

## CURRICULUM VITAE

NAME	POSITION TITLE
<b>Feroz Ahmad Mir</b> Permanent Address: Beehama, Ganderbal- 191201 Jammu and Kashmir, India E-mail: <a href="mailto:famirnit@gmail.com">famirnit@gmail.com</a> , feroz@bgsbu.ac.in Mobile: +917780887961	<b>Sr. Assistant Professor,</b> Department of Physics, Baba Ghulam Shah Badshah University (BGSBU) Rajouri Jammu and Kashmir-185234,India

EDUCATION/TRAINING				
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY	
University of Kashmir, Srinagar,India	BSc	2000	Chemistry/Physics/Math	
University of Kashmir, Srinagar,India	MSc	2003	Physics (with Electronics)	
National Institute of Technology, Srinagar,India	PhD	2011	Condense Matter Physics	
Ph.D thesis title " <i>Effect of SHI irradiation on electrical, magnetic and optical properties of PrFe<sub>1-x</sub>Ni<sub>x</sub>O<sub>3</sub> thin films</i> " S. N. Bose National Centre for Basic Sciences, Kolkatta, India	Research Associate	2011(April-Nov)	Ultrafast Nanomagnetism	
University of Kashmir, Srinagar,India SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES Srinagar, India	Postdoc	2011Dec-2013(Dec.)	Nanobiotechnology	
	Scientist	2013(Dec.) - 2016(Dec.)	Radiation Physics/ Nanobiotechnology	

### CAREER OBJECTIVES

To pursue research/teaching in frontier areas of applied science, where I can use my technical knowledge and strong interpersonal skills.

My prime research interest is to use the full multidisciplinary capacity of Physics.

### (A). Positions and Honors

#### Positions and Employment

2007-2009    **Junior research fellowship (JRF)**, Department of Physics, NIT Srinagar J&K India

2009-2011    **Senior research fellowship (SRF)**, Department of Physics, NIT Srinagar J&K India.

2011April-2011Nov      **Research Associate**, S.N.Bose National Centre for Basic Sciences,Kolkatta India. Project title "*Development of GHz frequency Filters and attenuators using Nanoscale Magnonic Crystals*"

2011Dec-2013Dec      **UGC-Dr.D.S.Kothari Postdoctoral Fellowship**, University Science and Instrumentation Centre, University of Kashmir.

Project title "*Growth, Characterization of Some Magnetic-Fluorescence Nanocomposites for Biological Applications and Their Irradiation Study*"

2014 Jan-Dec 2016    **DST Fast Track Young Scientist**, Department of Nuclear Medicine, (SKIMS) SRINAGAR India.

Project title "*Isolation, Modification, Characterization Of Some Selected Plant Compounds: A Potential Radiochromic Thin Film Material*".

#### **(B). Other Experience and Professional Memberships**

2005-6                      Lecturer on contractual basis (Physics), J&K school educations, India.

2008-present                Member, Nuclear Track Detector Society of India

2010-present                Reviewer of many international journals

Jan2017 –August 2017      Lecturer on contractual basis (Physics), Zakura campus Kashmir university Srinagar,

September,2017 to till date. Assistant Professor, Department of Physics, Baba Ghulam Shah Badshah University (BGSBU) Rajouri Jammu and Kashmir-185234,India

#### **Honors**

2009                        **SRF by CSIR India.**

2011                        **Dr. D. S. Kothari UGC-PDF** by University Grants Commission      (UGC India).

2013                        **DST Fast Track Young Scientist** (Physical Sciences)

2019                        **Outstanding Researcher of the Year Award** (BGSB University)

#### **RESEARCH INTERESTS**

- ❖ Strongly correlated systems.
- ❖ Transition metal Oxides
- ❖ Total Synthesis of Nanomaterials (2,1 & 0 Dimension) for different applications.
- ❖ Coating/Thin film depositions (by various techniques)
- ❖ Ultrafast laser spectroscopy (femto second spectroscopy)
- ❖ Organic electronics/Bio-organics (sensors).
- ❖ Photovoltaic devices/Energy storage
- ❖ Radiation dosimetry, Radiation protection, Acceleration based Research.
- ❖ Nanobiotechnology

#### **(i) TECHNIQUES KNOWN/EXPERTISE**

Paper chromatography, thin layer chromatography, Ion chromatography, FT-IR (Fourier Transform Infrared Spectroscopy), UV-VIS spectrophotometer, AAS (Atomic Absorption Spectrophotometer), Raman spectroscopy, Photoluminescence, Thermo luminescence, Femto second laser spectroscopy (Pump probe method), Transport properties (magnetic, electrical, thermal) of materials under different conditions, Magnetic properties using SQUID, PPMS, VSM, FMR, NMR, EPR, TRMOKE, Mössbaur spectroscopy, Microscopy like SEM, AFM/MFM, TEM and fluorescence microscopy, Electronic Structure (XAS, XPS, NEXAFS) by using synchrotron radiations, Crystal structure using X-ray diffractions. Thermal stability analysis (DSC/TGA). Electrical properties by Resistivity vs Temperature, IV, Dielectric spectroscopy, Transit spectroscopy, CV, Electrochemical Impedance spectroscopy.

Besides knowing these techniques, I have also worked for Low Energy Ion beam accelerators, various type of radiation detectors, high temperature set up for MOKE, Gamma Camera, Unsealed radio isotopes (<sup>99</sup>Tc, <sup>131</sup>I and <sup>123</sup>I) and can operate/handle <sup>135</sup>Cs and <sup>60</sup>Co radiation sources.

### **(c).Research Support**

- (1). *"Isolation, modification, characterization of some selected plant compounds: A potential radiochromic thin film material for radiation dosimetry applications"* DST India.
- (2). *"Growth, Characterization of Some Magnetic-Fluorescence Nanocomposites for Biological Applications and Their Irradiation Study"* UGC India.
- (3). *"Effect of SHI irradiation on electrical and magnetic optical properties of RFe<sub>1-x</sub>Ni<sub>x</sub>O<sub>3</sub> (Pr,Nd, Sm & Gd) thin films"* CSIR, New Delhi India.
- (4). *"Controlled Ion implantation on some oxide based nanostructure for biological applications"* IUAC New Delhi India.
- (5). "Modification of structural and optical properties of some Coumarin based polymer composites for Radiochromatic applications after SHI irradiations" IUAC New Delhi India.
- (6). "Centre For Nano-Tech Research In Crop, Animal & Allied Sciences Of Temperate Region" DST (as Co PI).
- (7). *"Modulations of physical properties of some substrates of Microstrip antena's by SHI irradiations"* IUAC New Delhi India.
- (8). *"Controlled doping of magnetic transition metal ions on some oxide based nanostructure for biological sensing application"* UGC India.
- (9). Dielectric Breakdown Performance Of Transformer Oil Using Magnetic Nanofluids, TEQIP-III BGSB University India.
- (10). Synthesis of modified zeolite materials for drinking water treatment in urban areas, DST India (as Co PI).
- (11). "Synthesis and characterization of Dye Sensitive Solar Cells (DSSCs) based on natural dyes available in the region" JK DST.
- (12). "Tuning the Sensing Properties of Some Rare Earth Based Metal Oxide Nanostructured Biosensors By SHI Irradiations" (as PI) IUAC New Delhi India.

### **(d) Research Student/scholars Guided under my supervision:**

Ph.D	M.Phil	PG
07	01	70

### **(e). Publications**

- (1). Preparation and ac electrical characterizations of Cd doped SnO<sub>2</sub> Nanoparticles **Feroz Ahmad Mir**, K.M.Batoo ,I.Chatterjee and G.M.Bhat *Journal of Materials Science :Electronic Mat.* 25:1564–1570 (2014)

- (2). Extraordinary high dielectric constant, electrical and magnetic properties of ferrite nanoparticles at room temperature Khalid Mujasam Batoo , **Feroz Ahmad Mir** M.-S. Abd El-sadek ,Md. Shahabuddin ,Niyaz Ahmed *J Nanopart Res* (2013) 15:2067 DOI 10.1007/s11051-013-2067-6
- (3).Preparation and characterizations of Cadmium sulfide Nanoparticles **Feroz A. Mir**, I. Chatterjee and G.M.Bhat *Optik* 126, 1240–1244 (2015).
- (4). Hyperfine interaction and tuning of magnetic anisotropy of cu doped CoFe<sub>2</sub>O<sub>4</sub> ferrite nanoparticles, Khalid Mujasam Batoo, **Feroz A. Mir**, Gagan Kumar, Mahavir Singh, *Journal of Magnetism and magnetic Materials*, 411 91–97(2016).
- (5). Structural and optical properties of ZnS Nano crystals embedded in Polyacrylamide **F.A.Mir** *Journal of Optoelectronics and Biomedical Materials* Vol. 2, Issue 2, June 2010, p. 79 – 84
- (6). Effect of Ni and Au ion irradiations on structural and optical properties of nanocrystalline Sb doped SnO<sub>2</sub> thin films **Feroz A. Mir** and K.M.Batoo *Applied Physics A* 122:418 (2016).
- (7). Optical, DC and AC electrical investigations of 4-hydroxy coumarin molecule as an organic Schottky diode **Feroz Ahmad Mir**, S.Rehman, K.Asoken and G.M.Bhat *Journal of Materials Science :Electronic Mat.* 25:1258–1263(2014).
- (8). Exploring the structure, electrical and photovoltaic mechanism in PrFe0.5Ni0.5O<sub>3</sub> /GaAs heterojunction **Feroz Ahmad Mir** *Materials Science in Semiconductor Processing* 29,206–212(2015).
- (9). Structural and Dielectric Study of PrFe0.5Ni0.5O<sub>3</sub> Thin Film Prepared By Pulse Laser Deposition **Feroz A Mir** *Microelectronics and Engineering* 122, 59–63,(2014).
- (10). A Novel idea of Pseudo-code generator in quantum-dot cellular automata (QCA) F.Ahmad, N.A.Wani, M.Mustafa and **F.A.Mir** *International journal for design and simulations*, 5, A04 (2014). DOI: 10.1051/smido/2013012
- (11). Temperature dependant Raman study of PrFeO<sub>3</sub> thin film **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Journal of Raman Spectroscopy* ;, 42, 201–208 (2011). DOI 10.1002/jrs.2655
- (12). Local symmetry breaking in PrFeO<sub>3</sub> thin films and other similar systems after Ni doping: A brief Raman study **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Vibrational Spectroscopy* 55 (2011) 307–310 doi:10.1016/j.vibspec.2010.10.007
- (13).Symmetry breaking in Ni-doped PrFeO<sub>3</sub> thin films established by Raman study **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Phase Transitions* Vol. 84, No. 2, February 2011, 167–178.B doi.org/10.1080/01411594.2010.529601
- (14). Effect of substrate on physical properties of PrFe0.5Ni0.5O<sub>3</sub> thin films prepared by pulsed laser deposition **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Solid State Science* 13 (2011) 1994-1999. doi:10.1016/j.solidstatesciences.2011.09.001
- (15). Doping effects arising from Ni for Fe in PrFeO<sub>3</sub> Ceramic Thin Films **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Philosophical Magazine* Vol. 92, No. 9, 21 March 2012, 1058–1070. doi.org/10.1080/14786435.2011.637987

(16). Amorphization and disorder in PrFeO<sub>3</sub> thin films after heavy ion irradiations  
**Feroz Ahmad Mir**, M.Ikram and Ravi kumar *Applied Radiation and Isotopes* 70 (2012) 2409–2415  
doi.org/10.1016/j.apradiso.2012.06.002

(17). Optical and electrical characterization of Ni-doped orthoferrites thin films prepared by sol-gel process **Feroz Ahmad Mir**, Javid A. Banday, Christian Chong, Pierre Dahoo, and Fayaz A. Najar *European journal of Physics: Appl. Physics* (2013) 61: 10302

(18) Effect of Ni doping on magnetization and magnetotransport properties of PrFeO<sub>3</sub> thin films deposited by pulse laser technique **Feroz Ahmad Mir**, S.K.Sharma, Ravi kumar *Chin. Phys. B* Vol. 23, No. 4 (2014) 048101. DOI: 10.1088/1674-1056/23/4/048101

(19). Studies of some physical properties of PrFe<sub>0.7</sub>Ni<sub>0.3</sub>O<sub>3</sub> thin films after 200MeV Ag<sup>15+</sup> irradiation  
**Feroz Ahmad Mir** *Philosophical Magazine* Vol. 94, No. 3, 331–344, (2014).  
doi.org/10.1080/14786435.2013.853139

(20). "Crystal structure of PrFeO<sub>3</sub> thin film around antiferromagnetic-paramagnetic phase transition", **Feroz A. Mir** *International Journal of Thermophysics* 36,1654-1660,(2015).

(21). Structural, Thermal and Optical Studies of Oxypeucedanin hydrate monoacetate micro-crystals from Prangos pabularia Javid Ahmad Banday, **Feroz Ahmad Mir**, Saleem Farooq, Mushtaq A Qurishi, Surinder Koul, and Tej Kishen Razdan *American Journal of Analytical Chemistry* 3, 204-209,(2012).  
doi:10.4236/ajac.2012.33029

(22). Salicylic acid and methyl gallate from the roots of Conyza Canadensis Javid Ahmad Banday, **Feroz Ahmad Mir**, Saleem Farooq, Mushtaq A Qurishi,Surinder Koul, and Tej Kishen Razdan *International Journal of Chemical and Analytical Science* 2012,3(2),1305-1308.

(23). Isolation, Structural, Spectral and Thermal studies of Imperatorin micro-crystals from Prangos pabularia Javid Ahmad Banday, **Feroz Ahmad Mir**, M.A. Qurishi, Surinder Koul, and Tej Kishan Razdan *Journal of Thermal Analysis and Calorimetry* 2013 112:1165–1170. DOI 10.1007/s10973-012-2683-x

(24). Structural and Optical properties of Heraclenin: A Bio-Organic Molecule from Prangos Pabularia Javid Ahmad Banday, **Feroz Ahmad Mir**, Aijaz H Kant, and G.M.Bhat, *Optik* 2013 124 4655–4658.  
doi.org/10.1016/j.ijleo.2013.01.114

(25). Heraclenin : a potential optoelectronic device material from Prangos pabularia Javid Ahmad Banday,G.M.Bhat, **Feroz Ahmad Mir**, M.A. Qurishi, Surinder Koul, and Tej Kishan Razdan *Journal of Electronic Materials* 2013 42, 8, 2498-2503. DOI: 10.1007/s11664-013-2596-x

(26). Isoflavone: a brief study on structural and optical properties Soubiya. M. Buchh, **Feroz A.Mir**, Shakeel ul Rehman and Mushtaq A. Qurishi *Eur. Phys. J. Appl. Phys* 2013,62,03,31201. DOI: 10.1007/s11664-013-2596-x

(27). Crystal structure, morphological, optical and electrical investigations of Oxypeucedanin micro crystals: an isolated compound from a plant **Feroz Ahmad Mir**, G.M.Bhat, K.Asokan, K.M.Batoo, Javid A Banday, *Journal of Materials Science :Electronic Mat* 25:431–437(2014). DOI 10.1007/s10854-013-1606-3

- (28). 4-hydroxy Coumarin: a possible  $\gamma$ -radiation dosimeter Feroz A. Mir, S.Rehman, and S.H.Khan *Nuclear and Radiation Physics* **68** 21921-21922 (2014).
- (29). Structural, optical and transport properties of 4-hydroxy Coumarin: an organic Schottky diode **Feroz Ahmad Mir**, S.Rehman, K.Asoken and S.H.Khan *Applied Physics A* 116:1017–1023 (2014).
- (30). Optical properties of some modified plant compound after 662 keV gamma radiation, **Feroz A. Mir**, Sajad A. Rather, Javid A. Banday and Shoukat H. Khan *Radiation Effects and Defects in Solids* Vol. 169, No. 11, 906–912,(2014).
- (31). Transparent wide band gap crystals follow indirect allowed transition and bipolaron hopping mechanism **Feroz A. Mir**, *Results in Physics* 4, 103–104,(2014)
- (32). Optical and Schottky diode performance of Au/4-hydroxy Coumarin /ITO heterojunction , **Feroz A. Mir** *Optik Volume 126, Issue 1*, January 2015, Pages 24–27
- (33). Spectrophotometric and electrical properties of imperatorin: an organic molecule, **Feroz A. Mir** *Appl. Phys. A* 120:1659–1663,(2015).
- (34). “Gamma irradiation studies of composite thin films of poly vinyl alcohol and coumarin” **Feroz A. Mir**, Adil Gani and K. Asokan *RSC Advances* 6, 1554-1561 (2016).
- (35) “Gamma radiation response of plant isolated *coumarin glycoside*” **Feroz Ahmad Mir**, S.Rehman and S.H.Khan, *Optik Volume 127*, 8361–8366 (2016).
- (36). Growth, structural, optical and electrical properties studies of Na substituted potassium hydrogen tartrate crystals **Feroz Ahmad Mir** *European journal of Physics: Appl. Physics* February 57 : 20202 (2012). DOI: 10.1051/epjap/2011110001
- (37). Growth and various characterizations of LiHSO<sub>4</sub> single crystals, Fayaz A. Najar, Gowhar B. Vakil, Fayaz A. Wani, **Feroz A. Mir**, K. Asokan, *J Mater Sci: Mater Electron* 26:1455–1460(2015).
- (38). Fractal analysis of PrFe<sub>1-x</sub>Ni<sub>x</sub>O<sub>3</sub>(0≤x≤0.3) pervoskite samples by using micrographs **Feroz.Ahmad.Mir**, M.Ikram and Ravi kumar *Journal of Optoelectronics and Biomedical Materials* Vol. 2, Issue 3, July – September 2010, p. 161 – 165
- (39). Reduction By Hydrogen Of Vanadium In Phase And Vanadate Lead Appatites:An EPR Study M. Ikram. H.Ahmad Pietro mendes **F.A.Mir** A .Bashir A. paula , A.M.Rossi *Modern Physics Letters B* ,issue22 volume 21 page:1489-1500 (2007).
- (40).A study on SmFeO<sub>3</sub>-Polyanaline composites, **Feroz A. Mir** and Fayaz A. Wani and G.B.Vakil, *J. of Inorganic and Organometallic Poly. and Mat.* ,DOI:10.1007/s10904-016-0414-7
- (41) **CdZnO Coated Thin Films: Application for Energy Conversion Devices**, R.A. Zargar, A.H. Shah, H.A. Reshi, M. Arora, F.A. Mir, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS* Vol. **11** No 1, 01027(3pp) (2019).
- (42). **Crystallographic, Spectroscopic and Electrical Study of ZnO:CdO Nanocomposite-Coated Films for Photovoltaic Applications** R.A. Zargar, A.H. Shah, M. Arora, **F.A. Mir**, *Arabian Journal for Science and Engineering* doi.org/10.1007/s13369-019-03823-9.

- (43). Structural, morphological, vibrational, thermal and optical properties of ZnS quantum dots in Polymer Matrix **Feroz A. Mir**, Owais I. Mir and Rayees A. Zargar, *Current Alternative Energy* ,3,1-8, 2019.
- (44). Structural, optical & diode studies of PVA-Coumarin composite, **Feroz A. Mir**, Peerzada A. Ahmad, Faheem Ullah, Mudasar M. Naik and Baseerat Ghayas, *Optik* 221,165344 (2020).
- (45). A brief study on structural, optical, and photovoltaic properties of lithium sulfate monohydrate single crystals, Mudasar M. Naik, **Feroz A. Mir**, Faheem Ullah, Peerzada A. Ahmad, Baseerat Ghayas, *Journal of Materials Science: Materials in Electronics*,31:11855–11861(2020).
- (46). Growth and various characterizations of lithium sulphate monohydrate single crystals after Eu<sup>3+</sup> and Tb<sup>3+</sup> ion doping", by Fayaz Najar; Mudassar Naik; Feroz Ahmad Mir,Gowher Vakil; B Want, *Crystal Research & Technology*,<https://doi.org/10.1002/crat.202000075>
- (47). Determination of some optoelectrical and thermodynamic parameters of β-lithium ammonium sulphate crystals, Fayaz Najar; Mudassar Naik; **Feroz Ahmad Mir** Gowher Vakil *Applied Physics A*, <https://doi.org/10.1007/s00339-020-03981-w>
- (48). Measurement of radioactive nuclides present in soil samples of district Ganderbal of Kashmir Province for radiation safety purposes **Feroz A Mir** and Sajad A. Rather *Journal of Radiation Research and Applied Sciences* 8,155-159 (2015).
- (49). A study of different external beam radiotherapy techniques for cervix cancer and measurement of dose to the rectum, Sajad Ahmad, M. Mohib-ul Haq, **Feroze Ahmad Mir**, Nazir Ahmad Khan and Ajaz Ahmad *Nuclear & Radiation Phys.* 70, 23782-23784 (2014).
- (50). "A Study On UV Photoprotection Of Osthol" **Feroz Ahmad Mir** and S.H.Khan, RADIATION EFFECTS & DEFECTS IN SOLIDS, VOL. 171, NOS. 11–12, 943–950 (2016).
- (51). "A Study on Coumarin molecule as UV dosimeter", **Feroz A. Mir** & Owais I. Mir, International Journal of Photonics & Optical Technology, Vol. 4, no. 3, pp.30-33, July-September 2018.
- (52). "Effect of γ-radiations on the optoelectrical parameters of coumarin-poly vinyl alcohol composite thin films",Fayaz Najar, **Feroz Ahmad Mir**,Gowher Vakil; Suhail Ahmad Dar,Baseerat Ghayas "Radiation Physics and Chemistry 193 (2022) 109973
- (53). "Nanofluid transformer oil for cooling and insulating applications: A brief review", 'Muzaffar, Hussain,M.A. Ansari, **Feroz Ahmad Mir** ,Applied Surface Science Advances 8 (2022) 100223
- (54). "Photovoltaic response of *Carissa spinarum* berry extract in dye-sensitized solar cell", Peerzada Ajaz Ahmad, **Feroz Ahmad Mir**, Environmental Science and Pollution Research, [doi.org/10.1007/s11356-022-21584-1](https://doi.org/10.1007/s11356-022-21584-1).
- (55). "Preparation and characterization of polyvinyl alcohol–piperic acid composite film for potential food packaging applications", Ishrat Gowsia, **Feroz A. Mir**, Javid A. Banday, *Progress in Biomaterials*, [doi.org/10.1007/s40204-022-00195-6](https://doi.org/10.1007/s40204-022-00195-6).
- (56). "Polyaniline nanoparticles: A study on its structural, optical, electrochemical properties along with some possible device applications" Mudasir Hussain Rather, **Feroz A. Mir**, Faheem Ullah, Mohd Asif Bhat, Fayaz A. Najar, Gowher Shakeel, Ashiq H. Shah, *Synthetic Metals* 290 (2022) 117152.

- (57). "Some Important Parameters of LaFeO<sub>3</sub>-Polyvinyl Alcohol Polymer Nanocomposites Obtained from X-ray Diffraction and FT-IR Data" Faheem Ullah, **Feroz A. Mir**, Peerzada Ajaz Ahmad, Mudassir H. Rather, Mudassir M. Naik, Mohd Asif Bhat, Sajad A. Rather, Gowher Shakeel, Journal of Inorganic and Organometallic Polymers and Materials, doi.org/10.1007/s10904-022-02479-7.
- (58). Effect of rare-earth (Re<sup>3+</sup>) ions on the optoelectrical parameters of lithium sulfate monohydrate crystals, Fayaz A. Najar, Bilal Hamid, **Feroz A. Mir**, G. B. Vakil, Optical and Quantum Electronics (2023) 55:421.
- (59). "A Study on Fabrication and Characterization of Dye Sensitized Solar Cells with Carissa Spinuram, Iresine herbstii and Ipomoea purpurea as Sensitizers in visible light" Peerzada Ajaz Ahmad, **Feroz Ahmad Mir**, Faheem ullah, Mohd Asif Bhat, and Mudassir Hussain Rather, Optical and Quantum Electronics <https://doi.org/10.1007/s11082-022-04129-1>
- (60). Various Physical Properties of Piperic Acid : a Potential Biomaterial for Future Electronics Applications, ", Ishrat Gowsia, **Feroz A. Mir**, Javid A. Banday, Journal of Electronic Materials, <https://doi.org/10.1007/s11664-022-10004-2>.
- (61). Synthesis, Characterization and Antimicrobial Evaluation of Polyvinyl Alcohol-Osthol Composite Films, Ishrat Gowsia, **Feroz A. Mir**, Javid A. Banday, TURKISH JOURNAL OF CHEMISTRY, 2022, Vol. 46: No. 6, Article.
- (62). "*Dosimetric Comparative Study of Conformal Radiation Techniques in Patients with Glioblastoma Multiforme*" Sajad Ahmad, **Feroze Ahmad Mir** and Ajaz Ahmad, Journal of Radiation and Cancer Research, DOI: 10.4103/jrcr.jrcr\_19\_22
- (63). "Dielectric and magnetic studies of LaFeO<sub>3</sub>-Polyvinyl alcohol composites films and their subsequent use in microwave antennas" Faheem Ullah; **Feroz Ahmed Mir**, Journal of Materials Science: Materials in Electronics <https://doi.org/10.1007/s10948-022-06486-0>
- (64). A brief study on structural, optical, DNA sensing properties of PrFe0.6Ni0.4O<sub>3</sub> thin film" MOHD AASIF BHAT; POOJA Rana; **FEROZ A. MIR**; Peerzada A Ahmed; Faheem ullah; Mudassir H Rather, Journal of Materials Science: Materials in Electronics (2023) 34:814
- (65). Dielectric properties of ammonium iron sulphate-dodecahydrate alum crystal, Muzaffar Iqbal Khan, Riya Upadhyay, Rayees Ahmad Zargar, Majahid Ul Islam, **Feroz Ahmad Mir**, Trilok Chandra Upadhyay, Materials Plus, DOI: <https://doi.org/10.37256/xxxx>.
- (66). "A brief study on exploration of Ni doped PrFeO<sub>3</sub> perovskite as multifunctional material", MOHD AASIF BHAT; POOJA Rana; **FEROZ A. MIR**, Journal of Materials Science: Materials in Electronics (2023) 34:269
- (67). "Synthesis Of Metal and Metal Oxide Nanoparticles using Plants Extracts-Characterization and Applications", Ishfaq Ahmed, **Feroz A. Mir**, Javid A. Banday, BioNanoScience, doi.org/10.1007/s12668-023-01194-y (2023).
- (68). Study on Dosimetric Superiority of Forward Planned Intensity Modulated Radiotherapy Treatment of Thoracic Esophageal Squamous Cell Carcinoma, Sajad Ahmad Rather, Muddasir Sharief Banday, Shaqul Qamar Wani, Aijaz Ahmad Khan, Mudassir Ashraf Shah, Tavseef Ahmad Tali, **Feroze Ahmad**

**Mir**, Malik Mohibul Haq, Journal of Radiation and Cancer Research 15 (1), 25-30 **DOI:** 10.4103/jrcr.jrcr\_71\_22

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(70). Phase transition dielectric properties in order-disorder antiferroelectric NH<sub>4</sub> (H<sub>2</sub>PO<sub>4</sub>)(ADP) crystal, Muzaffar Iqbal Khan, Riya Upadhyay, Km Dhooma, Majahid Ul Islam, Rayees Ahmad Zargar, **Feroz Ahmad Mir**, Pawan Singh, Trilok Chandra Upadhyay, Computational Condensed Matter, 34, e00780,(2023).

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(74). “Extraction and studies of optoelectrical parameters in LaFeO<sub>3</sub>-polyvinyl alcohol composite films for optoelectronic application” Ullah, Faheem; **Mir, Feroz A**; Najar, Fayaz A; Physica B: Condensed Matter, 667, 415205 (2023).

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(76). Preparation, characterization and cooling performance of ZnO based Nanofluids, M Hussain, MA Ansari, FA Mir, Discover Applied Sciences 6 (3), 92 (2024).

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**(e). Abstracts** (list abstracts of work presented at national and international workshops/conferences)

*I have contributed in around 80 national and international workshops/conferences.*

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## **References**

S.No	Details	S.No	Details
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