential Oil from *Ocimum basilicum* (Omani Basil): A Desert Crop. *Natural Product Communications* 6(10) (2011) 1487-1490 (Impact factor = 1.242).
12. **Muhammad Asif Hanif**, Haq Nawaz Bhatti, Ijaz Ahmed Bhatti and Muhammad Asgher. Biosorption of Cr(III) and Cr(VI) using newly isolated white rot fungi: batch and column studies. *Asian Journal of Chemistry* 23 (2011) 3375-3383 (Impact factor = 0.266).
13. **Muhammad Asif Hanif**, Masoud Yahya Al-Maskari, Awatif Al-Maskari, Ahmed Al-Shakaily, Ahmed Yahya Al-Maskari and Jamal Nasser Al-Sabahi. Essential oil composition, antimicrobial and antioxidant activities of unexplored Omani basil. *Journal of Medicinal Plants Research* 5(5) (2011) 751-757.
14. Nasira Perveen, **Muhammad Asif Hanif**, Shamaila Noureen, Tariq Mahmood Ansari and Haq Nawaz Bhatti. Phytoremediation of Pb(II) by *Jasminum sambac*. *Journal of Chemical Society of Pakistan*. 33(43) (2011) 592-597 (Impact factor = 1.377).
15. Tariq Mahmood Ansari, **Muhammad Asif Hanif**, Abida Mahmood, Uzma Ijaz, Muhammad Aslam Khan, Raziya Nadeem, and Muhammad Ali. Immobilization of Rose Waste Biomass for Uptake of Pb(II) from Aqueous Solutions. *Biotechnology Research International*. (2011) 1-9.

## **2010**

16. **Muhammad Asif Hanif**, Haq Nawaz Bhatti, Muhammad Asif Ali, Muhammad Asgher and Ijaz Ahmed Bhatti. Heavy metals tolerance and biosorption potential

- of white rot fungi. Asian Journal of Chemistry 22(1) (2010) 335-345 (Impact factor = 0.266).
17. Haq Nawaz Bhatti, Iqra Ijaz Bajwa, **Muhammad Asif Hanif** and Iftikhar Hussain Bukhari. Removal of lead and cobalt using lignocellulosic fiber derived from *Citrus reticulata* waste biomass. Korean Journal of Chemical Engineering 27(1) (2010) 218-227 (Impact factor = 0.991).
  18. Muhammad Ashfaq, Wakeel Afzal and **Muhammad Asif Hanif**. Effect of Zn(II) deposition in soil on mulberry-silk worm food chain. African Journal of Biotechnology 9(11) (2010) 1665-1672.
  19. **Muhammad Asif Hanif**, Haq Nawaz Bhatti, Muhammad Salman Jamil, Rana Salman Anjum, Amer Jamil, and Muhammad Mumtaz Khan. Antibacterial and antifungal activities of essential oils extracted from medicinal plants using CO<sub>2</sub> supercritical fluid extraction technology. Asian Journal of Chemistry 22(10) (2010) 7787-7797 (Impact factor = 0.266).
  20. Muhammad Salman Jamil, Raziya Nadeem, **Muhammad Asif Hanif**, Muhammad Asif Ali. Proximate composition and mineral profile of eight different unstudied date (*Phoenix dactylifera* L.) varieties from Pakistan. African Journal of Biotechnology 9(22) (2010) 3252-3259.
  21. Haq Nawaz Bhatti, Abdul Waheed Nasir, **Muhammad Asif Hanif**. Efficacy of *Daucus carota* L. waste biomass for the removal of chromium from aqueous solutions. Desalination 253 (2010) 78–87 (Impact factor = 2.59).
  22. Raziya Nadeem, **Muhammad Asif Hanif**, Muhammad Riaz, Abdul Aziz Azhar, Tahira Iqbal and Tariq Mahmood Ansari. Kinetic and equilibrium modeling of Cu (II) and Ni (II) sorption onto physically pretreated *Rosa centifolia* distillation waste biomass. African Journal of Biotechnology. 9(53) (2010) 9051-9062.

## **2009**

23. Asma Hanif, Haq Nawaz Bhatti and **Muhammad Asif Hanif**. Removal and recovery of Cu(II) and Zn(II) using immobilized *Mentha arvensis* distillation waste biomass. Ecological Engineering 35 (2009) 1427–1434 (Impact factor = 3.106).
24. Rehana Boota, Haq Nawaz Bhatti and **Muhammad Asif Hanif**. Removal of Cu(II) and Zn(II) using lignocellulosic fiber derived from *Citrus reticulata* (Kinnow) waste biomass. Separation Science and Technology 44 (2009) 4000–4022 (Impact factor = 1.088).
25. Muhammad Ashfaq, Sajad Ali and **Muhammad Asif Hanif**. Bioaccumulation of Cobalt in Silkworm (*Bombyx mori* L.) in Relation to Mulberry, Soil and Wastewater

- Metal Concentrations. *Process Biochemistry* 44 (2009) 1179–1184 (Impact factor = 2.627).
26. Muhammad Ashfaq, Muhammad Imran Khan and **Muhammad Asif Hanif**. Use of *Morus alba–Bombyx mori* as a Useful Template to Assess Pb Entrance in the Food Chain From Wastewater. *Environmental Entomology* 38(4) (2009) 1276-1282 (Impact factor = 1.561).
  27. Raziya Nadeem, **Muhammad Asif Hanif**, Abid Mahmood, Muhammad Salman Jamil and Muhammad Ashraf. Biosorption of Cu (II) ions from aqueous effluents by blackgram bran (BGB). *Journal of Hazardous Materials* 168 (2009) 1622–1625 (Impact factor = 4.173).
  28. Muhammad Ashfaq, **Muhammad Asif Hanif** and Muhammad Salman Jamil. Assessment of bioactivity of *Cassia fistula* using *Bombyx mori* lethality assay. *Journal of Chemical Society of Pakistan*. 31(5) (2009) 772-776 (Impact factor = 1.377).
  29. Tariq Mahmood Ansari, Khuala Umbreen, Raziya Nadeem and **Muhammad Asif Hanif**, *Polypogon monspeliensis* waste biomass: A potential biosorbent for Cd (II). *African Journal of Biotechnology* 8 (6) (2009) 1136-1142.
  30. Abdur Rauf Iftikhar, Haq Nawaz Bhatti, **Muhammad Asif Hanif**, Kinetic and thermodynamic aspects of Cu(II) and Cr(III) removal from aqueous solutions using rose waste biomass. *Journal of Hazardous Materials* 161 (2009) 941-947 (Impact factor = 4.173).
  31. Muhammad Riaz, Raziya Nadeem, **Muhammad Asif Hanif**, T.M. Ansari, Khalil-ur-Rehman, Pb(II) biosorption from hazardous aqueous streams using *Gossypium hirsutum* (Cotton) waste biomass. *Journal of Hazardous Materials* 161 (2009) 88-94 (Impact factor = 4.173).
  32. Haq Nawaz Bhatti, Rabia Khalid and **Muhammad Asif Hanif**. Dynamic biosorption of Zn(II) and Cu(II) using pretreated *Rosa gruss an teplitz* (red rose) distillation sludge. *Chemical Engineering Journal* 148 (2009) 434–443 (Impact factor = 3.461).

## **2008**

33. Faiza Shafqat, Haq Nawaz Bhatti, **Muhammad Asif Hanif** and Ammara Zubair, Kinetic and equilibrium studies of Cr(III) and Cr(VI) sorption from aqueous solution using *Rosa gruss an teplitz* (red rose) waste biomass. *Journal of the Chilean Chemical Society*. 54 (2008) 1565-1570 (Impact factor = 0.448).
34. Haq Nawaz Bhatti, Ghufrana Samin, **Muhammad Asif Hanif**, Enhanced Removal of Cu(II) and Pb(II) from Aqueous Solutions by Pretreated Biomass of

- Fusarium solani*. Journal of the Chinese Chemical Society 55 (2008) 1235-1244 (Impact factor = 0.678).
35. Ammara Zubair, Haq Nawaz Bhatti, **Muhammad Asif Hanif** and Faiza Shafqat. Kinetic and equilibrium modeling for Cr(III) and Cr(VI) removal from aqueous solutions by *Citrus reticulata* waste biomass. Water, Air and Soil Pollution (2008) 191:305-318 (Impact factor = 1.625).
  36. Haq Nawaz Bhatti, **Muhammad Asif Hanif**, Mohammad Qasim and Ata-ur-Rehman, Biodiesel production from waste tallow. Fuel. 87 (2008) 2961-2966 (Impact factor = 3.248).
  37. Haq Nawaz Bhatti, **Muhammad Asif Hanif**, Umar Faruq, Munir Ahmad Sheikh, Acid and Base Catalyzed Transesterification of Animal Fats to Biodiesel. Iranian Journal of Chemistry and Chemical Engineering. (2008) 27(4) 41-48 (Impact factor = 0.25).
  38. Iftikhar Ahmad, **Muhammad Asif Hanif**, Raziya Nadeem, Muhammad Salman Jamil and Muhammad Shahzad Zafar. Nutritive evaluation of medicinal plants being used as condiments in South Asian Region. Journal of Chemical Society of Pakistan. 30(3) (2008) 400-405 (Impact factor = 1.377).
  39. **Muhammad Asif Hanif**, Raziya Nadeem, Muhammad Nadeem Zafar, Haq Nawaz Bhatti and Rakhshanda Nawaz. Physico-chemical treatment of textile wastewater using natural coagulant *Cassia fistula* (Golden Shower) pods biomass. Journal of Chemical Society of Pakistan 30(3)(2008) 385-393 (Impact factor = 1.377).
  40. R. Nadeem, **Muhammad Asif Hanif**, F. Shaheen, S. Perveen, M.N. Zafar and T. Iqbal, Physical and chemical modification of distillery sludge for Pb (II) biosorption. Journal of Hazardous Materials 150 (2008) 335-342 (Impact factor = 4.173).
  41. Saiqa Sadiq, Haq Nawaz Bhatti, **Muhammad Asif Hanif**, Muhammad Asif Ali and Ata-ur-Rehman. Studies on chemical composition and nutritive evaluation of wild edible mushrooms. Iranian Journal of Chemistry and Chemical Engineering. (2008) 27(3) 151-154 (Impact factor = 0.25).

## **2007**

42. Raziya Nadeem, **Muhammad Asif Hanif**, Abid Hussain, Muhammad Asif Ali and Tariq Mahmood Ansari. Biosorption of Pb (II) by local gram (*Cicer arietinum*) cultivar biomass. Journal of Chemical Society of Pakistan 29 (5) (2007) 446-452 (Impact factor = 1.377).



43. **Muhammad Asif Hanif**, Raziya Nadeem, Haq Nawaz Bhatti, Najum Rashid Ahmad and Tariq Mehmood Ansari. Ni (II) biosorption by *Cassia fistula* (Golden Shower) Biomass. Journal of Hazardous Materials 139 (2007) 345-355 (Impact factor = 4.173).
44. **Muhammad Asif Hanif**, Raziya Nadeem, Muhammad Nadeem Zafar, Kalsoom Akhtar and Haq Nawaz Bhatti. Kinetic studies for Ni (II) biosorption from industrial wastewater by *Cassia fistula* (Golden Shower) biomass. Journal of Hazardous Materials 145 (2007) 501-505 (Impact factor = 4.173).
45. Haq Nawaz Bhatti, Beenish Mumtaz, **Muhammad Asif Hanif**, Raziya Nadeem. Removal of Zn (II) ions from aqueous solution using *Moringa oleifera* Lam. (horseradish tree) biomass. Process Biochemistry 42 (2007) 547-553 (Impact factor = 2.627).
46. Muhammad Nadeem Zafar, Raziya Nadeem and **Muhammad Asif Hanif**. Biosorption of nickel from protonated rice bran. Journal of Hazardous Materials. 143 (2007) 478-485 (Impact factor = 4.173).
47. Mubashir Hussain Nasir, Raziya Nadeem, Kalsoom Akhtar, **Muhammad Asif Hanif** and Ahmad M. Khaild. Efficacy of modified distillation sludge of rose (*Rosa centifolia*) petals for lead (II) and Zn (II) removal from aqueous solutions. Journal of Hazardous Materials, 147 (2007) 1006-1014 (Impact factor = 4.173).
48. **Muhammad Asif Hanif**, Haq Nawaz Bhatti, Raziya Nadeem, Khalid Mahmood Zia and Muhammad Asif Ali. *Cassia fistula* (Golden Shower): A Multipurpose Ornamental Tree. Floriculture and Ornamental Biotechnology. 1(1) (2007) 21-26. (**Invited mini-review**).
49. Muhammad Abdullah Javed, Haq Nawaz Bhatti, **Muhammad Asif Hanif** and Raziya Nadeem. Kinetic and equilibrium modeling of Pb(II) and Co(II) sorption onto rose waste biomass. Separation Science and Technology 42(16) (2007), 3641-3656 (Impact factor = 1.088).

## **2006**

50. H.N. Bhatti, A. Najma, M. Asgher, **Muhammad Asif Hanif** and M.A. Zia. Purification and Thermal Characterization of a Novel Peroxidase from a Local Chick Pea Cultivar. Protein and Peptide Letters, 13 (2006) 799-804 (Impact factor = 1.942).

## **ii. Refereed *International ISI recognized Journals without impact factor***

### **2013**

1. Mujahid Farid, Muhammad Bilal Shakoor, Sana Ehsan, Shafaqat Ali, Muhammad Zubair and **Muhammad Asif Hanif**. Morphological, physiological and biochemical responses of different plant species to Cd stress. *International Journal of Chemical and Biochemical Sciences*. 3(2013):53-60.

### **2012**

2. **Muhammad Asif Hanif** and Haq Nawaz Bhatti. Bioremediation of nickel from wastewater using immobilized *Phanerochaete chrysosporium* biomass. *International Journal of Chemical and Biochemical Sciences*. 2 (2012) 54-59.
3. Ullah, S. Ali, **Muhammad Asif Hanif** and S.A. Shahid. Nanoscience for environmental remediation: A Review. *International Journal of Chemical and Biochemical Sciences*. 2 (2012) 60 – 77.
4. A. Majeed, M.I. Jilani, R. Nadeem, **Muhammad Asif Hanif** and T.M. Ansari. (2012). Novel studies for the development of hybrid biosorbent. *International Journal of Chemical and Biochemical Sciences*. 2(2012) 78 – 82.
5. M.M. Khan, **Muhammad Asif Hanif** and A.S. Abraham. (2012). Variations in basil antioxidant contents in relation to deficit irrigation. *Journal of Medicinal Plants Research*. 6(11)2220-2223.

### **2010**

6. Raziya Nadeem, Muhammad Riaz, Khalil-ur-Rahman, **Muhammad Asif Hanif**, Adeela Khanum and Abdul Qayum. Mineral Composition of *Cassia fistula* (Golden Shower): A Life tree of Medicinal Importance. *Life Science International* 4(3)(2010) 1739-1744.

### **2007**

7. Muhammad Asif Ali, M. Imran Mehmood, Rab Nawaz, **Muhammad Asif Hanif** and Rashid Wasim. Influence of Substrate Pasteurization methods on the yield of Oyster mushroom (*Pleurotus species*). *Pakistan Journal of Agriculture Sciences*. 44(2) (2007) 300-303 (HEC Category Y).
8. Shahla Rashid, Muhammad Asif Ali, M. Imran Mehmood, **Muhammad Asif Hanif** and Rashid Waseem. Correlation between the sizes of polypropylene bags and the yield of *Pleurotus ostreatus*. *Pakistan Journal of Agriculture Sciences*. 44(2) (2007) 317-320 (HEC Category Y).

## 2006

9. Umer Rashid, Haq Nawaz Bhatti, **Muhammad Asif Hanif** and Najum Rasheed Ahmad. 2006. Determination of metabolite of aspirin (salicylic acid) by calorimetric method in human urine. *Pakistan Journal of Biological Sciences*, 9 (6) (2006): 1004-1008.

## 2005

10. **Muhammad Asif Hanif**, Raziya Nadeem, Umer Rashid and Muhammad Nadeem Zafar. Assessing pollution levels in effluents of industries in City Zone of Faisalabad, Pakistan. *Journal of Applied Sciences*, 5 (10) (2005): 1713-1717.
11. Najum Rashid Ahmad, **Muhammad Asif Hanif** and Umer Rashid. Chemical compositional and intra provenance variation for content of essential oil in *Eucalyptus crebra*. *Asian Journal of Plant Sciences*, 4 (5) (2005): 519-523.

## 2004

12. **M.A.Hanif**, H.N. Bhatti, S.Ahmad, K.Rehman, U.Rashid, S.Amin and M.W. Sarwar. 2004. Metabolism of aspirin in female volunteers during winter season. *Indus Journal of Biological Sciences*, 1(2) (2004): 63-67.
13. M.W. Sarwar, **M.A. Hanif**, U.Rashid, S.Ali and K.Rehman. Optimization of conditions of coagulation flocculation process in industrial wastewater treatment using coagulant alum. *Indus Journal of Biological Sciences*, 1(2) (2004): 68-70.
14. Sumaria Amin, Haq Nawaz, Bhatti, Shazia Noureen, Rab Nawaz and **M.A. Hanif**. Urinary excretion of salicylic acid in male volunteers during summer. *Indus Journal of Biological Sciences*, 1(2) (2004): 209-213.

## **5. Books Published**

1. Muhammad Asif Hanif and Haq Nawaz Bhatti. 2011. GRE Chemistry MCQs. Caravan Book House Lahore.
2. Muhammad Asif Hanif and Khalili-ur-Rehman. 2014. Chemistry Practical Manual for undergraduate students. University of Agriculture, Faisalabad, Pakistan press.

## 6. Chapters in books

Masoud Yahya Al-Maskari, Muhammad Asif Hanif, Ahmed Yahya Al-Maskri and Samir Al-Adawi. 2011. Basil: A Natural Source of Antioxidants and Nutraceuticals. Editors: M. Mohamed Essa, A. Manickavasagan, In: Natural Products and their Active Compounds, ISBN: 978-1-62100-153-9. © 2011 Nova Science Publishers, Inc.

## 6. Conferences/ Symposium Attended

### a. In Pakistan

(i) Frontiers in Chemistry. Department of Chemistry, GC University, Lahore, Pakistan 12<sup>th</sup> March 2005. Oral presentation on: Metabolism of Aspirin in Female volunteers During Winter season.

(ii) 6<sup>th</sup> International and 16<sup>th</sup> National Chemistry Conference “Quality of Life and Chemical Sciences”, Department of Chemistry, Bahauddin Zakaria University, Multan, Pakistan. April 06-08, 2006. Oral presentation on: Nickel Removal from Industrial Waste Water By *Cassia fistula* Biomass. Poster presentation on: Assessing Pollution Levels in Effluents of Industries in City Zone of Faisalabad.

(iii) International Conference on Value Addition Products in Horticulture. Department of Horticulture, Agriculture Arid University, Rawalpindi, Pakistan. July 26-28, 2006.

(iv) 2<sup>nd</sup> International Seminar on Analytical Sciences. National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro-Pakistan. September 6-8, 2007. Oral Presentation on: Dynamic biosorption of Zn(II) and Cu(II) using pretreated *Rosa gruss an teplitz* (Red Rose) distillation sludge. Poster Presentation on: Biosorption of Cr(III) and Cr(VI) by pretreated *Citrus reticulate* waste biomass.

(v) Chemistry for the development of health, industry and environment, 18<sup>th</sup> National Chemistry Conference, Chemical Society of Pakistan, Institute of Chemistry, University of the Punjab, Lahore, 25-27<sup>th</sup> Feb. 2008. Oral Presentation on: Biosorption of heavy metals by various types of white rot fungi: A preliminary study and investigation of metal toxicity.

(vi) 1<sup>st</sup> international symposium on biotechnology; current trends, Department of Biotechnology, University of Malakand, 2-4<sup>th</sup> July 2008. Oral Presentation on: Biosorption of heavy metal ions by various types of edible white rot fungi: A preliminary study and investigation of metal toxicity.

(vii) 19<sup>th</sup> National Chemistry Conference, Department of Chemistry, Kohat University of Science and Technology, Kohat. 9-11<sup>th</sup> June 2009. Oral Presentation on: Removal of lead and cobalt by *Rosa gruss an teplitz* distillation sludge: effect of pretreatments.

## **b. In Foreign Countries**

- “Egyptian First International conference in Chemistry: Chemistry for human needs in developing countries”, Shram El-Sheikh, Egypt. September 11-14, 2006. Oral presentation on: *Cassia fistula*: A Best Natural Coagulant for the Treatment of Textile Effluents. Poster presentation on: Biosorption of Ni (II) from industrial wastewater by *Cassia fistula*.
- "International Congress on Medicinal and Aromatic Plants", Cagliari, Italy. April 13-15, 2011. Oral presentation on: Analytical evaluation of three wild Omani medicinal plants.
- “Teagasc National Protected Crops Conference and Trade Show 2013”, Teagasc Food Research Centre, Ashtown, Dublin, Ireland. 1<sup>st</sup> May 2013. Conference/Trade show attended.
- “Oman Power & Water Summit 2013” Al Bustan Palace, Muscat, Oman. 05-07 May 2013. **Invited Lecture on:** Cultivating rot fungi for wastewater treatment to reduce the chemicals needed to clean and purify water.

## **7. Students Co- supervised**

- i. Uzma Ijaz. Biosorption of lead by immobilized *Rosa centifolia* waste biomass. M.Sc Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- ii. Abida Mahmood. Biosorption of lead by immobilized *Rosa gruss an teplitz* waste biomass. M.Sc Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- iii. Qasiar Imran. Coagulation/flocculation of tannery waste water by using chemical coagulants. BSc (hons) Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- iv. Muhammad Shoaib Riaz. Coagulation/flocculation of tannery waste water by using natural coagulants. BSc (hons) Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- v. Nasiara Perveen. Phytoremediation of Pb(II) by *Jasminum sambac*. M.Sc Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- vi. Beneish Riaz. Uptake of Pb(II) using immobilized *Mentha spicata* distillation waste biomass. M.Sc Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.
- vii. Tahara Iqbal. Uptake of Cu(II) using immobilized *Mentha spicata*

distillation waste biomass. M.Sc Thesis (2009) Department of Environmental Sciences, Government College University, Faisalabad.

## **8. Professional activities**

- (i) Main research interests in bioanalytical, bioinorganic and environmental chemistry. Working on pollutant removal methodologies.
- (ii) Working on utilization of Rose as high potential value added non- traditional crop in national agriculture.
- (iii) Utilization of supercritical fluid extraction technology in Pakistani agriculture
- (iv) Utilization of biodiesel in national automotive sector.

### **• Contributions to administration and university service**

I have developed research cooperation between Department of Chemistry and Biochemistry and Institute of Horticultural Sciences, UAF.

### **• Membership of Professional Societies**

- i. President of International Scientific Organization ([www.iscientific.org](http://www.iscientific.org))
- ii. Life time member of Chemical Society of Pakistan

### **• Extracurricular activities**

Cricket, Badminton and Soccer Player

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