

Dr. Muhammad Naeem Ashiq

- Mobile: +92 300 9879344 email: naeemashiqgau@yahoo.com, naeembzu@bzu.edu.pk
- Professor, Institute of Chemical Sciences, Bahauddin Zakariya University Multan, Pakistan.



Employment Record

S. No.	Post	Date		Institution
		From	To	
01	M.Phil. (Research)	Feb, 2003	April, 2004	Department of Chemistry, Quaid-i-azam University, Islamabad
02	Quality control Analyst	15-06-2004	09-01-2005	Shaigan Pharmaceuticals PVT LTD
03	PhD.	10-01-2005	23-01-2008	Department of Chemistry, Quaid-i-azam University, Islamabad
04	Lecturer	24-01-2008	01-11-2009	Department of Chemistry, Bahauddin Zakariya University, Multan
05	Assistant Professor	02-11-2009	27-12-2014	Department of Chemistry, Bahauddin Zakariya University, Multan
06	Associate Professor	28-12-2014	27-01-2021	Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
07	Professor	28-01-2021	Till date	Institute of Chemical Sciences, Bahauddin Zakariya University, Multan

ACADEMICS

April, 2012-Dec.2012 Post Doctorate (Nanomaterials) National Center for Nanoscience and Technology, Beijing, China

2005-2008 Ph.D. (Chemistry) Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

2002-2004 M. Phil (Physical Chemistry)
Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

1998-2000 M. Sc. (Chemistry)
Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan.

1996-1998 B.Sc. (Chemistry, Zoology, Botany, English)
Govt. College, Muzaffargarh

1994-1996 F. Sc. **HSSC** (Pre-Medical)
B. I. S. E. D. G. Khan

1992-1994 Matriculation **SSC** (Science)
B. I. S. E. D. G. Khan

Research Interest: Development of Photocatalyst for the photoreduction of CO₂, Water splitting and photodegradation of organic pollutants.

Synthesis of photocatalysts, Synthesis of magnetic nanomaterials (electrical, dielectric and magnetic properties of the nanomaterials)

Surface Chemistry (Development of new adsorbents, removal of hazardous materials by adsorption process)

Supercapacitors, Fuel Cells, Electrochemical water Splitting

M.Sc Thesis Topic:

Kinetic study of alkaline hydrolysis of 2'-chloro, 3'-fluoro, 3-phenyl isocoumarin

M.phil Thesis Topic:

Adsorption studies of various dyes from aqueous solution on activated carbon and alumina

PhD Thesis Topic:

Physical, electrical and magnetic properties of Sr-hexaferrite nanomaterials doped with binary mixture of various metal ions.

Post Doc Topic:

Synthesis of Novel nanomaterials and related applications in environment and energy

Current Position

Working as an Associate Professor of Physical chemistry, Institute of Chemical Sciences, Bahauddin Zakariya University Multan, Pakistan

Administrative duties performed

1. Member of the seminar committee, Institute of Chemical Sciences, B. Z. U. Multan
2. Incharge examination, Institute of Chemical Sciences, B. Z. U. Multan

3. Secretary/Member of the Board of Studies in Chemistry, Institute of Chemical Sciences, B. Z. U. Multan
4. Member of Purchase Committee, Institute of Chemical Sciences, B. Z. U. Multan
5. Member of the Board of Studies in Chemistry, Department of Chemistry, University of Okara, Okara
6. Superintendent Umar Hall, Bahauddin Zakariya University, Multan (2019-2021)
7. Member of the discipline committee, Institute of Chemical Sciences, B. Z. U. Multan.
8. Secretary examination committee, Institute of Chemical Sciences, B. Z. U. Multan.
9. Secretary/Member of the Purchase/Maintenance research Instrument, Institute of Chemical Sciences, B. Z. U. Multan.
10. Member, Board of Faculty of Science, B. Z. U. Multan

PUBLICATIONS

Year 2007

1. *M. Javed Iqbal and M. Naeem Ashiq, P. Hernandez-Gomez, J. M. Munoz*, Magnetic, physical and electrical properties of Zr-Ni substituted co-precipitated strontium hexaferrite nanoparticles, *Scripta Materialia* 57 (2007), 1093-1096.
2. *M. Javed Iqbal and M. Naeem Ashiq*, comparative studies of $\text{SrZr}_x\text{Mn}_x\text{Fe}_{12-2x}\text{O}_{19}$ nanoparticles synthesized by co-precipitation and sol-gel combustion method, *Scripta Materialia* 56 (2007), 145-148.
3. *M. Javed Iqbal and M. Naeem Ashiq*, Adsorption of dyes from aqueous solutions on activated charcoal, *Journal of Hazardous Materials B* 139 (2007) 57-66.

Year 2008

4. *M. Javed Iqbal and M. Naeem Ashiq*, Physical and electrical properties of Zr-Cu substituted strontium hexaferrite nanoparticles synthesized by co-precipitation method, *Chemical Engineering Journal* 136 (2008) 383-389.
5. *M. Javed Iqbal and M. Naeem Ashiq, P. Hernandez-Gomez, J. M. Munoz*, Synthesis, physical, magnetic and electrical properties of Al-Ga substituted co-precipitated nanocrystalline strontium hexaferrite, *Journal of Magnetism and magnetic materials*, 320 (2008) 881-886.

Year 2009

6. *M. Javed Iqbal and M. Naeem Ashiq, P. Hernandez-Gomez*, Effect of Zr-Zn binary mixture on the magnetic, electrical and dielectric properties of Sr-hexaferrite nanomaterials, *J. Alloy Compd.* 478 (2009) 736-740.

7. *M. Javed Iqbal and M. Naeem Ashiq, P. Hernandez-Gomez*, Effect of annealing temperature and substitution of Zr-Cu on the magnetic properties of strontium hexaferrite nanoparticles, *J. Phys: conference series* 153 (2009) 012053.
8. *M. Naeem Ashiq, Shazia Saleem, M. A. Malana, A. Rehman*, Physical, electrical and magnetic properties of nanocrystalline Zr-Ni doped Mn-ferrites synthesized by the co-precipitation method, *J. Alloy Compd.* 486 (2009) 640-644.
9. *M. Naeem Ashiq, M. Javed Iqbal, I. H. Gul*, Structural, magnetic and dielectric properties of Zr-Cd substituted Sr-hexaferrite ($\text{SrFe}_{12}\text{O}_{19}$) nanoparticles, *Journal of alloy and compounds* 487 (2009) 341-345.

Year 2010

10. *M. Naeem Ashiq, Nasreen Bibi, M. A. Malana*, Effect of Sn-Ni substitution on the structural, electrical and magnetic properties of mixed spinel ferrites, *J. Alloys and compounds* 490 (2010) 594-597
11. *M. Naeem Ashiq, M. Javed Iqbal, I. H. Gul*, Physical, electrical and dielectric properties of Ca-doped Sr-hexaferrite ($\text{SrFe}_{12}\text{O}_{19}$) nanoparticles synthesized by co-precipitation method, *J. Magn. Mater.* 322 (2010) 1720-1726
12. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez, Jose Maria Munoz, Carlos Torres Cabrera*, Influence of annealing temperature and doping rate on the magnetic properties of Zr-Mn substituted Sr-hexaferrite nanoparticles, *J. alloys and compounds* 500 (2010) 113-116
13. *Muhammad Javed Iqbal and M. Naeem Ashiq*, Thermodynamics and kinetics of adsorption of dyes from aqueous media onto alumina, *J. Chem. Soc. Pak.* 32 (2010) 419-427
14. *M. A. Malana, Sana Ijaz and M. Naeem Ashiq*, Removal of Various dyes from Aqueous Media onto Polymeric Gels by Adsorption Process: Their Kinetics and Thermodynamics, *Desalination* 263 (2010) 249-257
15. *I. H. Gul, A. Maqsood, M. Naeem and M. Naeem Ashiq*, Optical, Magnetic and Electrical Investigation of cobalt ferrite nanoparticles Synthesized by co-precipitation route, *J. Alloys and Compounds*, 507 (2010) 201-206.

Year 2011

16. *M. Naeem Ashiq, M. Javed Iqbal and Iftikhar Hussain Gul*, Effect of Al-Cr doping on the structural, magnetic and dielectric properties of strontium hexaferrite nanomaterials, *J. Magn. Mater.* 323 (2011) 259-263.
17. *Javed Ahmad, M. Qadeer Awan, M. Ehsan Mazhar, M. Naeem Ashiq*, Effect of substitution of Co^{2+} ions on the structural and electrical properties of nanosized magnesium aluminate, *Physica B: condensed matter* 406 (2011) 254-258.
18. *Hafiz Badaruddin Ahmad, Muhammad Aleem, Tahir Anwar, M. Naeem Ashiq and Muhammad Yousaf*, Comparative studies for the adsorption studies of Remazol Blue on Rice Husk, Saw Dust and Charcoal, *J. Chem. Soc. Pak.* 33 (2011) 449-453.

19. **M. Naeem Ashiq**, M. Fahad Ehsan, M. J. Iqbal and I. H. Gul, Synthesis, Structural and Electrical characterization of Sb^{3+} Substituted Spinel Nickel Ferrite ($\text{NiSb}_x\text{Fe}_{2-x}\text{O}_4$) Nanoparticles by Reverse Micelle Technique, J. Alloys and Compounds, 509 (2011) 5119-5126.
20. *Imran Khan, Imran Sadiq, M. Naeem Ashiq and Mazhar U Rana*, Role of Ce–Mn substitution on structural, electrical and magnetic properties of W-type strontium hexaferrites, J. Alloys and Compounds 509 (2011) 8042-8046.
21. *Javed Ahmad, Muhammad Ehsan Mazhar, Muhammad Qadeer Awan, and Muhammad Naeem Ashiq*, Effect of substitution of K^+ ions on the structural and electrical properties of nanocrystalline MgAl_2O_4 spinel oxide, Physica B: Condensed Matter 406 (2011) 3484-3488.
22. *M. Aslam Malana, Raheela Beenish Qureshi and Muhammad Naeem Ashiq*, Adsorption Studies of Arsenic on Nano Aluminium Doped Manganese Copper Ferrite Polymer (MA, VA, AA) Composite: Kinetics and Mechanism, Chemical Engineering Journal, 172 (2011) 721-727.

Year 2012

23. **M. Naeem 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 (2012) 15-19
24. M. Najam-ul-Haq, M. Rainer, C. W. Huck, **M. N. Ashiq** and G. K. Bonn, Chemically modified diamond-like carbon (DLC) for protein enrichment and profiling by MALDI-MS, Amino Acids, 43 (2012) 823-831
25. *Mukhtar Ahmad, Ihsan Ali, Faiza Aen, M.U. Islam, M. Naeem Ashiq, Shabbar Atiq, Waheed Ahmad, M.U. Rana*, Effect of sintering temperature on magnetic and electrical properties of nano-sized Co_2W hexaferrites, Ceramic International 38 (2012) 1267-1273
26. *Imran Khan, M. Naeem Ashiq, Imran sadiq, Ashfaq Mahmood Qureshi, M. U. Rana*, Effect of Ce substitution on structural and electrical properties of W-type strontium hexaferrites nanomaterials, J. Chem. Soc. Pak 34 (2012) 579-583
27. **M. Naeem Ashiq**, *Fakhar Jahan, M. Fahad Ehsan, M. Aslam Malana, M. Najam-ul-Haq, Ashfaq Mahmood Qureshi*, Effect of Ce-Co substitution on the structural, electrical and dielectric properties of Mn spinel nano-ferrites, J. Chem. Soc. Pak. 34 (2012) 1609-1614.
28. **M. Naeem Ashiq**, *F. Naz, M. Aslam Malana, R. S. Gohar, Z. Ahmad*, Role of Co-Cr substitution on the structural, electrical and magnetic properties of nickel nano-ferrites synthesized by the chemical coprecipitation method, Materials Research Bulletin 47 (2012) 683-686
29. *Irshad Ali, M.U. Islam, M. Ishaque, Hasan M. Khan, Muhammad Naeem Ashiq, M.U. Rana*, Structural and magnetic properties of holmium substituted cobalt ferrites synthesized by chemical co-precipitation method, J. Magn. Magn. Mater. 324 (2012) 3773-3777

30. **M. Naeem Ashiq**, M. N. Haq, T. Amanat, A. Saba, A. M. Qureshi, M. Nadeem, Removal of methylene blue from aqueous solution using acid/base treated rice husk as an adsorbent, Desalination and water Treatment, 49 (2012) 376-383
31. Azhar Mahmood, Muhammad Farooq Warsi, **Muhammad Naeem Ashiq**, Muhammad Sher, Improvements in electrical and dielectric properties of substituted multiferroic LaMnO_3 based nanostructures synthesized by co-precipitation method, Materials Research Bulletin 47 (2012) 4197-4202

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32. Azhar Mahmood, Muhammad Farooq Warsi, **Muhammad Naeem Ashiq**, Muhammad Ishaq, Substitution of La and Fe with Dy and Mn in multiferroic $\text{La}_{1-x}\text{Dy}_x\text{Fe}_{1-y}\text{Mn}_y\text{O}_3$ nanocrystallites, J. Magn. Magn. Mater. 327 (2013) 64-70
33. Ihsan Ali, M.U. Islam, M.S. Awan, Mukhtar Ahmad, **Muhammad Naeem Ashiq**, Shahzad Naseem, Effect of Tb^{3+} substitution on the structural and magnetic properties of M-type hexaferrites synthesized by sol-gel auto-combustion technique, J. Alloy Compd. 550 (2013) 564-572.
34. Irshad ali, Abdul Shakoor, M.U. Islam, Muhammad Saeed, **M. Naeem Ashiq**, M. S. Awan, Synthesis and characterization of hexagonal ferrite $\text{Co}_2\text{Sr}_2\text{Fe}_{12}\text{O}_{22}$ with Doped Polypyrrole composites, Current Applied Physics 13 (2013) 1090-1095
35. **M. Naeem Ashiq**, Muhammad Fahad Ehsan, Muhammad Javed Iqbal and Muhammad Najam-ul-Haq, Role of Zr-Co substitution at iron site on structural, magnetic and electrical properties of Sr-hexaferrites synthesized nanomaterials by the sol-gel Combustion method, J. Magn. Magn. Mater. 322 (2013) 93-97
36. Dilshad Hussain, Muhammad Najam-ul-Haq, Fahmida Jabeen, **Muhammad Naeem Ashiq**, Muhammad Athar, Matthias Rainer, Christian W Huck, Guenther K Bonn, Functionalized Diamond Nanopowder for Phosphopeptides Enrichment from Complex Biological Fluids, Analytica Chimica Acta 775 (2013) 75-84
37. Imran Sadiq, Imran Khan, Evgeny V. Rebrov, **Muhammad Naeem Ashiq**, Shahzad Naseem, M.U. Rana, Structural, infrared, magnetic and microwave absorption properties of rare earth doped x-type hexagonal nanoferrites, J. Alloy Compd. 570 (2013) 7-13.
38. Batool Fatima, Muhammad Najam-ul-Haq, Fahmida Jabeen, Saadat Majeed, Muhammad N Ashiq, Syed Ghulam Musharraf, Muhammad Aslam Shad and Guobao Xu, Ceria-bases nanocomposites in enrichment and identification of phosphopeptides, Analyst, 138 (2013) 5059-5067
39. M. Asif Iqbal, Misbah-ul Islam, **Muhammad Naeem Ashiq**, Irshad Ali, Aisha Iftikhar, Hasan M. Khan, Effect of Gd-substitution on Physical and Magnetic Properties of $\text{Li}_{1.2}\text{Mg}_{0.4}\text{Gd}_x\text{Fe}_{(2-x)}\text{O}_4$ Ferrites, J. Alloy Compd. 579 (2013) 181-186
40. Muhammad Shahid, Ayman Nafady, Imran Shakir, Usman Ali Rana, Mansoor Sarfraz, Muhammad Farooq Warsi, Rafaqat Hussain, **Muhammad Naeem Ashiq**, Copper vanadate

nanowires based MIS capacitors: Synthesis, characterization and their electrical charge storage applications, Journal of Nanoparticle Research, 15 (2013) 1826-1831

41. Irshad Ali, M.U. Islam, **Muhammad Naeem Ashiq**, M. Asif Iqbal, Hasan M. Khan, Nazia Karamat, Effect of Tb–Mn substitution on DC and AC conductivity of Y-type hexagonal ferrite, J. Alloys & Compd. 579 (2013) 576-582
42. Azhar Mahmood, Mubashar Nadeem, Bushra Bashir, Imran Shakir, **Muhammad Naeem Ashiq**, Muhammad Ishaq, Abdul Jabbar, Riffat Parveen, Muhammad Shahid, Muhammad Farooq Warsi, Synthesis, characterization and studies of various structural, physical, magnetic, electrical and dielectric parameters for $\text{La}_{1-x}\text{Dy}_x\text{Ni}_{1-y}\text{Mn}_y\text{O}_3$ nanoparticles, Journal of Magnetism and Magnetic Materials 348 (2013) 82-87
43. Muhammad Aslam Malana, Raheela Beenish Qureshi, **Muhammad Naeem Ashiq**, Zafar Iqbal Zafar, Synthesis, Electrical and Dielectric Characterization of Cerium Doped Nano Copper Ferrites, Materials Research Bulletin, 48 (2013) 4775-4779

Year 2014

44. Irshad Ali, M. U. Islam, **Muhammad Naeem Ashiq**, Hassan M. Khan, M. Asif Iqbal, M. Najam-ul-Haq, Effect of Eu-Ni substitution on electrical and dielectric properties of Co-Sr-Y-type hexagonal ferrite, Materials Research Bulletin, 49 (2014) 338-344.
45. Imran Sadiq, Irshad Ali, Evgeny V. Rebrov, Shahzad Naseem, **M. Naeem Ashiq**, M.U.Rana, Influence of Nd-Co substitution on structural, electrical and dielectric properties of x-type hexagonal nanoferrites, Journal of Materials Engineering and Performance, 23 (2014) 622-627.
46. Aneela Sultan, Azhar Mahmood, Nazia K. Goraya, Ashfaq M. Qureshi, Iqbal Ahmad, **Muhammad N. Ashiq**, Imran Shakir, Muhammad F. Warsi, New nanoparticulate $\text{Gd}_{1-x}\text{Zr}_x\text{Fe}_{1-y}\text{Mn}_y\text{O}_3$ multiferroics: Synthesis, characterization and evaluation of electrical, dielectric and magnetic parameters, J. Alloys and Compd. 585 (2014) 790-794
47. Hasan M. Khan, M.U. Islam, Yongbing Xu, **Muhammad Naeem Ashiq**, Irshad Ali, M. Asif Iqbal, Muhammad Ishaque, Structural and Magnetic Properties of Pr-Ni Substituted $\text{Ca}_{0.5}\text{Ba}_{0.5}\text{Fe}_{12}\text{O}_{19}$ Hexa-ferrite Nanoparticles, Ceramic International 40 (2014) 6487-6493
48. Bashir Ahmad, Azhar Mahmood, **Muhammad Naeem Ashiq**, Muhammad Aslam Malana, Muhammad Najam-Ul-Haq, Muhammad Fahad Ehsan, Muhammad Farooq Warsi, Imran Shakir, New multiferroics $\text{BiFe}_{1-2x}\text{Al}_x\text{Mn}_x\text{O}_3$ nanoparticles: Synthesis and evaluation of various structural, physical, electrical, dielectric and magnetic parameters, J. Alloys and Compounds, 590 (2014) 193-198.
49. Nazia Karamat, **Muhammad Naeem Ashiq**, Muhammad Najam-ul-Haq, Irshad Ali, M. Asif Iqbal, Muhammad Irfan, Yasir Abbas, Muhammad Athar, Investigation of structural and electrical properties of Vanadium substituted disordered pyrochlore-type $\text{Ho}_{2-x}\text{V}_x\text{Zr}_2\text{O}_7$ nanostructure, J. Alloys and Compounds 593 (2014) 117-122

50. Irshad Ali, M.U. Islam, Muhammad Naeem **Ashiq**, M. Asif Iqbal, Nazia karamat, M.S. Awan, Shahzad Naseem, Role of Tb-Mn substitution on the Magnetic properties of Y-type Hexaferrites, *Alloys and Compounds* 599 (2014) 131-138
51. Muhammad Najam-ul-Haq, Adeela Saeed, Fahmida Jabeen, Fernando Maya, **Muhammad Naeem Ashiq**, Ahsan Sharif, Newly Developed Poly(Allyl Glycidyl Ether/Divinyl Benzene) Polymer for Phosphopeptides Enrichment and Desalting of Biofluids, *ACS Applied Materials and Interfaces*, 6 (2014) 3536-3545
52. Irshad Ali, M. U. Islam, **Muhammad Naeem Ashiq**, M. Asif Iqbal, Hasan M Khan, G. Murtaza, Role of Grain boundaries in the conduction of Eu-Ni substituted Y-type Hexaferrites, *J. Magn. Magn. Materials* 362 (2014) 115-121
53. Sajeela Shakoor, **Muhammad Naeem Ashiq**, Muhammad aslam Malana, Azhar Mahmood, Muhammad Farooq Warsi, Muhammad Najam-ul-Hqa, Nazia Karamat, Electrical, dielectric and magnetic characterization of Bi-Cr substituted M-type strontium hexaferrite nanomaterials, *J. Magn. Magn. Materials* 362 (2014) 110-114
54. Imran Sadiq, Irshad Ali, Evgeny Rebrov, Shahzad Naseem, **M. Naeem Ashiq**, M.U. Rana, Nanosized Ce-Zn substituted microwave absorber material for X-band applications, *J. Magn. Magn. Mater.* 370 (2014) 25-31
55. Muhammad Asim Farid, Muhammad Adnan Asghar, **Muhammad Naeem Ashiq**, Muhammad Fahad Ehsan, Muhammad Athar, Hydrothermal synthesis of doped lanthanum zirconate nanomaterials and the effect of V-Ge substitution on their structural, electrical and dielectric properties, *Material Research Bulletin*, 59 (2014) 405-410
56. **Muhammad Naeem Ashiq**, Raheela Beenish Qureshi, Muhammad Aslam Malana, Muhammad Fahad Ehsan, Synthesis, Structural, Magnetic and Dielectric Properties of Zirconium Copper doped M-type Calcium Strontium Hexaferrites, *J. Alloy Compd.* 617 (2014) 437-443
57. Irshad Ali, Nasira Shaheen, M.U. Islam, Muhammad Irfan, **Muhammad Naeem Ashiq**, M. Asif Iqbal, Aisha Iftikhar, Study of electrical and dielectric behavior of Tb⁺³substituted Y-type hexagonal ferrite, *J. Alloy Compd.* 617 (2014) 863-868
58. Muhammad Shuaib Khan, **Muhammad Naeem Ashiq**, Muhammad Fahad Ehsan, Tao He, Sana Ijaz, Controlled synthesis of cobalt telluride superstructures for the visible light photo-conversion of carbon dioxide into methane, *Applied Catalysis A: General* 487 (2014) 202-209
59. Muhammad Fahad Ehsan, **Muhammad N Ashiq**, Feng Bi, Yiqing Bi, Sivakumar Palanisamy and Tao He, Preparation and Characterization of SrTiO₃-ZnTe nanocomposite for visible-light photoconversion of carbon dioxide into methane, *RSC Advances*, 4 (2014) 48411-48418

60. A. Hakeem, A. Shakoor, M. Irfan, I. Ali, M. A. Khan, **M. Naeem Ashiq**, M. Ishaq, A. Aziz, Synthesis and Electrical Properties of doped polypyrrole with hexagonal ferrite, Journal of Ovonic Research, 10 (2014) 149-156

Year 2015

61. **Muhammad Naeem Ashiq**, Sajeela Shakoor, Muhammad Najam-ul-Haq, Muhammad Farooq Warsi, Irshad Ali, Imran Shakir, Structural, electrical, dielectric and magnetic properties of Gd-Sn substituted Sr-hexaferrite synthesized by sol-gel combustion method, J. Magn. Magn. Mater. 374 (2015) 110-114
62. M. N. Haq, A. Saeed, F. Jabeen, D. Hussain, N. Khan, M. Shabir, N. Raza, **Muhammad Naeem Ashiq**, M. A. Malana, Z. I. Zafar, Development of new multifunctional terpolymer sorbent for proteomics applications, Biomedical Chromatography, 29 (2015) 981-989.
63. Nazia Parveen, Afzal Shah, Shahan Zeb Khan, Salah Ud-Din Khan, Usman Ali Rana, Farkhondeh Fathi, Aamir Hassan Shah, **Muhammad Naeem Ashiq**, Abdur Rauf, Rumana Qureshi, Zia-ur Rehman, Heinz-Bernhard Kraatz, Journal of the Electrochemical Society, 162 (2015) H32-H39.
64. Muhammad Fahad Ehsan, **Muhammad Naeem Ashiq** and Tao He, Hollow and mesoporous ZnTe microspheres: synthesis and visible-light photocatalytic reduction of carbon dioxide into methane, RSC Advances, 5 (2015) 6186-6194.
65. Irshad Ali, M.U.Islam, **Muhammad Naeem Ashiq**, Imran sadiq, M. Azhar Khan, Nazia Karamat, M. Ishaque, G. Murtaza, Imran Shakir and Zahoor Ahmad, Electrical behavior of Tb-Mn substituted Y- type hexa-ferrites for high frequency applications, Journal of Electronic Materials, 44 (2015) 1054-1061
66. Farhana Kousar, Sidra Nazim, Muhammad Farooq Warsi, Muhammad Azhar Khan, **Muhammad Naeem Ashiq**, Zaheer Abbas Gilani, Imran Shakir, Abdul Wadood, $\text{La}_{1-x}\text{Eu}_x\text{FeO}_3$ nanoparticles: fabrication via microemulsion route for high frequency devices applications, J. Alloys and compounds, 629 (2015) 315-318
67. Asad Ullah, Abdur Rauf, Usman Ali Rana, Rumana Qureshi, Muhammad Naeem Ashiq, Hidayat Hussain, Heinz-Bernhard Kraatz, Amin Badshah and Afzal Shah, pH Dependent Electrochemistry of Anthracenediones at a Glassy Carbon Electrode, Journal of the Electrochemical Society, 162 (2015) H157-H163.
68. Aamir Hassan Shah, Waqar Zaid, Afzal Shah, Usman Ali Rana, Hidayat Hussain, Muhammad Naeem Ashiq, Rumana Qureshi, Amin Badshah, Muhammad Abid Zia and Heinz-Bernhard Kraatz, pH Dependent Electrochemical Characterization, Computational Studies and Evaluation of Thermodynamic, Kinetic and Analytical Parameters of Two Phenazines, Journal of the Electrochemical Society, 162 (2015) H115-H123.

69. Irshad Ali, M.U. Islam, Imran sadiq, Nazia Karamat, Aisha Iftikhar, M. Azhar khan, Afzal Shah, Muhammad Athar, Imran Shakir, **Muhammad Naeem Ashiq**, Synthesis and magnetic properties of (EU–Ni) substituted Y-type hexaferrite by Surfactant assisted co-precipitation method, *J. Magn. Magn. Mater.* 385 (2015) 386-393
70. Imran Sadiq, Imran Khan, Evgeny Rebrov, **Muhammad Naeem Ashiq**, Shahzad Naseem, Imram Shakir and Mazhar ud Din Rana, Influence of Sm-Mn substitution on structural, dielectric and electrical properties of x-type hexagonal nanoferrites, *J. Chem. Soc. Pak.* 37 (2015) 33-38
71. Dilshad Husaain, Muhammad Najam-ul-Haq, Adeela Saeed, Fahmida Jabeen, Muhammad Athar and **Muhammad Naeem Ashiq**, Synthesis of Poly GMA/DVB and its Application for the Removal of Malachite Green from Aqueous Medium by Adsorption Process, *Desalination and Water Treatment* 53 (2015) 2518-2528
72. Imran Sadiq, Shahzad Naseem, M.U. Rana, **Muhammad Naeem Ashiq**, Irshad Ali, Temperature dependent magnetic and microwave absorption properties of doubly substituted nanosized material, *J. Magn. Magn. Mater.* 385 (2015) 236-242.
73. Irshad Ali, M.U. Islam, **Muhammad Naeem Ashiq**, Imran Shakir, Nazia Karamat, M. Ishaque, Majid Niaz Akhtar, Hasan M. Khan, Muhammad Irfan, Muhammad Azhar Khan, Investigation of the magnetic properties of nanometric SrSmCoNi ferrite/PST matrix, *Ceramic International*, 41 (2015) 8748-8754.
74. Latif-ur-Rehman, Afzal Shah, Sher Bahadar Khan, Abdullah M. Asiri, Hidayat Hussain, Changseok Han, Rumana Qureshi, Muhammad Naeem Ashiq, Muhammad Abid Zia, Muhammad Ishaq, Synthesis, characterization, and application of Au–Ag alloy nanoparticles for the sensing of an environmental toxin, pyrene, *Journal of Applied Electrochemistry*, 45 (2015) 463-472
75. Raheela Beenish Qureshi, Muhammad Aslam Malana, Muhammad Naeem Ashiq, Muhammad Saleem Khan, Structural, thermal and rheological studies of nanocalcium–strontium hexaferrite/polyacrylic acid composites, *Iranian Polymer Journal*, 24 (2015) 411-423
76. Tooba Khursheed, M.U. Islam, M. Asif Iqbal, Irshad Ali, Abdul Shakoor, M.S Awan, Aisha Iftikhar, Muhammad Azhar Khan, **Muhammad Naeem Ashiq**, Synthesis and Characterization of Polyaniline-Hexaferrite Composites, *J. Magn. Magn. Mater.* 393 (2015) 8-14
77. Imran Sadiq, Shahzad Naseem, **Muhammad Naeem Ashiq**, M. Asif Iqbal, Irshad Ali, M.A. Khan, Shanawar Niaz, M.U. Rana, Spin Canting effect and microwave absorption properties of Sm-Mn substituted nanosized materials, *J. Magn. Magn. Mater.* 395 (2015) 159-165
78. Irshad Ali, M.U. Islam, **Muhammad Naeem Ashiq**, M. Asif Iqbal, Nazia Karamat, M. Azhar khan, Imran sadiq, Sana ijaz, Imran Shakir, Synthesis and characterization of hexagonal ferrite $\text{Sr}_{1.8}\text{Sm}_{0.2}\text{Co}_2\text{Ni}_{1.50}\text{Fe}_{10.50}\text{O}_{22}$ /PST thin films for High frequency application , *J. Magn. Magn. Mater.* 393 (2015) 352-356.

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BOOK CHAPTER PUBLISHED

1. Bashir, N.; Ashraf, S.; Rashid, N.; Naqvi, S. T. R.; Majeed, S.; Murtaza, G.; **Ashiq, M. N.**; Najam-ul-Haq, M. Chapter 21; Drugs Resistance Management in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
2. Jabeen, F.; Sajid, M. S.; Saeed, A.; Fatima, B.; Hussain, D.; Majeed, S.; **Ashiq, M. N.**; Najam-ul-Haq, M. Chapter 14; Drugs Resistance and Treatment Failure in HIV and / or AIDS in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
3. Rashid, N.; Hussain, D.; Ashraf, S.; Bashir, N.; Majeed, S.; **Ashiq, M. N.**; Najam-ul-Haq, M. Chapter 10; Drug Resistance in Kidney Diseases in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
4. Sajid, M. S.; Saleem, S.; Jabeen, F.; Fatima, B.; Saeed, A.; Hussain, D.; Majeed, S.; **Ashiq, M. N.**; Najam-ul-Haq, M. Chapter 8; Drugs Resistance in Lungs Diseases in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
5. Ashraf, S.; Bashir, N.; Rashid, N.; Chughtai, A. H.; Zia, K. M.; Majeed, S.; **Ashiq, M. N.**; Murtaza, G.; Najam-ul-Haq, M. Chapter 1; Introduction to Drugs, Drug Targets and Drug Resistance in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
6. **Muhammad N Ashiq**, Sumaira Manzoor, Abdul G Abid, Muhammad Najam-Ul-Haq, Nanotechnology for Environmental Remediation, 2022, 265-282, Wiley-VCH GmbH
7. Maira Sadaqat, Hassina Tabassum, Qiu Tianjie, Asif Mahmood, Laraib Nisar, **Muhammad Naeem Ashiq**, Metal Oxide-Carbon Hybrid Materials: Synthesis,

Properties and Applications, Hierarchical porous carbon-incorporated metal-based, 2022, Elsevier, 179.

8. Saadat Majeed, Sayed Tayyab Raza Naqvi, Muhammad Najam ul Haq, **Muhammad Naeem Ashiq**, Electroanalytical techniques in biosciences: conductometry, coulometry, voltammetry, and electrochemical sensors, Analytical Techniques in Biosciences, 2022, Academic Press, 157-178.

PRESENTATIONS

1. *M. Javed Iqbal and M. Naeem Ashiq*, Thermodynamics of Adsorption of Dyes from Aqueous Solutions on Activated Charcoal (**Oral presentation**), 6th International and 16th National Chemistry Conference April 06-08, 2006, held at Department of Chemistry, Bahauddin Zakariya University, Multan.
2. *M. Javed Iqbal and M. Naeem Ashiq*, Adsorption of Dyes from Aqueous Solutions on Activated Alumina (**poster presentation**), 6th International and 16th National Chemistry Conference April 06-08, 2006, held at Department of Chemistry, Bahauddin Zakariya University, Multan.
3. *M. Javed Iqbal and M. Naeem Ashiq*, Synthesis and Characterization of Calcium Substituted Hexaferrite Nanoparticles (**Oral presentation**), “Mini Symposium on Nanochemistry” 8-9th January 2006, held at International Center of Chemical Sciences University of Karachi, Karachi.
4. *M. Javed Iqbal, M. Naeem Ashiq*, Synthesis and Characterization of Zr-Mn substituted strontium hexaferrite nanoparticles (**Oral presentation**), 7th international and 17th national chemistry conference Feb 26-28, 2007, held at department of chemistry, Gomal University D. I. Khan.
5. “Hexaferrite Nanoparticles: Synthesis and its Applications” (**seminar**), University of Valladolid, Spain, May 14th 2007.
6. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez, J. M. Munoz*, Effect of annealing temperature and substitution rate of Zr-Mn on the magnetic properties of strontium hexaferrite nanoparticles (**poster presentation**), XIII Latin American Congress of Surface Science and its Applications. CLACSA XIII, December 01-03, 2007, Santa Marta, Colombia.
7. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez*, Effects of annealing temperature and substitution of Zr-Cu on the properties of strontium hexaferrite nanoparticles (**Oral presentation**), 18th National Chemistry Conference Feb. 25-27, 2008, held at institute of chemistry, university of the Punjab, Lahore.
8. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez*, Effect of annealing temperature and substitution of Zr-Cu on magnetic properties of strontium hexaferrite nanoparticles (**Oral presentation**), International Conference on Superconductivity and Magnetism, ICSM-2008, August 25-29, 2008, Side Antalya, Turkey.
9. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez, J. M. Munoz*, Influence of annealing temperature and doping rate on the magnetic properties of Zr-Mn substituted Sr-hexaferrite nanoparticles (**poster presentation**), *Magnetic Measurements 2008*, September 21-24, 2008, Budapest, Hungary.

10. *M. Javed Iqbal, M. Naeem Ashiq, P. Hernandez-Gomez*, Effect of Zr-Zn substitution on the magnetic, electrical and dielectric properties of Sr-hexaferrite nanomaterials **(Oral presentation)**, 1st Junior National Chemistry Symposium Under the Age of 35, October 19-22, 2008, held at department of chemistry, university of Azad Jammu & Kashmir Muzaffarabad, Azad Kashmir.
11. *M. Javed Iqbal, M. Naeem Ashiq*, Suitability of Doped Strontium Hexaferrite Nanomaterials for Potential Applications in High Density Recording Media & Microwave Devices **(Oral presentation)**, First NCP Scientific Spring (NCP2009), National Centre for Physics, Islamabad (2009).
12. *M.J.Iqbal, M. Naeem Ashiq*, “Effect of temperature and dopant substitution on electrical properties of strontium hexaferrite nanoparticles” **(Oral presentation)**, 11th International Symposium on Advanced Materials (ISAM-09)”, National Centre for Physics, Islamabad, August 18, (2009).
13. *M.J.Iqbal, M. Naeem Ashiq*, Synthesis, electrical and magnetic properties of Zr-Cd doped strontium hexaferrite nanoparticles **(Oral presentation)**, 8th International and 20th National Chemistry Conference, Feb, 15-17, 2010, Department of Chemistry, Quaid-i-azam University, Islamabad
14. *M. Naeem Ashiq, M. J. Iqbal*, *Synthesis of Zr-Co substituted M-type strontium hexaferrite nanomaterials for potential application in high density recording media* **(Oral presentation)**, International Conference on Superconductivity and Magnetism, ICSM-2010, April 25-30, 2010, Side Antalya, Turkey.
15. *M. Fahad Ehsan and M. Naeem Ashiq*, Synthesis of substituted nickel ferrite nanoparticles for potential applications in microwave devices **(Oral presentation)**, First National Conference on Physical and Environmental Chemistry (PEC-2010), National Center of Excellence in Physical Chemistry, University of Peshawar, Summer Campus Baragali, Distt. Abbotabad, September 27-29, 2010.
16. *M. Naeem Ashiq*, Synthesis and characterization of M-type hexaferrites nanomaterials **(Oral Presentation)**, 10th International and 22nd National Chemistry Conference, November, 21-23, 2011, Department of Chemistry and Biochemistry, University of agriculture, Faisalabad, Pakistan.
17. *Raheela Beenish Qureshi, M. A. Malana and M. Naeem Ashiq*, Structural, electrical and dielectric properties of substituted hexaferrites nanoparticles **(Oral presentation)**, 13th International and 25th National Chemistry Conference, October, 20-22, 2014, Institute of Chemistry, University of The Punjab, Lahore, Pakistan.
18. *Sana Ijaz, M. Fahad Ehsan, M. Naeem Ashiq*, Synthesis of Nanocomposites for the photoconversion of Co₂ into methanol and methane, **(Oral presentation)**, 14th International and 26th National Chemistry Conference, October, 5-8, 2015, Department of Chemistry, The Islamia University Bahawalpur, Pakistan.
19. *Raheela Beenish Qureshi, M. A. Malana, M. Naeem Ashiq*, Electrical and Magnetic properties of M-type Ca-Sr hexaferrites, **(Oral presentation)**, 14th International and 26th National Chemistry Conference, October, 5-8, 2015, Department of Chemistry, The Islamia University Bahawalpur, Pakistan.

20. **M. Naeem Ashiq**, Structural, electrical, dielectric and magnetic properties of Gd-Sn substituted Sr-hexaferrite synthesized by sol-gel combustion method, **(Invited Talk)**, International Conference on Solid State Physics ICSSP 15, December, 13-17, 2015, Center of Excellence in Solid State Physics, University of The Punjab, Lahore, Pakistan.
21. **M. Naeem Ashiq**, Photoconversion of CO₂ into C₁ compounds, **(Invited Lecture)**, May, 25, 2016, School of Natural Sciences (SNS), Department of Chemistry, National University of Science and Technology (NUST), H-12, Islamabad.
22. **M. Naeem Ashiq**, Photoreduction of carbon dioxide into valuable products, **(Invited Lecture)**, Symposium on Fun-Materials in Applied Chemistry and Catalysis, May, 8, 2017, Department of Chemistry, University of Science and Technology (UET), Lahore
23. **M. Naeem Ashiq**, Sana Inaz, Synthesis of Nanocomposites for Energy related issues, **(Poster Presentation)**, International Conference on Sustainable Energy Technologies, September, 12-13, 2017, US-Pak Center for Advance Studies in Energy, UET, Peshawar
24. **M. Naeem Ashiq**, Metal Oxides/sulphides composites for carbon dioxide reduction, **(Invited Talk)**, 2nd International Conference on “Impact of Nanoscience on Energy Technologies” (NanoSET-2017), October, 25-27, 2017, Department of Physics COMSATS Institute of Information Technology, Lahore.
25. Saleem Mumtaz, **M. Naeem Ashiq**, Rizwan Raza, Ghazanfer Abbas, Nano grained Sr and Zr co-doped BaCeO₃ electrolytes for intermediate temperature solid oxide fuel cells, **(Poster Presentation)**, 2nd International Conference on “Impact of Nanoscience on Energy Technologies” (NanoSET-2017), October, 25-27, 2017, Department of Physics COMSATS Institute of Information Technology, Lahore.
26. **M. Naeem Ashiq**, Nanocomposites for Environment and Energy, **(Invited Talk)**, International Conference on Solid State Physics ICSSP-17, December, 10-14, 2017, Center of Excellence in Solid State Physics, University of The Punjab, Lahore, Pakistan.
27. Saleem Mumtaz, **M. Naeem Ashiq**, Synthesis, characterization and evaluation of various physical, electrical and dielectric parameters of Ce₂Zr_{2-x}Si_xO₇ nanoparticles, **(Oral Presentation)**, International Conference on Solid State Physics ICSSP-17, December, 10-14, 2017, Center of Excellence in Solid State Physics, University of The Punjab, Lahore, Pakistan.
28. Bashir Ahmad, **M. Naeem Ashiq**, Synthesis of Mn-Ge substituted Co₂Y hexaferrites and evaluation of its dielectric and magnetic properties, **(Oral Presentation)**, International Conference on Solid State Physics ICSSP-17, December, 10-14, 2017, Center of Excellence in Solid State Physics, University of The Punjab, Lahore, Pakistan.
29. Ruqiya Sehrish Gohar, Photodegradation of industrial dye by using pyrochlore composite materials, **(Oral Presentation)**, International Conference on Solid State Physics ICSSP-17, December, 10-14, 2017, Center of Excellence in Solid State Physics, University of The Punjab, Lahore, Pakistan.
30. Sana Ijaz and **M. Naeem Ashiq**, Synthesis of nanocomposites and their applications related to environment and energy, **(Poster Presentation 1st prize)**, A Day Long International Conference on Recent Challenges and Chemical Sciences, December, 22, 2017, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan.

31. Saleem Mumtaz and **M. Naeem Ashiq**, Nano grained Sr and Zr co-doped BaCeO₃ electrolytes for intermediate temperature solid oxide fuel cells, **(Poster Presentation)**, A Day Long International Conference on Recent Challenges and Chemical Sciences, December, 22, 2017, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan.
32. **Muhammad Naeem Ashiq**, Synthesis of Nanocomposite for Environmental Applications, **(Invited Talk)**, Scientific Colloquium Spring 2018, March, 30-31, 2018, Department of Chemistry, Government Post Graduate College, Jhelum, Pakistan.
33. Ruqiya Sehrish Gohar, **Muhammad Naeem Ashiq**, Photodegradation of industrial dye using pyrochlore composite materials **(Oral Presentation)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
34. Muhammad Faisal Iqbal, **Muhammad Naeem Ashiq**, High specific capacitance and energy density of synthesized graphene oxide based strontium sulphide nanorods for supercapacitor applications, **(Oral Presentation)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
35. **Muhammad Naeem Ashiq**, Laraib Nisar, Abeera Hassan, Asma Parveen, Quratul Ain, Kashmala Zafar, Cobalt Telleride nanobelts deposited on nickel foam as an efficient electrocatalyst for overall water splitting in alkaline medium **(Poster Presentation, 3rd Prize)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
36. **Muhammad Naeem Ashiq**, Muhammad Irfan, Muhammad Kamran, Muhammad Zeeshan Abid, Nosheen Nazar, Lanthanide based coordination polymeric materials/MOFs as an efficient photocatalyst **(Poster Presentation)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
37. **Muhammad Naeem Ashiq**, Maira Sadaqat, Javeria Tabassum, Kainat Khalid, Nigarish Bano, Tania Waheed, Zinc telleride nanospheres deposited on different substrates as an efficient catalyst for oxygen evolution reaction, **(Poster Presentation)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan
38. Ruqiya Sehrish Gohar, Bushra Qureshi, Sania Imtiaz, Misbah, Amna Sarwar, **Muhammad Naeem Ashiq**, Novel fabrication of nitrogen doped MgAl₂O₄ nanocomposite with excellent photocatalytic activity under visible light, **(Poster Presentation)**, International Chemistry Conference: Forfronts of Chemistry, Celebrating the periodic table year, 2019, March, 27-29, 2019, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan

CONFERENCES / SEMINARS ATTENDED

1. Seminar on Strategies to Address the Present and Future Water Quality Issues, March 6-7, 2002, held at holiday inn, Islamabad.
2. Seminar on the Frontiers of Chemistry, Dec. 12, 2002, held at QAU Islamabad, Pakistan.
3. 1st One-Day Meeting of Nanomaterials Forum, March 17, 2005, held at Pakistan Institute of Engineering and Applied Science (PIEAS), Islamabad.
4. 6th International and 16th National Chemistry Conference April 06-08, 2006, held at Department of Chemistry, Bahauddin Zakariya University, Multan.
5. 7th international and 17th national chemistry conference Feb 26-28, 2007, held at department of chemistry, Gomal University D. I. Khan.
6. 18th National Chemistry Conference Feb. 25-27, 2008, held at institute of chemistry, university of the Punjab, Lahore.
7. Workshop on Nanoscience and Catalysis (NSC-2008) March 24-24, 2008, held at National center for Physics, Quaid-i-Azam University Islamabad.
8. 1st Junior National Chemistry Symposium Under the Age of 35 October 19-22, 2008, held at department of chemistry, university of Azad Jammu & Kashmir Muzaffarabad, Azad Kashmir.
9. 33rd Nathiagali summer college on physics and contemporary needs, Activity II, Nanotransport and patterning advanced materials, 30th June-5th July, 2008.

PhD Supervised

1. **Irshad Ali**, Study of Substituted Hexaferrites and Their Composites for High Frequency Applications (2015)
2. **Raheela Beenish Qureshi**, Fabrication and Characterization of Nano-hexagonal ferrites and their Composites with Polymers (2016)
3. **Sana Ijaz**, Synthesis of oxides/chalcogenides nanocomposites and their applications related to environment and energy (2017)
4. **Muhammad Aamir**, Synthesis of polyaniline composites and their applications (2017)
5. **Nazia Karamat**, Synthesis of Semiconductor Nanoparticles (Modified Zirconates, Titanates and Stannates and Their Composites) and Their Applications Related to Environment (2017)
6. **Faisal Iqbal**, Synthesis and Characterization of Graphene Oxide Based Metallic Sulfides Nanostructures for Supercapacitor Applications (2018)
7. **Abdul Aziz**, Synthesis, Electrical and Dielectric Properties of Rare Doped Multiferroics Nanomaterials (2018)
8. **Bashir Ahmad**, Synthesis, Electrical, Dielectric and Magnetic Properties of Substituted Y-Type Hexaferrites and Their Composites (2019)
9. **Saleem Mumtaz**, Synthesis of Various Nanomaterials used for Fuel Cell Applications (2019)
10. **Javeria Zahra**, SYNTHESIS CHARACTERIZATION OF ZINC OXIDE, SILVER AND PLATINUM NANOPARTICLES AND STUDIES ON THEIR BIOCOMPATIBILITY IN ALBINO MICE (2021)
11. **Ruqiya Sehrish Gohar**, Preparation of oxide/chalcogenides composite for catalytic and supercapacitor applications (2021)
12. **Muhammad Yousaf Ur Rehman**, Synthesis of novel carbon dot based composites and their applications related to energy (2022)

13. **Sumaira Manzoor**, Fabrication of Transition Metal Oxides/Chalcogenides and Alloys for Water Splitting and Supercapacitor Applications (2023)
14. **Kamran Khan**, Structural, Magnetic, Electric and Photocatalytic Properties of Y-Type Hexaferrites and Their Composites (2023)
15. **Abdul Ghafoor Abid**, Metal Oxides and Chalcogenides-based Materials for the Energy Storage Devices and Oxygen Evolution Reaction (2023)

M.Phil Supervised

1. **Farah Naz**, *Comparative study of Co-Cr doped Ni-ferrites synthesized by co-precipitation and sol-gel combustion methods* (2009).
2. **Muhammad Fahad Ehsan**, *Synthesis, Structural and Electrical Properties of Antimony doped Nickel Ferrites Nanomaterials* (2010)
3. **Fakhar Jahan**, *Synthesis and Characterization of Substituted Manganese Ferrites Nanomaterials* (2010)
4. **M. Aizaz Ud Din**, *Enrichment and Protein Profiling using Strontium Ferric Oxide* (2010)
5. **Attia Iram**, *Characterization of Gd and Mg-Mn Substituted Bismuth Nano-ferrites synthesized by the Normal Microemulsion method* (2011)
6. **Nazia Karamat Goraya**, *Synthesis, Structural and Electrical Characterization of Pyrochlor Holmium ($\text{Ho}_2\text{Zr}_2\text{O}_7$) nanoparticles substituted by Vanadium metal ion* (2011)
7. **Bashir Ahmad**, *Synthesis, Characterization and Electrical Properties of Substituted Multiferroics* (2012)
8. **Saleem Mumtaz**, *Synthesis, Characterization and Electrical Measurements of Substituted (Novel) Nano Zirconate* (2012)
9. **Sajeela Shakoore**, *Synthesis and Electrical Measurements of Substituted Nano Hexa Strontium Ferrite* (2012)
10. **Ruqiya Sehrish Gohar**, *Fabrication, characterization and electrical properties of substituted nickel ferrite* (2012)
11. **Samina Qadir**, *Synthesis of Graphene and its Functionalization and removal of hazardous materials from aqueous media* (2013)
12. **M. Shuaib Khan**, *CoTe Nanosctructures: Synthesis characterization and its application for photoreduction of Co_2 into methane* (2013)
13. **Samia Irshad**, *Hydrothermal Synthesis of Tin Selenide and its Applications related to Environment* (2014)
14. **Muhammad Kamran Asad**, *Structural and Magnetic Characterization of Ho-Co Substituted Strontium Hexaferrites* (2014)
15. **Qaisar Abbas**, *Synthesis of Sr-Zn Substituted Cadmium Sulphide and Their Photocatalytic Applications* (2014)

16. **Aleesha Fraz**, *Preparation of ZrO-La₂S₃composites for the photo-degradation of methyl orange* (2014)
17. **Shan Munir**, *Synthesis, optical and corrosion inhibition properties of Y-type hexaferrites* (2015)
18. **Abdul Sami Asi**, *Synthesis, Magnetic, electrical and dielectric properties of Dy-Ni substituted M-type hexaferrites* (2015)
19. **Iqra Sabeen**, *Structural, optical and dielectric properties of Ce-Co substituted Y-type hexaferrites* (2015)
20. **Laraib Asghar**, *Synthesis of cobalt telluride/cobalt oxide hybrid structure, characterization and their photocatalytic activity* (2015)
21. **Muhammad Bilal**, *Synthesis of SnSe/SnO nanocomposite and its applications related to environment* (2015)
22. **Asma Parveen**, *Synthesis, Electrical and Dielectric properties of Mo substituted M-type Sr-hexaferrite* (2016)
23. **Sidra Rehman**, *Synthesis of CoTe/NiO, CoSe/NiO composites for energy related applications* (2016)
24. **Sidra Farheen**, *Synthesis of CeO₂/ZnTe nanocomposite and its applications as a photocatalyst* (2016)
25. **Afra Tehreem**, *Electrical, Magnetic and Dielectric Properties of La-Co substituted Y-type hexaferrites* (2016)
26. **Tanzeel Ul Rehman**, *Photodegradation of organic Pollutant by using ZnO/CoTe nanocomposite* (2016)
27. **Misbah Mushtaq**, *Synthesis of Graphene composites for energy storage devices* (2016)
28. **Anum Zulfiqar**, *Fabrication of nanoelectrochemical sensor for control monitoring of diabetic blood* (2016)
29. **Aleena Anwar**, *Synthesis of substituted cobalt ferrites for super-capacitor applications* (2017)
30. **Tahzib Haider**, *Synthesis, characterization and fuel cell applications of dysprosium substituted lanthanum stinnates*, (2017)
31. **Nageen Ashraf**, *Synthesis and supercapacitor application for cobalt ferrite/gadolinium oxide nanocomposites*, (2017)
32. **Iffat Naz**, *Synthesis of Substituted Zirconates for fuel cell applications* (2017)
33. **Kiran Javed**, *Hydrothermal synthesis of CeO₂, ZnTe and their composite for environmental and energy applications* (2017)
34. **Shafqat Abbas**, *Synthesis and electrochemical studies of SrTiO₃, ZnTe and its nanocomposite* (2017)

35. **Muhammad Shafqat Ullah**, Synthesis of ZnO/ZnTe heterostructure and its photocatalytic application (2017)
36. **Farah Javed**, Biosensing applications of copper based metal organic framework (2018)
37. **Misbah Mumtaz**, Dielectric and magnetic properties of In-Mn substituted hexaferrites (2018)
38. **Anum Baqir**, Photocatalytic applications of synthesized cerium oxide composites
39. **Rafia Noor**, Photocatalytic degradation of rhodamine B using ferrites nanomaterials as photocatalyst (2018)
40. **Shahid Fareed**, Synthesis, electrical and magnetic properties of substituted Y-type strontium hexaferrites (2018)
41. **Shazia Samreen**, Facile synthesis of Zn based metal organic framework (MOF) for biosensing of neurotransmitters (2018)
42. **Iqra Asghar**, Synthesis of Bi₂S₃ nanomaterial for supercapacitor application (2018)
43. **Aroosa Ashraf**, Synthesis of copper MOF and its application in supercapacitor as electrode material (2018)
44. **Muhammad Awais**, Synthesis and characterization of metal oxide based composite materials for fuel cell (2018)
45. **Muhammad Naeem**, Synthesis of bismuth based oxide materials for fuel cell application (2018)
46. **Sadia Akbar**, Studies of interaction between SDS and amino acid (2018)
47. **Ayesha Karim Lalwani**, Synthesis, dielectric and magnetic properties of Neodymium substituted mixed spinel ferrites (2018)
48. **Maira Sadaqat**, Synthesis and characterization of metal chalcogenides/metal oxide electrocatalysts for water splitting (2019)
49. **Ali Amman**, Synthesis of silver coated zirconia as an efficient electrode material for supercapacitor applications (2019)
50. **Sumaira Manzoor**, Visible light active ZrO₂/CdS photocatalyst for degradation of various dyes (2019)
51. **Ujala Rana**, Synthesis and electrochemical studies of graphene based composite (2019)
52. **Madeeha Shafqat**, Synthesis, characterization and supercapacitor applications of graphene based composites (2019)
53. **Abdul Ghafoor Abid**, Synthesis of PbS, SrZrO₃ and their composite for electrocatalytic water splitting (2019)
54. **Taskeen Nawaz**, Graphene based nanocomposites as efficient electrocatalysts for water splitting (2019)
55. **Laraib Nisar**, Electrocatalytic water splitting using metal chalcogenides and their composites (2019)

Research Projects

1. **Title:** Synthesis and Characterization of Various Nanomaterials for Potential Applications in Microwave Devices and High Density Recording Media
Funding Agency: Higher Education Commission (HEC), Islamabad, Pakistan
Total amount: Rs.5400153.00
Project duration: 36 months.
Status: Completed
2. **Title:** Synthesis and Characterization of Ferrites Nanomaterials
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs.100,000.00
Project duration: 12 months
Status: Completed
3. **Title:** Synthesis of Various Metal Oxides and Chalcogenides Nanocomposites and Their Applications Related to Environment and Energy
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs.96900
Project duration: 12 months
Status: Completed
4. **Title:** Synthesis of Nanocomposites and their applications related to environment and energy
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 324870
Project duration: 36 months
Status: Completed
5. **Title:** Synthesis, electrical, dielectric and magnetic properties of substituted hexaferrites and their composites
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 400000
Project duration: 36 months
Status: Completed
6. **Title:** Synthesis of various nanomaterials used for fuel cell applications
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 316200/= **Project duration:** 36 months
Status: Completed
7. **Title:** Synthesis of various metal chalcogenides Nanocomposites for water splitting
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 200000/= **Project duration:** 24 months
Status: Completed
8. **Title:** Synthesis of novel carbon dot composites and their applications related to energy
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 300000/= **Project duration:** 24 months
Status: Completed
9. **Title:** NanoLab for Nanomaterials and Functionalized Nanomaterials for National and International Commercial Supply
Funding Agency: Planning Commission, Govt. of Pakistan & Higher Education Commission (HEC), Pakistan
Total Amount: Rs.1,21,000,000/- **(Rs. 121/- Million)**
Project duration: 18 months
Status: NanoLab Proposal Approved and PC1 Submitted

Awards / Achievements

- University merit scholarship winner 2002-04 (M.Phil.)
- HEC Indigenous Scholarship 2005-2008.
- HEC six months fellowship under International Research Support Initiative Program (IRSIP) to Spain, University of Valladolid, Spain April 2007-October 2007
- Best Researcher Award (2006) from Department of Chemistry, QAU Islamabad.
- Best Researcher Award (2007) from Department of Chemistry, QAU Islamabad.
- Best Researcher Award (2008) from Department of Chemistry, QAU Islamabad.
- Win research productivity Award (RPA) and a cash award of Rs. 60,000 from Ministry of Science, Pakistan., for the year 2007
- Gold medal (2009) from Zakariyan Chemist Organization (ZACHO), BZU Multan.
- Win research productivity Award (RPA) in **category E** and a cash award of Rs. 70,000 from Ministry of Science, Pakistan., for the year 2009
- Win research productivity Award (RPA) in **category B** and a cash award of Rs. 80,000 from Ministry of Science, Pakistan., for the year 2010
- Win HEC nine months fellowship under Post-Doctoral Fellowship program to National Center for Nanoscience and Technology (NCNST), Beijing, China, April, 2012 to December, 2012
- Win research productivity Award (RPA) in **category A** and a cash award of Rs. 95,000 from Ministry of Science, Pakistan., for the year 2011
- Win research productivity Award (RPA) in **category C** and a cash award of Rs. 35,000 from Ministry of Science, Pakistan., for the year 2012
- Certificate of appreciation from Bahauddin Zakariya University for winning of research productivity
- Win research productivity Award (RPA) in **category B** and a cash award of Rs. 50,000 from Ministry of Science, Pakistan., for the year 2013
- Letter of appreciation from Advanced Studies and research Board of Bahauddin Zakariya University on account of well presentation/written of Mr. Irshad Ali's thesis with original contribution to the aimed research area.
- Win research productivity Award (RPA) in **category C** and a cash award of Rs. 50,000 from Ministry of Science, Pakistan., for the year 2014
- One of Our paper entitled "Newly Developed Poly(Allyl Glycidyl Ether/Divinyl Benzene) Polymer for Phosphopeptides Enrichment and Desalting of Biofluids" **won best paper Award** from the Higher Education Commission (HEC) of Pakistan and cash award of Rs. 14000.
- Win research productivity Award (RPA) in **category B** and a cash award of Rs. 60,000 from Ministry of Science, Pakistan., for the year 2015
- Win research productivity Award (RPA) in **category C** and a cash award of Rs. 40,000 from Ministry of Science, Pakistan., for the year 2016
- Win **Dr. Atta-Ur-Rehman Gold Medal** Under the age of 40 from Pakistan Academy of Science, for the year 2019

Editorial Board

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Reviewer

3. Journal of Hazardous Materials
4. Journal of Alloys and Compounds
5. Journal of American Ceramic Society
6. Materials Science and Engineering B
7. Desalination
8. Biomass and Bioenergy
9. Desalination and Water Treatment
10. Analytical letters
11. Journal of Physics and Chemistry of Solids
12. Materials Research Bulletin
13. Chemical Engineering Research and Design
14. Journal of Magnetism and Magnetic Materials
15. Journal of the Taiwan Institute of Chemical Engineers
16. Journal of the Chemical Society of Pakistan
17. NUST Journal of Engineering Sciences
18. Bulgarian Chemical Communication
19. Nano-Micro Letters
20. Super-lattices and Microstructures
21. RSC Advances
22. Chemical Engineering Journal
23. Journal of Asian Ceramic Societies
24. New Journal of Chemistry
25. Environmental Nanotechnology, Monitoring & Management

References:

1. **Prof. Dr. M. Javed Iqbal**
Department of Chemistry, Quaid-I-Azam University
Islamabad, Pakistan
E-mail: mjiqauchem@yahoo.com
2. **Prof. Dr. Tao He**
National Center for Nanoscience and Technology (NCNST)
Beijing, China
E-mail: het@nanoctr.cn
3. **Dr. Pablo Hernandez Gomez**
Department of electricity and electronics
University of Valladolid, Valladolid, Spain
E-mail: pabloher@ee.uva.es