Shahid Atiq

PUBLICATIONS IN ISI LISTED IMPACT FACTOR JOURNALS

1. Effect of epitaxy and lattice mismatch on saturation magnetization of γ'-Fe,N thin films
   Shahid Atiq, Hyun-Seok Ko, Saadat Anwar Siddiqi, and Sung-Chul Shin
   APPLIED PHYSICS LETTERS, 92 (2008) 222507 (IF = 3.726)

2. Preparation and the Influence of Co, Pt, and Cr additions on the saturation magnetization of α'-Fe,N thin films
   Shahid Atiq, Hyun-Seok Ko, Saadat Anwar Siddiqi, and Sung-Chul Shin

3. Static and dynamic magnetic domains of epitaxial γ'-Fe,N thin films
   Shahid Atiq, Hyun-Seok Ko, Saadat Anwar Siddiqi, and Sung-Chul Shin
   Presented at “The 14th International Symposium on the Physics of Semiconductors and its Applications-2008” Jeju, South Korea (IF = 0.506)

4. Room temperature magnetic behavior of sol-gel synthesized Mn doped ZnO
   Murtaza Saleem, Sadaat A. Siddiqi, Shahid Atiq, M. Sabieh Anwar and Saaira Riaz
   Chinese Journal of Chemical Physics, 23 (2010) 469-472 (IF = 0.642)

5. Structural, magnetic and electrical properties of Al3+ substituted CuZn-ferrites
   S. M. Ramay, Sadaat A. Siddiqi, Shahid Atiq, M. S Awan and Saaira Riaz
   Chinese Journal of Chemical Physics, 23 (2010) 591-595 (IF = 0.642)

6. Influence of temperature on the structural and magnetic properties of Co0.5Mn0.5Fe2O4 ferrites
   S.M. Ramay, Murtaza Saleem, Shahid Atiq, S. A. Siddiqi, S. Naseem, M. Sabieh Anwar,
   Bulletin of Materials Science, 34 (2011) 1415-1419 (IF = 0.880)

7. Carrier-mediated ferromagnetic enhancement in Al doped ZnMnO dilute magnetic semiconductors
   Murtaza Saleem, Saadat A. Siddiqi, Shahid Atiq, M. Sabieh Anwar, Irshad Hussain, Shahzad Alam
   Materials Characterization, 62 (2011) 1102-1107 (IF = 1.572)

8. Structural and Magnetic Studies of Zn0.95Co0.05O and Zn0.90Co0.06Al0.05O
   Murtaza Saleem, Sadaat A. Siddiqi, Shahid Atiq, M. Sabieh Anwar
   Chinese Physics Letters, 28 (2011) 116103 (IF = 0.811)

9. Enhanced Magnetic Moment of Epitaxial γ'-Fe2N Films at Low Temperature
   Shahid Atiq, Saadat A. Siddiqi, Murtaza Saleem and Shahid M. Ramay, M. Sabieh Anwar and Sung-Chul Shin
   Journal of the Korean Physical Society, Vol. 60, No. 10, May 2012, pp. 1745-1748 (IF = 0.506)

10. Structural and Magnetic Studies of Ni doped ZnO Synthesized with Auto-combustion and Co-precipitation techniques
    Murtaza Saleem, Saadat A. Siddiqi, Shahid Atiq and Shahzad Naseem

11. Origin of Ferromagnetism in Al and Ni Co-doped ZnO Based DMS Materials
    Murtaza Saleem, Saadat A. Siddiqi, Shahid M. Ramay, Shahid Atiq, and Shahzad Naseem
    Chinese Physics Letters, 29 (2012) 106103 (IF = 0.811)

12. Effect of Co-substitution on the structural, electrical and magnetic properties of Bi0.9La0.1FeO3
    by sol-gel synthesis
    Ghulam Ali, Saadat A. Siddiqi, Shahid M. Ramay, Shahid Atiq, and Murtaza Saleem

13. Influence of Pb doping on structural, electrical and magnetic properties of Sr-hexaferrites
    Zaka Ullah, Shahid Atiq and Shahzad Naseem

14. Carrier-assisted enhanced ferromagnetism in Al-doped ZnMnO Nano-crystallites
    Shahid Atiq, Saadat Anwar Siddiqi, Fazal Abbas, Murtaza Saleem and Shahid M. Ramay
    Chinese Journal of Chemical Physics, 26 (2013) 457-461 (IF = 0.720)

15. Induced modifications in the properties of Sr doped BiFeO3 multiferroics
1. Study the structure and the performance of thermal/plasma modified Au nanoparticles

2. Enhanced magnetization of sol-gel synthesized Pb-doped strontium hexaferrites nanocrystallites at low temperature

3. Magnetic and photocatalytic response of Ag-doped ZnFeO nano-composites for photocatalytic degradation of reactive dyes in aqueous solution

4. Dielectric and magnetic investigations of mixed cubic spinel Co-Ni ferrites with controlled Mg content

5. Magnetic, Structural, and Dielectric properties of MnCuZn ferrites

6. Low temperature synthesis by auto-combustion and investigation of structural and magnetic properties of MnCuZn ferrites

7. Investigation of structural, magnetic and optical properties of ZnO codoped with Co and Cd

8. Defects induced magnetization in B-doped ZnFeO dilute magnetic semiconductors

9. Synthesis, structural and magnetic behavior of undoped and Mn-doped anatase TiO$_2$ nanoparticles

10. Effect of Mn doping on structural, dielectric and magnetic properties of BiFeO$_3$ thin films
31. Sol-gel synthesis and investigation of structural, electrical and magnetic properties of Pb-doped La$_{0.8}$Bi$_{0.2}$FeO$_3$ multiferroics

Imran Ghafoor, Saadat Anwar Siddiq, Shahid Atiq, Saira Riaz and Shahzad Naseem


32. Synthesis and investigation of magnetic properties of magnetite nanocrystallites for drug delivery

Muhammad Zaka Ansar, Shahid Atiq, Saira Riaz, Shahzad Naseem, Shahid M. Ramay and Asif Mahmood


33. Synthesis and investigation of photocatalytic properties of Au/Fe$_2$O$_3$ nanocomposite materials for degradation of methylene blue

Asif Mahmood, Shahid Mahmood Ramay, Yousef S. Al-Zaghayer, Abdul-Aziz N. AlHazaa, Waheed A. Al Masary and Shahid Atiq

Desalination and water Treatment 57 (2016) 20069 – 20075

34. Au doping effect on the electrical and magnetic properties of Fe$_2$O$_3$ nanoparticles

Asif Mahmood, Shahid Mahmood Ramay, Yousef S. Al-Zaghayer, A. N. AlHazaa, Waheed A. Al Masary and Shahid Atiq


35. High dielectric constant study of TiO$_2$-polypyrrrole composites with low contents of filler prepared by in-situ polymerization

Khalil Ahmed, Farah Kanwal, Shahid M. Ramay, Asif Mahmood, Shahid Atiq and Yousef S. Al-Zaghayer

Advances in Condensed Matter Physics, 2016 (2016) Article ID # 793434 (6 pages)

36. Study of divalent elements (Mg, Sr and Ba)-doped LaMnO$_3$ nano-manganites

Shahid Mahmood Ramay, Asif Mahmood, Shahid Atiq and A. N. AlHazaa

International Journal of Modern Physics B 30 (2016) 1650020 (9 pages)

37. Structural and magnetic properties of chemically synthesized Pd-modified NiFe$_2$O$_4$ nanoparticles

Shahid Atiq, Shahid Mahmood Ramay, Asif Mahmood, Saira Riaz and Shahzad Naseem

Chinese Journal of Chemical Physics 29 (2016) 245-248

38. Correlation between particle size and magnetic characteristics of Mn-substituted ZnFe$_2$O$_4$ ferrites

Sidra Zawar, Shahid Atiq, Saira Riaz and Shahzad Naseem

Superlattices and Microstructures 93 (2016) 50-56

39. Influence of sintering temperature on structural, morphological and magnetic properties of barium hexaferrite nanoparticles

M. Burhan Shafqat, Omer Arif, Shahid Atiq, Murtaza Saleem, Shahid M. Ramay, Asif Mahmood and Shahzad Naseem


40. Magneto-electric characteristics in (Mn, Cu) co-doped BiFeO$_3$ multiferroic nanoparticles

Ayesha Khalid, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Ghulam M. Mustafa, Saira Riaz and Shahzad Naseem


41. Structural and magnetic phase transition of sol-gel synthesized Cr$_2$O$_3$ and MnCr$_2$O$_4$ nanoparticles

Adnan Afzal, Shahid Atiq, Murtaza Saleem, Shahid M. Ramay, Shahzad Naseem and Saadat A. Siddiqi


42. Carriers mediated magnetic and impedance spectroscopic analysis of sol–gel synthesized Zn$_{0.95}$$_x$Mn$_{0.05}$Fe$_{3-x}$O$_4$ (0 ≤ x ≤ 0.05) DMSs

M. Sajid Shafiq, Muhammad Furqan, Shahid Atiq, Murtaza Saleem, Saira Riaz, Shahzad Naseem


43. Structural and impedance spectroscopic analysis of Sr/Mn modified BiFeO$_3$ multiferroics

Muhammad Amin, Hafiz Muhammad Rafique, Muhammad Yousaf, Shahid Mahmood Ramay, Shahid Atiq


44. Structural and dielectric properties of sol–gel synthesized (Mn, Cu) co-doped BiFeO$_3$ ceramics

Ayesha Khalid, Maryam Ali, Ghulam M. Mustafa, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Shahzad Naseem


45. Effect of Co and Ni co-doping on the structural, magnetic, electrical and optical properties of ZnO

Lubna Mustafa, Safia Anjum, Salma Waseem, Sehrish Javed, Shahid M. Ramay and Shahid Atiq


46. Influence of manganese on structural, dielectric and magnetic properties of ZnO nanoparticles

(If = 2.446)
47. Structural and complex impedance spectroscopic studies of Mg-substituted CoFe₂O₄

Zahoor Ahmad, Shahid Atiq, S. Kumail Abbas, Shahid Mahmood Ramay, Saira Riaz, Shahzad Naseem

Ceramics International 42 (2016) 18271 – 18282 (IF = 2.986)

48. Substituted Mg-Co nano ferrite: Recyclable magnetic photocatalyst for the reduction of methylene blue and degradation of toxic dyes

Hamza Asi, Shahid Atiq, Shahid M. Ramay, Murtaza Saleem, Saira Riaz and Shahzad Naseem


49. Enhanced ferromagnetic characteristics in Mn-doped ZnO: A promising diluted magnetic semiconductor

Muhammad Yousaf, Hafiz Muhammad Rafique, Muhammad Amin, Shahid Mahmood Ramay and Shahid Atiq

Modern Physics Letters B, 30 (2016) 1650398 (10 pp) (IF = 0.617)

50. Synthesis and investigation of structural, morphological, magnetic, dielectric and impedance spectroscopic characteristics of Ni-Zn ferrite nanoparticles

Shahid Atiq, Maria Majeed, Aqsa Ahmad, S. Kumail Abbas, Murtaza Saleem, Saira Riaz and Shahzad Naseem

Ceramics International 43 (2017) 2486 – 2494 (IF = 3.057)

51. Visible-light-induced Fe-doped ZnO magnetic photocatalyst nanoparticles for degradation of methylene blue

M. Yousaf, H. M. Rafique, M. Amin, S. M. Ramay, S. Atiq, N. S. Alzayed, S. A. Siddiqi,

Digest Journal of Nanomaterials and Biostructures 12(1), (2017) 91 – 98 (IF = 0.673)

52. Structural, dielectric and ferromagnetic properties of nano-crystalline Co-doped SnS

B. Parveen, M. Hassan, S. Atiq, S. Riaz, S. Naseem and Sher Zaman

Journal of Materials Science 52 (2017) 7369 – 7381 (IF = 2.993)

53. RKKY magnetic interactions in chemically synthesized Zn₀.₉₅₋ₓFeₓ₀.₅₋ₓAlₓO (x = 0, 0.03, 0.05, 0.07) nanocrystallites

Shahid M. Ramay, Murtaza Saleem, Shahid Atiq, Saadat A. Siddiqi, Muhammad Imran, Yousef S. Al-Zeghayer, Abdulrhman S. Al-Awadi, Saajjad Haider, Asif Mahmood


54. Thermally activated variations in conductivity and activation energy in SrMnO₃

Syed Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem


55. Electrical impedance functionality and spin orientation transformation of nanostructured Sr-substituted BaMnO₃ hexagonal perovskites

S. Kumail Abbas, M. Adnan Aslam, Muhammad Amir, Shahid Atiq, Zahoor Ahmed, Saadat A. Siddiqi and Shahzad Naseem


56. Structural and dielectric study of nano-crystalline single phase Sn₁₋ₓNiₓS (xNi = 0 –10%) showing room temperature ferromagnetism

B. Parveen, M. Hassan, S. Atiq, S. Riaz, S. Naseem, M. Asif Toseef


57. The role of sintering conditions on the superconducting parameters of MgB₂

Salem A. S. Qaid, Nasser S. Alzayed, M. Shahabuddin, Shahid M. Ramay, Shahid Atiq


58. Nickel foam anode-supported solid oxide fuel cells with composite electrolytes

Muhammad Sarfraz Arshad, Naved Mushtaq, Muhammad Ashfaq Ahmad, Shahzad Naseem, Shahid Atiq, Zahiru Ahmed, Rashid Ali, Ghazanfar Abbas, Rizwan Raza


59. Tunable dielectric behaviour and energy band gap range of ZnAl₂O₄ ceramics mediated by Mg substitution

Tanveer Hussain, Muhammad Junaid, Shahid Atiq, Syed Kumail Abbas, Shahid M. Ramay, Basel F. Alrayes, Shahzad Naseem


60. Thermally assisted electro-active regions in SrMnO₃ ceramics

S. Kumail Abbas, Shahid Atiq, Saira Riaz, Shahid M. Ramay, Shahzad Naseem


61. Study of the effect of pva on dielectric constant and structure of TiO₂ polypyrrole composites prepared by in-situ polymerization


(IF = 0.673)
62. Multiferroicity in sol–gel synthesized Sr/Mn co-doped BiFeO₃ nanoparticles
Muhammad Amin, Hafiz Muhammad Rafique, Muhammad Yousaf, Shahid Mahmood Ramay, Murtaza Saleem, Syed Kumail Abbas, Shahid Atiq

63. Structural, magnetic, dielectric and bonding properties of BiMnO₃ grown by co-precipitation technique
*Results in Physics* 7 (2017) 3190 – 3195 (IF = 2.147)

64. An efficient Sm and Ge co-doped ceria nanocomposite electrolyte for low temperature solid oxide fuel cells
Muhammad Sarfraz Arshad, Rizwan Raza, M. Ashfaq Ahmad, Ghazanfar Abbas, Amjad Ali, Asia Rafique, M. Kaleem Ullah, Sajid Raaf, M Imran Asghar, Naveed Musttaq, Shahid Atiq, Shahzad Naseem
*Ceramics International* 44 (2018) 170-174 (IF = 3.057)

65. Tunable structural and electrical impedance properties of pyrochlores based Nd doped lanthanum zirconate nanoparticles for capacitive applications
Ghulam M. Mustafa, Shahid Atiq, S. Kumail Abbas, Safira Riaz, Shahzad Naseem
*Ceramics International* 44 (2018) 2170-2177 (IF = 3.057)

66. Acetylene black coated V₂O₅ nanocomposite with stable cyclability for lithium-ion batteries cathode
Muhammad Haris, Shahid Atiq, Syed Mustansar Abbas, Asif Mahmood, Shahid Mahmood Ramay, Shahzad Naseem

67. Thermal tuning of electrical and dielectric characteristics of Mn-doped Zn₀.₉₅Fe₀.₀₅O dilute magnetic semiconductors
Safeera Zaibe, Shahid Atiq, Asif Mahmood, Shahid M. Ramay, Safira Riaz, Shahzad Naseem
*Journal of Materials Science – Materials in Electronics* 29 (March 2018) 3843-3951 (IF = 2.324)

68. Dielectric based energy storage capacity of sol-gel synthesized Sr-doped ZrTiO₅ nanocrystallites
Naadia Akhtar, Hafiz Muhammad Rafique, Shahid Atiq, Sana Aslam, Aamir Razaq, Murtaza Saleem
*Ceramics International* 44 (15 April 2018) 6705-6712 (IF = 3.057)

69. Structurally tuned multifunctional characteristics of Nd-substituted lanthanum zirconates
Ghulam M. Mustafa, Shahid Atiq, Murtaza Saleem, Shahzad Naseem, Jafar M. Parakkandy, I. A. Elsayed
*Journal of Materials Science – Materials in Electronics* 29 (April 2018) 6950-6960 (IF = 2.324)

70. Magnetic phase transition and magneto-dielectric analysis of spinel chromite manganites: MCr₂O₄ (M = Fe, Co and Ni)
Muhammad Younis, Murtaza Saleem, Shahid Atiq, Shahzad Naseem
*Ceramics International* 44 (2018) 10229-10235 (IF = 3.057)

71. A comparative study of graphene growth by APCVD, LPCVD and PECVD
Zaka Ullah, Safira Riaz, Qi Li, Shahid Atiq, Muhammad Saleem, Muhammad Azhar, Shahzad Naseem and Liwei Liu
*Materials Research Express* 5 (30 March 2018) 035606 (IF = 1.151)

72. Investigation of physical properties of SnS:Fe diluted magnetic semiconductor nanoparticles for spintronic applications
B. Parveen, M. Hassan, S. Riaz, S. Atiq, S. Naseem, M. Irfan, M.F. Iqbal
*Journal of Magnetism and Magnetic Materials* 460 (15 August 2018) 111-119 (IF = 3.046)

73. Magnetic Dynamics and All-Optical Switching in 5 nm Dy–Fe Nanostructures
Ali Akbar, Murtaza Saleem, Shahid Atiq, and Muhammad Sabieh Anwar
*IEEE Transactions on Magnetics* 54 (July 2018) 7100106 (IF = 1.467)

74. Optimisation of giant magnetoresistance in Mn-substituted BiFeO₃ for low field sensors
Ali Haider Khan, Shahid Atiq, Asif Mahmood, Shahid M. Ramay, S. Kumail Abbas, Shahzad Naseem
*Ceramics International* 44 (15 August 2018) 14697-14685 (IF = 3.057)

75. Optimization of magnetodielectric coupling in Mn substituted BiFeO₃ for potential memory devices
Ali Haider Khan, Shahid Atiq, M. Sabieh Anwar, Shahzad Naseem, Syed Kumail Abbas
*Journal of Materials Science – Materials in Electronics* 29 (July 2018) 11812-11823 (IF = 2.324)

76. Structural tuning of dielectric properties of Ce-substituted Nd₂Zr₂O₇
Ghulam M. Mustafa, Murtaza Saleem, Shahid Atiq, Safira Riaz, Saadat A. Siddiqi, Shahzad Naseem
Accepted for publication in *Journal of Saudi Chemical Society* (2018) Available online
https://doi.org/10.1016/j.jscs.2018.05.007 (IF = 2.456)

77. Ni doped ZrTiO₅ ceramics for dielectric resonator applications
Naadia Akhtar, Hafiz Muhammad Rafique, Shahid Atiq, Sana Aslam, Aamir Razaq, Murtaza Saleem
78. Tunable structural and electrical impedance properties of ordered and disordered iron oxide phases for capacitive applications
   Zaheer H. Shah, Saira Riaz, Shahid Atiq, Shahzad Naseem
   Ceramics International 44 (1 Oct 2018) 16352-16364 (IF = 3.057)

79. Highly stable dielectric frequency response of chemically synthesized Mn-substituted ZnFe$_2$O$_4$
   Sidra Zawar, Shahid Atiq, Maida Tabasum, Saira Riaz, Shahzad Naseem
   Accepted for publication in Journal of Saudi Chemical Society (2018) (IF = 2.456)

80. Efficiency enhancement of perovskite solar cells by incorporation of CdS quantum dot through fast electron injection

81. Electronic and structural properties of phase-pure magnetite thin films: Effect of preferred orientation
   M. Imran, Aseya Akbar, Saira Riaz, Shahid Atiq, Shahzad Naseem
   Journal of Electronic Materials, Available online (IF = 1.566)

**Publications In Non-Impact Factor (HeC Recognized) Journals**

1. Structural and Electrical Characterization of Lanthanum doped Strontium Hexaferrites
   Muhammad Azim, Shahid Atiq and Shahzad Naseem

2. Optimizing the preparation conditions of Co-doped SrFe$_{12}$O$_{19}$ and investigating its structural and dialectical properties
   Fouzia Altaf, Shahid Atiq, Saira Riaz and Shahzad Naseem

3. Indexing the diffraction pattern and investigating the crystal structure of Pb-doped strontium ferrites
   Z. Ullah, S. Atiq and S. Naseem

4. Indexing the structural parameters and investigating the magnetic properties of lanthanum doped strontium hexaferites
   M. Azim, S. Atiq, S. Riaz and S. Naseem

5. Frequency and temperature dependent dielectric response of Fe$_3$O$_4$ nano-crystallites
   M. Z. Ansar, S. Atiq, K. Alamgir and S. Naseem

6. Structural and dielectric properties of La-doped BiFeO$_3$ thin films
   SMH Shah, Saira Riaz, Shahid Atiq, Asif Mahmood, Shahid M Ramay and Shahzad Naseem

7. BiFeO$_3$ thin films - Structural and dielectric properties
   SMH Shah, Saira Riaz, Shahid Atiq, Asif Mahmood, Shahid M Ramay and Shahzad Naseem

8. Effect of Ba-substitution at Sr site on the structural and dielectric characteristics of SrMnO$_3$
   M. Amir, S. Atiq, S. Riaz and S. Naseem

9. Dielectric and magnetic characterization of sol-gel synthesized SrMnO$_3$ perovskite
   K. Abbas, S. Atiq, S. Riaz and S. Naseem

10. Dielectric characterization of XAl$_2$O$_4$ (X = Mg, Zn, Ni) spinel ceramics
    M. Azam, S. Atiq, G. M. Mustafa, S. Riaz and S. Naseem

11. Pulsed laser deposition of SmCo thin films for MEMS applications
    Mirza Khurram Baig, Shahid Atiq, Shaizia Bashir, Saira Riaz, Shahzad Naseem, Hassan Suleimani and Noorhana Yahya
1. Effect of Annealing Time on Epitaxial γ’-Fe$_3$N Thin Films  
*Shahid Atiq, Hyun-Seok Ko, Saadat Anwar Siddiqi, and Sung-Chul Shin,*  
Presented at “The Korean Magnetic Society 2008 Summer Conference” South Korea, Published in the Digest of the KMS 2008 Summer Conference.

2. Static and dynamic magnetic domains of epitaxial γ’-Fe$_3$N thin films  
*Shahid Atiq, Hyun-Seok Ko, Saadat Anwar Siddiqi, and Sung-Chul Shin*  

*Shahid Atiq, Saadat Anwar Siddiqi and Sung-Chul Shin,*  

4. Magnetic Domain Structure of Epitaxial γ’-Fe$_3$N Thin Films  
*Shahid Atiq, Saadat Anwar Siddiqi and Sung-Chul Shin,*  

*Shahid Atiq, Saadat Anwar Siddiqi and Sung-Chul Shin,*  

6. Thin Film Preparation by Magnetron Sputtering  
*Shahid Atiq*  
4th One Day Seminar on Vacuum Coating (SVST-04), June 03, 2009, Islamabad.  
(Invited talk)

7. Effect of thermal treatment on structural, electrical and magnetic properties of sol-gel synthesized Zn$_{0.95}$Ni$_{0.05}$O nanocrystallites  
*Murtaza Saleem, Saadat A. Siddiqi, Shahid Atiq*, Shahid M. Ramay, and Shahzad Naseem  

8. Enhanced Magnetic Moment of Epitaxial γ'-Fe$_3$N Films at Low Temperature  
*Shahid Atiq, Saadat A. Siddiqi, Murtaza Saleem and Shahid M. Ramay,*  

9. Structural and magnetic studies of Ni doped ZnO synthesized with auto-combustion and co-precipitation techniques  
*Murtaza Saleem, Saadat A. Siddiqi, Shahid Atiq* and Shahzad Naseem  

10. Phase pure synthesis and room temperature (RT) ferromagnetism in Ni substituted ZnO  
*Saadat A. Siddiqi, Murtaza Saleem, Shahid Atiq,*  
Presented at 3rd International Conference on Nanotechnology, November 27-30, 2011  
IT Building – Male Side, United Arab Emirates University, Al Ain, UAE.

11. Synthesis and characterization of Sr-doped BiFeO$_3$ nanoparticles by auto-combustion technique  
*Tanveer Hussain, Saadat A. Siddiqi, Shahid Atiq*, Shahzad Naseem, M. Sabieh Anwar and M. S. Awan,*  
Presented at International Conference on Nanomaterials and Nanoethics ICNN-2011, December 01-03, 2011, COMSATS IIT, Lahore, Pakistan.

12. Investigation of structural, electrical and magnetic behavior of Pb-doped La$_{0.1}$Bi$_{0.9}$FeO$_3$ Multiferroics  
*Imran Ghafoor, Saadat A. Siddiqi, Shahid Atiq and Shahzad Naseem*  
Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan.

13. Origin of room temperature ferromagnetism in ZnO based diluted magnetic semiconductor materials  
*Murtaza Saleem, Saadat A. Siddiqi, Shahid Atiq and Shahzad Naseem*  
Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan.
14. Room temperature ferromagnetic behavior in NiO nanoparticles  
Muhammad Javid, Shahid Atiq and Shahzad Naseem  
Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan.

15. Synthesis, structural and magnetic properties of NiO nanocrystallites  
Muhammad Javid, Shahid Atiq and Shahzad Naseem  
Presented at National Symposium on Frontiers of Nanotechnology, May 19, 2012, held at National University of Science and Technology (NUST), Islamabad, Pakistan.  
**Presentations at Advances in Civil, Environmental and Materials Research (ACEM’12) held at COEX in Seoul, South Korea from 26-30th August 2012.**

16. Structural, Electrical and Magnetic Investigations of Pb-doped La_{0.1}Bi_{0.9}FeO_{3} Multiferroics  
Imran Ghafoor, Shahid Atiq, Saadat A. Siddiqi, Saira Riaz and Shahzad Naseem

17. Synthesis and Characterization of Structural, Electrical and Magnetic Properties of NiO Nanocrystallites  
Muhammad Javid, Shahid Atiq and Shahzad Naseem

18. Induced Modifications in the Structural, Electrical and Magnetic Properties of Sr-doped BiFeO_{3} Multiferroics  
Shahid Atiq, Tanvir Hussain, Saadat A. Siddiqi, Saira Riaz and Shahzad Naseem

19. Characterization of Polycrystalline Zinc Ferrite (ZnFe_{2}O_{4}) by XRD, SEM, IS and Resistivity Measurements”  
Uzna Ghaznavi, Shahid Atiq, Saadat A. Siddiqi and Shahzad Naseem

20. Effect of Cu Contents on the Structural, Electrical and Magnetic Properties of Mn-Ferrites  
Zaib-un-Nisa, Shahid Atiq, Saadat A. Siddiqi, Saira Riaz and Shahzad Naseem

21. Preparation and Characterization of Electrodeposited Aluminum Oxide Thin Films  
Farzana Majid, Saira Riaz*, Muhammad I. Akram, Shahid Atiq and Shahzad Naseem  

22. Influence of A-site Pb substitution on Structural, Electrical and Magnetic Properties of Sr-Hexaferrites  
Zaka Ullah, Shahid Atiq, Murtaza Saleem and Shahzad Naseem  
Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012.

23. Origin of Ferromagnetism in TMs doped ZnO Based DMS Materials  
Murtaza Saleem, Saadat A. Siddiqi, Shahid M. Ramay, Shahid Atiq and Shahzad Naseem  
Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012.

24. Structural, electrical and magnetic properties of Lanthanum substituted strontium hexaferrites  
Muhammad Azim, Shahid Atiq, Murtaza Saleem, Saira Riaz and Shahzad Naseem  
Presented at International Scientific Spring-2013, organized by National Center for Physics (NCP), Islamabad, Pakistan, and ICTP, Italy at Islamabad, from 11-15th March, 2013.

25. Preparation and characterization of electrodeposited Aluminum oxide thin films  
Farzana Majid, Saira Riaz, Muhammad I. Akram, Shahid Atiq and Shahzad Naseem,  

26. Synthesis and characterization of magnetic nanoparticles for cancer therapy  
Shahid Atiq, Muhammad Zaka Ansar, Saira Riaz and Shahzad Naseem  
Presented at The 2013 World Congress on Advances in Nano, Biomechanics, Robotics, and Energy Research, held at COEX, Seoul, South Korea from 25th to 28th August, 2013.

27. Magnetic and structural properties of La doped BiFeO_{3} thin films  
Aseya Akbar, Saira Riaz, Shahid Atiq and Shahzad Naseem  
Presented at The 2013 World Congress on Advances in Nano, Biomechanics, Robotics, and Energy Research, held at COEX, Seoul, South Korea from 25th to 28th August, 2013.  
**Presented at International Conference on Solid State Physics (ICSSP-13), held at University of the Punjab, Lahore, from 1st to 6th December, 2013**

28. Particle size dependent ferromagnetism in NiO nanocrystallites  
Shahid Atiq, Muhammad Javid, Saira Riaz and Shahzad Naseem,  

29. Synthesis and investigating the magnetic properties of magnetite nano crystallites for drug delivery”  
Muhammad Zaka Ansar, Shahid Atiq, Saira Riaz and Shahzad Naseem,  
30. Indexing the structural parameters and investigating the electrical properties of La doped Sr-hexaferrites

Muhammad Azim, Shahid Atiq, Saira Riaz and Shahzad Naseem,

31. Structural, electrical and magnetic properties of Co-doped Sr-hexaferrites

Fouzia Altaf, Shahid Atiq, Saira Riaz and Shahzad Naseem,

32. Effect of substrate temperature on structural and magnetic properties of pulse laser deposited SmCo films

Muhammad Umair Farooq, Shahid Atiq, Shazia Bashir, Saira Riaz and Shahzad Naseem,
Published in Materials Today – Proceedings 2 (2015) 5592 – 5595 entitled: “Substrate temperature dependent deposition by pulsed laser and characterization of SmCo films”.

33. Structural, compositional and magnetic properties of SmCo thin films deposited by pulsed laser

Mirza Khurram Baig, Shahid Atiq, Shazia Bashir, Saira Riaz and Shahzad Naseem,
Published in Materials Today – Proceedings 2 (2015) 5582 – 5586 entitled: “Thickness dependent optimization of 1-5 phase of SmCo thin films deposited by pulsed laser”.

34. Sol-gel synthesis and investigation of structural, electrical and magnetic properties of Pb doped La0.1Bi0.9FeO3 multiferroics

(Invited talk)

Imran Ghafoor, Saadat Anwar Siddiqi, Shahid Atiq, Saira Riaz and Shahzad Naseem,
Published in Materials Today – Proceedings 2 (2015) 5288 – 5292 entitled: “Investigating the structural and electrical properties of La0.1Bi0.9-PbFeO3 (x = 0.0, 0.05, 0.10, 0.20, 0.30) multiferroics”.

35. Low temperature synthesis by auto-combustion and, investigation of structural and magnetic properties of Mn0.8Cu0.2Ni0.5Fe2O4 nanocrystallites

Shahid M. Ramay, Saadat A. Siddiqi, Shahid Atiq, Murtaza Saleem and Shahzad Naseem
Published in Materials Today – Proceedings 2 (2015) 5510 – 5514 entitled: “Magnetite tailoring the magnetic properties of Mn0.8Cu0.2Fe2O4 ferrites by Ni substitution”.

36. Visible-light-induced ZnFeO magnetic photocatalysts for degradation of methylene blue


37. Structural, morphological and magnetic characterization of sol-gel synthesized MnCuZn ferrites

Shahid Mahmood Ramay, Hafiz Muhammad Rafique, Sana Aslam, Saadat Anwar Siddiqi, Shahid Atiq, Murtaza Saleem, Shahzad Naseem, Muhammad Ali Shar

38. Ferromagnetic behavior of un-doped BiFeO3 prepared by sol-gel

Aseya Akbar, Saira Riaz, Shahid Atiq and Shahzad Naseem

39. Structural, magnetic and dielectric properties of doped BiFeO3 thin films

Aseya Akbar, Saira Riaz, Shahid Atiq and Shahzad Naseem

40. Magnetic, structural and dielectric properties of un doped and doped BiFeO3 thin films using sol-gel

Aseya Akbar, Saira Riaz, Shahid Atiq and Shahzad Naseem

41. Effect of non-ionic surfactant (Lutensolx 80 [RO(CH2CH2)8H]) on the structural and dielectric behavior of polypyrrole/maghemite (PPy/Fe3O4) nanocomposites

Aisha Batool, Farah Kanwal, Saira Riaz, Shahid Atiq and Shahzad Naseem

42. Effect of Mn doping on structural, dielectric and magnetic properties of BiFeO3 thin films

Aseya Akbar, Saira Riaz, Shahid Atiq and Shahzad Naseem

43. Sol gel synthesis of titanium oxide nano crystallites for photocatalytic applications

Majid, Shahid Atiq, Saira Riaz and Shahzad Naseem

Presented at International Scientific Spring-2014, organized by National Center for Physics (NCP), Islamabad, Pakistan, and ICTP, Italy at Islamabad, from 11-14th March, 2014.

Presentations at The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM14), held at BEXCO, Busan, South Korea from 24th to 28th August, 2014
44. Structural and dielectric properties of Zn-doped MgAl$_2$O$_4$
   
   Tanveer Hussain, Shahid Atiq, Saira Riaz and Shahzad Naseem

45. Optimizing the synthesis of titanium oxide nano-crystallites using low cast organic fuels
   
   Shahid Atiq, Majid, Saira Riaz and Shahzad Naseem

46. Structural and dielectric properties of Bi$_{1.3}$La$_{0.7}$FeO$_3$
   
   SM Hussain Shah, Saira Riaz, Shahid Atiq and Shahzad Naseem

47. Epitaxial growth and low temperature magnetic and electrical characterization of $\gamma'$-Fe$_2$N thin films
   
   Shahid Atiq, Saadat A. Siddiqui, Hyon-Seok Ko, Saira Riaz, Shahzad Naseem and Sung-Chul Shin
   
   Presented at IEEE International Magnetics Conference (Intermag-2015), held at CNCC, Beijing, China from 11th to 15th May, 2015.
   
   Presentations at 2nd Conference of Frontiers of Nanoscience and Nanotechnology (CFNN-15), held at PINSTECH, Nilore, Islamabad from 8th to 10th September, 2015

48. Dielectric characterization of XAl$_2$O$_4$ (X = Mg, Zn, Ni) spinel ceramics
   
   Ghulam M. Mustafa, M. Azam, Shahid Atiq, S. Riaz and Shahzad Naseem

49. Effect of Ba-substitution at Sr-site on the structural and dielectric characteristics of SrMnO$_3$
   
   Muhammad Amir, Shahid Atiq, S. Riaz and Shahzad Naseem

50. Dielectric and magnetic characterization of sol-gel synthesized SrMnO$_3$ perovskite
   
   Kumail Abbas, Shahid Atiq, S. Riaz and Shahzad Naseem

51. Structural, Magnetic and Dielectric Properties of Ba Doped BiFeO$_3$ Thin Films
   
   S Mazhar H Shah, Saira Riaz*, S Sajjad Hussain, Shahid Atiq and Shahzad Naseem
   

52. Structural, dielectric and magnetic properties of potassium doped bismuth iron oxide thin films
   
   S Mazhar H Shah, Saira Riaz*, Shahid Atiq and Shahzad Naseem
   
   
   Presentations at International Conference on Solid State Physics (ICSSP-15) held at University of the Punjab, Lahore from 13th to 17th December, 2015

53. Dielectric and impedance spectroscopic characterization of electro active regions of SrMnO$_3$ nanoparticles
   
   S. Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem

54. Frequency and temperature dependent electrical characterization to study the variation in conductivity and activation energy of SrMnO$_3$ Nano-crystallites
   
   S. Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem

55. Non-Linear dielectric characteristics of Rietveld’s refined Mg-substituted zinc aluminate
   
   Tanveer Hussain, Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem

56. Optimization of structural and electrical characteristics via chemically controlled Ba substitution in strontium manganese based perovskites
   
   H. Muhammad Amir, S. Kumail Abbas, Shahid Atiq, Murtaza Saleem, Saira Riaz and Shahzad Naseem

57. Effect of Ba substitution at Sr site on the electrical impedance functionality of nanostructured SrMnO$_3$ hexagonal perovskites
   
   H. Muhammad Amir, Adnan Aslam, S. Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem

58. Structural and dielectric analysis of M-type BaFe$_2$O$_4$ hexaferrites synthesized by sol-gel auto-combustion
   
   Omer Arif, Shahid Atiq, Saira Riaz, Shahid M. Ramay, Asif Mahmood and Shahzad Naseem

59. Influence of sintering temperature on structural, morphological and magnetic properties of barium hexaferrite nanoparticles
   
   Omer Arif, M. Burhan Shafqat, Shahid Atiq, Murtaza Saleem, Saira Riaz and Shahzad Naseem

60. Magneto-electric investigation of (Mn, Cu) co-doped BiFeO$_3$ multiferroics
   
   Ayesha Khalid, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Saira Riaz and Shahzad Naseem

61. Structural and dielectric properties of (Mn, Cu) co-doped BiFeO$_3$ ceramics
   
   Ayesha Khalid, Maryam Ali, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Ghulam M. Mustafa, and Shahzad Naseem

62. Effect of Zn substitution at Ni-site on structural, morphological, magnetic and electrical properties of Ni-Zn ferrite nanoparticles
   
   Maria Majeeed, Shahid Atiq, S. Kumail Abbas, Murtaza Saleem, Saira Riaz and Shahzad Naseem

63. Tailoring the structural and dielectric characteristics of Zn substituted Ni ferrite synthesized by sol-gel
   
   Maria Majeeed, Aqsa Ahmad, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Saira Riaz and Shahzad Naseem
64. Influence of Mn substitution at Zn-site on structural, morphological and magnetic properties of Mn$_x$Zn$_{1-x}$Fe$_2$O$_4$ (x = 0.0, 0.1, 0.3, 0.4 & 0.5) nanoclusters
   
   Sidra Zawar, Shahid Atiq, Saira Riaz and Shahzad Naseem

65. Structural, optical and photocatalytic study of nanostructured Mg-substituted CoFe$_2$O$_4$ magnetic photocatalysts
   
   Shahid M. Ramay, H. Hamza Assi, Shahid Atiq, Asif Mahmood, Saira Riaz and Shahzad Naseem

66. Structural and complex impedance spectroscopic studies of Mg-substituted CoFe$_2$O$_4$ nanocrystallites
   
   Shahid Atiq, Zahoor Ahmad, Shahid Mahmood Ramay, S. Kumail Abbas, Asif Mahmood, Saira Riaz, Shahzad Naseem

67. Sol-gel synthesis and investigation of structural, morphological and magnetic properties of Cr$_2$O$_3$ and MnCr$_2$O$_4$ nanoparticles
   
   Shahid Atiq, Adnan Afzal, Murtaza Saleem, Shahid M. Ramay, Saadat A. Siddiqi, and Shahzad Naseem

68. Structural, electrical and magnetic properties of sol-gel synthesized Zn$_{0.95-x}$Mn$_x$Fe$_{0.05}$O (0 ≤ x ≤ 0.05) dilute magnetic semiconductors
   
   Muhammad Furqan, Saheera Zaineb, Murtaza Saleem, Shahid Atiq, Saira Riaz and Shahzad Naseem

69. Influence of Mn doping on structure, morphology and electrical properties of Zn$_{0.95-x}$Mn$_x$Fe$_{0.05}$O (0 ≤ x ≤ 0.05) DMS nanoparticles
   
   Muhammad Furqan, M. Sajid Shafeeq, Shahid Atiq, Shahid M. Ramay, Asif Mahmood, Saira Riaz and Shahzad Naseem

70. Multiferroic characteristics of Ba/Co co-doped BiFeO$_3$
   
   Usman Asghar, Gulham M. Mustafa, Ayesha Khalid, Shahid Atiq, Saira Riaz and Shahzad Naseem

71. Investigation of dielectric and multiferroic properties of structurally refined Cr$_2$O$_3$ and MnCr$_2$O$_4$ nanoparticles
   
   Shahid Atiq, Samina Nazli, Murtaza Saleem, Shahid M. Ramay, Asif Mahmood, Saira Riaz and Shahzad Naseem

72. Mechanical and dielectric studies of zirconia prepared by sol gel
   
   Maryam Erum, Shahid Atiq, Saira Riaz and Shahzad Naseem,

73. Magnetic and dielectric properties of Fe$_2$O$_3$ - ZrO$_2$ nanocomposites
   
   Kanwal Akhtar, Shahid Atiq, Saira Riaz and Shahzad Naseem,

74. Systematic magnetic and dielectric investigations of aluminum doped iron oxide thin films
   
   Jane Albert, Saira Riaz, Shahid Atiq and Shahzad Naseem,

75. Impedance analysis of magnesium doped hematite thin films
   
   Aqsa Shahid, Shahid Atiq, Saira Riaz and Shahzad Naseem,

76. Enhancement of dielectric properties of methanol stabilized zirconia nanopowders
   
   Kiran Idrees, Shahid Atiq, Saira Riaz and Shahzad Naseem,

77. Role of Fe$^{3+}$/Fe$^{2+}$ on magnetization and dielectric properties of sol-gel deposited magnetite thin films
   
   Asif Hussain, Saira Riaz, Shahid Atiq, S Sajjad Hussain and Shahzad Naseem,

78. Effect of 3d metal doping on ferromagnetism and dielectric properties of magnetite thin films
   
   M Imran, Saira Riaz, Shahid Atiq, YB Xu and Shahzad Naseem,

79. Tuning the dielectric and optical properties of bismuth iron oxide thin films
   
   M Tahir, Saira Riaz, Shahid Atiq, S Sajjad Hussain and Shahzad Naseem,

80. Phase stability of A Site doped bismuth iron oxide nanoparticles – Magnetic and dielectric properties
   
   M Adnan Naseer, Saira Riaz, Shahid Atiq and Shahzad Naseem,

81. Magnetic and dielectric investigations of cobalt doped α-Fe$_2$O$_3$ thin films for spintronic applications
   
   Saba Mustafa, Saira Riaz, Shahid Atiq and Shahzad Naseem,

82. Variations in optical and dielectric properties of transition metal doped polycrystalline iron oxide thin films
   
   Hassan Yousaf, Saira Riaz, YB Xu, Shahid Atiq and Shahzad Naseem,

83. Dependence of dielectric and optical properties on Ni$^{3+}$ doping in multiferroic BiFeO$_3$ thin films
   
   M Tahir, Saira Riaz, S Sajjad Hussain, Shahid Atiq, M Farooq and Shahzad Naseem,

84. Magnetization and dielectric properties of Sol-Gel deposited magnetite thin films
   
   Aseya Akbar, Saira Riaz, Arfan Bukhtiar, Hadiya Noor, Shahid Atiq and Shahzad Naseem,

85. Structural, magnetic and dielectric properties of Fe$_2$O$_3$ thin films – Efect of Fe$^{3+}$/Fe$^{2+}$ ratio
   
   Aseya Akbar, Saira Riaz, Asif Mehmoood, Arfan Bukhtiar, Shahid Atiq, Shahid M Ramay and Shahzad Naseem,

86. Microbiological influenced corrosion of stainless steel SS-304
   
   Gulham M Mustafa, Shahid Atiq, M Raza, Saira Riaz, Shahzad Naseem and Ijaz M Ghauri,

87. Microstructural and dielectric characterization of magnesium incorporated iron oxide nanopowders
   
   Sidra Bashir, Saira Riaz, Zohra N Kayani, Shahid Atiq and Shahzad Naseem,

88. Study of magnetic and dielectric behavior of Ni doped Fe$_2$O$_3$ nanopowders
   
   M Imran, Saira Riaz, Zohra N kayani, Shahid Atiq and Shahzad Naseem,
89. Effect of molar concentration on structural, magnetic and dielectric properties of Sol Gel synthesized bismuth iron oxide nanoparticles

Waqar Azeem, Wajiha Arif, Saira Riaz, Shahid Atiq and Shahzad Naseem,

90. Investigation of structural, optical and dielectric behavior of ZnO nanorods on different substrates

Sajid Ali, Sidra Khan, Saira Riaz, Shahid Atiq and Shahzad Naseem,

91. Tunable magnetic and dielectric properties of BiFeO nanoparticles – effect of lanthanum doping

Waqar Azeem, Saira Riaz, Shahid Atiq and Shahzad Naseem,

92. Calcination mediated size dependent magnetic and dielectric properties of potassium doped bismuth iron oxide nanopowders

Waqar Azeem, S. Sajjad Hussain, Shahid Atiq, Saira Riaz and Shahzad Naseem,

93. Structural, magnetic and dielectric properties of electrodeposited iron aluminum oxide nanostructures”

Muntaha Niaz, Usman Khan, Shahid Atiq, Saira Riaz and Shahzad Naseem,

94. Effect of Zr substitution on structural, morphological, electrical and magnetic properties of BiFeO

Awais Asif, Mahmood Hassan, Shahid Atiq, Saira Riaz and Shahzad Naseem,

95. Structural, surface morphological, dielectric and magnetic properties of BiMnO

Sobia Hanif, Mahmood Hassan, Saira Riaz, Shahzad Naseem and Shahid Atiq,

96. Influence of Mn substitution on electrical and magnetic based spintronic characteristics of ZnO

M Yousef, Haji M Raffique, M Amin, Shahid M Ramay, Shahid Atiq and Shahzad Naseem,

97. Tailoring the structural, morphological and dielectric characteristics of Sr/Mn modified BiFeO multiferroics

M Amin, Haji M Raffique, M Yousef, Shahid M Ramay, Shahid Atiq and Shahzad Naseem,

98. Low Temperature synthesis of phase pure bismuth iron oxide nanoparticles – structural, dielectric and magnetic properties

M Imran, Shahid Atiq, Saira Riaz and Shahzad Naseem,

99. Modified structural and dielectric properties of calcium incorporated bismuth iron oxide thin films

M Tahir, Shahid Atiq, Saira Riaz and Shahzad Naseem,

100. Influence of Fe doping on the structure, dielectric and magnetic properties of BaTiO

Sidra Khan, Shahid Atiq, Saira Riaz and Shahzad Naseem,

101. Size confinement and dielectric investigation of La⁺³⁺ doped multiferroic BiFeO nanoparticles

Farzana Majid, Saira Riaz, Shahid Atiq and Shahzad Naseem,

102. Thermally induced structural and magnetic transitions in thin iron oxide films

Saba Mustafa, Saira Riaz, Zohra N Kayani, Shahid Atiq and Shahzad Naseem,

103. Systematic magnetic and dielectric investigations of aluminum doped iron oxide thin films

Aseya Akbar, Saira Riaz, S. Sajjad Hussain, Shahid Atiq, Y.B. Xu and Shahzad Naseem

Presentations at ACEM-16, in Jeju, South Korea from August 28 – September 1, 2016

104. Tuning the dielectric & optical properties of BiFeO thin films

M. Adnan Naseer, Attia Awan, Saira Riaz, Shahid Atiq and Shahzad Naseem

105. Synthesis and Characterization of Mg-substituted CoFe₂O₄ Magnetic Photocatalysts

Shahid Atiq, H. Ramza Assi, S. M. Ramay, Saira Riaz and Shahzad Naseem

106. Frequency and temperature dependent electro active regions in SrMnO₃

Shahid Atiq, S. Kumail Abbas, Saira Riaz and Shahzad Naseem

107. Thickness dependent magnetic and dielectric behavior of iron oxide thin films

Saira Riaz, Aseya Akbar, Shahid Atiq, S. Sajjad Hussain and Shahzad Naseem

108. Impedance analysis of magnesium doped hematite thin films

Aseya Akbar, Saira Riaz, Shahid Atiq, Javaid Iqbal and Shahzad Naseem

109. Effect of 3D-metal doping on ferromagnetic and dielectric properties of magnetite thin films

Aseya Akbar, Saira Riaz, Shahid Atiq, Zohra N. Kayani and Shahzad Naseem

110. Morphological and mechanical analysis/study of microbiological corrosion of stainless steel SS-304

Ghulam M. Mustafa, Shahid Atiq, Muhammad A. Raza, Saira Riaz, Shahzad Naseem, Saadat A. Siddiqi and Ijaz M. Ghauri

Presented at 5th International Symposium on Biomedical Materials – Clinical requirements and regulatory affairs held by IRCBM, COMSATs Lahore on 14 – 16 December, 2016.

111. Recyclable magnetic photocatalysts for the degradation of toxic dyes


Presented at International Scientific School-2017 organized at Islamabad, by NCP Islamabad and ICTP Italy from 13-17 March, 2017 (2nd prize - poster)
112. Pursue an optimized Mn substituted BiFeO$_3$ multiferroic and study of magnetodielectric effect
A. H. Khan, Shahid Atiq, Muhammad Ramazan, S. Naseem
Presented at 15th International Symposium on Advanced Materials (ISAM-2017) organized by NCP and IST, Islamabad, Pakistan from 16-20 October, 2017

Presentations at the International Conference on Solid State Physics – 2017 (ICSSP’17), University of the Punjab, Lahore, Pakistan, December 10-14, 2017

113. Appending magneto-electric coupling in Ni and Cr co-doped BiFeO$_3$ at room temperature
Adyan Fatima, Shahid Atiq, Shahzad Naseem, Syed Kumail Abbas, Asif Mahmood, Muhammad Ramazan

114. Mapping of nano-dimensional structures for magneto-optical recording media
Syed Kumail Abbas, Shahid Atiq, Murtaza Saleem and Shahzad Naseem

115. Wide range tunability of dielectric parameters with stable crystal structure of Zn$_{1-x}$Mn$_x$Cr$_2$O$_4$ (0 ≤ x ≤ 1.0) nanoparticles
Muhammad Sajid Shafiq, Shahid Atiq, Adnan Afzal and Shahzad Naseem

116. Formation of exciton magnetic polaron in Cr-doped GaN Nanorods
Shahid Atiq, Muhammad Umair Farooq, Bingsuo Zou, Abdul Ghaffar, Asma Sadaf and Shahzad Naseem

117. Optimization of magnetoeimpedance in Mn-substituted BiFeO$_3$ for low field magnetic sensors
Syed Kumail Abbas, Shahid Atiq, Ali Haider Khan, Asif Mahmood, Shahid Ramazan and Muhammad Ramazan

118. Dielectric frequency response of Zn$_{1-x}$Mn$_x$Fe$_2$O$_4$ (0.0 ≤ x ≤ 0.5)
Sidra Zawar, Shahid Atiq, Maida Tabasum, Saira Riaz and Shahzad Naseem

119. Low frequency thermally assisted electrical resonance in V$_2$O$_5$/C composites
Muhammad Haris, Shahid Atiq, Syed Kumail Abbas and Shahzad Naseem

120. Optimization of structural morphology and its consequences on dielectric characteristics of Ni/Cr co-doped BiFeO$_3$
Mahvish Khalid, Shahid Atiq, Ali Hassan, Syed Abbas, Saira Riaz and Shahzad Naseem

121. Crystalline phase formation of PbTiO$_3$ by varying calcination temperature to study microstructure and dielectric characteristics
Maryam Ali, Shahid Atiq, Maryam Hassan, Asif Mahmood, Shahid Ramazan, Shahzad Naseem and Saira Riaz

122. Tunable magneto-electric coefficient of 0.5Bi$_{1-x}$Sm$_x$Fe$_{0.95}$Co$_{0.05}$O$_3$-0.5PbTiO$_3$ composites mediated by Sm doping
Ayesha Khalid, Shahid Atiq, Saadat Anwar Siddiqi, Asif Mahmood, Shahid Ramazan and Shahzad Naseem

123. Room temperature magnetoelectric coupling in (1-x)BiFeO$_3$-xPbTiO$_3$ composites
Muhammad Safyan, Shahid Atiq, Syed Kumail Abbas, Muhammad Younas, Saira Riaz and Shahzad Naseem

124. Structurally tuned electrical properties of pyrochlore based Ce-doped neodymium zirconate nanoparticles for capacitive applications
Ghulam Muhammad Mustafa, Shahid Atiq, Murtaza Saleem, Saira Riaz, Saadat Anwar Siddiqi and Shahzad Naseem

125. Tuning of magnetic dynamics of nano-dimensional nickel metal via damping
Syed Kumail Abbas, Shahid Atiq and Shahzad Naseem

126. Exciton-spin interaction in Co-doped GaN nanowires
Muhammad Umair Farooq, Shahid Atiq, Bingsuo Zou, Muhammad Salman Kiani and Asma Sadaf

127. Correlation of structural morphology and dielectric parameters of 0.5Bi$_{1-x}$Sm$_x$Fe$_{0.95}$Co$_{0.05}$O$_3$-0.5PbTiO$_3$ (0.0 ≤ x ≤ 0.25) composites
Ayesha Khalid, Shahid Atiq, Saira Riaz and Shahzad Naseem

128. Morphological and magnetodielectric analysis of nanocrystalline Co-Mg spinel ferrites
Maida Tabasum, Shahid Atiq, Sidra Zawar, Murtaza Saleem, Shahid Ramazan and Shahzad Naseem

129. Modification in structural, morphological and dielectric properties of lead titanate by Fe-doping
Aeqsa Ahmad, Shahid Atiq, Adyan Fatima, Shahzad Naseem, Saira Riaz, Murtaza Saleem and Saadat Anwar Siddiqi

130. Synthesis and comparison of structural, morphological and dielectric properties of XCr$_2$O$_4$ (X = Zn, Mn, Cr & Fe) spinel nanoparticles
Muhammad Burhan Shafqat, Shahid Atiq, Muhammad Ali, Murtaza Saleem and Shahzad Naseem

131. Frequency dependent impedance spectroscopy of (Ba, Co) co-doped bismuth ferrites
Sahar Fazal, Shahid Atiq and Usman Mushqaq

132. Investigation of dielectric and ferroelectric properties of Cr$_2$O$_3$ and MnCr$_2$O$_4$
Samina Nazli Khan, Shahid Atiq, Adnan Afzal, Muhammad Ashraf, Shahzad Naseem and Saira Riaz

133. Co-existence of magnetic and electric ferroic orders in La-substituted BiFeO$_3$
Muhammad Faizan, Shahid Atiq, Ali Haider Khan, Jafar M Parakkanday, I. A. Alsayed, Moin Ahmad Khan and Shahzad Naseem

134. Magnetodielectric characteristics and magnetic phase transition of ACr$_2$O$_4$ (A= Fe, Co and Ni)
Muhammad Younas, Shahid Atiq, Murtaza Saleem and Shahzad Naseem

135. Effect of Ba, Co co-doping on the morphological and multiferroic properties of BiFe$_3$O$_4$
Komal Nayab, Shahid Atiq, Saira Riaz and Shahzad Naseem

136. Investigation of multifunctionality in Ce-doped Nd$_3$Zr$_2$O$_7$
Ghulam Muhammad Mustafa, Shahid Atiq, Kumail Abbas, Asif Mahmod, Shahzad Naseem and Shahid M. Ramay

137. Polyvinylpyrrolidone coated MnFe$_2$O$_4$ as a potential nanocomposite for magnetic drug delivery
Muhammad Salman Kiani, Shahid Atiq, Muhammad Shahbaz Aslam, Ali Haider Khan, Murtaza Saleem and Shahzad Naseem

138. Magnetooactive Iron Oxide Nanoparticles - Effect of Reaction Temperature
Zaheer H. Shah, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

139. Effect of calcination on structural, optical, dielectric and magnetic properties of α-Fe$_2$O$_3$ Nanoparticles
Robina Ashraf*, Saira Riaz, Shahid Atiq and Shahzad Naseem

140. Tunable Structural, Magnetic and Dielectric Properties of CrFe$_2$O$_4$ Nanoparticles
M. Azam, Saira Riaz, Shahid Atiq, Shahzad Naseem

141. Impedance Analysis and Dielectric Transition in Nano-Milled Barium Titanate Composites
Sidra Idrees, Saira Riaz, Shahid Atiq, Shahzad Naseem

142. Surface Activation Effect on Microstructure and Dielectric Characteristics of BaTiO$_3$ Ceramics
Nudrat Humera, Saira Riaz, Shahid Atiq, Shahzad Naseem

143. Growth and Characterization of Co and Ni doped SnS for applications in dielectric and magnetic devices
Bushra Parveen, Mahmood -Ul- Hassan, Saira Riaz, Shahid Atiq and Shahzad Naseem

144. Magnetodielectric Behaviour of Microwave Synthesized Iron Oxide Thin Films
Sidra Khalid, Saira Riaz, Shahid Atiq, Shahzad Naseem

145. Exploring the structural, morphological and dielectric characteristics of La/Cr modified BiFe$_3$O$_4$ nanoparticles
Muhammad Amin, Muhammad Yousaf, Shahid Ramay, Murtaza Saleem, Shahid Atiq and Hafr Rafique

146. Dielectric Relaxation and Polaron Anomalies in La-doped BiFe$_3$O$_4$ Nanoparticles
Syeda Faiza, Samra Saeed, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

147. Magnetic and Magnetization Properties of Cobalt doped Iron Oxide Nanoparticles
Muhammad Imran, Saira Riaz, Zohra N. Kayani, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

148. Oscillatory Ferroelectric Behaviour of Magnesium Doped Iron Oxide Nanoparticles
Muhammad Imran, Saira Riaz, Zohra N. Kayani, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

149. Frequency and Temperature Dependant Complex Impedance Spectroscopy of Manganese Doped Iron Oxide Nanoparticles
Muhammad Imran, Saira Riaz, Zohra N. Kayani, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

150. Exchange Bias in Al$^{3+}$ Doped Fe$_3$O$_4$ Nanoparticles Prepared by Conventional Sol-Gel Method
Zaheer H. Shah, M. Imran, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

151. Enhanced Magnetodielectric Coupling in Cr-Doped BismuthFerrite (BiFeO$_3$) Thin Films
Attia Awan, Saira Riaz, Shahid Atiq, Shahzad Naseem

152. Magnetodielectric Polarization in Nickel Doped α-Fe$_2$O$_3$ thin films
Hassan Yousaf, Muhammad Imran, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

153. Structural, Magnetic and Dielectric Properties of Co Doped α-Fe$_2$O$_3$ Thin Films Prepared by Sol-Gel Method
Hassan Yousaf, Muhammad Imran, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

154. Magnetic and Dielectric Investigation of Chromium Substituted Hematite Thin Films
Hassan Yousaf, Muhammad Imran, Saira Riaz, Shahid Atiq, Shahzad Naseem

155. Ferroelectric Properties and Dielectric Transition in Barium Titanate Nanoparticles
M. Nafees, Saira Riaz, Shahid Atiq, Shahzad Naseem

156. Microstructure Tuning of ferroelectric Barium Titanate Nanocomposites
Nudrat Humera, Saira Riaz, Shahid Atiq, Shahzad Naseem

157. Magnetodielectric Coupling in Spinel Iron Aluminum Oxide Nanoparticles
Amreen Qamar, Saira Riaz, S. Sajjad Hussain, Shahid Atiq, Shahzad Naseem

158. Giant Oscillatory Magnetoresistance In Electrodeposited FeAl$_2$O$_4$ Thin Films
Hina Nazli, Saira Riaz, Zohra N Kayani, Shahid Atiq, Shahzad Naseem

159. Giant Magnetodielectric Coupling in Electrodeposited Iron Aluminium Oxide Nanoparticles
Fazeelat Mukhtar, Saira Riaz, Shahid Atiq, Zohra N Kayani, Shahzad Naseem
160. Magnetodielectric Behaviour of Co doped Iron Oxide Thin Films –Microwave Assisted Sol-Gel Route
    Sidra Khalid, Saira Riaz, Shahid Atiq, Shahzad Naseem

161. Effect of Solvent on Phase Stability, Magnetic and Dielectric Properties of Bismuth Iron Oxide Thin Films-
    Microwave Assisted Sol-Gel Route
    Sidra Khalid, Saira Riaz, Shahid Atiq, Shahzad Naseem

162. Effect of Solvent on Phase Stability, Magnetic and Dielectric Properties of Bismuth Iron Oxide Thin Films-
    Microwave Assisted Sol-Gel Route
    Waqar Azeem, Muhammad Tahir, Saira Riaz, Shahid Atiq, Shahzad Naseem

163. Impact of Microwave Processing on Structural and Magnetodielectric Stability of La- Doped Bismuth Iron Oxide
    Nanoparticles
    Hafiza, Syeda Faiza, Saira Riaz, Shahid Atiq, Shahzad Naseem

164. Dielectric Investigation of Chromium Doped NiFe$_2$O$_4$ Nanoparticles
    Mohammad Azam, Saira Riaz, Shahid Atiq, Shahzad Naseem

165. Enhanced ferromagnetic characteristics in Mn/Fe co-doped ZnO based dilute magnetic semiconductors
    Muhammad Amin, Muhammad Yousaf, Hafiz Rafique, Shahid Ramay, Shahid Atiq and Saadat Siddiqi

166. Growth of Fe doped SnS for Structural, Dielectric and Ferromagnetic Characterizations
    Bushra Parveen, Mahmood -Ul-Hassan, Saira Riaz, Shahid Atiq and Shahzad Naseem

167. Tunable Magnetic and Dielectric Properties of Sol-Gel Synthesized Iron Oxide Nanoparticles –Effect of pH
    Zaheer H. Shah, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

168. Interdependence of magnetic and Dielectric Behaviour of Bismuth Ferrite Thin Films- Effect of Molarity
    Attia Awan, Saira Riaz, S Sajjad Hussain, Shahid Atiq, Shahzad Naseem

169. Oleic Acid Assisted Synthesis of Fe$_3$O$_4$ and Vacancy Ordered and Disordered γ-Fe$_2$O$_3$ Nanoneedles
    Zaheer H. Shah, M. Imran, Saira Riaz, Shahid Atiq, S. Sajjad Hussain, Shahzad Naseem

170. Study of Multiferroic Characteristics BiMnO$_3$ Grown by Co-precipitation technique
    Shahid Kaleem, Mahmood -Ul-Hassan, Shahid Atiq, Saira Riaz and Shahzad Naseem

171. Role of Manganese Doping on Phase Purity, Magnetic and Dielectric Properties of BiFeO$_3$ Thin Films
    Muhammad Tahir, Saira Riaz, Shahid Atiq, Shahzad Naseem

172. Morphological mapping of (1-x)BiFeO$_3$-xPbTiO$_3$ composites and its impedance spectroscopic analysis
    Singay Ali, Shahid Atiq, Ayesha Khalid, Murtaza Saleem, Shahzad Naseem

(Invited Talk)