

*Curriculum Vitae of*  
**Professor ASHISH AGARWAL**

Department of Physics

Guru Jambheshwar University of Science & Technology, Hisar-125 001, Haryana, India

*E-mail: [aagju@yahoo.com](mailto:aagju@yahoo.com); [Agarwal@gjust.org](mailto:Agarwal@gjust.org)*

**ACADEMIC RECORD**

| Sr. No. | Degree             | University               | Year              | Subject                                       | %age | Distinction, if any                          |
|---------|--------------------|--------------------------|-------------------|---|------|--|
| 1.      | B.Sc.              | M.D. University, Rohtak. | 1990              | PCM, English                                  | 65.4 | -  |
| 2.      | M.Sc.              | M.D. University, Rohtak. | 1992              | Physics                                       | 80.6 | <b>Gold Medal</b>                            |
| 3.      | M.Phil.            | M.D. University, Rohtak. | 1994 <sup>*</sup> | Physics (specialization Materials Science)    | 72.0 | <b>2<sup>nd</sup></b> position in University |
| 4.      | Ph.D. <sup>#</sup> | M.D. University, Rohtak. | 2005              | Physics (specialization in Materials Science) | -    | -  |

<sup>\*</sup>*NET Qualified in the year 1994*

<sup>#</sup>Title of Ph.D. thesis: ***STUDY OF ELECTRON PARAMAGNETIC RESONANCE, OPTICAL AND ELECTRICAL PROPERTIES (CONDUCTIVITY) OF GLASSES***

**Area of Specialization: MATERIALS SCIENCE**

**Academic Position in University:**

**Director, IQAC at GJUST, Hisar since 22 May 2018 till date.**

**University has been ranked among top 100 Universities in NIRF rankings in 2020 and 2021.**

**Recently University has applied for NAAC Assessment and Accreditation for the 4<sup>th</sup> cycle.**

**Chairman, Dept. of Physics, GJUST since 01 December 2021 till date.**

## **SUMMARY OF PERFORMANCES**

|     |  |                 |
|-----|--|-----------------|
| (a) | Teaching Experience                      | <b>28 years</b> |
| (b) | Research Experience                      | <b>26 years</b> |
| (c) | Academic visits abroad                   | <b>05</b>       |
| (d) | Publications (Annexure-I)                | <b>201</b>      |
|     | i) International Journals                | <b>185</b>      |
|     | ii) National Journals                    | <b>16</b>       |
| (e) | Symposia/Workshops/ Conferences attended | <b>24</b>       |
|     | i) International                         | <b>09</b>       |
|     | ii) National                             | <b>15</b>       |
| (f) | Ph.D. Supervision                        | <b>20</b>       |
|     | i) Completed                             | <b>14</b>       |
|     | ii) Submitted                            | <b>-</b>        |
|     | iii) In progress                         | <b>06</b>       |
| (g) | Research Projects                        | <b>08</b>       |
|     | i) Completed                             | <b>06</b>       |
|     | ii) In Progress                          | <b>02</b>       |
|     | iii) Submitted                           | <b>-</b>        |
| (h) | Refresher / Orientation courses attended | <b>04</b>       |

## **CURRENT RESEARCH INTERESTS**

Structural, electrical and optical properties of oxide glasses, rare earth/transition metal doped glasses and preparation & characterization of multiferroics, quantum spin liquid, nano-ferrites and nano-ceramics including crystal structure and magnetism.

## **ACADEMIC VISITS ABROAD**

- 15th Conference & Exhibition of the European Ceramic Society (ECerS 2017) at Budapest (Hungary), 09 - 13 July 2017.
- **22<sup>nd</sup>** International conference on Processing and Fabrication of Advanced Materials at National University, Singapore. Dec. 18-20, 2013.
- **BOYSCAST fellowship** of DST, New Delhi, Govt. of India at Department of Electronic Systems Engineering, University of Essex, Colchester, **UK**, March 2005 to March 2006.
- **XX<sup>th</sup>** International Congress on Glass at Kyoto International Conference Hall, **Kyoto, JAPAN**, September 26-October 01, 2004
- **X<sup>th</sup>** International conference on the Physics of Non-Crystalline Solids at **Parma (ITALY)**, July 13-17, 2003.

## Conferences/Symposia/Workshop/Webinars (International & National) Organized:

- Organizing Secretary for Science Conclave 12-13 February 2019 at GJUS&T, Hisar
- Member Local organizing Committee for 63<sup>rd</sup> DAE-SSPS, 18-22 December 2018, during the tenure as Chairperson, Department of Physics, GJUS&T, Hisar
- Member Organizing Committee for International Conference on Advances in Optics and Photonics (ICAOP-2017) (XLI Conference of Optical Society of India), 23-26 November 2017, organized by Department of Physics, GJUS&T, Hisar
- Organizing Secretary for 21<sup>st</sup> International Conference of International Academy of Physical Sciences (CONIAPS XXI) during October 28-30, 2017 organised by Department of Mathematics, GJUS&T, Hisar
- Member Organizing Committee for 3<sup>rd</sup> National Conference on Photonics & Materials Science organized by Department of Applied Physics, Hisar, Haryana, 18-19 Nov., 2015
- Member Local organizing Committee for 2<sup>nd</sup> National Conference on Photonics & Materials Science organized by Department of Applied Physics, Hisar, Haryana, 14-15 March, 2014.
- Organizing Secretary for National Conference on Photonics & Materials Science at Department of Applied Physics, Hisar, Haryana, October 24-25, 2008.

## EXTENSION LECTURES

- Resource person during FDP on "Recent Trends in Science and Technology" organized by Guru Nanak Khalsa College, Yamuna Nagar on 1 March 2022.
- Resource person in the ATAL- Faculty Development Program (FDP) on “**Novel Materials and their Applications**” organized by the Department of Physics, Maharaja Ranjit Singh Punjab Technical University, Bathinda from 19<sup>th</sup> to 23<sup>rd</sup> July 2021.
- Delivered invited lecture in AICTE sponsored One Week Online FTP on “Recent Trends in Physics of Engineering Materials” Date:07-12th June 2021 organized by DCRUST Murthal on 11.06.2021
- Resource person for One week online Short Term Course on “Synthesis and Characterization of Nanomaterials (SCNM-2020)” organized by Department of Physics, J.C. Bose University of Science and Technology, YMCA, on 5th Nov., 2020
- Delivered 01 lecture in Refresher Course organized by Gujrat University in July 2020.
- Delivered 01 lecture in National Conference on Applied Physics & Materials Science, MDU, Rohtak, Feb. 5-6, 2015.
- Delivered 01 lecture in National Seminar on Recent Developments in Theoretical & Experimental Physics, SD College (Lahore), Ambala Cantt, March 21, 2015.
- Delivered 01 lecture in National Conference on Emerging Trends in Physics & Materials Science, CDLU, Sirsa, March 9-10, 2015.

- Delivered 01 lecture in the refresher course in Chemistry at GJUST, Hisar (07 May 2014).
- Delivered 02 lectures in the refresher course in Physics at K.U. Kurukshetra (17 May 2013).
- Delivered 01 lecture in the refresher course in Physics at GJUST Hisar (May 2013).
- Invited talk Crystal Structure refinement, dielectric and magnetic properties of novel materials delivered at DCRUST, Murthal in National Conference on 16-03-13.
- Invited talk delivered during International Conference on Emerging Trends in Physics for Environmental Monitoring & Management held at Punjabi University, Patiala (Dec. 17-19, 2012).
- Delivered 02 lectures in PDP for research scholars GJUST Hisar (2011).
- Delivered 01 lecture in the refresher course in Physics at GJUST Hisar (2010).
- Delivered 02 lectures in the refresher course in Physics at GCW, Rohtak (May 7-27, 2008).

### **WORKSHOP / SYMPOSIA/ CONFERENCES ATTENDED**

- ❖ 63rd DAE-SSPS, 18-22 December 2018, GJUS&T, Hisar.
- ❖ Workshop on Innovation and Intellectual Property Rights, GJUST, Hisar, March 09, 2016.
- ❖ 59<sup>th</sup> DAE-SSPS Amity Noida 21-25 December 2015.
- ❖ National Seminar on Recent Developments in Theoretical & Experimental Physics, SD College (Lahore), Ambala Cantt, March 21, 2015.
- ❖ National Conference on Emerging Trends in Physics & Materials Science, CDLU, Sirsa, March 9-10, 2015.
- ❖ Workshop on Research Innovations & Intellectual Property Rights: Strategies and Challenges for Commercialization, GJUST, Hisar, Feb. 21, 2015.
- ❖ National Conference on Applied Physics & Materials Science, MDU, Rohtak, Feb. 5-6, 2015.
- ❖ International Conference at Singapore, Dec.18-20, 2013
- ❖ International Conference at Dehradun, March 5-8, 2014
- ❖ National Workshop on Intellectual Property Rights and Technology Commercialization, March 18, 2013, GJUST Hisar, Haryana.
- ❖ Workshop on Research Databases Awareness, May 7, 2013, GJUST Hisar, Haryana.
- ❖ National Conference at Murthal
- ❖ International Conference at Patiala
- ❖ International Conference & Workshop on Nanostructured Ceramics & other Nanomaterials, University of Delhi, Delhi, March 13-16, 2012, India
- ❖ National Workshop on Patent Awareness vis-à-vis Intellectual Property Rights, August 9, 2011, GJUST Hisar, Haryana.
- ❖ Workshop on Trends in Optical Coating for Head up Display & High Laser Damage Threshold, June 27, 2011, GJUST Hisar, Haryana.
- ❖ National Workshop on Recent Trends in Engineering & Technology, Mar 15, 2011, GJUST Hisar Haryana
- ❖ National Workshop on Chemistry in Our Lives, March 14, 2011, GJUST Hisar, Haryana.
- ❖ International Symposium on the Synthesis and Characterization of Glass/Glass-Ceramics, July 9-10, 2010 at Centre for Materials for Electronics Technology, Pune

- ❖ National Workshop on Recent Trends in Engineering & Technology, Mar 06, 2010, GJUST Hisar Haryana
- ❖ International Conference on Electroceramics at University of Delhi, Delhi, India, December 13-17, 2009.
- ❖ 53<sup>rd</sup> DAE Solid State Physics Symposium, at BARC, Mumbai, Dec. 16-20, 2008.
- ❖ National Conference on Photonics & Materials Science, at Hisar, Haryana, October 24-25, 2008.
- ❖ XX International Congress on Glass at Kyoto International Conference Hall, *Kyoto, JAPAN*, Sept.26-Oct.01, 2004
- ❖ National Conference on Materials and their Applications (NCMA-2004), March 11–13, 2004, Kurukshetra University, Kurukshetra, Haryana
- ❖ X<sup>th</sup> International conference on the Physics of Non-Crystalline Solids at Parma (*ITALY*), 13-17 July 2003.
- ❖ 45<sup>th</sup> DAE-Solid State Physics Symposium, 2002 at Punjab University Chandigarh, December 26-30, 2002.
- ❖ Sixth International Conference on Optoelectronics, Fiber Optics and Photonics at TIFR –Bombay, December 16-18, 2002.
- ❖ National Seminar on Physics of Materials for Electronic and Optoelectronic devices at J N V Univ. Jodhpur, Feb.25-27, 2002
- ❖ National Laser Symposium held at DSC, New Delhi December 14-16,2000
- ❖ National Laser Symposium held at Physical Research Laboratory, Ahmedabad, December 10-12, 1997.

**RESEARCH SUPERVISION: Ph.D. Awarded: 14, Ph.D. in-progress:06**

| Sr. No. | Name                | Thesis Title  | Ph. D. Status   | Reg. No    |
|---------|---------------------|---|---|------------|
| 1.      | Mr Inder Pal        | Spectroscopic properties and structure of rare earth /transition metal doped glasses<br>(Reg. on 23.03.2007, submitted on 25.06.2011, viva on 30.11.2011)             | Completed<br>(29.12.2011)                                       | 0707905    |
| 2.      | Mr. Paramjeet Singh | Preparation and investigation of structure and electrical properties of nanostructured materials<br>(Reg. on 23.03.2007, submitted on 07.03.2014, viva on 24.06.2014) | Completed<br>(10.07.2014)                                       | 0707904    |
| 3.      | Mr. Navneet Singh   | Sol-gel synthesis and characterization of nanocrystalline materials<br>(Reg. on 23.03.2007, submitted on 24.03.2011, viva on 18.07.2012)                              | Completed on<br>30.07.2012                                      | 0707906    |
| 4.      | Ms. Rajni Bala      | Structural, electrical and nonlinear optical properties of heavy metal oxide glasses<br>(Reg. on 15.10.2009, submitted on 14.10.2014, viva on 05.12.2015)             | Completed on<br>10-12-15  | 0907905    |
| 5.      | Ms. Reetu           | Structural, dielectric and magnetic properties of doped multiferroic ceramics<br>(Reg. on 15.10.2009, submitted on 27.09.2012, viva on 02.04.2013)                    | Completed on<br>23.04.2013<br>(Joint Supervision)               | 0907904    |
| 6.      | Mr. Navneet Ahlawat | Synthesis and conducting behaviour of glassy electrolytes   | Completed<br>(Joint Supervision)                                | CDLU Sirsa |
| 7.      | Ms. Rekha Kumari    | Synthesis and Characterization of Ferroelectric/Ferromagnetic Ceramics<br>Reg. on 02.03.2012  | Completed on<br>22.11.2017<br>(Joint Supervision)               | 12079011   |
| 8.      | Ms. Priyanka        | Crystal Structure, Dielectric and Magnetic properties of Modified BiFeO <sub>3</sub> Ceramics<br>(Reg. on 02.03.2012, submitted on 12.06.2015, viva on 05.03.2016)    | Completed on<br>14.03.16<br>(Joint Supervision)                 | 12079010   |
| 9.      | Ms. Meenakshi       | Study of Structure and Optical Properties of IR Transmitting Glasses<br>Reg. on 02.03.2012  | Completed on<br>10.07.2018<br>(Joint Supervision)               | 12079004   |
| 10.     | Ms. Kavita          | Rietveld refinement and dielectric properties of modified Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics   | Completed<br>(04.04.2018)                                       | 13079005   |
| 11.     | Mr. Ompal Singh     | Doping effects of Nd and Pr in modified BiFeO <sub>3</sub> multiferroics  | Completed<br>(09.12.2021)                                       | 14079005   |
| 12      | Vibha               | Investigation of crystal structure, dielectric and magnetic properties of double perovskites  | In Progress<br>(Reg. Date:<br>21.03.2017<br>(Joint supervision) |            |
| 13      | Ms. Manisha         | Investigation of crystal structure, dielectric and magnetic properties of transition metal doped Bi <sub>1-x</sub> Nd <sub>x</sub> FeO <sub>3</sub>                   | Completed<br>(09.12.2021)                                       | 16079012   |

|     |                    |   |  |                   |
|-----|--------------------|---|--|-------------------|
|     |                    | based multiferroics   |  |                   |
| 14  | Mr. Jogender Singh | Study of crystal structure, dielectric and magnetic properties of holmium doped BiFeO <sub>3</sub> based multiferroics  | Completed (09.09.2020)                                     | 16079014          |
| 15  | Mr. Shyam Sunder   | Growth and characterization of multicomponent oxide ceramics and thin films for multifunctional device applications   | In Progress (Reg. Date: 04.11.2016)<br>Joint Supervision   | AA + Monika Tomar |
| 16  | Ms. Tanvi Bhasin   | Investigation of crystal structure, dielectric and magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> and Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> based multiferroic composites | Completed (18.08.2020)                                     | 16079006          |
| 17  | Ekta Arya          | Investigation of crystal structure, dielectric and magnetic properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> and Hexaferrites based multiferroic composites                     | In Progress (Reg. Date: 21.03.2017)<br>(Joint supervision) |                   |
| 18  | Mr. Umesh Bhakar   | Study of different ceramics for their application as Hydroelectric Cell (HEC)   | Reg. Date: 13.03.2019                                      | 170070080005      |
| 19  | Mr. Anoop Singh    | Investigation of different Oxides for their Application as Hydroelectric Cell (HEC)   | Reg. Date: 13.03.2019                                      | 170070080007      |
| 20. | Mr. Gobind         | "Investigation of crystal structure, dielectric and magnetic properties of ceramics based quantum spin liquid material"   | Reg. Date: 05.06.2021                                      | 190070090115      |
| 21  | Ms. Shalu          | "Investigation of crystal structure, morphology and dielectric properties of double perovskites"  | Reg. Date: 10.11.2021                                      | 200070090103      |
| 22  | Mr. Amit Kumar     | Investigation of crystal structure and magnetic properties of spin ½ compounds  | Reg. Date: 10.11.2021                                      | 200070090105      |

## **SPONSORED RESEARCH PROJECTS**

| Sr. No | Title of the project   | Funding Agency & Ref. No         | Amount (Rs. In Lakhs) | Duration & Status        | Other Investigators                              |
|--------|--|----------------------------------|-----------------------|--------------------------|--|
| 1.     | Electron paramagnetic resonance, electrical and optical properties of oxide glasses  | UGC, New Delhi, F.10-22/2004(SR) | 6.06                  | 3 years Completed        | Prof. V. P. Seth (PI)<br>Prof. N. Kishore (Co-I) |
| 2.     | Electronic and optical properties of modified semiconducting materials   | UGC, New Delhi, F.10-15/2003(SR) | 5.34                  | 3 years Completed        | Prof. N. Kishore (PI)                            |
| 3.     | Studies of the structure and semi-conducting behaviour of the oxide glasses  | UGC, New Delhi, F.10-44/2001(SR) | 3.285                 | 3 years Completed (2004) | Dr. S. Sanghi (PI)                               |
| 4      | Fabrication and characterization of glass-metal nanocomposites   | AICTE, New Delhi                 | 6.50                  | 2 years Completed (2010) | Dr. S. Sanghi (PI)                               |
| 5.     | Structure, dielectric behaviour and impedance spectroscopy of mixed transition metal/alkali oxide glasses                                    | UGC, New Delhi                   | 9.833                 | Completed (March 2011)   | Dr. S. Sanghi (PI)                               |
| 6.     | Development and characterization of heavy metal oxide glasses as photonic materials  | CSIR, New Delhi                  | 10.40                 | Completed (Nov. 2011)    | Dr. S. Sanghi (PI)                               |
| 7.     | Study of Phase Transition and Magneto- electric coupling properties of modified Multiferroics  | UGC, New Delhi                   | 10.8                  | Completed                | -  |
| 8.     | Investigation of crystal structure, dielectric and magnetic properties of rare earth/transition metal doped BiFeO <sub>3</sub> multiferroics | DST, New Delhi                   | 13.50                 | Completed                | Dr. S. Sanghi (Co-I)                             |



**List of Publications**  
**Total Scopus Publications:201**

**Scopus h-Index :35**

**Scopus citations :3796**

| Sr. No. | Authors  | Title  | Year | Source title  | Volume | Issue | Art. No. | Page start | Page end |
|---------|--|--|------|---|--------|-------|----------|------------|----------|
| 1       | Rohilla R.,<br>Dahiya M.S.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.                                | Effect of Li+ ions on structural, optical and nano-crystallization behaviour of Na <sub>2</sub> O-CaO-P <sub>2</sub> O <sub>5</sub> -B <sub>2</sub> O <sub>3</sub> glass system: Biomedical applications                               | 2022 | Journal of Non-Crystalline Solids                   | 593    |       | 121774   |            |          |
| 2       | Rani S.,<br>Sanghi S.,<br>Agarwal A.,<br>Kumar R.,<br>Singh O.                                     | Crystal structure, magnetic and dielectric properties of Er-doped BiFeO <sub>3</sub> ceramics  | 2022 | Applied Physics A: Materials Science and Processing | 128    | 7     | 576      |            |          |
| 3       | Dahiya J.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.   | Tuneable colour flexibility in Dy <sup>3+</sup> &Eu <sup>3+</sup> co-doped lithium fluoride bismuth borate glass system for solid state lighting applications  | 2022 | Journal of Non-Crystalline Solids                   | 576    |       | 121237   |            |          |
| 4       | Meenal,<br>Sanghi S.,<br>Agarwal A.,<br>Arya E.,<br>Kumari A.,<br>Vibha,<br>Bhasin T.,<br>Yadav M. | Crystal structure, dielectric and magnetic properties of BaTiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> multiferroic composites  | 2021 | AIP Conference Proceedings                          | 2369   |       | 20114    |            |          |
| 5       | Kumari A.,<br>Sanghi S.,<br>Agarwal A.,<br>Singh O.  | Investigation of crystal structure, dielectric properties, impedance spectroscopy and magnetic properties of (1-x)BaTiO <sub>3</sub> – (x)Ba <sub>0.9</sub> Ca <sub>0.1</sub> Fe <sub>12</sub> O <sub>19</sub> multiferroic composites | 2021 | Ceramics International                              | 47     | 16    |          | 23088      | 23100    |

|    |   |  |      |  |     |    |        |       |       |
|----|---|--|------|--|-----|----|--------|-------|-------|
| 6  | Jangra S.,<br>Sanghi S.,<br>Agarwal A.,<br>Khasa S.,<br>Rangi M.    | Structural, dielectric and magnetic characteristics of Mn-substituted Bi <sub>0.80</sub> Nd <sub>0.20</sub> FeO <sub>3</sub> multiferroics   | 2021 | Applied Physics A: Materials Science and Processing    | 127 | 7  | 534    |       |       |
| 7  | Malik M.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.                   | Crystallization of BaFe <sub>12</sub> O <sub>19</sub> magnetic particles in Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -BaO-LiCl glass ceramics                 | 2021 | Bulletin of Materials Science                          | 44  | 2  | 147    |       |       |
| 8  | Chauhan M.,<br>Sanghi S.,<br>Agarwal A.                             | Crystal structure and improved dielectric, magnetic, ferroelectric and magneto-electric properties of xCoFe <sub>2</sub> O <sub>4</sub> -(1-x)BaTiO <sub>3</sub> multiferroic composites                           | 2021 | Journal of Materials Science: Materials in Electronics | 32  | 10 |        | 13472 | 13489 |
| 9  | Bhakar U.,<br>Agarwal A.,<br>Sanghi S.,<br>Shah J.,<br>Kotnala R.K. | Production of green electricity from strained BaTiO <sub>3</sub> and TiO <sub>2</sub> ceramics based hydroelectric cells   | 2021 | Materials Chemistry and Physics                        | 262 |    | 124277 |       |       |
| 10 | Singh O.,<br>Kumar A.,<br>Kumar K.,<br>Agarwal A.,<br>Sanghi S.     | Sintering time dependent structural and magnetic phase transformations in Pr doped BiFeO <sub>3</sub> multiferroics  | 2021 | Journal of Magnetism and Magnetic Materials            | 519 |    | 167412 |       |       |
| 11 | Tuteja M.,<br>Sanghi S.,<br>Agarwal A.,<br>Yadav M.,<br>Bhasin T.   | Crystal Structure, Rietveld Refinement and Improved Dielectric and Magnetic Properties of Ti Doped Bi <sub>0.90</sub> Pr <sub>0.10</sub> Fe <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> Multiferroic Ceramics    | 2021 | Integrated Ferroelectrics                              | 221 | 1  |        | 100   | 113   |
| 12 | Arya E.,<br>Agarwal A.,<br>Dhar R.,<br>Sanghi S.                    | Crystal structure, dielectric and magnetic properties of xBaFe <sub>12</sub> O <sub>19</sub> -(1-x)Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> composites   | 2021 | Ferroelectrics   | 583 | 1  |        | 183   | 197   |
| 13 | Yadav M.,<br>Agarwal A.,<br>Sanghi S.,                              | Improved dielectric and magnetic properties of Co doped Bi <sub>0.80</sub> Ba <sub>0.10</sub> Nd <sub>0.10</sub> Fe <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> (x = 0.00, 0.01, 0.03, 0.05 & 0.07) multiferroic | 2021 | Journal of Magnetism and Magnetic                      | 517 |    | 167337 |       |       |

|    |  |   |      |   |      |  |        |  |  |
|----|--|---|------|---|------|--|--------|--|--|
|    | Bhasin T.,<br>Tuteja M.,<br>Meenal,<br>Kumari A.   |   |      | Materials                                   |      |  |        |  |  |
| 14 | Malik M.,<br>Dagar S.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.                             | Effect of magnetic ion, Fe <sup>3+</sup> on the structural and dielectric properties of Oxychloro Bismuth Borate Glasses  | 2020 | Solid State Sciences                        | 110  |  | 106491 |  |  |
| 15 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Tuteja M.,<br>Meenal,<br>Arya E.   | Relative study of MFe <sub>2</sub> O <sub>4</sub> (M=Ni, Co and Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> based multiferroic composite                 | 2020 | AIP Conference Proceedings                  | 2265 |  | 30513  |  |  |
| 16 | Tuteja M.,<br>Sanghi S.,<br>Agarwal A.,<br>Yadav M.,<br>Bhasin T.                          | Crystal structure and dielectric analysis of BiPr <sub>0.05</sub> FeO <sub>3</sub> and BiPr <sub>0.10</sub> FeO <sub>3</sub> multiferroic ceramics                | 2020 | AIP Conference Proceedings                  | 2265 |  | 30550  |  |  |
| 17 | Yadav M.,<br>Agarwal A.,<br>Sanghi S.,<br>Bhasin T.,<br>Tuteja M.,<br>Meenal,<br>Kumari A. | Improved magnetic and electrical characteristics of Co doped Bi <sub>0.80</sub> Ba <sub>0.10</sub> Nd <sub>0.10</sub> FeO <sub>3</sub> ceramics                   | 2020 | AIP Conference Proceedings                  | 2265 |  | 30538  |  |  |
| 18 | Shah J.,<br>Verma K.C.,<br>Agarwal A.,<br>Kotnala R.K.                                     | Novel application of multiferroic compound for green electricity generation fabricated as hydroelectric cell  | 2020 | Materials Chemistry and Physics             | 239  |  | 122068 |  |  |
| 19 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Bhasin T.,                                       | Holmium induced structural transformation and improved dielectric and magnetic properties in Bi <sub>0.80</sub> La <sub>0.20</sub> FeO <sub>3</sub> multiferroics | 2019 | Journal of Magnetism and Magnetic Materials | 487  |  | 165337 |  |  |

|    |  |   |      |                            |      |    |        |     |     |
|----|--|---|------|----------------------------|------|----|--------|-----|-----|
|    | Yadav M.,<br>Bhakar U.   |   |      |                            |      |    |        |     |     |
| 20 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Meenal,<br>Singh J.    | Investigation of Multiferroic Properties of Spinel Ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ) and Ferroelectric (Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ) Composites | 2019 | Integrated Ferroelectrics  | 201  | 1  |        | 163 | 177 |
| 21 | Rangi M.,<br>Sanghi S.,<br>Agarwal A.,<br>Jangra S.,<br>Sangwan J.             | The crystal structure, refinement and dielectric properties of Ba and Mn substituted bismuth ferrite  | 2019 | AIP Conference Proceedings | 2142 |    | 40027  |     |     |
| 22 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Bhasin T.,<br>Bhakar U. | Investigation of the crystal structure, magnetic properties and dielectric properties of Ho substituted Bi <sub>0.90</sub> La <sub>0.10</sub> FeO <sub>3</sub> multiferroics        | 2019 | AIP Conference Proceedings | 2142 |    | 90010  |     |     |
| 23 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Rangi M.,<br>Bhasin T.,<br>Jangra S. | Structural, Dielectric and magnetic Properties of (Ho, Ti) Modified BFO   | 2019 | AIP Conference Proceedings | 2142 |    | 40028  |     |     |
| 24 | Bala R.,<br>Agarwal A.,<br>Sanghi S.,<br>Sanjay                                | Electrical characterization and dielectric behavior of PbO·Bi <sub>2</sub> O <sub>3</sub> ·Ga <sub>2</sub> O <sub>3</sub> glasses   | 2019 | AIP Conference Proceedings | 2142 |    | 70032  |     |     |
| 25 | Yadav M.,<br>Agarwal A.,<br>Sanghi S.,<br>Tuteja M.,<br>Bhasin T.,<br>Singh J. | Effect of Nd and Ti doping on crystal structure refinement, optical, dielectric and magnetic properties of Bi <sub>0.90</sub> Nd <sub>0.10</sub> FeO <sub>3</sub> multiferroic      | 2019 | Materials Research Express | 6    | 10 | 106107 |     |     |
| 26 | Kaswan K.,   | Improved multiferroic properties of bismuth   | 2019 | AIP Conference             | 2115 |    | 30493  |     |     |

|    |  |   |      |                               |      |  |       |     |     |
|----|--|---|------|-------------------------------|------|--|-------|-----|-----|
|    | Agarwal A.,<br>Sanghi S.,<br>Singh J.  | ferrite and sodium bismuth titanate based<br>multiferroic composites  |      | Proceedings                   |      |  |       |     |     |
| 27 | Singh J.,<br>Agarwal A.,<br>Rangi M.,<br>Kaswan K.,<br>Yadav M.,<br>Bhakar U.  | Crystal structure transition and multiferroic<br>properties in Bi <sub>1-x</sub> HoxFeO <sub>3</sub> (x = 0.05, 0.10,<br>0.15, & 0.20) ceramic by rietveld analysis           | 2019 | AIP Conference<br>Proceedings | 2115 |  | 30022 |     |     |
| 28 | Yadav M.,<br>Agarwal A.,<br>Bhasin T.,<br>Sanghi S.,<br>Tuteja M.,<br>Singh J. | Synthesis and characterization of Bi <sub>0.85</sub> -<br>xNd <sub>0.15</sub> BaxFeO <sub>3</sub> (x = 0.00 and 0.15) ceramics  | 2019 | AIP Conference<br>Proceedings | 2115 |  | 30480 |     |     |
| 29 | Arya E.,<br>Agarwal A.,<br>Dhar R.,<br>Kumari A.,<br>Meenal V.                 | Structural, dielectric and magnetic properties<br>of BaFe <sub>12</sub> O <sub>19</sub> -Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> magneto-<br>electric composites | 2019 | AIP Conference<br>Proceedings | 2115 |  | 30481 |     |     |
| 30 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Tuteja M.,<br>Singh J. | Improved multiferroic properties of cobalt<br>ferrite and sodium bismuth titanate based<br>multiferroic composites  | 2019 | AIP Conference<br>Proceedings | 2115 |  | 30479 |     |     |
| 31 | Narwal P.,<br>Dahiya M.S.,<br>Agarwal A.,<br>Hooda A.,<br>Khasa S.             | Compositional dependence of white light<br>emission in Dy <sup>3+</sup> doped NaCl-BaO bismuth<br>borate glasses  | 2019 | Journal of<br>Luminescence    | 209  |  |       | 121 | 128 |
| 32 | Malik M.,<br>Narwal P.,<br>Yadav A.,<br>Agarwal A.,<br>Khasa S.                | Electrical characterization, crystallization and<br>structural properties of iron doped barium<br>bismuth borate glass ceramics   | 2019 | AIP Conference<br>Proceedings | 2093 |  | 20037 |     |     |

|    |  |   |      |   |     |    |        |     |     |
|----|--|---|------|---|-----|----|--------|-----|-----|
| 33 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Bhasin T.,<br>Bhakar U.                 | Investigation of crystal structure and improved magnetic and dielectric properties of Ti-substituted Bi <sub>0.90</sub> Ho <sub>0.10</sub> FeO <sub>3</sub> multiferroics | 2019 | Applied Physics A: Materials Science and Processing | 125 | 3  | 156    |     |     |
| 34 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Bhasin T.,<br>Yadav M.,<br>Bhakar U.,<br>Singh O.    | Effect of Ba and Ho co-doping on crystal structure, phase transformation, magnetic properties and dielectric properties of BiFeO <sub>3</sub>                             | 2019 | Current Applied Physics                             | 19  | 3  |        | 321 | 331 |
| 35 | Singh J.,<br>Agarwal A.,<br>Sanghi S.,<br>Prakash P.,<br>Das A.,<br>Prajapat C.L.,<br>Rangi M. | Phase transformation in crystal and magnetic structure and improved dielectric and magnetic properties of Ho substituted BiFeO <sub>3</sub> multiferroics                 | 2019 | AIP Advances  | 9   | 2  | 25110  |     |     |
| 36 | Singh O.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh J.   | Variation of crystal structure, magnetization, and dielectric properties of Nd and Ba co-doped BiFeO <sub>3</sub> multiferroics   | 2019 | International Journal of Applied Ceramic Technology | 16  | 1  |        | 119 | 129 |
| 37 | Godara P.,<br>Agarwal A.,<br>Ahlawat N.,<br>Sanghi S.  | Crystal structure, dielectric and magnetic properties of Gd doped BiFeO <sub>3</sub> multiferroics  | 2018 | Physica B: Condensed Matter                         | 550 |    |        | 414 | 419 |
| 38 | Narwal P.,<br>Dahiya M.S.,<br>Yadav A.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.                | Improved white light emission in Dy <sup>3+</sup> doped LiF–CaO–Bi <sub>2</sub> O <sub>3</sub> –B <sub>2</sub> O <sub>3</sub> glasses                                     | 2018 | Journal of Non-Crystalline Solids                   | 498 |    |        | 470 | 479 |
| 39 | Bhasin T.,   | Crystal structure, dielectric, magnetic and   | 2018 | Materials   | 5   | 10 | 106102 |     |     |

|    |   |  |      |                                    |      |  |       |      |      |
|----|---|--|------|------------------------------------|------|--|-------|------|------|
|    | Agarwal A.,<br>Sanghi S.,<br>Kotnala R.K.,<br>Shah J.,<br>Yadav M.,<br>Tuteja M.,<br>Singh J.               | improved magnetoelectric properties of<br>$x\text{NiFe}_2\text{O}_4-(1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ composites  |      | Research<br>Express                |      |  |       |      |      |
| 40 | Yadav M.,<br>Agarwal A.,<br>Sanghi S.,<br>Kotnala R.K.,<br>Shah J.,<br>Bhasin T.,<br>Tuteja M.,<br>Singh J. | Crystal structure refinement, dielectric and<br>magnetic properties of A-site and B-site co-<br>substituted $\text{Bi}_0.90\text{Nd}_0.10\text{Fe}_{1-x}\text{Ti}_x\text{O}_3$ ( $x=0.00$ ,<br>0.02, 0.05 & 0.07) ceramics | 2018 | Journal of Alloys<br>and Compounds | 750  |  |       | 848  | 856  |
| 41 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Kotnala R.K.,<br>Shah J.,<br>Yadav M.,<br>Tuteja M.              | Crystal structure, dielectric, magnetic and<br>magnetoelectric properties of $x\text{NiFe}_2\text{O}_4-(1-x)$<br>$\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ composites   | 2018 | Journal of Alloys<br>and Compounds | 748  |  |       | 1022 | 1030 |
| 42 | Kumari R.,<br>Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Sindhu M.,<br>Rani S.                             | Effect of doping of alkaline metal ions on<br>structural and electrical properties of<br>$\text{Bi}_0.8\text{M}_0.2\text{FeO}_3$ -modified $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$<br>ceramics (M=Ca, Sr, and Ba)         | 2018 | Journal of Alloys<br>and Compounds | 747  |  |       | 712  | 720  |
| 43 | Narwal P.,<br>Yadav A.,<br>Dahiya M.S.,<br>Vishal,<br>Rohit,<br>Agarwal A.,<br>Khasa S.                     | Spectroscopic and thermal properties of $\text{Sm}^{3+}$<br>doped iron lead bismuthate glasses   | 2018 | AIP Conference<br>Proceedings      | 1953 |  | 90011 |      |      |
| 44 | Jangra S.,  | Rietveld refinement, dielectric and magnetic   | 2018 | AIP Conference                     | 1953 |  | 50013 |      |      |

|    |  |  |      |                            |      |   |        |      |      |
|----|--|--|------|----------------------------|------|---|--------|------|------|
|    | Sanghi S.,<br>Agarwal A.,<br>Rangi M.  | properties of Nb modified Bi <sub>0.80</sub> Ba <sub>0.20</sub> FeO <sub>3</sub> ceramic   |      | Proceedings                |      |   |        |      |      |
| 45 | Yadav A.,<br>Narwal P.,<br>Dahiya M.S.,<br>Dahiya T.,<br>Agarwal A.,<br>Khasa S.               | XRD and FTIR analysis heat treated lithium bismo-borate glasses doped with 1.0 mol% copper ferrite   | 2018 | AIP Conference Proceedings | 1953 |   | 90013  |      |      |
| 46 | Yadav A.,<br>Dahiya M.S.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S.                              | Nano-crystalline phase evolution and structural modification in Co/V substituted Li <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses                   | 2018 | AIP Conference Proceedings | 1953 |   | 90008  |      |      |
| 47 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Kotnala R.K.,<br>Shah J.,<br>Yadav M.,<br>Tuteja M. | Study of crystal structure, dielectric, magnetic and magnetoelectric properties of xCoFe <sub>2</sub> O <sub>4</sub> -(1-x)Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> composites | 2018 | Ceramics International     | 44   | 7 |        | 7629 | 7636 |
| 48 | Jangra S.,<br>Sanghi S.,<br>Agarwal A.,<br>Rangi M.,<br>Kaswan K.                              | Effects of Nd <sup>3+</sup> and high-valence Nb <sup>5+</sup> co-doping on the structural, dielectric and magnetic properties of BiFeO <sub>3</sub> multiferroics                          | 2018 | Ceramics International     | 44   | 7 |        | 7683 | 7693 |
| 49 | Bhasin T.,<br>Agarwal A.,<br>Sanghi S.,<br>Yadav M.,<br>Tuteja M.,<br>Singh J.,<br>Rani S.     | Structural, dielectric and magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> -Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> multiferroic composites                           | 2018 | AIP Conference Proceedings | 1942 |   | 130006 |      |      |
| 50 | Sanjay,<br>Kishore N.,<br>Agarwal A.,  | Characterization and optical properties of MoO <sub>3</sub> -PbO-B <sub>2</sub> O <sub>3</sub> semiconducting glasses  | 2018 | AIP Conference Proceedings | 1942 |   | 140012 |      |      |



|    |  |   |      |   |      |    |       |       |       |
|----|--|---|------|---|------|----|-------|-------|-------|
|    | Pal I., Devi S., Bala R.   |   |      |   |      |    |       |       |       |
| 51 | Jindal A., Agarwal A., Aghamkar P.                               | Structural changes and magnetism in Bi <sub>1-x</sub> BaxFeO <sub>3</sub> (x = 0, 0.1, 0.2, 0.3) nanopowders                        | 2018 | Applied Physics A: Materials Science and Processing | 124  | 4  | 323   |       |       |
| 52 | Yadav A., Dahiya M.S., Narwal P., Hooda A., Agarwal A., Khasa S. | Electrical characterization of lithium bismuth borate glasses containing cobalt/vanadium ions                                       | 2017 | Solid State Ionics                                  | 312  |    |       | 21    | 31    |
| 53 | Singh O., Agarwal A., Das A., Sanghi S., Jindal A.               | Evolution of structural and magnetic phases in Nd doped BiFeO <sub>3</sub> multiferroics with sintering time                        | 2017 | Journal of Magnetism and Magnetic Materials         | 442  |    |       | 200   | 207   |
| 54 | Rangi M., Sanghi S., Jangra S., Kaswan K., Khasa S., Agarwal A.  | Crystal structure transformation and improved dielectric and magnetic properties of La-substituted BiFeO <sub>3</sub> multiferroics | 2017 | Ceramics International                              | 43   | 15 |       | 12095 | 12101 |
| 55 | Narwal P., Dahiya M.S., Yadav A., Hooda A., Agarwal A., Khasa S. | Dy <sup>3+</sup> doped LiCl–CaO–Bi <sub>2</sub> O <sub>3</sub> –B <sub>2</sub> O <sub>3</sub> glasses for WLED applications         | 2017 | Ceramics International                              | 43   | 14 |       | 11132 | 11141 |
| 56 | Anju, Agarwal A., Aghamkar P., Lal B., Singh V.                  | Crystal symmetry and magnetism in Ti substituted Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> ceramic                       | 2017 | Ceramics International                              | 43   | 10 |       | 7408  | 7414  |
| 57 | Hooda A., Sanghi S.,   | Rietveld refinement and electrical properties of Ni-Zn spinel ferrites  | 2017 | AIP Conference Proceedings                          | 1832 |    | 50018 |       |       |

|    |  |  |      |   |     |   |  |      |      |
|----|--|--|------|---|-----|---|--|------|------|
|    | Agarwal A.,<br>Khasa S.,<br>Hooda B.   |  |      |   |     |   |  |      |      |
| 58 | Kaswan K.,<br>Agarwal A.,<br>Sanghi S.,<br>Rangi M.,<br>Jangra S.,<br>Kumar A. | Crystal structure refinement, enhanced magnetic and dielectric properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> modified Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> ceramics | 2017 | Ceramics International                      | 43  | 5 |  | 4622 | 4629 |
| 59 | Anju,<br>Agarwal A.,<br>Aghamkar P.,<br>Lal B.                                 | Structural and multiferroic properties of barium substituted bismuth ferrite nanocrystallites prepared by sol-gel method   | 2017 | Journal of Magnetism and Magnetic Materials | 426 |   |  | 800  | 805  |
| 60 | Singh O.,<br>Agarwal A.,<br>Sanghi S.,<br>Das A.,<br>Anju                      | Investigation of crystal structure, dielectric and magnetic properties in La and Nd co-doped BiFeO <sub>3</sub> multiferroics  | 2017 | Journal of Magnetism and Magnetic Materials | 426 |   |  | 369  | 374  |
| 61 | Jangra S.,<br>Sanghi S.,<br>Agarwal A.,<br>Rangi M.,<br>Kaswan K.,<br>Khasa S. | Improved structural, dielectric and magnetic properties of Ca <sup>2+</sup> and Nb <sup>5+</sup> co-substituted BiFeO <sub>3</sub> multiferroics   | 2017 | Journal of Alloys and Compounds             | 722 |   |  | 606  | 616  |
| 62 | Kumari R.,<br>Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Sindhu M.            | Structural transformation and investigation of dielectric properties of Ca substituted (Na <sub>0.5</sub> Bi <sub>0.5</sub> ) <sub>0.95-x</sub> Ba <sub>0.05</sub> CaxTiO <sub>3</sub> ceramics          | 2017 | Journal of Alloys and Compounds             | 695 |   |  | 3282 | 3289 |
| 63 | Anju,<br>Agarwal A.,<br>Aghamkar P.,<br>Singh V.,<br>Singh O.,<br>Kumar A.     | Structural transitions and multiferrocity in Ba and Co substituted nanosized bismuth ferrite   | 2017 | Journal of Alloys and Compounds             | 697 |   |  | 333  | 340  |
| 64 | Dahiya M.S.,<br>Meenakshi,   | On the role of ZnO on properties of vitreous bismuth silicates   | 2017 | Journal of Alloys and Compounds             | 696 |   |  | 688  | 696  |

|    |  |   |      |  |      |   |        |      |      |
|----|--|---|------|--|------|---|--------|------|------|
|    | Shankar A.,<br>Agarwal A.,<br>Khasa S.   |   |      |  |      |   |        |      |      |
| 65 | Dahiya M.S.,<br>Yadav A.,<br>Manyani N.,<br>Chahal S.,<br>Hooda A.,<br>Agarwal A.,<br>Khasa S. | Fe-substituted Co-Li bismuth borate glasses:<br>Crystallization kinetics and optical absorption   | 2016 | Journal of<br>Thermal<br>Analysis and<br>Calorimetry   | 126  | 3 |        | 1191 | 1199 |
| 66 | Kumari R.,<br>Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Sindhu M.,<br>Ahlawat N.             | Rietveld refinement, impedance spectroscopy<br>and magnetic properties of Bi <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3</sub><br>substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics | 2016 | Journal of<br>Magnetism and<br>Magnetic<br>Materials   | 414  |   |        | 1    | 9    |
| 67 | Kumari R.,<br>Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Sindhu M.,<br>Ahlawat N.             | Phase transformation and impedance<br>spectroscopic study of Ba substituted<br>Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics  | 2016 | Journal of Alloys<br>and Compounds   | 676  |   |        | 452  | 460  |
| 68 | Dahiya M.S.,<br>Agarwal A.,<br>Khasa S.  | Dielectric characterization VO <sub>2</sub> +doped<br>CaCl <sub>2</sub> •CaO•B <sub>2</sub> O <sub>3</sub> glasses  | 2016 | Materials<br>Letters   | 176  |   |        | 241  | 243  |
| 69 | Yadav A.,<br>Khasa S.,<br>Dahiya M.S.,<br>Dalal S.,<br>Hooda A.,<br>Agarwal A.                 | Synthesis, thermal and spectroscopic<br>characterization of lithium bismuth borate<br>glasses containing mixed transition metal ions  | 2016 | Physics and<br>Chemistry of<br>Glasses:<br>European<br>Journal of Glass<br>Science and<br>Technology Part<br>B | 57   | 3 |        | 146  | 152  |
| 70 | Kaswan K.,<br>Agarwal A.,<br>Sanghi S.,  | Rietveld refinement and dielectric studies of<br>Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> ceramic   | 2016 | AIP Conference<br>Proceedings  | 1731 |   | 140003 |      |      |

|    |  |   |      |   |      |   |        |    |    |
|----|--|---|------|---|------|---|--------|----|----|
|    | Rangi M.,<br>Jangra S.,<br>Singh O.  |   |      |   |      |   |        |    |    |
| 71 | Rangi M.,<br>Sanghi S.,<br>Agarwal A.,<br>Kaswan K.,<br>Jangra S.,<br>Singh O. | Structural, dielectric and magnetic properties of Bi <sub>0.8</sub> Ba <sub>0.2</sub> Fe <sub>0.6</sub> Mn <sub>0.4</sub> O <sub>3</sub> ceramic                | 2016 | AIP Conference Proceedings                  | 1731 |   | 140004 |    |    |
| 72 | Yadav A.,<br>Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.                           | Nano crystalline Bi <sub>2</sub> (VO <sub>5</sub> ) phases in lithium bismuth borate glasses containing mixed vanadium-nickel oxides                            | 2016 | AIP Conference Proceedings                  | 1731 |   | 70019  |    |    |
| 73 | Jangra S.,<br>Sanghi S.,<br>Agarwal A.,<br>Kaswan K.,<br>Rangi M.,<br>Singh O. | Structural, dielectric and magnetic studies of Ba and Nb codoped BiFeO <sub>3</sub> multiferroics   | 2016 | AIP Conference Proceedings                  | 1731 |   | 140005 |    |    |
| 74 | Dahiya M.S.,<br>Khasa S.,<br>Yadav A.,<br>Agarwal A.                           | Appearance of small polaron hopping conduction in iron modified cobalt lithium bismuth borate glasses   | 2016 | AIP Conference Proceedings                  | 1731 |   | 70018  |    |    |
| 75 | Godara P.,<br>Agarwal A.,<br>Ahlawat N.,<br>Sanghi S.,<br>Kaswan K.            | Effect of doping of vanadium ions on crystal structure, dielectric and magnetic properties of Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> multiferroic | 2016 | Journal of Magnetism and Magnetic Materials | 406  |   |        | 76 | 82 |
| 76 | Singh O.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh J.                             | Sintering time effect on crystal structure and magnetic properties of Bi <sub>0.8</sub> La <sub>0.2</sub> FeO <sub>3</sub> multiferroics                        | 2016 | AIP Conference Proceedings                  | 1728 |   | 20308  |    |    |
| 77 | Dahiya M.S.,<br>Khasa S.,<br>Agarwal A.  | Structural, optical and thermal properties of transition metal ions doped bismuth borate glasses  | 2016 | Physics and Chemistry of Glasses: European  | 57   | 2 |        | 45 | 52 |

|    |   |  |      |   |      |   |  |      |      |
|----|---|--|------|---|------|---|--|------|------|
|    |   |  |      | Journal of Glass Science and Technology Part B                        |      |   |  |      |      |
| 78 | Yadav A.,<br>Khasa S.,<br>Hooda A.,<br>Dahiya M.S.,<br>Agarwal A.,<br>Chand P.  | EPR and impedance spectroscopic investigations on lithium bismuth borate glasses containing nickel and vanadium ions   | 2016 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 157  |   |  | 129  | 137  |
| 79 | Kaswan K.,<br>Agarwal A.,<br>Sanghi S.,<br>Kotnala R.K.                         | Crystal structure refinement and magnetic properties of Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics | 2016 | Journal of Molecular Structure  | 1108 |   |  | 54   | 59   |
| 80 | Rangi M.,<br>Sanghi S.,<br>Jangra S.,<br>Kaswan K.,<br>Agarwal A.               | Effect of Mn doping on crystal structure, dielectric and magnetic ordering of Bi <sub>0.8</sub> Ba <sub>0.2</sub> FeO <sub>3</sub> multiferroic  | 2016 | Ceramics International  | 42   | 4 |  | 5403 | 5411 |
| 81 | Ahlawat N.,<br>Aghamkar P.,<br>Agarwal A.,<br>Ahlawat N.                        | Study of conduction mechanism in Fe <sub>2</sub> O <sub>3</sub> doped Na <sub>2</sub> O·Bi <sub>2</sub> O <sub>3</sub> ·B <sub>2</sub> O <sub>3</sub> semiconducting glasses           | 2016 | Physica B: Condensed Matter   | 482  |   |  | 58   | 64   |
| 82 | Dahiya M.S.,<br>Khasa S.,<br>Agarwal A.   | Thermal characterization of novel magnesium oxyhalide bismo-borate glass doped with VO <sub>2</sub> <sup>+</sup> ions  | 2016 | Journal of Thermal Analysis and Calorimetry                           | 123  | 1 |  | 457  | 465  |
| 83 | Dalal S.,<br>Khasa S.,<br>Dahiya M.S.,<br>Yadav A.,<br>Agarwal A.,<br>Dahiya S. | Optical and thermal investigations on vanadyl doped zinc lithium borate glasses  | 2015 | Journal of Asian Ceramic Societies                                    | 3    | 3 |  | 234  | 239  |
| 84 | Hooda A.,<br>Sanghi S.,   | Crystal structure refinement, dielectric and magnetic properties of Ca/Pb substituted  | 2015 | Journal of Magnetism and  | 387  |   |  | 46   | 52   |

|    |  |   |      |  |      |  |        |     |     |
|----|--|---|------|--|------|--|--------|-----|-----|
|    | Agarwal A.,<br>Dahiya R.   | SrFe <sub>12</sub> O <sub>19</sub> hexaferrites   |      | Magnetic<br>Materials                                |      |  |        |     |     |
| 85 | Dahiya R.,<br>Agarwal A.,<br>Sanghi S.,<br>Hooda A.,<br>Godara P.            | Structural, magnetic and dielectric properties of Sr and v doped BiFeO <sub>3</sub> multiferroics   | 2015 | Journal of<br>Magnetism and<br>Magnetic<br>Materials | 385  |  |        | 175 | 181 |
| 86 | Rangi M.,<br>Sanghi S.,<br>Agarwal A.,<br>Jangra S.,<br>Singh O.             | Effect of divalent (Sr, Ba) doping on the structural and magnetic properties of BiFeO <sub>3</sub>  | 2015 | AIP Conference<br>Proceedings                        | 1665 |  | 140039 |     |     |
| 87 | Kaswan K.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh O.                          | Rietveld refinement and dielectric properties of (Na 0.5 Bi 0.5 TiO <sub>3</sub> )-(Bi 0.8 Ba 0.2 FeO <sub>3</sub> ) ceramics                 | 2015 | AIP Conference<br>Proceedings                        | 1665 |  | 140014 |     |     |
| 88 | Seema,<br>Khasa S.,<br>Dahiya M.S.,<br>Yadav A.,<br>Agarwal A.,<br>Dahiya S. | Structural study and DC conductivity of vanadyl doped zinc lithium borate glasses   | 2015 | AIP Conference<br>Proceedings                        | 1665 |  | 70012  |     |     |
| 89 | Khasa S.,<br>Yadav A.,<br>Dahiya M.S.,<br>Seema,<br>Ashima,<br>Agarwal A.    | Effect of mixed transition metal ions on DC conductivity in lithium bismuth borate glasses  | 2015 | AIP Conference<br>Proceedings                        | 1665 |  | 70013  |     |     |
| 90 | Rani S.,<br>Sanghi S.,<br>Ahlawat N.,<br>Agarwal A.                          | Crystallization kinetics, optical and dielectric properties of Li <sub>2</sub> O·CdO·Bi <sub>2</sub> O <sub>3</sub> ·SiO <sub>2</sub> glasses | 2015 | Journal of<br>Molecular<br>Structure                 | 1098 |  | 21518  | 1   | 11  |
| 91 | Godara P.,<br>Agarwal A.,<br>Ahlawat N.,<br>Sanghi S.                        | Crystal structure refinement, dielectric and magnetic properties of Sm modified BiFeO <sub>3</sub> multiferroic                               | 2015 | Journal of<br>Molecular<br>Structure                 | 1097 |  |        | 207 | 213 |

|     |   |  |      |  |      |   |       |      |      |
|-----|---|--|------|--|------|---|-------|------|------|
| 92  | Dahiya M.S.,<br>Khasa S.,<br>Agarwal A.   | Physical, thermal, structural and optical absorption studies of vanadyl doped magnesium oxy-chloride bismo-borate glasses  | 2015 | Journal of Asian Ceramic Societies                       | 3    | 2 |       | 206  | 211  |
| 93  | Dalal S.,<br>Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.,<br>Yadav A.,<br>Seth V.P.,<br>Dahiya S. | Effect of substituting iron on structural, thermal and dielectric properties of lithium borate glasses   | 2015 | Materials Research Bulletin                              | 70   |   |       | 559  | 566  |
| 94  | Dahiya M.S.,<br>Khasa S.,<br>Agarwal A.   | Optical absorption and heating rate dependent glass transition in vanadyl doped calcium oxy-chloride borate glasses  | 2015 | Journal of Molecular Structure                           | 1086 |   |       | 172  | 178  |
| 95  | Rani S.,<br>Sanghi S.,<br>Ahlawat N.,<br>Agarwal A.   | Influence of Bi <sub>2</sub> O <sub>3</sub> on physical, electrical and thermal properties of Li <sub>2</sub> O·ZnO·Bi <sub>2</sub> O <sub>3</sub> ·SiO <sub>2</sub> glasses | 2015 | Journal of Alloys and Compounds                          | 619  |   |       | 659  | 666  |
| 96  | Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.,<br>Chand P.  | EPR, FTIR, thermal and electrical properties of VO <sub>2</sub> <sup>+</sup> doped BaCl <sub>2</sub> ·BaO·B <sub>2</sub> O <sub>3</sub> glasses                              | 2015 | Journal of Molecular Structure                           | 1079 |   |       | 15   | 20   |
| 97  | Lather M.,<br>Sanghi S.,<br>Agarwal A.,<br>Aghamkar P.,<br>Pal I.                             | Spectroscopic properties of Dy <sup>3+</sup> doped zinc bismuth borate glasses   | 2015 | Advanced Science Letters                                 | 21   | 8 |       | 2665 | 2670 |
| 98  | Kishore N.,<br>Sanjay,<br>Agarwal A.,<br>Dahiya S.,<br>Pal I.                                 | Study of electrical conductivity and dielectric behaviour of molybdenum containing bismuth borate glasses  | 2015 | IOP Conference Series: Materials Science and Engineering | 73   | 1 | 12041 |      |      |
| 99  | Rani S.,<br>Sanghi S.,<br>Ahlawat N.,<br>Agarwal A.   | Influence of Bi <sub>2</sub> O <sub>3</sub> on thermal, structural and dielectric properties of lithium zinc bismuth borate glasses  | 2014 | Journal of Alloys and Compounds                          | 597  |   |       | 110  | 118  |
| 100 | Godara P.,  | Crystal structure transformation, dielectric and   | 2014 | Journal of Alloys  | 594  |   |       | 175  | 181  |

|     |  |   |      |   |      |   |       |      |      |
|-----|--|---|------|---|------|---|-------|------|------|
|     | Agarwal A.,<br>Ahlawat N.,<br>Sanghi S.,<br>Dahiya R.                        | magnetic properties of Ba and Co modified<br>BiFeO <sub>3</sub> multiferroic  |      | and Compounds   |      |   |       |      |      |
| 101 | Singh P.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh N.,<br>Khasa S.              | Dielectric characterization of bismuth layered<br>(Bi <sub>2</sub> O <sub>3</sub> )(Na <sub>x</sub> Fe <sub>1-x</sub> O <sub>3</sub> ) ceramics   | 2014 | Physica B:<br>Condensed<br>Matter   | 436  |   |       | 64   | 73   |
| 102 | Agarwal A.,<br>Khasa S.,<br>Seth V.P.,<br>Sanghi S.,<br>Arora M.             | Effect of MoO <sub>3</sub> on electron paramagnetic<br>resonance spectra, optical spectra and dc<br>conductivity of vanadyl ion doped alkali<br>molybdo-borate glasses                            | 2014 | Journal of<br>Molecular<br>Structure  | 1060 | 1 |       | 182  | 190  |
| 103 | Rangi M.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh R.,<br>Meena S.S.,<br>Das A. | Crystal structure and magnetic properties of<br>Bi <sub>0.8</sub> A <sub>0.2</sub> FeO <sub>3</sub> (A = La, Ca, Sr, Ba) multiferroics<br>using neutron diffraction and Mossbauer<br>spectroscopy | 2014 | AIP Advances  | 4    | 8 | 87121 |      |      |
| 104 | Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.                                      | Structural and thermal investigations on<br>magnesium oxy-chloride bismo-borate glasses   | 2014 | Materials<br>Science and<br>Technology<br>Conference and<br>Exhibition 2014,<br>MS and T 2014 | 3    |   |       | 1827 | 1834 |
| 105 | Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.                                      | Effect of alkali addition on DC conductivity &<br>thermal properties of vanadium-bismo-borate<br>glasses  | 2014 | AIP Conference<br>Proceedings   | 1591 |   |       | 796  | 798  |
| 106 | Priyanka,<br>Agarwal A.,<br>Ahlawat N.,<br>Sanghi S.,<br>Rani S.             | Rietveld refinement and dielectric studies of<br>Bi <sub>0.8</sub> Ba <sub>0.2</sub> Fe <sub>0.95</sub> V <sub>0.05</sub> O <sub>3</sub> ceramic  | 2014 | AIP Conference<br>Proceedings   | 1591 |   |       | 1683 | 1685 |
| 107 | Pal I.,<br>Agarwal A.,   | Intense 1.6 $\mu$ m fluorescence of Nd <sup>3+</sup> doped<br>cadmium bismuth silicate glasses  | 2014 | AIP Conference<br>Proceedings   | 1591 |   |       | 696  | 698  |



|     |  |  |      |   |     |     |         |     |     |
|-----|--|--|------|---|-----|-----|---------|-----|-----|
|     | Sanghi S.,<br>Bhardwaj S.,<br>Sanjay S.                                    |  |      |   |     |     |         |     |     |
| 108 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal<br>M.P.,<br>Bhardwaj S.   | Fluorescence and radiative properties of Nd <sup>3+</sup><br>ions doped zinc bismuth silicate glasses  | 2014 | Journal of Alloys<br>and Compounds  | 587 |     |         | 332 | 338 |
| 109 | Hooda A.,<br>Sanghi S.,<br>Agarwal A.,<br>Dahiya R.                        | Structural, dielectric and magnetic properties<br>of Cd/Pb doped W-type hexaferrites   | 2014 | Journal of<br>Magnetism and<br>Magnetic<br>Materials                              | 349 |     |         | 121 | 127 |
| 110 | Bhardwaj S.,<br>Shukla R.,<br>Sanghi S.,<br>Agarwal A.,<br>Pal I.          | Spectroscopic properties of Sm <sup>3+</sup> doped lead<br>bismosilicate glasses using Judd-Ofelt theory   | 2014 | Spectrochimica<br>Acta - Part A:<br>Molecular and<br>Biomolecular<br>Spectroscopy | 117 |     |         | 191 | 197 |
| 111 | Sanjay,<br>Kishore N.,<br>Agarwal A.,<br>Dahiya S.,<br>Pal I., Kumar<br>N. | Optical and spectroscopic studies of Fe <sub>2</sub> O <sub>3</sub> -Bi<br>2O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> :V <sub>2</sub> O <sub>5</sub> glasses | 2013 | Modern Physics<br>Letters B   | 27  | 28  | 1350207 |     |     |
| 112 | Sindhu M.,<br>Ahlawat N.,<br>Sanghi S.,<br>Kumari R.,<br>Agarwal A.        | Effect of Zr substitution on phase<br>transformation and dielectric properties of<br>Ba <sub>0.9</sub> Ca <sub>0.1</sub> TiO <sub>3</sub> ceramics               | 2013 | Journal of<br>Applied Physics   | 114 | 16  | 164106  |     |     |
| 113 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal<br>M.P.                   | Physical, Optical and Structural Properties of<br>Er <sup>3+</sup> Doped Zinc/Cadmium Bismuth<br>Borate/Silicate Glasses   | 2013 | Current Trends<br>on Glass and<br>Ceramic<br>Materials                            | 142 | 181 |         |     |     |
| 114 | Agarwal A.,<br>Khasa S.,   | Study of EPR, optical properties and dc<br>conductivity of VO <sub>2</sub> <sup>+</sup> ion doped  | 2013 | Journal of Alloys<br>and Compounds  | 568 |     |         | 112 | 117 |

|     |  |   |      |   |      |   |       |     |     |
|-----|--|---|------|---|------|---|-------|-----|-----|
|     | Seth V.P.,<br>Arora M.   | TiO <sub>2</sub> ×R <sub>2</sub> O×B <sub>2</sub> O <sub>3</sub> (R = Li and K) glasses   |      |   |      |   |       |     |     |
| 115 | Khasa S.,<br>Dahiya M.S.,<br>Agarwal A.  | FTIR studies of some vanadyl ion doped calcium oxychloride borate glasses   | 2013 | AIP Conference Proceedings  | 1536 |   |       | 671 | 672 |
| 116 | Ahlawat N.,<br>Aghamkar P.,<br>Agarwal A.,<br>Sanghi S.,<br>Sindhu M.,<br>Ahlawat N. | Influence of SiO <sub>2</sub> on conduction and relaxation mechanism of Li <sup>+</sup> ions in binary network former lead silicate glasses             | 2013 | Physica B: Condensed Matter   | 414  |   |       | 103 | 109 |
| 117 | Sanjay,<br>Kishore N.,<br>Kundu R.S.,<br>Agarwal A.,<br>Dhankhar S.                  | Investigation of DC electrical conductivity of chalcogenide glasses   | 2013 | AIP Conference Proceedings  | 1512 |   |       | 596 | 597 |
| 118 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal M.P.                                | Investigation of spectroscopic properties, structure and luminescence spectra of Sm <sup>3+</sup> doped zinc bismuth silicate glasses                   | 2013 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 101  |   |       | 74  | 81  |
| 119 | Reetu,<br>Agarwal A.,<br>Sanghi S.,<br>Ashima,<br>Ahlawat N.                         | Improved dielectric and magnetic properties of Ti modified BiCaFeO <sub>3</sub> multiferroic ceramics   | 2013 | Journal of Applied Physics  | 113  | 2 | 23908 |     |     |
| 120 | Bala R.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh N.                                    | Effect of Bi <sub>2</sub> O <sub>3</sub> on nonlinear optical properties of ZnO×Bi <sub>2</sub> O <sub>3</sub> ×SiO <sub>2</sub> glasses                | 2013 | Optical Materials   | 36   | 2 |       | 352 | 356 |
| 121 | Sindhu M.,<br>Ahlawat N.,<br>Sanghi S.,<br>Kumari R.,<br>Agarwal A.                  | Crystal structure refinement and investigation of electrically heterogeneous microstructure of single phased Sr substituted BaTiO <sub>3</sub> ceramics | 2013 | Journal of Alloys and Compounds                                       | 575  |   |       | 109 | 114 |

|     |   |  |      |  |      |    |  |      |      |
|-----|---|--|------|--|------|----|--|------|------|
| 122 | Ahlawat N.N.,<br>Agamkar P.,<br>Ahlawat N.,<br>Agarwal A.,<br>Monica,<br>Rekha                  | Structural study of TM doped alkali bismuth borate glasses   | 2013 | Advanced Materials Letters                 | 4    | 1  |  | 71   | 73   |
| 123 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Sanjay,<br>Aggarwal M.P.                                | Spectroscopic and radiative properties of Nd <sup>3+</sup> ions doped zinc bismuth borate glasses  | 2013 | Indian Journal of Pure and Applied Physics | 51   | 1  |  | 18   | 25   |
| 124 | Singh P.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh N.,<br>Khasa S.                                 | Study of (Bi <sub>2</sub> O <sub>3</sub> )(Ba <sub>x</sub> Mo <sub>1-x</sub> O <sub>3</sub> ) polycrystalline ceramic as relaxor ferroelectric | 2012 | Physica B: Condensed Matter                | 407  | 24 |  | 4752 | 4759 |
| 125 | Kumari R.,<br>Ahlawat N.,<br>Agarwal A.,<br>Sindhu M.,<br>Ahlawat N.N.                          | Structural and dielectric properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric ceramics                            | 2012 | Advanced Materials Research                | 585  |    |  | 219  | 223  |
| 126 | Sindhu M.,<br>Ahlawat N.,<br>Sanghi S.,<br>Agarwal A.,<br>Ashima,<br>Kumari R.,<br>Ahlawat N.N. | Rietveld refinement and dc conductivity of Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> ceramics  | 2012 | Advanced Materials Research                | 585  |    |  | 210  | 213  |
| 127 | Sanjay,<br>Kaushik A.,<br>Kishore N.,<br>Agarwal A.,  | Study of structural and optical properties of lead borate glasses containing transition metal ion  | 2012 | AIP Conference Proceedings                 | 1447 | 1  |  | 567  | 568  |

|     |   |  |      |   |     |    |        |      |      |
|-----|---|--|------|---|-----|----|--------|------|------|
|     | Pal I., Dhar R.   |  |      |   |     |    |        |      |      |
| 128 | Sindhu M., Ahlawat N., Sanghi S., Agarwal A., Dahiya R., Ahlawat N. | Rietveld refinement and impedance spectroscopy of calcium titanate   | 2012 | Current Applied Physics                     | 12  | 6  |        | 1429 | 1435 |
| 129 | Singh N., Agarwal A., Sanghi S., Khasa S.                           | Dielectric loss, conductivity relaxation process and magnetic properties of Mg substituted Ni-Cu ferrites                              | 2012 | Journal of Magnetism and Magnetic Materials | 324 | 16 |        | 2506 | 2511 |
| 130 | Ashima, Sanghi S., Agarwal A., Reetu, Ahlawat N., Monica            | Structure refinement and dielectric relaxation of M-type Ba, Sr, Ba-Sr, and Ba-Pb hexaferrites   | 2012 | Journal of Applied Physics                  | 112 | 1  | 14110  |      |      |
| 131 | Reetu, Agarwal A., Sanghi S., Ashima, Ahlawat N., Monica            | Phase transformation, dielectric and magnetic properties of Nb doped Bi 0.8Sr 0.2FeO <sub>3</sub> multiferroics                        | 2012 | Journal of Applied Physics                  | 111 | 11 | 113917 |      |      |
| 132 | Agarwal A., Sanghi S., Ashima, Ahlawat N.                           | Structural transformation and improved dielectric and magnetic properties in Ti-substituted Bi 0.8La 0.2FeO <sub>3</sub> multiferroics | 2012 | Journal of Physics D: Applied Physics       | 45  | 16 | 165001 |      |      |
| 133 | Pal I., Agarwal A., Sanghi S.                                       | Spectral analysis and structure of Cu <sup>2+</sup> -doped cadmium bismuth borate glasses  | 2012 | Indian Journal of Pure and Applied Physics  | 50  | 4  |        | 237  | 244  |
| 134 | Pal I., Sanghi S., Agarwal A., Aggarwal M.P.                        | Spectroscopic and structural investigations of Er <sup>3+</sup> doped zinc bismuth borate glasses                                      | 2012 | Materials Chemistry and Physics             | 133 | 1  |        | 151  | 158  |
| 135 | Ashima,   | Rietveld refinement, electrical properties and   | 2012 | Journal of Alloys                           | 513 |    |        | 436  | 444  |

|     |   |  |      |                             |      |   |  |      |      |
|-----|---|--|------|-----------------------------|------|---|--|------|------|
|     | Sanghi S.,<br>Agarwal A.,<br>Reetu  | magnetic characteristics of Ca-Sr substituted barium hexaferrites  |      | and Compounds               |      |   |  |      |      |
| 136 | Bhardwaj S.,<br>Shukla R.,<br>Sanghi S.,<br>Agarwal A.,<br>Pal I.                 | Absorbance and fluorescence spectral analysis of Sm <sup>3+</sup> ions doped bismuth boro-silicate glasses   | 2012 | Advanced Materials Research | 585  |   |  | 279  | 283  |
| 137 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal M.P.                             | Structure and optical absorption of Sm <sup>3+</sup> and Nd <sup>3+</sup> ions in cadmium bismuth borate glasses with large radiative transition probabilities | 2012 | Optical Materials           | 34   | 7 |  | 1171 | 1180 |
| 138 | Ahlawat N.,<br>Ahlawat N.,<br>Agarwal A.,<br>Aghamkar P.,<br>Monica               | Infrared spectroscopic study for structural investigation of lithium lead silicate glasses   | 2011 | AIP Conference Proceedings  | 1393 |   |  | 313  | 314  |
| 139 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal M.P.                             | Spectral studies (Judd-Ofelt theory) of Er <sup>3+</sup> in zinc bismuth borate glasses  | 2011 | AIP Conference Proceedings  | 1393 |   |  | 131  | 132  |
| 140 | Ahlawat N.,<br>Sanghi S.,<br>Agarwal A.,<br>Ahlawat N.,<br>Aghamkar P.,<br>Monica | Investigation of dispersive conductivity and dielectric losses in barium bismuth silicate glasses  | 2011 | AIP Conference Proceedings  | 1393 |   |  | 127  | 128  |
| 141 | Bhardwaj S.,<br>Shukla R.,<br>Sanghi S.,<br>Agarwal A.,<br>Pal I.                 | Optical and structural analysis of lead bismuth silicate glasses   | 2011 | AIP Conference Proceedings  | 1393 |   |  | 133  | 134  |
| 142 | Ashima,<br>Sanghi S.,   | Synthesis and characterization of Ba <sub>1-x</sub> CaxFe <sub>12</sub> O <sub>19</sub> hexaferrite synthesized by solid state                                 | 2011 | AIP Conference Proceedings  | 1393 |   |  | 137  | 138  |

|     |   |   |      |   |         |        |       |      |      |
|-----|---|---|------|---|---------|--------|-------|------|------|
|     | Agarwal A.,<br>Reetu  | reaction method   |      |   |         |        |       |      |      |
| 143 | Reetu,<br>Agarwal A.,<br>Sanghi S.,<br>Ashima                                     | Structure, dielectric relaxation and magnetic properties of Bi <sub>0.8</sub> Sr <sub>0.2</sub> Fe <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> multiferroic               | 2011 | AIP Conference Proceedings  | 1393    |        |       | 135  | 136  |
| 144 | Sanjay,<br>Kishore N.,<br>Agarwal A.  | Investigation of structural and optical properties of MoO <sub>3</sub> -PbO-B <sub>2</sub> O <sub>3</sub> :V <sub>2</sub> O <sub>5</sub> glasses                            | 2011 | AIP Conference Proceedings  | 1393    |        |       | 285  | 286  |
| 145 | Sanghi S.,<br>Pal I.,<br>Agarwal A.,<br>Aggarwal M.P.                             | Effect of Bi <sub>2</sub> O <sub>3</sub> on spectroscopic and structural properties of Er <sup>3+</sup> doped cadmium bismuth borate glasses                                | 2011 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 83      | 1      |       | 94   | 99   |
| 146 | Sheoran A.,<br>Agarwal A.,<br>Sanghi S.,<br>Seth V.P.,<br>Gupta S.K.,<br>Arora M. | Effect of WO <sub>3</sub> on EPR, structure and electrical conductivity of vanadyl doped WO <sub>3</sub> ·M <sub>2</sub> O·B <sub>2</sub> O <sub>3</sub> (M=Li, Na) glasses | 2011 | Physica B: Condensed Matter   | 406     | 23     |       | 4505 | 4511 |
| 147 | Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Ahlawat N.                            | Influence of Ba <sup>2+</sup> ions on defect concentration in bismuth silicate glasses evidenced by FTIR and UV-visible spectroscopy  | 2011 | Physica Status Solidi (C) Current Topics in Solid State Physics       | 8       | 11-Dec |       | 3167 | 3170 |
| 148 | Ahlawat N.,<br>Sanghi S.,<br>Agarwal A.,<br>Ahlawat N.                            | Influence of SiO <sub>2</sub> on dispersive conductivity and absorption edge of calcium bismuthate glasses  | 2011 | Solid State Ionics  | 204-205 | 1      |       | 20   | 26   |
| 149 | Reetu,<br>Agarwal A.,<br>Sanghi S.,<br>Ashima                                     | Rietveld analysis, dielectric and magnetic properties of Sr and Ti codoped BiFeO <sub>3</sub> multiferroic  | 2011 | Journal of Applied Physics  | 110     | 7      | 73909 |      |      |
| 150 | Singh N.,<br>Agarwal A.,<br>Sanghi S.   | Dielectric relaxation, conductivity behaviour and magnetic properties of Mg substituted Ni-Li ferrites  | 2011 | Journal of Alloys and Compounds                                       | 509     | 27     |       | 7543 | 7548 |

|     |   |  |      |  |     |        |  |      |      |
|-----|---|--|------|--|-----|--------|--|------|------|
| 151 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,<br>Aggarwal<br>M.P.                | Structural, absorption and fluorescence<br>spectral analysis of Pr <sup>3+</sup> ions doped zinc<br>bismuth borate glasses                         | 2011 | Journal of Alloys<br>and Compounds                   | 509 | 28     |  | 7625 | 7631 |
| 152 | Singh N.,<br>Agarwal A.,<br>Sanghi S.                                   | Dielectric relaxation, conductivity behavior and<br>magnetic properties of Mg substituted Zn-Li<br>ferrites  | 2011 | Current Applied<br>Physics                           | 11  | 3      |  | 783  | 789  |
| 153 | Rohilla S.,<br>Kumar S.,<br>Aghamkar<br>P., Sunder<br>S., Agarwal<br>A. | Investigations on structural and magnetic<br>properties of cobalt ferrite/silica<br>nanocomposites prepared by the<br>coprecipitation method       | 2011 | Journal of<br>Magnetism and<br>Magnetic<br>Materials | 323 | 7      |  | 897  | 902  |
| 154 | Singh N.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh P.                      | Synthesis, microstructure, dielectric and<br>magnetic properties of Cu substituted NiLi<br>ferrites  | 2011 | Journal of<br>Magnetism and<br>Magnetic<br>Materials | 323 | 5      |  | 486  | 492  |
| 155 | Singh N.,<br>Agarwal A.,<br>Sanghi S.,<br>Singh P.                      | Effect of magnesium substitution on dielectric<br>and magnetic properties of NiZn ferrite  | 2011 | Physica B:<br>Condensed<br>Matter                    | 406 | 3      |  | 687  | 692  |
| 156 | Sanghi S.,<br>Sheoran A.,<br>Agarwal A.,<br>Khasa S.                    | Conductivity and dielectric relaxation in<br>niobium alkali borate glasses   | 2010 | Physica B:<br>Condensed<br>Matter                    | 405 | 24     |  | 4919 | 4924 |
| 157 | Sanghi S.,<br>Duhan S.,<br>Agarwal A.,<br>Aghamkar P.                   | Effect of CaO on the conductivity and dielectric<br>properties of novel Fe <sub>2</sub> O <sub>3</sub> ·CaO·Bi <sub>2</sub> O <sub>3</sub> glasses | 2010 | Physica B:<br>Condensed<br>Matter                    | 405 | 18     |  | 3846 | 3851 |
| 158 | Sanghi S.,<br>Rani S.,<br>Agarwal A.,<br>Bhatnagar<br>V.                | Influence of Nb <sub>2</sub> O <sub>5</sub> on the structure, optical<br>and electrical properties of alkaline borate<br>glasses                   | 2010 | Materials<br>Chemistry and<br>Physics                | 120 | 02-Mar |  | 381  | 386  |
| 159 | Kishore S.N.,   | Study of structural, optical and transport   | 2010 | Indian Journal of                                    | 48  | 3      |  | 205  | 211  |

|     |   |   |      |   |     |        |       |      |      |
|-----|---|---|------|---|-----|--------|-------|------|------|
|     | Agarwal A.  | properties of semiconducting Fe <sub>2</sub> O <sub>3</sub> -PbO-B <sub>2</sub> O <sub>3</sub> glasses  |      | Pure and Applied Physics  |     |        |       |      |      |
| 160 | Agarwal A., Sheoran A., Sanghi S., Bhatnagar V., Gupta S.K., Arora M. | Structural investigation and electron paramagnetic resonance of vanadyl doped alkali niobium borate glasses   | 2010 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 75  | 3      |       | 964  | 969  |
| 161 | Ahlawat N., Sanghi S., Agarwal A., Bala R.                            | Influence of SiO <sub>2</sub> on the structure and optical properties of lithium bismuth silicate glasses   | 2010 | Journal of Molecular Structure  | 963 | 1      |       | 82   | 86   |
| 162 | Rani S., Sanghi S., Agarwal A., Kishore N.                            | Study of structure and Li <sup>+</sup> ions dynamics in presence of Fe <sub>2</sub> O <sub>3</sub> in Bi <sub>2</sub> O <sub>3</sub> ·B <sub>2</sub> O <sub>3</sub> glasses | 2010 | Solid State Phenomena   | 161 |        |       | 51   | 61   |
| 163 | Anshu, Sanghi S., Agarwal A., Lather M., Bhatnagar V., Khasa S.       | Structural investigations of vanadyl doped Nb <sub>2</sub> O <sub>5</sub> ·K <sub>2</sub> O·B <sub>2</sub> O <sub>3</sub> glasses   | 2009 | IOP Conference Series: Materials Science and Engineering              | 2   |        | 12054 |      |      |
| 164 | Rani S., Sanghi S., Agarwal A., Khasa S.                              | Influence of Nb <sub>2</sub> O <sub>5</sub> on the optical band gap and electrical conductivity of Nb <sub>2</sub> O <sub>5</sub> ·BaO·B <sub>2</sub> O <sub>3</sub>        | 2009 | IOP Conference Series: Materials Science and Engineering              | 2   |        | 12041 |      |      |
| 165 | Sanghi S., Duhan S., Agarwal A., Aghamkar P.                          | Study of structure and optical properties of Fe <sub>2</sub> O <sub>3</sub> ·CaO·Bi <sub>2</sub> O <sub>3</sub> glasses   | 2009 | Journal of Alloys and Compounds                                       | 488 | 1      |       | 454  | 458  |
| 166 | Sanjay, Kishore N., Agarwal A.  | Investigation of structural, optical and transport properties of MoO <sub>3</sub> ·PbO·B <sub>2</sub> O <sub>3</sub> glasses  | 2009 | Journal of Alloys and Compounds                                       | 487 | 01-Feb |       | 52   | 57   |
| 167 | Rani S., Sanghi S.,   | Effect of Bi <sub>2</sub> O <sub>3</sub> on the dynamics of Li <sup>+</sup> ions in Li <sub>2</sub> O·P <sub>2</sub> O <sub>5</sub> glasses                                 | 2009 | Journal of Materials  | 44  | 21     |       | 5781 | 5787 |



|     |   |   |      |   |     |        |  |      |      |
|-----|---|---|------|---|-----|--------|--|------|------|
|     | Agarwal A.,<br>Ahlawat N.   |   |      | Science   |     |        |  |      |      |
| 168 | Ahlawat N.,<br>Agarwal A.,<br>Sanghi S.,<br>Kishore N.            | Stretched exponential relaxation and dispersive conductivity behavior in lithium bismuth silicate glasses   | 2009 | Solid State Ionics  | 180 | 26-27  |  | 1356 | 1361 |
| 169 | Rani S.,<br>Sanghi S.,<br>Agarwal A.,<br>Seth V.P.                | Study of optical band gap and FTIR spectroscopy of Li <sub>2</sub> O·Bi <sub>2</sub> O <sub>3</sub> ·P <sub>2</sub> O <sub>5</sub> glasses  | 2009 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 74  | 3      |  | 673  | 677  |
| 170 | Ahlawat N.,<br>Sanghi S.,<br>Agarwal A.,<br>Rani S.               | Effect of Li <sub>2</sub> O on structure and optical properties of lithium bismosilicate glasses  | 2009 | Journal of Alloys and Compounds                                       | 480 | 2      |  | 516  | 520  |
| 171 | Sanghi S.,<br>Rani S.,<br>Agarwal A.,<br>Seth V.P.                | Li <sup>+</sup> ion constriction in presence of Bi <sub>2</sub> O <sub>3</sub> and ac conductivity in Li <sub>2</sub> O·P <sub>2</sub> O <sub>5</sub> ·Bi <sub>2</sub> O <sub>3</sub> glasses | 2009 | Physica B: Condensed Matter   | 404 | 14-15  |  | 1969 | 1973 |
| 172 | Duhan S.,<br>Sanghi S.,<br>Agarwal A.,<br>Sheoran A.,<br>Rani S.  | Dielectric properties and conductivity enhancement on heat treatment of bismuth silicate glasses containing TiO <sub>2</sub>  | 2009 | Physica B: Condensed Matter   | 404 | Dec-13 |  | 1648 | 1654 |
| 173 | Rani S.,<br>Sanghi S.,<br>Agarwal A.,<br>Ahlawat N.               | Influence of Bi <sub>2</sub> O <sub>3</sub> on optical properties and structure of bismuth lithium phosphate glasses  | 2009 | Journal of Alloys and Compounds                                       | 477 | 01-Feb |  | 504  | 509  |
| 174 | Sheoran A.,<br>Sanghi S.,<br>Rani S.,<br>Agarwal A.,<br>Seth V.P. | Impedance spectroscopy and dielectric relaxation in alkali tungsten borate glasses  | 2009 | Journal of Alloys and Compounds                                       | 475 | 01-Feb |  | 804  | 809  |
| 175 | Pal I.,<br>Agarwal A.,<br>Sanghi S.,                              | Conductivity and dielectric relaxation in sodium borosulfate glasses  | 2009 | Journal of Alloys and Compounds                                       | 472 | 01-Feb |  | 40   | 45   |

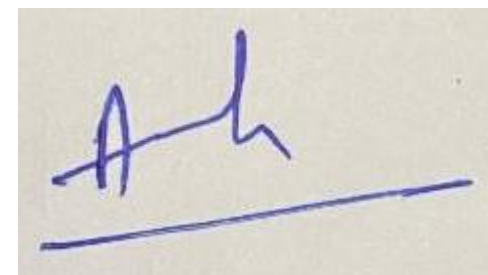
|     |   |   |      |   |     |        |        |      |      |
|-----|---|---|------|---|-----|--------|--------|------|------|
|     | Sheoran A.,<br>Ahlawat N.   |   |      |   |     |        |        |      |      |
| 176 | Agarwal A.,<br>Pal I., Sanghi<br>S., Aggarwal<br>M.P.                       | Judd-Ofelt parameters and radiative properties<br>of Sm <sup>3+</sup> ions doped zinc bismuth borate<br>glasses   | 2009 | Optical<br>Materials  | 32  | 2      |        | 339  | 344  |
| 177 | Kishore S.N.,<br>Agarwal A.,<br>Seth V.P.,<br>Sheoran<br>M.S.               | Thermal and electrical properties of MoO <sub>3</sub> -<br>Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses  | 2008 | Indian Journal of<br>Pure and<br>Applied Physics            | 46  | 10     |        | 719  | 721  |
| 178 | Ahlawat N.,<br>Sanghi S.,<br>Agarwal A.,<br>Kishore N.,<br>Rani S.          | Investigation of near constant loss contribution<br>to conductivity in lithium bismo-silicate glasses   | 2008 | Journal of Non-<br>Crystalline Solids                       | 354 | 31     |        | 3767 | 3772 |
| 179 | Rani S.,<br>Sanghi S.,<br>Anshu,<br>Agarwal A.,<br>Kishore N.,<br>Seth V.P. | Effect of ZnO/CdO on the structure and<br>electrical conductivity in Li <sub>2</sub> O·MO·Bi <sub>2</sub> O <sub>3</sub> ·B <sub>2</sub> O <sub>3</sub><br>glasses (M=Zn, Cd) | 2008 | Journal of<br>Physics and<br>Chemistry of<br>Solids         | 69  | 7      |        | 1855 | 1860 |
| 180 | Anshu, Rani<br>S., Agarwal<br>A., Sanghi<br>S., Kishore<br>N., Seth V.P.    | Study of electron paramagnetic resonance in<br>vanadyl doped tungsten lithium borate glasses  | 2008 | Indian Journal of<br>Pure and<br>Applied Physics            | 46  | 6      |        | 382  | 384  |
| 181 | Sindhu S.,<br>Sanghi S.,<br>Rani S.,<br>Agarwal A.,<br>Seth V.P.            | Modification of structure and electrical<br>conductivity of cadmium borate glasses in the<br>presence of V <sub>2</sub> O <sub>5</sub>  | 2008 | Materials<br>Chemistry and<br>Physics                       | 107 | 02-Mar |        | 236  | 243  |
| 182 | Sun Y.,<br>Vaughan<br>M.P.,<br>Agarwal A.,                                  | Inhibition of negative differential resistance in<br>modulation-doped n -type Ga <sub>x</sub> In <sub>1-x</sub> N <sub>y</sub> As <sub>1-y</sub><br>GaAs quantum wells        | 2007 | Physical Review<br>B - Condensed<br>Matter and<br>Materials | 75  | 20     | 205316 |      |      |

|     |  |  |      |   |     |        |       |     |     |
|-----|--|--|------|---|-----|--------|-------|-----|-----|
|     | Yilmaz M.,<br>Ulug B.,<br>Ulug A.,<br>Balkan N.,<br>Sopanen M.,<br>Reentilä O.,<br>Mattila M.,<br>Fontaine C.,<br>Arnoult A. |  |      | Physics   |     |        |       |     |     |
| 183 | Sindhu S.,<br>Sanghi S.,<br>Agarwal A.,<br>Kishore N.,<br>Seth V.P.  | Effect of V <sub>2</sub> O <sub>5</sub> on structure and electrical properties of zinc borate glasses  | 2007 | Journal of Alloys and Compounds   | 428 | 01-Feb |       | 206 | 213 |
| 184 | Agarwal A.,<br>Chung S.,<br>Balkan N.,<br>Hill G.  | Effect of cavity length on stimulated emission from Fabry-Prot Gunn lasers   | 2007 | Journal of Applied Physics  | 101 | 1      | 13110 |     |     |
| 185 | Khasa S.,<br>Seth V.P.,<br>Gahlot P.S.,<br>Agarwal A.,<br>Gupta S.K.   | Effect of cobalt ions on the EPR and d.c. conductivity in vanadyl doped CoO-M <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> (M=Li, K) glasses     | 2006 | Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B | 47  | 4      |       | 371 | 376 |
| 186 | Sindhu S.,<br>Sanghi S.,<br>Agarwal A.,<br>Seth V.P.,<br>Kishore N.  | Structural, optical, physical and electrical properties of V <sub>2</sub> O <sub>5</sub> ·SrO·B <sub>2</sub> O <sub>3</sub> glasses              | 2006 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy                     | 64  | 1      |       | 196 | 204 |
| 187 | Sindhu S.,<br>Sanghi S.,<br>Agarwal A.,<br>Sonam, Seth V.P., Kishore   | The role of V <sub>2</sub> O <sub>5</sub> in the modification of structural, optical and electrical properties of vanadium barium borate glasses | 2005 | Physica B: Condensed Matter   | 365 | 01-Apr |       | 65  | 75  |

|     | N.  |  |      |   |     |        |  |      |      |
|-----|---|--|------|---|-----|--------|--|------|------|
| 188 | Gahlot P.S.,<br>Seth V.P.,<br>Agarwal A.,<br>Kishore N.,<br>Gupta S.K.,<br>Arora M. | Electron paramagnetic resonance, optical and electrical properties of vanadyl doped alkali germanoborate glasses   | 2005 | Journal of Physics and Chemistry of Solids                            | 66  | 5      |  | 766  | 772  |
| 189 | Gahlot P.S.,<br>Agarwal A.,<br>Seth V.P.,<br>Sanghi S.,<br>Gupta S.K.,<br>Arora M.  | Study of EPR, optical properties and electrical conductivity of vanadyl doped Bi <sub>2</sub> O <sub>3</sub> ·PbO·B <sub>2</sub> O <sub>3</sub> glasses  | 2005 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 61  | 6      |  | 1189 | 1194 |
| 190 | Gahlot P.S.,<br>Seth V.P.,<br>Agarwal A.,<br>Sanghi S.,<br>Chand P.,<br>Goyal D.R.  | Role of PbO in EPR, optical properties and DC conductivity of vanadyl-doped alkali lead borate glasses   | 2005 | Physica B: Condensed Matter   | 355 | 01-Apr |  | 44   | 53   |
| 191 | Sindhu S.,<br>Sanghi S.,<br>Agarwal A.,<br>Seth V.P.,<br>Kishore N.                 | Effect of Bi <sub>2</sub> O <sub>3</sub> content on the optical band gap, density and electrical conductivity of MO·Bi <sub>2</sub> O <sub>3</sub> ·3·B <sub>2</sub> O <sub>3</sub> (M = Ba, Sr) glasses | 2005 | Materials Chemistry and Physics                                       | 90  | 1      |  | 83   | 89   |
| 192 | Sanghi S.,<br>Sindhu S.,<br>Agarwal A.,<br>Seth V.P.                                | Physical, optical and electrical properties of calcium bismuth borate glasses  | 2004 | Radiation Effects and Defects in Solids                               | 159 | 6      |  | 369  | 379  |
| 193 | Agarwal A.,<br>Seth V.P.,<br>Gahlot P.,<br>Goyal D.R.,<br>Arora M.,<br>Gupta S.K.   | Effect of TiO <sub>2</sub> on electron paramagnetic resonance, optical transmission and dc conductivity of vanadyl doped sodium borate glasses   | 2004 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy | 60  | 13     |  | 3161 | 3167 |
| 194 | Agarwal A.,<br>Seth V.P.,   | Study of electron paramagnetic resonance, optical transmission and dc conductivity of  | 2004 | Journal of Alloys and Compounds                                       | 377 | 01-Feb |  | 225  | 231  |

|     |   |  |      |  |     |        |  |      |      |
|-----|---|--|------|--|-----|--------|--|------|------|
|     | Gahlot P.S.,<br>Khasa S.,<br>Arora M.,<br>Gupta S.K.                                  | vanadyl doped Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O glasses   |      |  |     |        |  |      |      |
| 195 | Agarwal A.,<br>Seth V.P.,<br>Gahlot P.S.,<br>Khasa S.,<br>Chand P.                    | Effect of Bi <sub>2</sub> O <sub>3</sub> on electron paramagnetic resonance, optical transmission and conductivity in vanadyl-doped Bi <sub>2</sub> O <sub>3</sub> -K <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> glasses | 2004 | Materials Chemistry and Physics            | 85  | 1      |  | 215  | 221  |
| 196 | Sanghi S.,<br>Dodain N.,<br>Meenakshi,<br>Agarwal A.                                  | Black YAG crystal and BDN dye as passive Q-switched laser modulators   | 2004 | Indian Journal of Pure and Applied Physics | 42  | 2      |  | 89   | 92   |
| 197 | Agarwal A.,<br>Seth V.P.,<br>Sanghi S.,<br>Gahlot P.,<br>Khasa S.                     | Mixed alkali effect in optical properties of lithium-potassium bismuth borate glass system   | 2004 | Materials Letters                          | 58  | 5      |  | 694  | 698  |
| 198 | Agarwal A.,<br>Seth V.P.,<br>Sanghi S.,<br>Gahlot P.,<br>Goyal D.R.                   | Optical band gap studies and estimation of two photon absorption coefficient in alkali bismuth borate glasses  | 2003 | Radiation Effects and Defects in Solids    | 158 | 11-Dec |  | 793  | 801  |
| 199 | Agarwal A.,<br>Seth V.P.,<br>Gahlot P.S.,<br>Khasa S.,<br>Chand P.                    | Effect of Bi <sub>2</sub> O <sub>3</sub> on EPR, optical transmission and DC conductivity of vanadyl doped alkali bismuth borate glasses   | 2003 | Journal of Physics and Chemistry of Solids | 64  | 11     |  | 2281 | 2288 |
| 200 | Khasa S.,<br>Seth V.P.,<br>Gahlot P.S.,<br>Agarwal A.,<br>Krishna R.M.,<br>Gupta S.K. | Electron paramagnetic resonance, optical transmission spectra and DC conductivity studies of vanadyl-doped alkali halide borate glasses  | 2003 | Physica B: Condensed Matter                | 334 | 03-Apr |  | 347  | 358  |
| 201 | Khasa S.,   | Effect of nickel ions on electron paramagnetic   | 2001 | Materials                                  | 72  | 3      |  | 366  | 373  |

|  |   |  |  |                          |  |  |  |  |  |
|--|---|--|--|--------------------------|--|--|--|--|--|
|  | Seth V.P.,<br>Agarwal A.,<br>Murali<br>Krishna R.,<br>Gupta S.K.,<br>Chand P. | resonance, DC conductivity and thermal<br>behavior in vanadyl doped NiO·Li <sub>2</sub> O·B <sub>2</sub> O <sub>3</sub><br>glasses |  | Chemistry and<br>Physics |  |  |  |  |  |
|--|---|--|--|--------------------------|--|--|--|--|--|

A handwritten signature in blue ink on a light-colored background. The signature consists of a stylized 'A' followed by a horizontal line and a vertical stroke, and a 'h' with a vertical stroke. Below the signature is a long horizontal line.