



## **Dr. Sheela Devi Malik**

Associate Professor  
Department of Physics  
Bhagat Phool Singh Mahila Vishwavidyalaya  
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9968493080 • [physics.sheela@gmail.com](mailto:physics.sheela@gmail.com),

### **Fields of Interest**

Ferroelectric ceramics, Nano-ferroelectrics, Multiferroics, thin films and solar energy

### **Work Experience**

1. Assistant Professor in MSIT from 11 November 2011 to 22<sup>nd</sup> August 2024.
2. 23<sup>rd</sup> August 2024 to Till date Associate Professor in Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonipat

**Doctor of Philosophy (Ph.D) in Material Science** from Delhi University (D.U) Delhi, India. Year: **2011**

**Master of Science (M.Sc.):In Physics** with Specialization in Material Science and Solid state from Department of Physics, Kurukshetra University, Kurukshetra Year: **2005**

**Bachelor of Science (B.Sc.):In science** with the subjects **Physics, Chemistry and Mathematics** from Govt. National College Sirsa, Kurukshetra University. Year: **2003**

**Bachelor of Education (B.Ed):In physical sciences** from Defense College of Education Tohana, Kurukshetra University. Year: **2006**

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### **Awards/Honors/Achievements**

- Research in Excellence Award MSIT 2023.
- Best Researcher Award in 8<sup>th</sup> South Asian Education Awards & Summit-23<sup>rd</sup> to 29<sup>th</sup> January 2023. Education Expo.
- Outstanding Woman Researcher Award in Materials Science Venus International Foundation on 5<sup>th</sup> March 2022 (VIWA 2022).
- Best Poster Presentation award in national Conference in SLIET Punjab (AMRP 2009).
- Visited Xian Xiatong University, China, 2009, **Funded by DST.**
- Visited Jeju National University, ICC Jeju, Korea, 2013, **Funded by DST.**
- Participated and was awarded in Zonal Debate competition.
- Participated and was awarded State level Yoga competition Award.

### **M.Tech THESIS SUPERVISED**

- Structural characterization of La-substituted SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> ferroelectric ceramics” **Nisha Kumari**, Ref. No.-100802069. **Maharishi Markandeshwar University, Mullana, Ambala.**
- Synthesis and Characterization of Nanoferroelectric ceramics **Deepak Ahlawat**, Reg. No. 1000151000. (2012) **DeenBandhuChhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana.**

## Member Of BOS

6th Jan.2023 External Member in B.Sc and M.Sc syllabus design in Lingyas Vidyapeeth.

## Membership

- Life Member of **MRSI** (Materials Research Society of India) Membership No.**LMB 2189 (2013)**.
- Life Membership of**EMSI** (Electron Microscopy Society of India) MembershipNo. **LM909**.
- Life Membership of **Indian Association of Physics Teachers (IAPT)**. **L7662**.
- Executive member of Samaj Kalyan and sakshainak Trust from 2021.

## Invited for Talk

1. Effect of Size on physical, dielectric and Electrical properties of ferroelectric materials: A approach from Bulk to Nanoceramics, International Conference on Energy and Environmental Materials (INCEEM-2021), Sharda University, 29-31 July 2021, India. 30July 2021.
2. Phase Transition , Electrical, Optical And Photocatalytic Properties Of Samarium (Sm<sup>3+</sup>) And Chromium (Cr<sup>3+</sup>) Ions Co-Doped Bismuth Ferrite Nanoparticle Invited Talk in 2ND INTERNATIONAL MEET & EXPO ON MATERIALS SCIENCE AND NANOMATERIALS CONFERENCE MATERIALSMEET2023 SEPTEMBER 18-20-2023 LISBON, PORTUGAL, Date of Presentation 18<sup>th</sup> September 2023.

## Reviewers

- Journal of Theoretical and Applied Physics,5<sup>th</sup> Nov 2022
- Materials Today Proceedings

Scopus Id: 25958037200

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Web of Science Researcher ID: ABF-7365-2021

## Ph.D Thesis Supervision

1. Shilpi Jindal,Chandigarh University on topic”Microstructural and Electrical Investigations of Tungsten Bronze Multiferroic Ceramics” **Awarded on June 2018**. Chandigarh University, Mohali.
2. Mekonnen Tefera Kebede Sharda University “Structural and Magnetic properties of rare-earth and Transition metal ions co-doped bismuth ferrite (bifeo<sub>3</sub>) NANOPARTICLES”. Date of registration 12<sup>th</sup> December 2018. **Awarded on 19 August 2023**, Sharda University, Greater Noida.
3. Mikanshi Choudhary “Micro structural, Dielectric, Ferro and optical Investigations of transition metal doped BST ceramics” date of registration September 2021. **Thesis Writing**
4. Srishti Choudhary Structural, electrical, and optical properties of Transition Metal doped Tungsten

5. Sanju

6. Madhu

### **Patents**

- Deep Learning Enabled Cloud Based IOT and Machine Learning Implemented System for Detecting and Preventing Heart Abnormalities. Date of Filing 10 December 2021. Date of Publication – 17<sup>th</sup> Dec 2021  
Application No. (Patent No.)202111057428 Sponsoring Agency  
**Dr. Sheela Devi**, Dr. Smita Sharma, Dr. Sheshang Degadwala, Dipak Bhusari, Balaji Ramkumar, Rajagopal Nabamita Deb
- Solution Phase Method for Carbon dots Synthesis  
**Dr. Sheela Devi**, Dr. Sumita Dabas, Dr. Ajay Kumar Singh, Dr. Venus Dillu, Dr. Sobinder Singh  
Date of Filing – 23<sup>rd</sup> Dec 2021, Date of Publication 29<sup>th</sup> April 2022, Application No. 202111060201
- A Cadmium and Indium doped M Type Barium nano hexaferrites synthesized by sol-gel technique  
**Dr. Sheela Devi**, Dr. Venus Dillu, Dr. Ajay Kumar Singh, Dr. Sumita Dabas, Dr. Preeti Rani  
Date of Filing- 21<sup>th</sup> Feb 2022, Application No. 202211008823

### **Workshops Attended**

- Short term course on nanomaterials: characterization & Applications, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh from 10<sup>th</sup> Nov-14<sup>th</sup> Nov 2014 (One week).
- Short term course on nanomaterials: characterization & Applications, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh from 16<sup>th</sup> Nov - 20<sup>th</sup> Nov 2015 (One week).
- Workshop on “Human Values and Professional ethics” USIT, IPU, Dwarka, 25<sup>th</sup> July-31<sup>st</sup> July 2013.

### **Book Chapters**

- Electrical characterization of electro-ceramics, Book Name: Composite Materials: Properties, Characterization and Applications, Publisher: CRC Press Taylor & Francis is listed in Clarivate Analytics (Web-of-Science) master booklist/Scopus, Inspec, Psyc INFO, Compendex, 12<sup>th</sup> Feb 2021. ISBN 9780367490768, 2021, Taylor & Francis no. of Pages 24, Sheela Devi and Shilpi Jindal, Pub. Location Boca Raton, United States.
- Book Title Smart and Advanced Ceramic Materials and Applications, Chapter Title Synthesis and Characterization of Nano Bismuth Ferrites, Sheela Devi, Venus Dillu, Mekonnen Tefera Kebede, ISBN: 978-1-80355-865-3, Intech open, London. 2 022

### **Project**

1. Utilizing Nano-Crystalline Multiferroic Ferroelectric Materials for Enhanced Charge Storage and Microwave Tunable Device Applications, DST SERB. (Accepted for evaluation)

### **List of Publications**

## Research Papers in International Journals

**2024**

36. Impact of B-site Substitution of Transition Metal (Fe and Mn) on the Structural, Electrical, and Magnetic Properties of Tungsten Bronze Ferroelectric Ceramic, Shristi Chaudhary1  
Sheela Devi Shilpi Jindal Kamal Kumar Kushwah, Journal of Electronic Materials, Vol.53,  
Issue 5 (2024) ISSN No. 0361-5235. Corresponding author <https://doi.org/10.1007/s11664-024-11083-z>
35. A comparative investigation of structural, magnetic and photocatalytic properties of pure, Ce-Ni and Cd-Ni co-doped BiFeO<sub>3</sub> nanoparticles, Mekonnen Tefera Kebede , Venus Dillu, Sheela Devi, Sunil Chauhan, Materials Science & Engineering B, 301(2024) 117188, ISSN No. 1873-4944.  
<https://doi.org/10.1016/j.mseb.2024.117188>
34. Enhancing Structural, Optical, Magnetic, Dielectric and Impedance Properties of Ba<sub>0.95</sub>Sr<sub>0.05</sub>Ca<sub>5</sub>Ti<sub>2-x</sub>Fe<sub>x</sub>Nb<sub>8</sub>O<sub>30</sub> Tungsten Bronze Ferroelectric Ceramic through Fe/Ti Ratio on Optimization for the Advanced Device Applications, Srishti Choudhary, **Sheela Devi**, Shilpi Jindal, Materials Chemistry and Physics **Accepted on 18 oct. 2023**. 312 (2024) 128580 ISSN No 0254-0584, Impact Factor 4.6, <https://doi.org/10.1016/j.matchemphys.2023.128580>

**2023**

33. Rhombohedral distortion induced structural, magnetic, optical phase transitions and photocatalytic activity in Sm and Sm-Cr co-substituted bismuth ferrite nanoparticles Mekonnen Tefera Kebede , **Sheela Devi \***, Venus Dillu , Sunil Chauhan, Journal of Crystal Growth 620 (2023) 127336, Impact factor 1.83, Science direct <https://doi.org/10.1016/j.jcrysgro.2023.127336> ISSN No. 0022-0248. Netherlands
32. Dopant and milling time effect on impedance and electrical properties of perovskite Ceramics, Shristi Chaudhary, Mikanshi Chaudhary, **Sheela Devi\***, Shilpi Jindal, Journal of Theoretical and Applied Physics Volume 17, Issue 2, 172322 (1-9), 2023, 10.57647/J.JTAP.2023.1702.22 ISSN No 2251- 7227. Impact Factor 1.92
31. Comparison of structural and dielectric properties of Doped (M,R and A) barium strontium titanate: Review Mikanshi, Shristi Choudhary, **Sheela Devi**, Shilpi Jindal Accepted 2023, Material Today: Proceedings Country United Kingdom Impact Factor 1.46 <https://doi.org/10.1016/j.matpr.2023.01.264> ISSN NO. 2214-7853

**2022**

- 30 Structural transition and enhanced magnetic, optical and photocatalytic properties of novel Ce–Ni co-doped BiFeO<sub>3</sub> nanoparticles, Mekonnen Tefera Kebede, Sheela Devi,\* , Babita Tripathi, Sunil Chauhan, Venus Dillu, Materials Science in Semiconductor Processing, 152 (2022) 107086, <https://doi.org/10.1016/j.mssp.2022.107086>, ISSN No 1369-8001, Science Direct, Country United Kingdom, 12<sup>th</sup>Sep 2022, Impact Factor 3.927 Corresponding Author.

- 29 Effects of Sm and Cr co-doping on structural, magnetic, optical and photocatalytic properties of BiFeO<sub>3</sub> nanoparticles, MekonnenTefera Kebede, Sheela Devi, Venus Dillu, Sunil Chauhan, *Materials Science & Engineering B*, 283 (2022) 115859, <https://doi.org/10.1016/j.mseb.2022.115859>, ISSN NO 0921-5107, Publisher of Journal Elsevier, Country United Kingdom, 7<sup>th</sup> July 2022. Impact Factor 4.051. Corresponding Author.
28. Influence of novel Cd – Ni co-substitution on structural, magnetic, optical, and photocatalytic properties of BiFeO<sub>3</sub> nanoparticles MekonnenTefera Kebede, Sheela Devi, Venus Dillu, Sunil Chauhan, *Journal of Alloys and Compounds* 894, 15<sup>th</sup> Feb 2022, 162552, <https://doi.org/10.1016/j.jallcom.2021.162552> ISSN 0925-8388 Impact Factor 5.13, country Netherlands Publisher of Journal Elsevier.
27. Crystal structure refinement and Magnetic properties of Sm<sup>3+</sup> doped BiFeO<sub>3</sub> nanoparticles, MekonnenTefera Kebede, Venus Dillu, Sheela Devi, Sunil Chauhan, *Physica B: Condensed Matter*, 624 (Jan.2022) 413374. Impact factor 2.88 SCIE ISSN No. 0921-4526 <https://doi.org/10.1016/j.physb.2021.413374>, Netherland.
26. Prospective features of multiferroic tungsten bronze ceramics and its futuristic applications, Shilpi Jindal, Ajay Vashisth, Sheela Devi, Kamal Kumar Kushwah, **Materials Today: Proceedings**, Vol. 51, 2022, pp 1252-1258. <https://doi.org/10.1016/j.matpr.2021.07.351> ISSN No. 2214-7853
25. Phase formation and spectroscopy analysis of doped bismuth ferrite nanoparticles MekonnenTeferaKebede, Venus Dillu, Sheela Devi, Sunil Chauhan, R.C. Singh **Materials Today: Proceedings**, Vol. 49, 2022, pp 3453-3456 ISSN No. 2214- 7853 <https://doi.org/10.1016/j.matpr.2021.03.654>  
2021
24. Synthesis and characterization of samarium substitutes bismuth ferrites nanoparticles, Venus Dillu, Mekonnen Tefera Kebede, **Sheela Devi**, Sunil Chauhan, **Materials Today: Proceedings**, 34, 2021, 813-816 ISSN No. 2214-7853 Impact Factor 1.46 Scopus, United Kingdom <http://dx.doi.org/10.1016/j.matpr.2020.05.348>  
2020
23. Phase transition and optical properties of samarium-doped BiFeO<sub>3</sub> Nanoparticles, Mekonnen Tefera Kebede, Venus Dillu, **Sheela Devi** & Sunil Chauhan, **Journal of Materials Science: Materials in Electronics**, 31, (2020) 9950–9960 ISSN 0957-4522, <https://doi.org/10.1007/s10854-020-04518-w>. Impact Factor 2.43, [United States](https://www.springer.com) date of Publications 27-09- 2020, Publisher Springer.
22. Investigation of structural, ferroelectric and magnetic properties of iron doped tungsten bronze multiferroic ceramics, Shilpi Jindal, Ajay Vashisth, **Sheela Devi**, Nupur Aggarwal, Kamal Kumar Kushwah, **Physica B: Physics of Condensed Matter**, 595 (2020) 412341. Impact Factor 2.41 ISSN: 0921-4526 doi:10.1016/j.physb.2020.412341, 15 October 2020. ISSN No. 0921-4526 Netherland  
2018
21. Impact of copper substitution on the structural, ferroelectric and magnetic properties of Tungsten Bronzeceramics, Shilpi Jindal, Sheela Devi, Khalid MujasamBattoo, Gagan Kumar, Ajay Vashisth, *Physica B: Condensed Matter*, 537 (2018) 87– 92 Impact Factor 2.41 ISSN No. 0921-4516 SCI. <https://doi.org/10.1016/j.physb.2018.02.008>, 15 May 2018 Netherland
- 20 Structural and Dielectrical Properties of Lead Free Polycrystalline electroceramics Ba<sub>5</sub>CaTi<sub>2</sub>Nb<sub>8</sub>O<sub>30</sub> (BCTN) for Microwave Tunable Device Applications, Shilpi Jindal, **Sheela Devi**, Ajay Vashisth, Gagan Kumar, **Materials Sciences and Applications**, 9 (2018) 55-67 ISSN Online: 2691-9478 Impact Factor 1.62, <https://doi.org/10.4236/msa.2018.91004> United States.
19. A review on tungsten bronze ferroelectric ceramics as electrically tunable devices, Shilpi Jindal, Ajay Vashisth, Sheela Devi & Gagan Anand, **Integrated Ferroelectrics**, 186 (2018) 1-9, ISSN NO

18. Interdependence between electrical and magnetic properties of polycrystalline cobalt substituted tungsten bronze multiferroic ceramics, Shilpi Jindal, Sheela Devi, Ajay Vasishth, Khalid Mujasam Battoo, Gagan Kumar *Journal of Advanced Dielectrics*, 8, No. 1 (2018) 1850002. ISSN No. 2010-1368. Impact Factor 1.99, Singapore <https://doi.org/10.1142/S2010135X18500029>

## 2017

17. Synthesis and characterization of polycrystalline  $Ba_5CaTi_{2-x}M_xNb_8O_{30}$  (M=Cu) Tungsten Bronze Electro ceramics, Shilpi Jindal, Ajay Vasishth, **Sheela Devi**, Bikramjit Singh *Ferroelectric* 519 (2017) 9-14. Impact Factor 0.5 ISSN: 1563-5112 <https://doi.org/10.1080/00150193.2017.1362278>, United Kingdom

## 2015

16. Structural and Dielectric properties of Co substituted Multiferroic Ceramics Shilpi Jindal, Ajay Vasishth, **Sheela Malik**, *Journal of basic and Applied Engineering Research (JBAER)* 2, Issue 21(2015) 1877-1879. ISSN: 2350-0077 Impact Factor **4.23**.

## 2013

15. Effect of milling time on phase transition in  $BaTi_{0.095}W_{0.05}O_3$  nanoceramics synthesized by high-energy ball milling, Sheela Devi and A. K. Jha, *International Journal of Modern Physics* 22 (2013) 140-147. ISSN NO. 2010- 1945. <https://doi.org/10.1142/S2010194513010027>, Singapore Impact Factor 2.22.

## 2012

14. Enhancement of piezoelectric and ferroelectric properties in wolframium substituted barium titanate Ferroelectric, **Sheela Devi** and A. K. Jha, *Indian Journal of Physics*, 86 (4) (2012) 279–282 ISSN No. 0973-1458 Impact Factor -1.7, SCIE, <http://dx.doi.org/10.1007/s12648-012-0056-8>

## 2011

13. Tungsten substituted barium titanate: Effect of heating rate on microstructural, dielectric and ferroelectric properties, **Sheela Devi** and A. K. Jha, *Current Applied Physics*, 11 (2011) S95-S99. ISSN No. 15671739, Impact factor-2.2, <http://dx.doi.org/10.1016/j.cap.2011.03.026>, Netherlands.
12. Microstructural and electrical characterization of W substituted barium strontium titanate ferroelectric Ceramics, A.K. Jha and **Sheela Devi**, *Ferroelectrics*, 420 (2011) 1-9, ISSN: 1563-5112 Impact Factor- 0.8 <https://doi.org/10.1080/00150193.2011.594018>, United Kingdom.
- 11 Investigations of Nanocrystalline Ferroelectric Barium Titanate Synthesized by High-Energy Ball Milling, **Sheela Devi** and A. K. Jha, *AIP Conference Proceedings*, 1372 (2011) 147—52 organization American Institute of Physics. ISSN NO. 1551-7616. Impact factor 0.40., United States <https://doi.org/10.1063/1.3644416>

## 2010

10. Structural, dielectric and ferroelectric properties of tungsten substituted barium strontium titanate **Sheela Devi** and A. K. Jha, *Ferroelectrics*, 402, 1 (2010) 168-74 ISSN No. 0015-0193 Impact Factor- 0.8 <https://doi.org/10.1080/00150191003709347>
- 9 Dielectric and Complex Impedance Studies of  $BaTi_{0.85}W_{0.15}O_{3+\delta}$  Ferroelectric Ceramics, **Sheela Devi** and A. K. Jha *Bulletin of Materials Science* 33, 6(2010) 683-690. ISSN No. 0250-4704 Impact



## 2009

8. Effect of W Substitution on Structural, Dielectric and Electrical Properties of BaTiO<sub>3</sub> Ferroelectric Ceramics **Sheela Devi**, Prasun Ganguly, Sameer Jain, and A.K. Jha, **Ferroelectrics** 381 (2009) 120-129 ISSN No. 0015-0193 Impact factor 0.56 <http://dx.doi.org/10.1080/00150190902869780s>.
7. Phase transitions and electrical characteristics of tungsten substituted barium titanate **Sheela Devi** and A.K. Jha, **Physica B: Condensed Matter** 404 (2009) 4290–4294, ISSN No. 0921-4526 Impact Factor-2.34, <https://doi.org/10.1016/j.physb.2009.08.064> Netherland.
6. Dielectric and Pyroelectric studies of Tungsten – Bronze Structured Ba<sub>5</sub>SmTi<sub>3</sub>Nb<sub>7</sub>O<sub>30</sub> Ferroelectric Ceramics, Prasun Ganguly, **Sheela Devi**, A. K. Jha and K. L. Deori **Ferroelectrics** 381 (2009) 111-119 ISSN No. 0015-0193, **Impact factor- 0.56** <https://doi.org/10.1080/00150190902869772> United Kingdom.
5. Structural, Dielectric and Ferroelectric Studies of Molybdenum Substituted Sr<sub>2</sub>Bi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> Ferroelectric Ceramics, Sameer Jain, Prasun Ganguly, **Sheela Devi** and A. K. Jha **Ferroelectrics** 381(2009)152-159 ISSN No. 0015-0193 Impact Factor- 0.8 <https://doi.org/10.1080/00150190902870051> United Kingdom.
4. Structural, Dielectric and Ferroelectric Properties of Tungsten Substituted Barium Titanate Ceramics, **Sheela Devi** and A. K. Jha, **Asian Journal of Chemistry** 21, No.10 (2009) S117-124. ISSN No. 0970-7077 Impact Factor 0.31

## 2008

3. Effect of Sintering Temperature on Dielectric Properties of Tungsten Doped Barium Titanate, **Sheela Devi**, Sameer Jain and A. K. Jha **Proc. Of IEEE**, Vol. 1,( 2008) pp 13-17, <https://doi.org/10.1109/ISAF.2008.4693887> Impact Factor 10.25 ISSN No. 2375-0448 SCIE **United States**.
2. Dielectric and electrical studies of SrBi<sub>2</sub>Nb<sub>1.9</sub>V<sub>0.09</sub> ferroelectric ceramics S. Jain, S. Devi, A.K Jha, **Proc. of IEEE**, ,1, 2008, 1-5, <https://doi.org/10.1109/ISAF.2009.5307608> SCIE, Impact Factor 10.25 ISSN NO. 2375-0448 **United States**.
1. Ferroelectric, Pyroelectric and piezoelectric studies in Ba<sub>5</sub>SmTi<sub>3</sub>Nb<sub>7</sub>O<sub>30</sub> ceramics P Ganguly, S Devi, A.K Jha, K.L Deori, **Proc. of IEEE**, Vol. 1 (2008) 18-22 <https://doi.org/10.1109/ISAF.2009.5307605> SCIE **United States**.

## In International Conferences

### 2024

### 2023

6. Sheela Devi, Oral Talk on Phase Transition , Electrical, Optical And Photocatalytic Properties Of Samarium (Sm<sup>3+</sup>) And Chromium (Cr<sup>3+</sup>) Ions Co-Doped Bismuth Ferrite Nanoparticle Invited Talk in 2ND INTERNATIONAL MEET & EXPO ON MATERIALS SCIENCE AND NANOMATERIALS CONFERENCE MATERIALSMEET2023 SEPTEMBER 18-20-2023 LISBON, PORTUGAL, Date of Presentation 18<sup>th</sup> September 2023.

### 2022

5. **Sheela Devi**, oral Talk on STRUCTURAL AND ELECTRICCAL CHARACTERIZATION OF NANOBISMITH FERRITES in 11<sup>th</sup> International conference on Advances in Metrology” (AdMet-2022) 24<sup>th</sup> Aug -26<sup>th</sup> Aug 2022 held at CSIR-NPL, New Delhi-110012.

2008-2021

4. Neelam Maikhuri, **Sheela Devi**, Amrish K. Panwar, and A. K. Jha, Dielectric, Ferroelectric and Transport Properties of Co Substituted BaTiO<sub>3</sub>, International Conference on Advanced Electromaterials, November 12-15, 2013, ICC jeju, korea.
3. **Sheela Devi** and A. K. Jha: Effect of milling time on phase transition in BaTi<sub>0.995</sub>W<sub>0.005</sub>O<sub>3</sub>nanoceramics synthesized by high-energy ball milling, International Conference on Ceramics, 12<sup>th</sup> Dec -13<sup>th</sup> Dec 2012, Bikaner, India. Organized by Bikaner Engineering College.
2. **Sheela Devi** and A. K. Jha, Structural, Dielectric and Ferroelectric Studies of Tungsten Substituted Barium Strontium Titanate Ferroelectric Ceramics, 12<sup>th</sup> International Meeting on Ferroelectricity (IMF-12) & 18<sup>th</sup> IEEE, International Symposium on the Applications of Ferroelectrics (ISAF-18), 23<sup>rd</sup> August-27<sup>th</sup> August 2009, Xian, China.
1. **Sheela Devi** and A. K. Jha, Dielectric and electrical behaviour of tungsten substituted barium strontium titanate ferroelectric ceramics, International conference on Electroceramics, 13<sup>th</sup> Dec -17<sup>th</sup> Dec, 2009 University Centre, Delhi University.

## National Conferences

### 2024

### 2023

11. 28<sup>th</sup> International Conference on Nuclear Tracks and Radiation Measurements” (28<sup>th</sup> ICNTRM-2023), during 6–10 November 2023. Will be held in Gurugram University, Gurugram.

10. The 34<sup>th</sup> Annual General Meeting of MRSI and 5<sup>th</sup> Indian Materials conclave from **December 12 - 15, 2023**, is being organized at **IIT (BHU), Varanasi** in collaboration with **Materials Research Society of India (MRSI)**.

### 2016-2022

- Shilpi Jindal, Ajay Vasishth, **Sheela Devi**, Structural and Magnetic study of Ba<sub>5</sub>CaTi<sub>2-x</sub>M<sub>x</sub>Nb<sub>8</sub>O<sub>30</sub> (M=Cu) ceramics prepared by solid state reaction, International Conference on Nano for Energy and Water (NEW-2017) & Indo-French Workshop on Water Networking, 22<sup>th</sup> Feb-24<sup>th</sup> Feb 2017, University of Petroleum and Energy Studies (UPES), Dehradun.
- Shilpi Jindal, Ajay Vasishth, Sheela Devi, Effect of Co<sup>2+</sup> Substitution on Ferroelectric Properties of Lead - Free Ba<sub>5</sub>CaTi<sub>2-x</sub>M<sub>x</sub>Nb<sub>8</sub>O<sub>30</sub> (M=Co) Tungsten Bronze Ceramics National Conference on Functional materials: State of art (NCFM-2017) 31<sup>st</sup> March-1<sup>st</sup> April 2017 Sharda university.
- **Sheela Devi** and A. K. Jha, Enhancement of Dielectric and Ferroelectric Properties by Optimization of Sintering Condition in Barium Titanate Prepared by Mechanical Activation Process, National Conference on Sensors & Actuators: Science to Technology, Central Glass & Ceramic Research Institute (CGCRI),



Kolkata.

11<sup>th</sup> March - 12<sup>th</sup> March 2011.

- **Sheela Devi** and A.K.Jha, Investigations of nanocrystalline ferroelectric barium titanates synthesized by high-energy ball milling. 16<sup>th</sup> National Seminar on Ferroelectrics & Dielectrics-2010 (NSFD-16), 2<sup>nd</sup> Dec – 4<sup>th</sup> Dec 2010, Guru Ghasidas University, Bilaspur, Chhattisgarh.
- **Sheela Devi** and A. K. Jha, Dielectric behaviour of wolframium substituted barium titanate ferroelectric Ceramics: Effect of heating rate, **National Conference on Smart, Electronic and Engineering Materials 2010 (SEEMs'10)** held at Behind, Punjab from 5<sup>th</sup> March - 6<sup>th</sup> March 2010.
- **Sheela Devi** and A. K. Jha, Structural and Dielectric Investigations of Tungsten Doped Barium Titanate Ceramics, National Seminar on Electro ceramics, Sonapat, 5<sup>th</sup> Nov – 6<sup>th</sup> Nov 2007.
- Sheela Devi and A. K. Jha Effect of temperature and frequency on the dielectric and ferroelectric Properties of Tungsten doped barium titanate, 15<sup>th</sup> National Seminar on Ferroelectrics & Dielectrics-2008 (NSFD-15), 6<sup>th</sup> Nov - 8<sup>th</sup> Nov 2008, Thapar University, Patiala.
- Prasun Ganguly, **Sheela Devi**, A. K. Johan and K.L. Deori, Effect of sintering conditions on the electrical properties of  $Ba_5SmTi_3Nb_7O_{30}$ , Ferroelectric ceramics, 15<sup>th</sup> National Seminar on Ferroelectrics & Dielectrics-2008 (NSFD-15) 6<sup>th</sup> Nov - 8<sup>th</sup> Nov 2008, Thapar University, Patiala.
- **Sheela Devi** and A. K. Jha, Structural, Dielectric and Ferroelectric Properties of Tungsten Substituted Barium Titanate Ferroelectric Ceramics., National conference on Advanced Materials and Radiation Physics (AMRP-09), 9<sup>th</sup> Nov- 10<sup>th</sup> Nov 2009, Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Punjab (**Best Poster Award**).

### **Participation in FDPs**

1. Online One Month Faculty Induction Programme organized by the UGC-HRDC, Jamia Millia Islamia, New Delhi from 4<sup>th</sup> July to 2<sup>nd</sup> August 2023 and obtained grade ...A
2. One day workshop on “understanding opportunities in the solar energy” held on 28<sup>th</sup> March 2012 at MSIT, New Delhi.
3. FDP on “Digital Design using Verilog HDL” conducted by Trident Tech Labs Pvt. Ltd held from 17<sup>th</sup> Feb – 19<sup>th</sup> Feb 2014 at MSIT, New Delhi.
4. One day FDP on “signal processing and its applications” held on 4<sup>th</sup> Oct 2014 at MSIT, New Delhi.