

MUHAMMAD JAVED IQBAL, MPhil., PhD., FCSP

Personal Information

Present Position: Professor

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Academic Qualifications

Degree	University/Board	Subjects	Year
Ph.D.	University of Bradford, W. Yorks., UK.	Chemistry	1983
M.Phil.	Quaid-i-Azam University, Islamabad.	Chemistry	1974
M.Sc.	University of the Punjab, Lahore.	Chemistry	1972
B.Sc.	University of the Punjab, Lahore.	Chem., Phys.	1970
F.Sc.	Government Degree College, Multan	Pre-Engineering	1968
Matric	Government High School, Multan.	Science Group	1965

Service Record

Institution	Position Held	Period
Preston University, Islamabad.	Professor	04.04.2012- to date
Quaid-i-Azam University, Islamabad.	Professor (TTS)	07.07.2007- 05.09.2009
Quaid-i-Azam University, Islamabad.	Professor (BPS-21)	20.12.2003- 06.07.2007
Quaid-i-Azam University, Islamabad.	Associate professor	13.06.1996- 19.12.2003
Quaid-i-Azam University, Islamabad.	Assistant Professor	18.12.1985- 12.06.1996
Quaid-i-Azam University, Islamabad.	Lecturer	01.12.1984- 17.12.1985
Quaid-i-Azam University, Islamabad.	Research Associate	15.01.1975 -01.01.1980

Postdoctoral fellowships

1. Department of Chemistry & Chemical Technology, University of Bradford, **UK.**
(British Council, 1989) (*Prof. Roger I. Bickley*)
2. Institut fur Physikalische Chemie, Universitat Dortmund, Germany.
(DAAD, 1997) (*Prof. Alfons Gieger*)
3. Depto. Electricidad au Electronica, Valladolid Universidad, Valladolid, **Spain.**
(HEC, 2008) (*Prof. P.H. Gomez*)
4. WebResearch, Edina, Minnesota, **USA.** (WebResearch 2008) (*Dr. Tom Kent*)

List of Publications

1. M.J.Iqbal, M.Afzal and M.Saleem, *Viscosity and ion-solvent interactions*”, **Islamabad Journal of Science**, 3(1), 21-24 (1976).
2. M.Afzal, M.Saleem, U.Rasul and M.J.Iqbal, “*Adsorption on charcoal from binary aqueous acid solutions*”, **Islamabad Journal of Science**, 4(1-2),18-21(1977).
3. M.Afzal, M.Saleem and M.J.Iqbal, “*Vaporization kinetics of alcohols*”, **J. Chemical Society of Pakistan**, 2(3), 91-95 (1980).
4. G.M.Khan and M.J.Iqbal, “*Thermodynamics of the adsorption of alcohols on modified gold surface*”, **Langmuir**, 4, 97-100 (1988).
5. M.Afzal, P.K.Butt, M.J.Iqbal and Shakiluddin,“*Vaporization kinetics of associated amines*” **J. Scientific & Industrial Research**, 31(6), 404-407 (1988).
6. G.M.Khan and M.J.Iqbal, “*Kinetics of Reaction of Terphthalic Acid and peroxodisulphate catalyzed by Ag(I)*”, **J. Chemical Society of Pakistan**, 11(2), 130-134 (1989).
7. M.J.Iqbal, M.A.Rauf and N.Ijaz, “*Surface tension measurements of glycerol with Organic Co-Solvents*”, **J. Chemical Engineering Data**, 37, 45-47 (1992).
8. M.A.Rauf and M.J.Iqbal, “*Cumarin-540 and rhodamine-560 as energy dye Laser*”, **Physical Chemistry**, 11, 61-66 (1992)
9. M.J.Iqbal and M. Hussain, “*Adsorption from solution of dyes on activated silica gel*”, **J. Chemical Society of Pakistan**, 15(1), 7-10 (1993).
10. M.J.Iqbal and M. Hussain, “*Thermodynamics of adsorption of dyes on silica gel*”, **J. Chemical Society of Pakistan**, 15(2), 93-96 (1993).
11. M.Afzal, M.J.Iqbal and H.Ahmad, “*Temperature dependence of viscosity B-coefficients of aqueous chlorides of Na⁺, K⁺, Mg⁺⁺, Ca⁺⁺, Sr⁺⁺, Ni⁺⁺, Cu⁺⁺ & Cr⁺⁺⁺*”,**Collections Czechoslovak Chemical Communications**,59,1296-1300 (1994).
12. M.A.Rauf, S.M.Hassany, M.J.Iqbal and M.T.Hussain, “*Adsorption studies of Europium on manganese dioxide from aq. sulphuric acid and 1-Propanol mixtures*”, **Adsorption Science & Technology**, 11 (3), 155-160 (1994).
13. M.A.Rauf, M.J.Iqbal, I.Ellahi and S.M.Hussany, “*Kinetics & thermodynamic aspects of ytterbium adsorption on sand*”, **Adsorption Science & Technology**, 13, 97-101 (1996).

14. M.A.Rauf, M.J.Iqbal and I.Ellahi, “*Studies on the adsorption behavior of lutecium on sand*”, **Adsorption Science & Technology**, 13(2), 127-135(1996).
15. M.A.Rauf, M.Ikram, M.J.Iqbal and M.Z.Bhatti, “*Effect of lithium on characteristic frequencies of 1-propanol*”, **J. Chemical Society of Pakistan**, 18(4), 259-262 (1996).
16. M.Ikram, M.A.Rauf, M.J.Iqbal and S.Shuja, “*Effect of lithium halides on the characteristic vibrational frequencies of propionic acid*”, **J. Chemical Society of Pakistan**, 18(4), 262-265 (1996).
17. M.A.Rauf, M.Ikram, M.J.Iqbal and U.Ehsan, “*Excess molar volumes and viscosities of water + 2-propanol at 298, 306 and 308K*”, **J. Chemical Society of Pakistan**, 18(4), 269-272 (1996).
18. M.A.Rauf, M.Ikram, M.J.Iqbal and N.Rauf, “*Adsorption studies of Ni(II) from aqueous solution onto Bentonite*”, **J. Trace & Microprobe Techniques**, 21(2), 335-340 (2003). Now published as: **Instrumentation Science & Technology**
19. M.A.Rauf, M.Ikram, M.J.Iqbal and S.Manzoor, “*Comparison of catalytic activity of clays on locally available petroleum fractions*”, **J. Chemical Society of Pakistan**, 26(1), 10-13 (2004).
20. M.A.Rauf, M.Ikram, M.J.Iqbal and S.Iqbal, “*Solvent effects on the I.R. spectra of 1-(2-Pyodylazo)-2-Naphthol*”, **J. Faculty of Science**, 13(1), 37-40 (2004).
21. M.J.Iqbal and Q.M.Malik, “*Partial molar volume of paracetamol in water, 0.1M HCl and 0.154M NaCl at T= (298.15, 303.15, 308.15 and 310.65K) and at 101.325 kPa pressure*” **J. Chemical Thermodynamics**, 37, 1347-1350 (2005).
22. M.A.Rauf, M.J.Iqbal and Q.M.Malik, “*Effect of alkali salts on the viscosity of ‘Kahu’ grass black liquor*” **International J. Scientific Research**, 14, 51-57(2005).
23. M.J.Iqbal and M.Siddiquah, “*Partial molar volume of mefenamic acid in alcohol at temperatures between T=293.15 and T=313.15K*”, **J. Brazilian Chemical Society**, 17(5), 851-858 (2006).
24. M.J.Iqbal and R.Mehmood, “*Synthesis and characterization of antimony-doped Bi-based superconducting materials*, **Materials Science and Engineering B**, 135, 166-171 (2006).
25. M.J.Iqbal and M.N.Ashiq, “*Comparative study of SrZr_xMn_xFe_{12-2x}O₁₉ nanoparticles synthesized by co-precipitation and sol-gel combustion methods*”, **Scripta Materialia**, 56, 145-148 (2007).
26. M.J.Iqbal and M.N.Ashiq, “*Adsorption of dyes from aqueous solutions on activated charcoal*”, **J. Hazardous Materials**, B139, 57-66 (2007).

27. M.J.Iqbal and S.Farooq, “*Effect of doping of divalent & trivalent metal ions on the structural and electrical properties of magnesium aluminate*”, **Materials Science and Engineering B** 136, 140-147 (2007).
28. M.J.Iqbal and S.Zahoor, “*Synthesis and characterization of nanosized lithium manganate and its derivatives*”, **J. Power Sources**, 165, 393-397 (2007).
29. M.J.Iqbal, M.N.Ashiq, P.H.Gomez and J.M.Munos, “*Magnetic, physical and electrical properties of Zr-Ni substituted coprecipitated strontium hexaferrite nanoparticles*”, **Scripta Materialia**, 57, 1093-1096 (2007).
30. M.J.Iqbal and M.N.Ashiq, “*Physical and electrical properties of Zr-Cu substituted strontium hexaferrite nanoparticle synthesized by co-precipitation method*”, **Chemical Engineering J.** 136, 383-389 (2008).
31. M.J.Iqbal and R.Mehmood, “*Enhancement of $T_{c(0)}$ by substitution of gallium in the bismuth based high- T_c superconducting material*”, **J. American Ceramic Society**, 91(3), 1019-1021 (2008).
32. M.J.Iqbal and M.Siddiquah, “*Electrical and magnetic properties of chromium substituted cobalt ferrite nanomaterials*”, **J. Alloys & Compounds**, 453, 513-518 (2008).
33. M.J.Iqbal and M.Siddiquah, “*Structural, electrical and magnetic properties of Zr-Mg cobalt ferrite*”, **J. Magnetism & Magnetic Materials**, 320, 845-850 (2008).
34. M.J.Iqbal, M.N.Ashiq, P.H.Gomez and J.M.Munos, “*Synthesis, physical, magnetic and electrical properties of Al-Ga substituted co-precipitated nanocrystallite Sr-hexaferrite*”, **J. Magnetism & Magnetic Materials**, 320, 881-886 (2008).
35. M.J.Iqbal and Z.Ahmad, “*Electrical and dielectric properties of lithium nanomaterials doped with rare-earth elements*”, **J. Power Sources**, 179, 763-769 (2008).
36. M.J.Iqbal and M.A.Chaudhary, “*Thermodynamics studies on the interactions of phenyl salicylate in protic solvents at different temperatures*”, **J. Molecular Liquids**, 143, 75-80 (2008).
37. M.J.Iqbal and M.A.Chaudhary, “*Thermodynamics studies of phenyl salicylate solutions in Aprotic solvents at different temperatures*”, **J. Chemical Engineering Data**, 54, 338-341 (2009).
38. M.J.Iqbal and M.A.Chaudhary, “*Thermodynamic study of three pharmacologically significant drugs: density, viscosity and refractive index measurements at different temperatures*”, **J. Chemical Thermodynamics**, 41, 221-226 (2009).
39. M.J.Iqbal and B.Kishwar, “*Electrical properties of $MgAl_{2-2x}Zr_xM_xO_4$ ($M = Co, Ni$ and $x = 0.00-0.20$) synthesized by coprecipitation technique using urea*”, **Materials Research Bulletin**, 44, 753-758 (2009).

40. M.J. Iqbal and Bushra Ismail, “Electric, dielectric and magnetic characteristics of Cr^{3+} , Mn^{3+} and Fe^{3+} substituted $MgAl_2O_4$: effect of pH and annealing temperature” **J. Alloys & Compounds**, 472, 434-440 (2009).
41. M.J.Iqbal, M.N.Ashiq and P.H.Gomez, “Effect of annealing temperature on substitution of Zn-Cu on magnetic properties of Sr-hexaferrite nano-particles”, **J. Physics D: Conference Series**, 153, 1-7, 012053 (2009).
42. M.J.Iqbal and R.Mehmood, “Improvement in high- $T_{c(0)}$ phase formation in thalium-antimony doped bismuth-based superconducting materials”, **J. Alloys & Compounds**, 477, 386-390 (2009).
43. M.J.Iqbal, M.N.Ashiq and P.H.Gomez, “Effect of doping of Zn-Zr binary mixtures on structural, electrical and magnetic properties of Sr-hexaferrite nano-particles”, **J. Alloys & Compounds**, 478, 736-740 (2009).
44. M.J. Iqbal, R.Ali Khan, “Enhancement of electrical and dielectric properties of Cr-doped $BaZn_2$ W-Type hexaferrite for potential applications in high frequency devices”, **J. Alloys & Compounds**, 478, 847-852 (2009).
45. M.J.Iqbal and M.A.Chaudhary, “Volumetric and viscometric studies of salicyl amide, salicylic acid and acetyl salicylic acid in alcohols at different temperatures”, **J. Chemical Engineering Data**, 54, 1643-1646 (2009).
46. M.J.Iqbal and B.Ain, “Synthesis and study of physical properties of $Zr^{+4}-Co^{+2}$ Co doped barium hexagonal ferrites”, **Materials Science & Engineering B**, 164, 6-11 (2009).
47. M.Saleem, A.Hameed, M.J.Iqbal and M.A.Baig, “Mass spectrometric studies of Laser ablated plume from a superconducting material”, **European Phys. J. D**, 55, 121-126 (2009).
48. M.J.Iqbal, M.N.Ashiq and I.H.Gul, “Structural, electrical and magnetic properties of Zr-Cd substituted strontium hexaferrite ($SrFe_{12}O_{19}$) nano particles”, **J. Alloys & Compounds**, 487, 341-345 (2009)
49. M.J.Iqbal and S.Farooq, “Enhancement of electrical resistivity of $Sr_{0.5}Ba_{0.5}Fe_{12}O_{19}$ nanomaterials by doping with lanthanum and nickel”, **Materials Chemistry & Physics**, 118, 308-313 (2009).
50. M.J.Iqbal and M.A.Chaudhary, “Volumetric and viscometric studies of antidepressant drugs in aqueous medium at different temperatures”, **J. Chemical Engineering Data**, 54, 2772-2776 (2009).
51. M.J.Iqbal and S.Farooq, “Extraordinary role of Ce-Ni elements on the electrical and dielectric properties of Sr-Ba M-type hexaferrite”, **Materials Research Bulletin**, 44, 2050-2055 (2009).

52. M.J.Iqbal and F.Liaquat, “Physical and electrical properties of nanosized Mn, Cr doped strontium Y-type hexagonal ferrites”, **J. American Ceramic Society**, 93, 474-480 (2009).
53. M.J.Iqbal, M.N.Ashiq and I.H.Gul, “Physical, electrical and dielectrical properties of Ca-substituted substituted strontium hexaferrite ($SrFe_{12}O_{19}$) nanoparticles synthesized by co-precipitation method”, **J. Magnetism & Magnetic Materials**, 322, 1720-1726 (2010).
54. M.J.Iqbal and S.Farooq, “Suitability of $Sr_{0.5} Ba_{0.5-x} Ce_x Fe_{12-y} Ni_y O_{19}$ coprecipitated nanomaterials for inductor applications”, **J. Alloys & Compounds**, 493, 595-600 (2010).
55. M.J.Iqbal and M.A.Chaudhary, “Effect of temperature on volumetric and viscometric properties of some non-steroidal anti-inflammatory drugs in aprotic solvents” **J. Chemical Thermodynamics**, 42, 951-956 (2010).
56. M.J.Iqbal, M.N.Ashiq, P.H.Gomez, J.M.Munos and C.T.Cabrera, “Influence of annealing temperature and doping rate on the magnetic properties of Zr-Mn substituted Sr-hexaferrite nanoparticles”, **J. Alloys & Compounds**, 500, 113-116 (2010).
57. M.J.Iqbal and B. Ismail, “Correlation between structural and electrical properties of $Mg_{1-2x} Zn_x Ni_x Al_2 O_4$ ($x = 0.0-0.5$) ceramic nanomaterials synthesized by a urea assisted microwave combustion method”, **J. Alloys & Compounds**, 504, 440-445 (2010).
58. M.J.Iqbal and S.Farooq, “Impact of Pr–Ni substitution on the electrical and magnetic properties of chemically derived nanosized strontium–barium hexaferrites”, **J. Alloys & Compounds**, 505, 560-567 (2010).
59. M.J.Iqbal, M.N.Ashiq, “Thermodynamics and kinetics of adsorption of dyes from aqueous media onto alumina”, **J. Chem. Soc. Pak.**, 32 (4), 419-428 (2010).
60. M.J.Iqbal and M.A.Chaudhary, “Apparent molal volumes and viscosity B-coefficients of acetyl salicylic acid (2-acetoxy Benzoic Acid) solutions in higher alcohols at different temperatures”, **J. Chemical Engineering Data**, 55, 5921-5926 (2010).
61. M.N.Ashiq, M.J.Iqbal, M.Hussain and I.H.Gul, “Effect of Al–Cr doping on the structural, magnetic and dielectric properties of strontium hexaferrite nanomaterials”, **J. Magnetism & Magnetic Materials**, 323, 259-263 (2011).
62. M.I.Ghori, M.J.Iqbal and A.Hameed, “Characterization of a novel Lipase from *Bacillus* Sp. Isolated from Tannery Wastes”, **Brazilian J. Microbiology**, 42, 22-29 (2011).
63. M.J.Iqbal and M.Iftekhari, “Effect on photophysical properties of colloidal ZnS quantum dots by doping with cobalt, copper, and cobalt–copper mixtures”, **J. Nanoparticle Research**, 13, 2139-2145 (2011).

64. M.J.Iqbal and S.Farooq, “*Could binary mixture of Nd–Ni ions control the electrical behavior of strontium–barium M-type hexaferrite nanoparticles?*” **Materials Research Bulletin**, 46, 662–667 (2011).
65. M.J.Iqbal, R.A. Khan, S.Mizukami, T.Miyazaki, “*Tailoring of structural, electrical and magnetic properties of BaCo₂ W-type hexaferrites by doping with Zr-Mn binary mixtures for useful applications*”, **J. Magnetism & Magnetic Materials**, 323, 2137-2144 (2011).
66. M.N.Ashiq, M.F.Ehsan, M.J.Iqbal, I.H.Gul, “*Synthesis, structural and electrical characterization of Sb³⁺ substituted spinel nickel ferrite (NiSb_xFe_{2-x}O₄) nanoparticles by reverse miscle technique*”, **J. Alloys & Compounds**, 509, 5119-5126 (2011).
67. M.J. Iqbal, R.A. Khan, S.Takedab, S.Mizukamic, T.Miyazakic “*W-type hexaferrite nanoparticles: A Consideration for microwave attenuation at wide frequency band of 0.5 to 10 GHz*”, **Journal of Alloys and Compounds**, 509, 7618-7624 (2011).
68. M.J. Iqbal, R.A. Khan, S.Mizukami, T.Miyazaki, “*Mosbauer and magnetic study of Mn, Zr and Cd substituted W-type hexaferrites prepared by co-precipitation method*”, **Materials Research Bulletin**, 46, 1980-1985 (2011).
69. M.J.Iqbal, N.Yaqoob, B.Sepiol and B. Ismail, “*A study of influence of crystallite size on the electrical and magnetic properties of CuFe₂O₄*”, **Materials Research Bulletin**, 46, 1837-1842 (2011).
70. M.J.Iqbal, B.Ismail, C.Rentenberger and H.Ipser, “*Modification of the physical properties of semiconducting MgAl₂O₄ by doping with a binary mixture of Co and Zn ions*”, **Materials Research Bulletin**, 46, 2271-2277 (2011).
71. M.N. Ashiq, M.J. Iqbal, M.N.Haq, P.H.Gomez, A.M.Qureshi, “*Synthesis, magnetic and dielectric properties of Er–Ni doped Sr-hexaferrite nanomaterials for applications in high density recording media and microwave devices*”, **Journal of Magnetism and Magnetic Materials**, 324, 15–19 (2012).
72. M.J.Iqbal, Z. Ahmad, Y.Melikhov, J.C.Nlebedim, “*Effect of Cu-Cr co-substitution on magnetic properties of nanocrystalline magnesium ferrite*”, **Journal of Magnetism and Magnetic Materials**, 324, 1088-1094 (2012).
73. M.J.Iqbal, Z. Ahmad, T.Meydan, I.C.Nlebedim, “*Influence of Ni-Cr substitution on the magnetic and electric properties of magnesium ferrite nanmaterials*”, **Materials Research Bulletin**, 47, 344-351 (2012).
74. M.J.Iqbal, Z.Ahmad, Y.Melikhov, I.C.Nlebdim, “*Physical, electrical and magnetic properties of nano-sized Co-Cr substituted magnesium ferrites*”, **J. Applied Physics**, 111, 033906 (2012).
75. M.J.Iqbal, R.A.Khan, S.Mizukami, T.Miyazaki, “*Mosbauer, magnetic and microwave absorption characteristics of substituted W-type hexaferrite nanoparticles*”, **Ceramic Internationals**, 38 (5), 4097–4103 (2012).

76. R.Mahmood and M.J.Iqbal, “*Synthesis and Characterization of Ga-Doped Bismuth Based Superconducting Materials*”, **World Applied Sciences Journal** 17 (11), 1510-1515 (2012).
77. R. Mahmood and M.J. Iqbal, “*Synthesis and characterization of (Thallium-Tin) doped Bismuth based superconducting materials*”, **Journal of Chemical Engineering and Materials Science**, 3(3), 30-37, (2012).
78. M.J.Iqbal, Z.Ahmad, Y.Melikhov, J.C.Nlebedim, “*Temperature and composition dependence of magnetic properties of Co-Cr co-substituted magnesium ferrite nanomaterialse*”, **Journal of Magnetism and Magnetic Materials**, 324, 3986–399 (2012).
79. M.J.Iqbal and S.Iqbal, “*Synthesis of stable and highly luminescent beryllium and magnesium doped ZnS quantum dots suitable for design of photonic and sensor material*”, **Journal of Luminescence**, 134,738-746 (2013).
80. M.N.Ashiq, M.F.Ehsan, M.J.Iqbal, M.Najam-ul-Haq, “*Role of Zr-Co Substitution at Iron Site on Structural, Magnetic and Electrical Sroperties of Sr-hexaferrites Nanomaterials Synthesized by the Sol-Gel Combustion Method*”, **Journal of Magnetism and Magnetic Materials**, 332, 93–97 (2013).
81. M.J.Iqbal and I. Haider, “*Impact of transition metal doping on Mossbauer, electrical and dielectric parameters of structurally modified lithium ferrite nanomaterials*”, **Materials Chemistry and Physics**, 140, 42-48 (2013).
82. R.Mahmood and M.J.Iqbal, “*Synthesis and Characterization of Thallium Containing Bismuth Based Superconducting Materials*”, **Asian Journal of Chemistry**, 27(10), 3826-3830 (2015).
83. S. Iqbal, R.A. Khan, M.J.Iqbal, M.Waqas, J.Nisar, F.Shah, A.R.Khan, “*Influence of Fe^{2+} and Ni^{2+} contents on the optical and electrical properties of ZnS quantum dots*”, **Journal of Material Science: Materials in Electronincs**, 28 (5), 4449-4457 (2017).

Papers Presented at Conferences

1. Oral presentation (M.J.Iqbal, M.S.Ansari and A.Ali) entitled, “*Viscometric Studies of Aqueous Mixtures of 1-Propanol with Added Electrolytes*”, 1st International Chemistry Conference, Punjab University, Lahore (1997).
2. Oral presentation (M.S.Ansari, M.J.Iqbal and S.Rana) entitled, “*Effect of Electrolytes on the Hydrophobic Intercations; A Viscometric Study of the System of 2-Propanol-Water-Alkali Metal Halides*”, 1st International Chemistry Conference, **Punjab University, Lahore** (1997).

3. Oral presentation (Q.M.Malik, S.S.Shah, M.J.Iqbal, B.Naseem and J.I.Uppal) entitled, “*Spectroscopic and Conducometric Study of Solubilization of Aromatic Acids in Anionic and Cationic Surfactants*”, 2nd International Chemistry Conference, **Peshawer University, Peshawar** (2001).
4. Oral presentation (M.J.Iqbal and Q.M.Malik) entitled, “*Effect of Temperature on the Viscosity of a Thick Black Liquor*”, 3rd International Chemistry Conference, **University of Sind, Jamshoro** (2002).
5. Oral presentation (M.J.Iqbal and F.Naz) entitled, “*Effect of Organic Solvents on the Volumetric Properties of Drug Compounds*”, 4th International Chemistry Conference, **Punjab University, Lahore** (2004).
6. Oral presentation (M.J.Iqbal and M.Siddiqah) entitled, “*Partial Molar Volume of Drug Compounds in Various Solvents*”, 4th International Chemistry Conference, **Punjab University, Lahore** (2004).
7. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, “*Synthesis and Characterization of Calcium Substituted Strontium Hexaferrite Nanoparticals*”, Minisymposium on Nanochemistry, **HEJ Research Institute of Chemistry, Karachi** (2006).
8. Oral presentation (M.J.Iqbal and M.N.Ashiq) “*Adsorption of Dyes from Aqueous Solutions on Activated Alumina*”, 6th International Chemistry Conference, **B.Z.U., Multan** (2006).
9. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, “*Thermodynamics of Adsorption of Dyes from Aqueous Solutions on Activated Charcoal*”, 6th International Chemistry Conference, **B.Z.U., Multan** (2006).
10. Oral presentation (M.I.Ghori, M.A.Malana, K.Y.Butt, A.Jamil and M.J.Iqbal) entitled, “*Kinetic Studies of – Glucosidase Produced from Aspergillus Niger NRRL 577*” 6th International Chemistry Conference, **B.Z.U., Multan** (2006).
11. Oral presentation (M.J.Iqbal and R. Mehmood) entitled, “*Synthesis of High- T_c Bi(2223) Phase at Different Temperatures and Different Heating Rates*”, 6th International Chemistry Conference, **B.Z.U., Multan** (2006).
12. Oral presentation (M.J.Iqbal and Q.M.Malik) entitled, “*Measurement of Density and Partial Molar Volume of Aspirin in Organic Media*” 7th International Chemistry Conference, **Gomal University, DI Khan** (2007).
13. Oral presentation (M.J.Iqbal and M.Siddiqah) entitled, “*Effect of Chromium Substitution on the Structural and Electrical Properties of Cobalt Ferrite*” 7th International Chemistry Conference, **Gomal University, DI Khan** (2007).
14. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, “*Physical and Magnetic Properties of Zr-Mn Substituted Strontium Hexaferrite Nanoparticles Synthesized by Coprecipitation Method*” 7th International Chemistry Conference, **Gomal University, DI Khan** (2007).
15. Oral presentation (M.J.Iqbal and Z.Ahmad) entitled, “*Synthesis and Characterization of Li-Manganate Nanomaterials Doped with Rare Earth Elements*”, Proc. 7th International Chemistry Conference, **Gomal University, DI Khan** (2007).
16. Oral presentation (M.J.Iqbal and R. Mehmood) entitled, “*Synthesis and Characterization of Thallium Doped Bismuth Based Superconducting Materials*”, Proc. 7th International Chemistry Conference, **Gomal University, DI Khan** (2007).

17. Oral presentation (M.J.Iqbal and M.N.Ashiq, P. Hernandez-Gomez and J.M.Mono) entitled, "*Effect of Annealing Temperature and Substitution Rate of Zr-Mn on the Magnetic Properties of Strontium Hexaferrite Nano-particles*", XIII Latin American Congress of Surface Science and its Applications (XIII CLACSA), **Santa Maria, Columbia**, Dec. (2007).
18. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, "*Effects of Annealing Temperature and Substitution of Zr-Cu on the Properties of Strontium Hexaferrite Nanoparticles*", Proc. 8th International Chemistry Conference, **Punjab University Lahore** (2008).
19. Oral presentation (M.J.Iqbal and Zahoor Ahmad) entitled, "*Properties of Substituted Lithium Manganate Nanoparticles*", Proc. 8th International Chemistry Conference, **Punjab University Lahore** (2008).
20. Oral presentation (M.J.Iqbal and Saima Farooq), "*Optimization of Synthesis Routes on the Structural, Electrical and Dielectrical Properties of Magnesium Aluminate Nanoparticles*", Proc. 8th International Chemistry Conference, **Punjab University Lahore** (2008).
21. Oral presentation (M.J.Iqbal) entitled, "*Synthesis and Characterization of Nano Spinel Ferrites*", Workshop on Nanoscience & Catalysis (NSC2008), **National Centre for Physics, Islamabad** (2008).
22. Oral presentation (M.J.Iqbal, M.N.Ashiq and P.H.Gomez) entitled, "*Effect of Annealing Temperature and Substitution Rate of Zr-Cu on the Magnetic Properties of Strontium Hexaferrite Nano-particles*", International Conference on Superconductivity and Magnetism (ICSM2008), University of Ankara, **Side, Turkey** (2008).
23. Poster presentation (M.J.Iqbal and M.R.Siddiquah, "*Magnetic and Electrical Properties of Cobalt Ferrites Improved by Doping with Zr-Mn for Application in Magnetic Recording Media and High Frequency Devices*", International Conference on Superconductivity and Magnetism (ICSM2008), University of Ankara, **Side, Turkey** (2008).
24. Poster presentation (P.H.Gomez, J.M.Mono, C.Torres, O.Alejos, C.Franccisco, M.N.Ashiq and M.J.Iqbal), "*Influence of Annealing Temperature and Doping Rate on the Magnetic Properties of Zr-Mn Substituted Sr Hexaferrite Nanoparticles*", International Conference on Magnetic Measurements (ICMM08), **University of Budapest, Hungary** (2008).
25. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, "*Suitability of Doped Strontium Hexaferrite Nanomaterials for Potential Applications in High Density Recording Media & Microwave Devices*", First NCP Scientific Spring (NCP2009), **National Centre for Physics, Islamabad** (2009).
26. Invited lecture (M.J.Iqbal) entitled, "*Atomic Structure and Chemical Bonding: Principles and Theories*", Invited Lecture, Department of Earth & Environmental Sciences, **Bahria University, Islamabad**, April 22 (2009).
27. Oral presentation (M.J.Iqbal and M.N.Ashiq) entitled, "*Effect of temperature and dopant substitution on electrical properties of strontium hexaferrite nanoparticles*", 11th International Symposium on Advanced Materials (ISAM-09)", **National Centre for Physics, Islamabad**, August 18 (2009).
28. National Seminar on "*Pharmaceutical Industry in 21st Century: Challenges & Threats*", **PCSIR, Lahore**, May 3 (2012). (Participated)
29. National Symposium on "*Frontier in Nanotechnology*", **National University of Science & Technology, NUST, Islamabad**, May 19 (2012). (Participated)

30. Oral presentation (M.J.Iqbal and B. Ismail) entitled, “*Quantum dots for low cost solar power generation*”, Symposium on Hydrogen & Fuel Cell (SHFC 2012), Department of Chemistry, **Quaid-i-Azam University, Islamabad**, July 10 (2012).
31. PAS-CAS Bi-national Conference on “*Nano Science & Technology*”, **Pakistan Academy of Sciences, Islamabad**, July 16 (2012). (Participated)
32. Oral presentation (M.J.Iqbal) entitled, “*Nanotechnology in Power Generation*” entitled, Refresher Course for College Teachers on “Nanoscience & Nanotechnology_Essential for Pakistan”, Preston Institute of Nano Science & Technology, **Preston University, Islamabad**, September 30 (2012).
33. Oral presentation (M.J.Iqbal) entitled, “*Nanotechnology in Medical Applications*”, Seminar for pharmaceutics on “Importance of Nanotechnology in Pharmaceuticals”, held at Preston Institute of Nano Science & Technology, **Preston University, Islamabad**, December 8 (2012).
34. International seminar on, “*Nanotechnology and Stakeholders in Pakistan*”, held at Preston Institute of Nanoscience & Technology (PINSAT), **Preston University, Islamabad**, 28th January, 2013. (Participated).
35. Invited lecture entitled, “*Nanotechnology its Applications & Education*”, delivered at **GCW Peshawar Road, Rawalpindi**, 14th March 2013.
36. Invited lecture entitled, “*Nanotechnology for Next Generation Solar Cell Design*”, delivered at Institute of Chemistry, **Bahauddin Zakarya University, Multan**, 17th May, 2013.
37. Oral presentation entitled, “*Nano-Education and Awareness of Nanotechnology in Pakistan*”, delivered at the regional meeting of International Development of Research, Canada (IDRC) held under Practical Action, **Colombo, Sri Lanka**, 27-38th May, 2013.
38. National Conference on “*Technology Foresight and Critical Issues Related to S&T in Pakistan*”, Pakistan Council of Science & Technology (PCST), Islamabad, held at **National University of Science & Technology (NUST), Islamabad** on 25-26 June 2013. (Participated)
39. Oral presentation entitled, “*Fabrication of Cheap Solar Cell Material*”, Conference on Frontiers of Nanoscience and Nanotechnology (CFNN2014), held at **Pakistan Institute of Nuclear Science & Technology (PISTECH), Islamabad**, on 3rd June 2014.
40. Oral presentation entitled, “*Does Particle Size Matter?*”, Conference on Frontiers of Nanoscience and Nanotechnology (CFNN2015), held at **Pakistan Institute of Nuclear Science & Technology (PISTECH), Nilore, Islamabad**, on 8-10th September 2015.
41. Invited lecture entitled, “*What’s So Special About Nanotechnology?*”, delivered at Institute of Chemical Sciences, **Bahauddin Zakarya University, Multan**, 6th September, 2016.
42. Invited lecture entitled, “*Nanoliteracy: Key to sustainable development?*”, delivered at Institute of Chemical Sciences, **Bahauddin Zakarya University, Multan**, 27th February, 2017.

Research Supervision

Summery

• Post Doctoral Research Supervised:	1
• PhD Research Supervised:	10
• M.Phil Research Supervised:	28
• Publications	83
• Papers Presented at Conferences:	50
• Total Impact Points (ISI):	151.88
• Citations:	2114
• H-Index:	25

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